

## Cómo seleccionar su herramienta de roscar

### 1 Defina el tipo de operación

Seleccione el método de roscado, página C4:

- Roscado exterior o interior
- Roscas a derecha o roscas a izquierda
- Seleccione el tipo de rosca

### 2 Seleccione tamaño de plaquita, calidad, geometría y tipo de penetración

Seleccione el paso y el tamaño de la plaquita. Si fuera posible, elija una plaquita multi-dientes para mejorar la productividad.

Elija la geometría, calidad y tipo de penetración. Encontrará recomendaciones detalladas en la página C80

### 3 Seleccione el sistema de herramienta y el tipo de mango

Elija una herramienta con mango o Coromant Capto, dependiendo de las posibilidades de sujeción en torreta/husillo, en la página G5.

Elija el tipo de portaherramientas y el tamaño del acoplamiento o mango en la página C7.

El asiento de la plaquita debe corresponder con el tamaño de la plaquita.

### 4 Seleccione la placa de apoyo adecuada

Utilice la placa de apoyo correcta para el paso/diámetro de la pieza. En la página C45 encontrará CoroThread 266 y en la página C57 T-Max U-Lock.

Las placas de apoyo se utilizan para obtener diferentes inclinaciones en la plaquita y están disponibles en pasos de 1° de -2° a +4°.

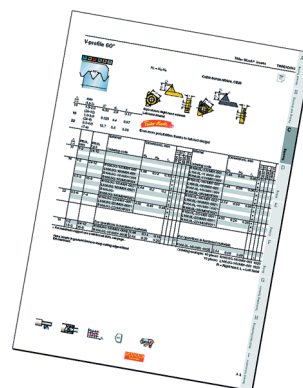
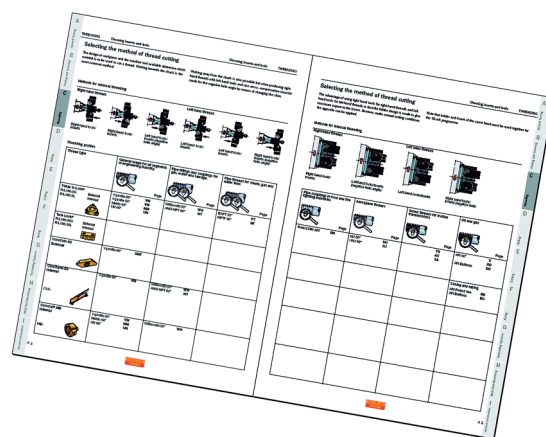
Los mangos de roscado se suministran siempre con una placa de apoyo que da un ángulo de inclinación de +1°.

Nota: No es necesario utilizar placas de apoyo para barras de menor diámetro, ya que tienen un ángulo fijo a +2°.

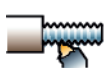
### 5 Seleccione tamaño, número de pasadas y velocidad

Estas recomendaciones se ofrecen como valores iniciales. (Página C70)

Recomendaciones de velocidad de corte, página C82.



Si desea más información técnica, consulte la Guía técnica sobre corte de metal



Roscado exterior



Roscado interior



CoroTurn® SL, adaptadores interiores



Herramientas especiales



Unidad Coromant Capto®



Portaherramientas



Barra de mandrinar



Sistema de herramientas



Plaquetas



Piezas de repuesto/accesorios



Manguitos



Cómo se elige la herramienta, información general



Tabla de conversión, fórmulas y definiciones



Descripciones de las calidades



Información técnica



Opciones a la medida

# ROSCADO

## Aplicaciones

|                                             |    |
|---------------------------------------------|----|
| Perfiles de rosca                           | C4 |
| Métodos para mecanizado exterior e interior | C6 |

## Productos

|                                          |    |
|------------------------------------------|----|
| Información general sobre portaplaquitas | C7 |
|------------------------------------------|----|

### CoroThread™ 266 para operaciones de roscado

|                                                |     |
|------------------------------------------------|-----|
| <b>Plaquitas</b>                               |     |
| Clave de códigos para plaquitas                | C10 |
| Perfil en V de 60° y 55°                       | C11 |
| Industria de fabricación MM, UN                | C19 |
| Ajustes de tuberías WH, NT                     | C19 |
| Roscas de tuberías PT, NF                      | C24 |
| Acoplamientos de tuberías RN                   | C25 |
| Roscas para la industria aeroespacial MJ, UNJ  | C27 |
| Roscas para tornillos trapezoidales TR, AC, SA | C30 |
| Roscas para aceite y gas V, RD, BU             | C30 |
| <b>Portaherramientas</b>                       | C35 |
| Clave de códigos de portaherramientas          | C35 |
| Selección de placas de apoyo                   | C45 |

### T-Max U-Lock® para roscado y ranurado

|                                 |     |
|---------------------------------|-----|
| <b>Plaquitas</b>                |     |
| Perfil en V de 60° y 55°        | C47 |
| Industria de fabricación MM, UN | C48 |
| Ajustes de tuberías WH, NT      | C50 |
| <b>Portaherramientas</b>        | C51 |
| Selección de placas de apoyo    | C57 |

### T-Max Twin-Lock® para roscado en la industria petrolífera

|                          |     |
|--------------------------|-----|
| Clave de códigos         | C58 |
| <b>Plaquitas</b>         | C59 |
| <b>Portaherramientas</b> | C60 |

|                               |    |
|-------------------------------|----|
| Sistema flexible CoroTurn® SL | I1 |
|-------------------------------|----|

### Otros sistemas para roscar

|                                                                          |      |
|--------------------------------------------------------------------------|------|
| CoroCut® XS, herramientas exteriores para mecanizado de piezas pequeñas  | B88  |
| CoroTurn® XS, herramientas interiores para mecanizado de piezas pequeñas | A309 |
| CoroCut® MB, herramientas interiores para mecanizado de precisión        | B95  |

## Piezas de repuesto

## Datos de corte

|                                       |     |
|---------------------------------------|-----|
| Recomendaciones de penetración        | C70 |
| Recomendaciones de velocidad de corte | C82 |

## Información sobre calidades

Todos los tipos de roscas

CoroThread™ 266

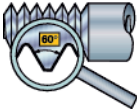
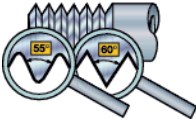
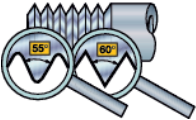
Roscado extra rígido, tamaños de plaquita 16, 22 y 27

T-Max U-Lock®

Tamaño de plaquita 11



Perfiles de rosca

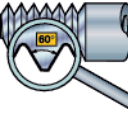
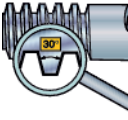
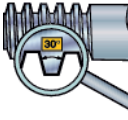
| Tipo de rosca                                                                                                                                                | Utilización general en todos los segmentos de la industria.                                                   | Uniones y acoplamientos de tuberías en conductos de gas, agua y alcantarillado.   | Roscas de tubo para vapor, gas y conductos de agua                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                              |                              |  |  |
|                                                                                                                                                              | Página                                                                                                        | Página                                                                            | Página                                                                              |
| <b>CoroThread™</b><br>266R/LG Exterior<br>266R/LL Interior<br>             | Perfil V 60° <b>VM</b> C11<br>Perfil V 55° <b>VW</b> C13<br>Métrica 60° <b>MM</b> C14<br>UN 60° <b>UN</b> C17 | Withworth 55° <b>WH</b> C19<br>NPT 60° <b>NT</b> C21                              | BSPT 55° <b>PT</b> C22<br>NPTF 60° <b>NF</b> C23                                    |
| <b>T-Max® U-Lock</b><br>R/L166.0L Interior<br>                            | Perfil V 60° <b>VM</b> C47<br>Perfil V 55° <b>VW</b> C47<br>Métrica 60° <b>MM</b> C48<br>UN 60° <b>UN</b> C49 | Withworth 55° <b>WH</b> C50<br>NPT 60° <b>NT</b> C50                              |                                                                                     |
| <b>T-Max Twin-Lock®</b><br>R/L166.39G Exterior<br>R/L166.39L Interior<br> |                                                                                                               |                                                                                   |                                                                                     |
| <b>CoroCut® XS</b><br>MATR/L Exterior<br>                                 | Perfil V 60° B93                                                                                              |                                                                                   |                                                                                     |
| <b>CoroTurn® XS</b><br>Interior<br><br><br>CXS-                           | Perfil V 60° <b>VM</b> A322<br>Métrica 60° <b>MM</b> A322<br>UN 60° <b>UN</b> A322                            | Withworth 55° <b>WH</b> A322<br>NPT 60° <b>NT</b> A322                            |                                                                                     |
| <b>CoroCut® MB</b><br>Interior<br><br><br>MB-                             | Perfil V 60° <b>VM</b> B103<br>Métrica 60° <b>MM</b> B103<br><br>UN 60° <b>UN</b> B103                        | Withworth 55° <b>WH</b> B103<br>NPT 60° <b>NT</b> B103                            |                                                                                     |

**T-Max Twin-Lock®**

Roscado para el sector del petróleo y del gas sobre todo en tuberías y revestimientos

**Mecanizado de piezas pequeñas**

CoroCut® XS para roscado exterior y CoroTurn® XS para roscado interior  
CoroCut® MB roscado interior de precisión

| <b>Acoplamiento de tuberías para el sector de alimentación y bomberos</b><br> | <b>Roscas aeroespaciales</b><br> | <b>Roscas para transmisiones</b><br> | <b>Petróleo y gas</b><br> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| DIN 405 Redonda <b>RN</b> C24                                                                                                                                  | MJ 60° <b>MJ</b> C25<br>UNJ 60° <b>NJ</b> C26                                                                     | ISO Trapezoidal <b>TR</b> C27<br>ACME <b>AC</b> C28<br>STUB ACME <b>SA</b> C28                                        | API 60° <b>V</b> C30<br>API Buttress <b>RD</b> C31<br><b>BU</b> C32                                          |
|                                                                                                                                                                |                                                                                                                   |                                                                                                                       |                                                                                                              |
|                                                                                                                                                                |                                                                                                                   |                                                                                                                       | <b>Carcasas y tuberías</b><br>API V Redonda <b>RD</b> C59<br>API Buttress <b>BU</b> C59                      |
|                                                                                                                                                                |                                                                                                                   | ISO Trapezoidal <b>TR</b> A322                                                                                        |                                                                                                              |
|                                                                                                                                                                |                                                                                                                   | ACME <b>AC</b> C28<br>STUB ACME <b>SA</b> C29                                                                         |                                                                                                              |
|                                                                                                                                                                |                                                                                                                   |                                                                                                                       |                                                                                                              |

## Selección del método de roscado

El diseño de la pieza a trabajar y el tipo de máquina herramienta determinan el método que se debe utilizar para producir las roscas. El método más habitual es trabajar hacia el portabrocas.

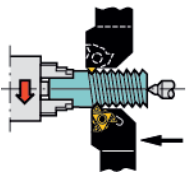
La ventaja de utilizar herramientas a derecha para mecanizar roscas a derecha y herramientas a izquierda para roscas a izquierda es que el portaplaquitas está diseñado para ofrecer el máximo apoyo a la plaquita.

También es posible trabajar lejos del portapinzas pero, si se está realizando una rosca a derecha con una herramienta a izquierda o viceversa, se debe compensar el ángulo helicoidal negativo cambiando la placa de apoyo.

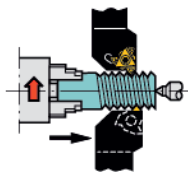
Deben utilizarse conjuntamente mangos y plaquitas del mismo lado para el programa CoroThread y U-Lock.

### Métodos de roscado exterior

#### Roscas a derecha

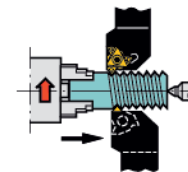


Herramientas/  
plaquitas a  
derecha



Herramientas/  
plaquitas a  
derecha

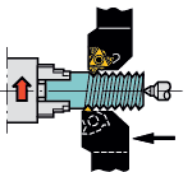
Roscado por tracción



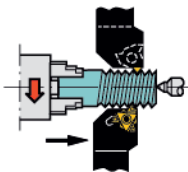
Herramientas/  
plaquitas a  
izquierda (ángulo  
helicoidal negativo)

Roscado por tracción

#### Roscas a izquierda

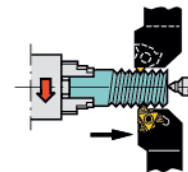


Herramientas/  
plaquitas a  
izquierda



Herramientas/  
plaquitas a  
izquierda

Roscado por tracción

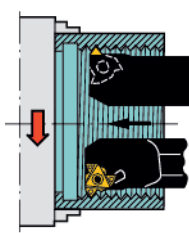


Herramientas/  
plaquitas a derecha  
(ángulo helicoidal  
negativo)

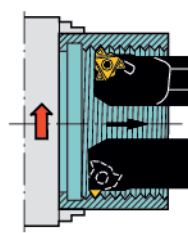
Roscado por tracción

### Métodos de roscado interior

#### Roscas a derecha



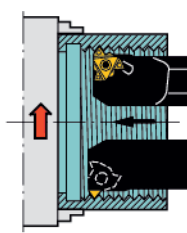
Herramientas/  
plaquitas a derecha



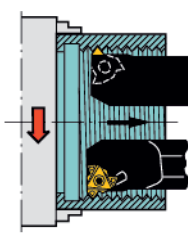
Herramientas/  
plaquitas a izquierda  
(ángulo helicoidal  
negativo)

Roscado por tracción

#### Roscas a izquierda



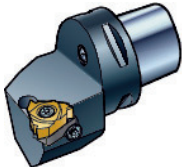
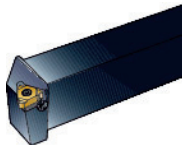
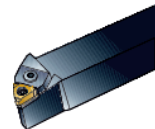
Herramientas/  
plaquitas a izquierda

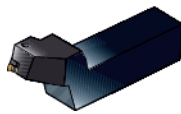
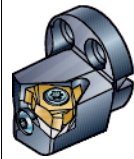


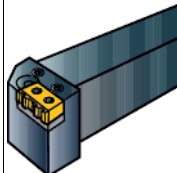
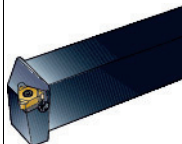
Herramientas/  
plaquitas a derecha  
(ángulo helicoidal  
negativo)

Roscado por tracción

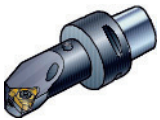
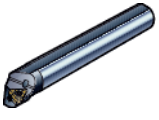
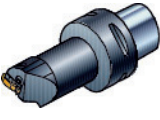
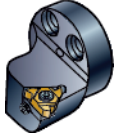
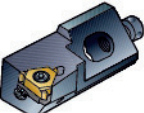
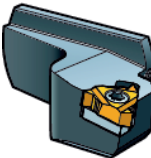
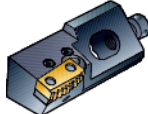
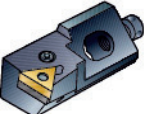
## Roscado exterior y ranurado de ranuras circlip

|                                        |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|----------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                        | Roscado en general                                                                |                                                                                   | Para máquinas de decoletaje                                                        | Roscado de piezas delgadas y contra el centro                                       |                                                                                     |
|                                        |  |  |  |  |  |
|                                        | CoroThread® 266R/LFG                                                              | CoroThread® 266R/LFG                                                              | CoroThread® 266R/LFA                                                               | T-Max® U-Lock R/L166.5FA                                                            | T-Max® U-Lock R/L166.5FA                                                            |
| Tamaño de plaquita, mm (1/8, pulgadas) | 16, 22, 27 (3/8, 1/2, 5/8)                                                        | 16, 22, 27 (3/8, 1/2, 5/8)                                                        | 16 (3/8)                                                                           | 16 (3/8)                                                                            | 16 (3/8)                                                                            |
| Tamaños Coromant Capto®                | C3-C8                                                                             | —                                                                                 | —                                                                                  | C3-C6                                                                               | —                                                                                   |
| Tamaño de mango, mm                    | —                                                                                 | 1616-4040                                                                         | 1010-1616                                                                          | —                                                                                   | 1212-2525                                                                           |
| Tamaño del mango, pulgadas             | —                                                                                 | .750-1.500                                                                        | .375-.750                                                                          | —                                                                                   | .500-1.250                                                                          |
| Página                                 | C35                                                                               | C36                                                                               | C37                                                                                | C51                                                                                 | C52                                                                                 |

|                                        |                                                                                     |                                                                                     |                                                                                                                                    |                                                                                      |
|----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                        | Diseño de cabeza truncada para montaje en posición invertida                        |                                                                                     |                                                                                                                                    | CoroThread® 266 SL, cabeza de corte exterior                                         |
|                                        |  |  | Para utilizar con plaquitas CoroThread 266<br> |  |
|                                        | CoroThread® 266R/LFGZ                                                               | CoroThread® 266R/LFGZ                                                               | T-Max® U-Lock R/L166.5FAZ                                                                                                          | CoroThread® SL-266R/LFG                                                              |
| Tamaño de plaquita, mm (1/8, pulgadas) | 16, 22, 27 (3/8, 1/2, 5/8)                                                          | 16, 22 (3/8, 1/2)                                                                   | 16 (3/8)                                                                                                                           | 16 (3/8)                                                                             |
| Tamaños Coromant Capto®                | C4-C6                                                                               | —                                                                                   | C3-C6                                                                                                                              | —                                                                                    |
| Tamaño de mango, mm                    | —                                                                                   | 2525-3232                                                                           | —                                                                                                                                  | —                                                                                    |
| Tamaño del mango, pulgadas             | —                                                                                   | .750-1.250                                                                          | —                                                                                                                                  | —                                                                                    |
| Tamaño acoplamiento                    | —                                                                                   | —                                                                                   | —                                                                                                                                  | 20-40                                                                                |
| Página                                 | C35                                                                                 | C36                                                                                 | C51                                                                                                                                | I52                                                                                  |

|                                   |                                                                                     |                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                   | T-Max Twin-Lock®                                                                    | Mecanizado de piezas pequeñas<br>Sistema de cambio rápido QS™                       |
|                                   |  |  |
|                                   | R166.39FG                                                                           | QS-266 RFA                                                                          |
| Tamaño de plaquita, mm (pulgadas) | 24 (.945)                                                                           | 16 (3/8)                                                                            |
| Tamaño de mango, mm               | 3232                                                                                | 1010-1616                                                                           |
| Tamaño del mango, pulgadas        | 1.260                                                                               | .376-.825                                                                           |
| Página                            | C60                                                                                 | C38                                                                                 |

## Roscado interior y ranurado de ranuras circlip

|                                       | <b>Coromant Capto</b>                                                               |                                                                                     | <b>Barras reforzadas con metal duro</b>                                              |                                                                                      | Diseño de cabeza truncada para montaje en posición invertida                        |
|---------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                       |    |                                                                                     |     |   |  |
|                                       | CoroThread® 266R/LKF                                                                | T-Max® U-Lock R/L166.0KF                                                            | CoroThread™ 266R/LKF                                                                 | T-Max® U-Lock R/L166.0KF                                                             | T-Max® U-Lock R/L166.0KFZ                                                           |
| Tamaño de plaquita, mm (iC, pulgadas) | 16-22 (3/8-1/2)                                                                     | 11 (1/4)                                                                            | 16, 22, 27 (3/8, 1/2, 5/8)                                                           | 11 (1/4)                                                                             | 11 (1/4)                                                                            |
| Tamaños Coromant Capto®               | C3-C6                                                                               | C3-C4                                                                               | –                                                                                    | –                                                                                    | C3-C4                                                                               |
| Diámetro de la barra, mm (pulgadas)   | –                                                                                   | –                                                                                   | 20-50 (.750-2.000)                                                                   | 10-16 (.625-.750)                                                                    | –                                                                                   |
| Página                                | C39                                                                                 | C53                                                                                 | C41                                                                                  | C55                                                                                  | C53                                                                                 |
|                                       | <b>Cabeza de corte SL</b>                                                           |                                                                                     | <b>Cartuchos</b>                                                                     | <b>Cabeza de corte para CoroTurn® SL de cambio rápido</b>                            |                                                                                     |
|                                       |   |                                                                                     |    |  |                                                                                     |
|                                       | CoroThread™ SL-266R/LKF                                                             | T-Max® U-Lock R/L566.0KFC                                                           | CoroThread™ 266                                                                      | CoroThread™ SL-266RKFC                                                               |                                                                                     |
| Tamaño de plaquita, mm (iC, pulgadas) | 16, 22, 27 (3/8, 1/2, 5/8)                                                          | 11 (3/4)                                                                            | 16, 22 (3/8, 1/2)                                                                    | 22, 27 (1/2, 5/8)                                                                    |                                                                                     |
| Tamaño de acoplamiento SL, mm         | 25-40                                                                               | 16-20                                                                               | –                                                                                    | 80                                                                                   |                                                                                     |
| Tamaño de cartucho                    | –                                                                                   | –                                                                                   | 16CA-20CA                                                                            | –                                                                                    |                                                                                     |
| Página                                | I53                                                                                 | I54                                                                                 | C44                                                                                  | I86                                                                                  |                                                                                     |
| <b>T-Max Twin-Lock®</b>               | <b>Cabeza de corte SL</b>                                                           | <b>Cartucho</b>                                                                     | <b>Cartucho T-Max P</b>                                                              |                                                                                      |                                                                                     |
|                                       |  |  |  |                                                                                      |                                                                                     |
|                                       | T-Max Twin-Lock® R566.39KF                                                          | T-Max Twin-Lock® 466.39                                                             | T-Max Twin-Lock® R466.3KW                                                            |                                                                                      |                                                                                     |
| Tamaño de plaquita, mm, (pulgadas)    | 24 (.945)                                                                           | 24 (.945)                                                                           | 16 (3/8)                                                                             |                                                                                      |                                                                                     |
| Tamaño de acoplamiento, mm            | 40                                                                                  | –                                                                                   | –                                                                                    |                                                                                      |                                                                                     |
| Tamaño de cartuchos, mm (pulgadas)    | –                                                                                   | 18 (.709)                                                                           | 20 (.787)                                                                            |                                                                                      |                                                                                     |
| Página                                | C60                                                                                 | C61                                                                                 | C62                                                                                  |                                                                                      |                                                                                     |

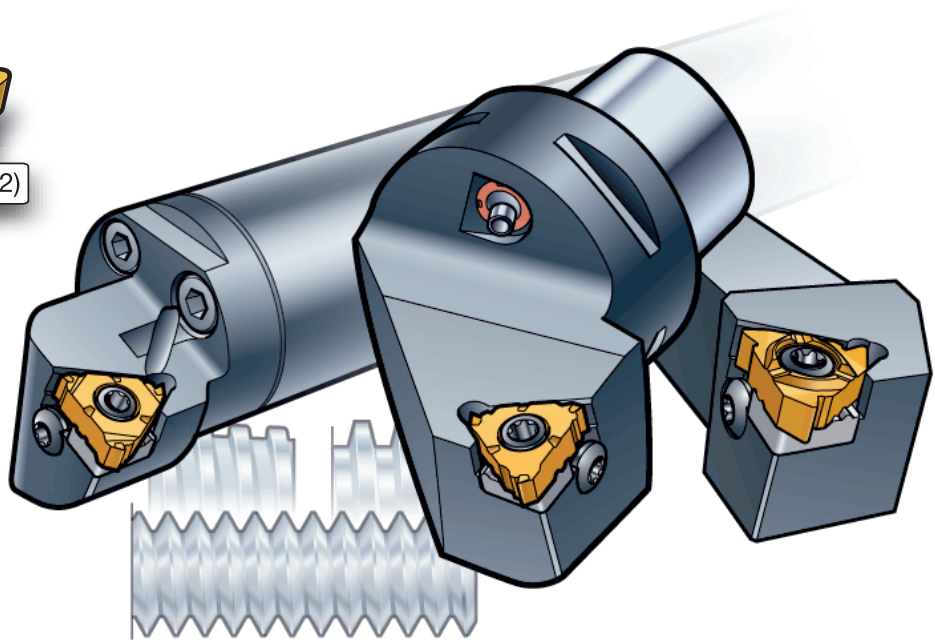
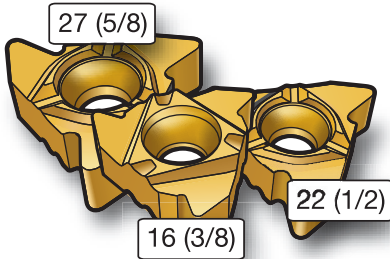
Para manguitos cilíndricos, véase la página A304.

# CoroThread™ 266

## Torneado de roscas extra rígido

Para todos los tipos de roscas  
Tamaños de plaquita: 16, 22 y 27 mm  
(3/8, 1/2 y 5/8 pulgadas)

### Tamaños de plaquita



- Perfil completo, para elevada productividad



- Perfil en V, para que el inventario de herramientas sea mínimo



- Multipunta, para roscado económico en producciones masivas

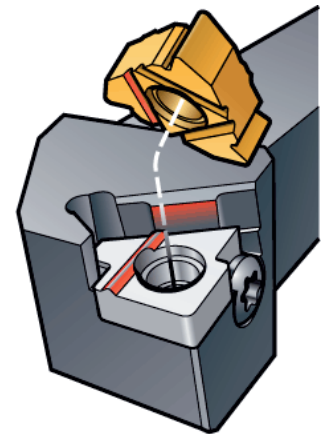
### Calidades para todos los materiales

Calidades básicas GC1125  
GC1135  
GC1020

Áreas de aplicación ISO:



Fácil sujeción de  
plaquitas nuevas sobre  
la guía.

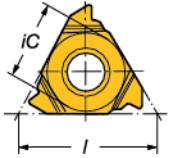


### Servicio Tailor Made único

Permite pedir plaquitas para casi cualquier forma o  
paso de rosca. Consulte la página J3

# Clave de códigos para plaquitas CoroThread® 266

|            |          |          |          |           |            |          |          |            |          |
|------------|----------|----------|----------|-----------|------------|----------|----------|------------|----------|
| <b>266</b> | <b>R</b> | <b>G</b> | <b>-</b> | <b>22</b> | <b>TR0</b> | <b>1</b> | <b>F</b> | <b>600</b> | <b>E</b> |
| 1          | 2        | 3        |          | 4         | 5          | 6        | 7        | 8          | 9 10     |

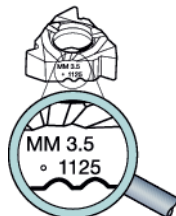
| 1 Código principal    | 2 Sentido de la herramienta           | 3 Tipo de mecanizado                                                       | 4 Tamaño/dimensión de la plaquita                                                                                                                                                                    |
|-----------------------|---------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 266 = CoroThread™ 266 | R = a derecha<br>L = Tipo a izquierda | G = plaquitas para roscado exterior<br>L = Plaquitas para roscado interior | 16 = $iC\ 3/8'' = 9,52\text{ mm}$<br>22 = $iC\ 1/2'' = 12,70\text{ mm}$<br>27 = $iC\ 5/8'' = 15,88\text{ mm}$<br> |

| 5 Perfil de rosca                                                                                                                                                                                                                                                                                                                                                              | 6 Número de puntos por filo                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| VM0 = Perfil V 60°<br>VW0 = Perfil en V 55°<br>MM0 = Métrica 60°<br>UN0 = UN 60°<br>WH0 = Whitworth 55°<br>NT0 = NPT 60°<br>RN0 = Redonda 30°<br>PT0 = BSPT 55°<br>TR0 = Trapezoidal 30°<br>AC0 = ACME 29°<br>SA0 = STUB-ACME 29°<br>NJ0 = UNJ 60°<br>MJ0 = MJ 60°<br>NF0 = NPTF 60°<br>BU0 = Buttress<br>RD0 = API Rd 60°<br>V38 = V-0.038R<br>V40 = V-0.040<br>V50 = V-0.050 | Varía de 1 a 3 dientes.<br><br>1 = 1 diente<br>2 = 2 dientes<br>3 = 3 dientes |

| 7 Estado del filo                                                                                   | 8 Paso                                                       | 9 Código suplementario                                                                               |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| A = Redondeado del filo (ER)<br>F = Filo de corte agudizado<br>C = Geometría de formación de viruta | mm: paso x 100<br>Pulgada: número de roscas por pulgada x 10 | Conicidad en diámetro/pulgada por pie (i.p.f.)<br>1 = 1 pulg.p.p<br>2 = 2 pulg.p.p<br>3 = 3 pulg.p.p |

| 10 Tolerancia de la posición del filo de corte                                            |
|-------------------------------------------------------------------------------------------|
| M = $\pm 0.05\text{ mm}$ (.002 inch) axial<br>E = $\pm 0.01\text{ mm}$ (.0004 inch) axial |

| 11 Plaquitas de nitruro de boro cúbico |
|----------------------------------------|
| E = Redondeado del filo (ER)           |



## 1) Marcas:

Todas las plaquitas están marcadas con perfil, calidad y paso: las plaquitas para interior se identifican con un círculo. Para impedir el borrado, la marca se realiza con láser en el lateral de las plaquitas.



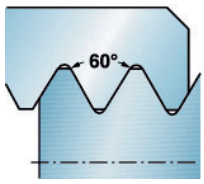
Plaquitas a derecha exteriores  
Plaquitas a izquierda interiores



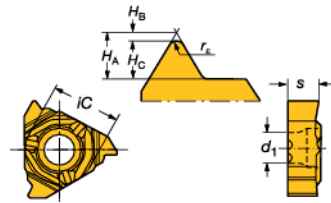
Plaquitas a izquierda exteriores  
Plaquitas a derecha interiores

# Perfil en V 60° Sin rectificación periférica

P M K N S H



$$H_C = H_A - H_B$$



Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

| $iC$ | Paso, TPI | Paso, mm | $iC$ mm | $d_1$ | s           |
|------|-----------|----------|---------|-------|-------------|
| 16   | 3/8       | 24-8     | 1.0-3.0 | 9.53  | 4.4 (.173)  |
| 22   | 1/2       | 7-4      | 3.5-6.0 | 12.7  | 5.55 (.217) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

## Exterior

Para áreas de aplicación ISO, ver final de la tabla.

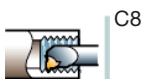
|  | iC  | Paso, mm | Paso, TPI | Código de pedido    | Dimensiones, mm, pulgadas |                       |                      |                       |                      |                         | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |      |
|-----------------------------------------------------------------------------------|-----|----------|-----------|---------------------|---------------------------|-----------------------|----------------------|-----------------------|----------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                   |     |          |           |                     | H <sub>A</sub><br>mm      | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | r <sub>e</sub><br>mm | r <sub>e</sub><br>pulg. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                   |     |          |           |                     |                           |                       |                      |                       |                      |                         | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 |
| 16                                                                                | 3/8 | 1-2.00   | 24-12     | 266R/LG-16VM01A001M | 1.68                      | .0661                 | 0.14                 | .0055                 | 0.13                 | .0051                   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |     |          |           | 266RG-16VM01C001M   |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |
|                                                                                   |     |          |           | 266RG-16VM01F001E   |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |
|                                                                                   |     | 1.5-3    | 16-8      | 266R/LG-16VM01A002M | 2.64                      | .1039                 | 0.20                 | .0079                 | 0.20                 | .0079                   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |
|                                                                                   |     |          |           | 266RG-16VM01C002M   |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
|                                                                                   |     |          |           | 266RG-16VM01F002E   |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 22                                                                                | 1/2 | 3.5-6    | 7-4       | 266R/LG-22VM01A001M | 4.92                      | .1937                 | 0.48                 | .0189                 | 0.48                 | .0189                   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |
|                                                                                   |     |          |           | 266RG-22VM01F001E   |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
|                                                                                   |     |          |           |                     |                           |                       |                      |                       |                      |                         | P20  | P20  | P25  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | N25  | S20  | S20  | S25  |      |      |

## Interior

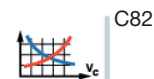
|  | <i>iC</i> | Paso, mm | Paso, TPI | Código de pedido    | Dimensiones, mm, pulgadas  |                             |                            |                             |                            |                               | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |      |      |      |  |  |
|-------------------------------------------------------------------------------------|-----------|----------|-----------|---------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
|                                                                                     |           |          |           |                     | <i>H<sub>A</sub></i><br>mm | <i>H<sub>A</sub></i><br>in. | <i>H<sub>B</sub></i><br>mm | <i>H<sub>B</sub></i><br>in. | <i>r<sub>e</sub></i><br>mm | <i>r<sub>e</sub></i><br>pulg. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |      |      |      |  |  |
|                                                                                     |           |          |           |                     |                            |                             |                            |                             |                            |                               | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |  |  |
| 16                                                                                  | 3/8       | 1-2.00   | 24-12     | 266R/LL-16VM01A001M | 1.45                       | .0571                       | 0.06                       | .0024                       | 0.06                       | .0024                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |      |  |  |
|                                                                                     |           |          |           | 266RL-16VM01C001M   |                            |                             |                            |                             |                            |                               |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    | ★    |      |      |      |      |      |  |  |
|                                                                                     |           |          |           | 266RL-16VM01F001E   |                            |                             |                            |                             |                            |                               |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    | ★    |      |      |      |      |  |  |
|                                                                                     |           | 1.5-3    | 16-8      | 266R/LL-16VM01A002M | 2.54                       | .1000                       | 0.09                       | .0035                       | 0.09                       | .0035                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |      |  |  |
|                                                                                     |           |          |           | 266RL-16VM01C002M   |                            |                             |                            |                             |                            |                               |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    | ★    |      |      |      |      |      |  |  |
|                                                                                     |           |          |           | 266RL-16VM01F002E   |                            |                             |                            |                             |                            |                               |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    | ★    |      |      |      |      |  |  |
| 22                                                                                  | 1/2       | 3.5-6    | 7-4       | 266R/LL-22VM01A001M | 4.35                       | .1713                       | 0.26                       | .0102                       | 0.26                       | .0102                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |      |  |  |
|                                                                                     |           |          |           | 266RL-22VM01F001E   |                            |                             |                            |                             |                            |                               | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |      |  |  |
|                                                                                     |           |          |           |                     |                            |                             |                            |                             |                            |                               | P20  | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | N25  | S20  | S20  | S25  |      |      |      |  |  |

266R = A derecha, 266L = A izquierda

★ = Primera elección



C8



C82



C86



C2



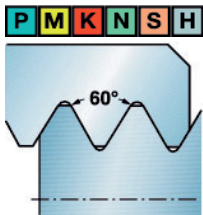
J3



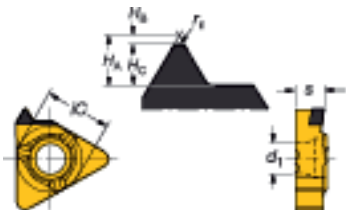
I8

Perfil en V 60° Sin rectificación periférica

Materiales de corte avanzados  
Para roscado de materiales templados



$H_C = H_A - H_B$



Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

|    | iC  | Paso, TPI | Paso, mm | iC mm | d <sub>1</sub> | s           |
|----|-----|-----------|----------|-------|----------------|-------------|
| 16 | 3/8 | 24-8      | 1.0-3.0  | 9.53  | 4.4 (.173)     | 3.97 (.156) |

Exterior

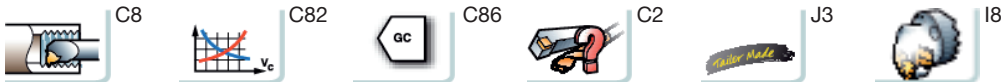
Para áreas de aplicación ISO, ver final de la tabla.

|    | iC  | Paso, mm | Paso, TPI | Código de pedido   | Dimensiones, milímetros, pulgadas (mm, pulg.) |                    |                   |                    |                   |                      | H    |
|----|-----|----------|-----------|--------------------|-----------------------------------------------|--------------------|-------------------|--------------------|-------------------|----------------------|------|
|    |     |          |           |                    | H <sub>A</sub> mm                             | H <sub>A</sub> in. | H <sub>B</sub> mm | H <sub>B</sub> in. | r <sub>e</sub> mm | r <sub>e</sub> pulg. | CB   |
| 16 | 3/8 | 1-2.00   | 24-12     | 266RG-16VM01A001EE | 1.68                                          | .0661              | 0.14              | .0055              | 0.13              | .0051                | 7015 |
|    |     | 1.5-3    | 16-8      | 266RG-16VM01A002EE | 2.64                                          | .1039              | 0.20              | .0079              | 0.20              | .0079                | ★    |
|    |     |          |           |                    |                                               |                    |                   |                    |                   |                      | H15  |

Interior

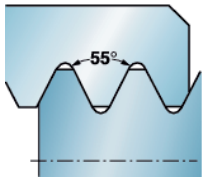
|    | iC  | Paso, mm | Paso, TPI | Código de pedido   | Dimensiones, milímetros, pulgadas (mm, pulg.) |                    |                   |                    |                   |                      | H    |
|----|-----|----------|-----------|--------------------|-----------------------------------------------|--------------------|-------------------|--------------------|-------------------|----------------------|------|
|    |     |          |           |                    | H <sub>A</sub> mm                             | H <sub>A</sub> in. | H <sub>B</sub> mm | H <sub>B</sub> in. | r <sub>e</sub> mm | r <sub>e</sub> pulg. | CB   |
| 16 | 3/8 | 1.5-3    | 16-8      | 266RL-16VM01A002EE | 2.54                                          | .1000              | 0.09              | .0035              | 0.09              | .0035                | 7015 |
|    |     |          |           |                    |                                               |                    |                   |                    |                   |                      | ★    |
|    |     |          |           |                    |                                               |                    |                   |                    |                   |                      | H15  |

266R = A derecha  
★= Primera elección

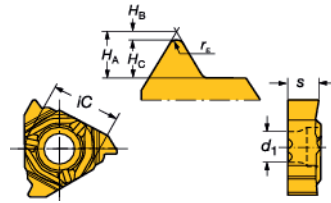


# Perfil en V 55° Sin rectificación periférica

P M K N S H



$$H_C = H_A - H_B$$



Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

|    | $iC$ | Paso, TPI | $iC$ mm | $d_1$      | s           |
|----|------|-----------|---------|------------|-------------|
| 16 | 3/8  | 28-8      | 9.53    | 4.4 (.173) | 3.97 (.156) |
| 22 | 1/2  | 7-4       | 12.7    | 5.5 (.217) | 5.56 (.219) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

## Exterior

Para áreas de aplicación ISO, ver final de la tabla.

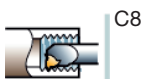
|  | iC  | Paso, TPI | Código de pedido  | Dimensiones, mm, pulgadas |                       |                      |                       |                      |                         | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |
|-----------------------------------------------------------------------------------|-----|-----------|-------------------|---------------------------|-----------------------|----------------------|-----------------------|----------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                   |     |           |                   | H <sub>A</sub><br>mm      | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | r <sub>c</sub><br>mm | r <sub>c</sub><br>pulg. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                   |     |           |                   |                           |                       |                      |                       |                      |                         | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 16                                                                                | 3/8 | 28-14     | 266RG-16VW01A001M | 1.68                      | .0661                 | 0.13                 | .0051                 | 0.11                 | .0043                   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                   |     |           | 266LG-16VW01A001M |                           |                       |                      |                       |                      |                         | ★    | ★    |      | ★    | ★    |      | ★    | ★    |      | ★    | ★    |      | ★    | ★    |      |
|                                                                                   |     |           | 266RG-16VW01C001M |                           |                       |                      |                       |                      |                         | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     |           | 266RG-16VW01F001E |                           |                       |                      |                       |                      |                         |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                   |     | 14-8      | 266RG-16VW01A002M | 2.79                      | .1098                 | 0.26                 | .0102                 | 0.23                 | .0091                   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                   |     |           | 266LG-16VW01A002M |                           |                       |                      |                       |                      |                         | ★    | ★    |      | ★    | ★    |      | ★    | ★    |      | ★    | ★    |      | ★    | ★    |      |
|                                                                                   |     |           | 266RG-16VW01C002M |                           |                       |                      |                       |                      |                         | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     |           | 266RG-16VW01F002E |                           |                       |                      |                       |                      |                         |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |
| 22                                                                                | 1/2 | 7-4       | 266RG-22VW01A001M | 5.23                      | .2059                 | 0.53                 | .0209                 | 0.48                 | .0189                   | ★    | ★    |      | ★    | ★    |      | ★    | ★    |      | ★    | ★    |      | ★    | ★    |      |
|                                                                                   |     |           | 266LG-22VW01A001M |                           |                       |                      |                       |                      |                         | ★    | ★    |      | ★    |      |      | ★    |      |      | ★    | ★    |      | ★    |      |      |
|                                                                                   |     |           | 266RG-22VW01F001E |                           |                       |                      |                       |                      |                         | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     |           |                   |                           |                       |                      |                       |                      |                         | P20  | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | N25  | S20  | S25  |      |

## Interior

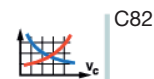
|  | iC  | Paso, TPI | Código de pedido  | Dimensiones, mm, pulgadas |                       |                      |                       |                      |                         | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |
|-------------------------------------------------------------------------------------|-----|-----------|-------------------|---------------------------|-----------------------|----------------------|-----------------------|----------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                     |     |           |                   | H <sub>A</sub><br>mm      | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | r <sub>e</sub><br>mm | r <sub>e</sub><br>pulg. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                     |     |           |                   |                           |                       |                      |                       |                      |                         | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 16                                                                                  | 3/8 | 28-14     | 266RL-16VW01A001M | 1.60                      | .0630                 | 0.12                 | .0047                 | 0.11                 | .0043                   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                     |     |           | 266LL-16VW01A001M |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                     |     |           | 266RL-16VW01C001M |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                     |     |           | 266RL-16VW01F001E |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                     |     | 14-8      | 266RL-16VW01A002M | 2.80                      | .1102                 | 0.25                 | .0098                 | 0.23                 | .0091                   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                     |     |           | 266LL-16VW01A002M |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                     |     |           | 266RL-16VW01C002M |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                     |     |           | 266RL-16VW01F002E |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
| 22                                                                                  | 1/2 | 7-4       | 266RL-22VW01A001M | 5.18                      | .2039                 | 0.53                 | .0209                 | 0.47                 | .0185                   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                     |     |           | 266LL-22VW01A001M |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                     |     |           | 266RL-22VW01F001E |                           |                       |                      |                       |                      |                         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                     |     |           |                   |                           |                       |                      |                       |                      |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                     |     |           |                   |                           |                       |                      |                       |                      |                         | P20  | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | N25  | S20  | S20  | S25  |

266R = A derecha, 266L = A izquierda

★ = Primera elección



C8



C82



C86



C2



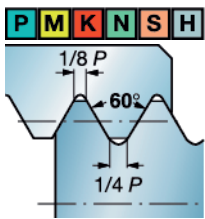
J3



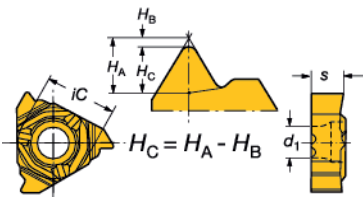
I8

Métrico 60° Perfil completo

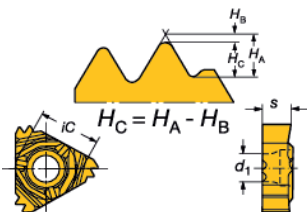
Roscas para uso general en todos los segmentos de la industria de fabricación.



Un diente



Multi-diente



ISO 965-1998 Tolerancia tipo 6

Tipo mostrado: A derecha, exterior A izquierda, interior

266RG- 2A250E

2 = Dos dientes  
3 = Tres dientes

Dimensiones, mm (pulg.)

|    | iC  | Paso, mm | iC mm | d <sub>1</sub> | s           |
|----|-----|----------|-------|----------------|-------------|
| 16 | 3/8 | 0.5-3.0  | 9.53  | 4.4 (.173)     | 3.97 (.156) |
| 22 | 1/2 | 2.5-6.0  | 12.7  | 5.5 (.217)     | 5.56 (.219) |



¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

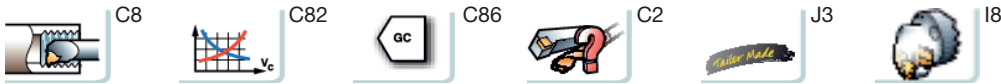
Exterior

Para áreas de aplicación ISO, ver final de la tabla.

|  | iC  | Paso, mm | Código de pedido  | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |
|----------------------------------------------------------------------------------|-----|----------|-------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                  |     |          |                   | H <sub>A</sub><br>mm                          | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |      |
|                                                                                  |     |          |                   |                                               |                       |                      |                       | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 16                                                                               | 3/8 | 0.50     | 266RG-16MM01A050M | 0.37                                          | .0146                 | 0.08                 | .0031                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266LG-16MM01A050M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     | 0.75     | 266RG-16MM01A075M | 0.56                                          | .0220                 | 0.11                 | .0043                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266LG-16MM01A075M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     | 0.80     | 266RG-16MM01F080E | 0.60                                          | .0236                 | 0.11                 | .0043                 |      |      | ★    |      |      |      | ★    |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     | 1.00     | 266RG-16MM03A100M | 0.75                                          | .0295                 | 0.15                 | .0059                 |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01A100M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266LG-16MM01A100M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01C100M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01F100E |                                               |                       |                      |                       |      |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 1.25     | 266RG-16MM01A125M | 0.93                                          | .0366                 | 0.19                 | .0075                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266LG-16MM01A125M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01C125M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01F125E |                                               |                       |                      |                       |      |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 1.50     | 266RG-16MM02A150M | 1.12                                          | .0441                 | 0.22                 | .0087                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266RG-16MM01A150M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266LG-16MM01A150M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01C150M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01F150E |                                               |                       |                      |                       |      |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 1.75     | 266RG-16MM01A175M | 1.31                                          | .0516                 | 0.25                 | .0098                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266LG-16MM01A175M |                                               |                       |                      |                       |      |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     |          | 266RG-16MM01C175M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01F175E |                                               |                       |                      |                       |      |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 2.00     | 266RG-16MM02A200M | 1.50                                          | .0591                 | 0.29                 | .0114                 |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01A200M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266LG-16MM01A200M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01C200M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01F200E |                                               |                       |                      |                       |      |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 2.50     | 266RG-16MM01A250M | 1.87                                          | .0736                 | 0.36                 | .0142                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266LG-16MM01A250M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01C250M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01F250E |                                               |                       |                      |                       |      |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 3.00     | 266RG-16MM01A300M | 2.25                                          | .0886                 | 0.42                 | .0165                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |     |          | 266LG-16MM01A300M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01C300M |                                               |                       |                      |                       |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |     |          | 266RG-16MM01F300E |                                               |                       |                      |                       |      |      | ★    |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     |          |                   |                                               |                       |                      |                       |      | P20  | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N20  | N25  | S20  | S20  | S25  |

266R = A derecha, 266L = A izquierda  
★ = Primera elección

Continuación ...



... continuación

Exterior

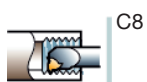
Para áreas de aplicación ISO, ver final de la tabla.

|  | iC  | Paso, mm | Código de pedido  | Dimensiones, milímetros, pulgadas (mm, pulg.) |              |             |              | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |
|-----------------------------------------------------------------------------------|-----|----------|-------------------|-----------------------------------------------|--------------|-------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                   |     |          |                   | $H_A$<br>mm                                   | $H_A$<br>in. | $H_B$<br>mm | $H_B$<br>in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                   |     |          |                   |                                               |              |             |              | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 22                                                                                | 1/2 | 2.50     | 266RG-22MM02A250E | 1.87                                          | .0736        | 0.36        | .0142        | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     | 3.00     | 266RG-22MM02A300E | 2.25                                          | .0886        | 0.42        | .0165        | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     | 3.50     | 266RG-22MM01A350M | 2.62                                          | .1031        | 0.49        | .0193        | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
|                                                                                   |     |          | 266LG-22MM01A350M |                                               |              |             |              | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     |          | 266RG-22MM01F350E |                                               |              |             |              | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     | 4.00     | 266RG-22MM01A400M | 3.00                                          | .1181        | 0.56        | .0220        | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
|                                                                                   |     |          | 266LG-22MM01A400M |                                               |              |             |              | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     |          | 266RG-22MM01F400E |                                               |              |             |              | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     | 4.50     | 266RG-22MM01A450M | 3.37                                          | .1327        | 0.63        | .0248        | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
|                                                                                   |     |          | 266LG-22MM01A450M |                                               |              |             |              | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     | 5.00     | 266RG-22MM01A500M | 3.76                                          | .1480        | 0.71        | .0280        | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
|                                                                                   |     |          | 266LG-22MM01A500M |                                               |              |             |              | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     | 5.50     | 266RG-22MM01A550M | 4.13                                          | .1626        | 0.79        | .0311        | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
|                                                                                   |     |          | 266LG-22MM01A550M |                                               |              |             |              | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     | 6.00     | 266RG-22MM01A600M | 4.51                                          | .1776        | 0.86        | .0339        | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
|                                                                                   |     |          | 266LG-22MM01A600M |                                               |              |             |              | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |     |          |                   |                                               |              |             |              | P20  | P25  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N25  | N25  | S20  | S20  | S25  |

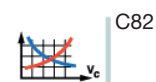
266R = A derecha, 266L = A izquierda

★ = Primera elección

Continuación ...



C8



C82



C86



C2



J3



I8

... continuación

Interior

Para áreas de aplicación ISO, ver final de la tabla.

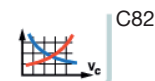
|  | iC                | Paso, mm | Código de pedido  | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |      |      |      |
|----------------------------------------------------------------------------------|-------------------|----------|-------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                  |                   |          |                   | H <sub>A</sub><br>mm                          | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |      |      |      |
|                                                                                  |                   |          |                   |                                               |                       |                      |                       | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 16                                                                               | 3/8               | 0.50     | 266RL-16MM01A050M | 0.32                                          | .0126                 | 0.03                 | .0012                 |      | ★    | ☆    |      |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266LL-16MM01A050M |                                               |                       |                      |                       | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |      |
|                                                                                  |                   | 0.75     | 266RL-16MM01A075M | 0.47                                          | .0185                 | 0.04                 | .0016                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266LL-16MM01A075M |                                               |                       |                      |                       | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |      |
|                                                                                  |                   | 1.00     | 266RL-16MM03A100M | 0.64                                          | .0252                 | 0.06                 | .0024                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266RL-16MM01A100M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266LL-16MM01A100M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266RL-16MM01C100M |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   | 1.25     | 266RL-16MM01F100E |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM01A125M | 0.79                                          | .0311                 | 0.07                 | .0028                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266LL-16MM01A125M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266RL-16MM01C125M |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   | 1.50     | 266RL-16MM01F125E |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM02A150M | 0.96                                          | .0378                 | 0.09                 | .0035                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266RL-16MM01A150M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266LL-16MM01A150M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   | 1.75     | 266RL-16MM01C150M |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM01F150E |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM01A175M | 1.11                                          | .0437                 | 0.11                 | .0043                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266LL-16MM01A175M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   | 2.00     | 266RL-16MM01C175M |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM01F175E |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM02A200M | 1.27                                          | .0500                 | 0.12                 | .0047                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266RL-16MM01A200M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   | 2.50     | 266LL-16MM01A200M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266RL-16MM01C200M |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM01F200E |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM01A250M | 1.59                                          | .0626                 | 0.16                 | .0063                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   | 3.00     | 266LL-16MM01A250M |                                               |                       |                      |                       |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   |          | 266RL-16MM01C250M |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM01F250E |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |      |
|                                                                                  |                   |          | 266RL-16MM01A300M | 1.92                                          | .0756                 | 0.19                 | .0075                 |      | ★    | ☆    |      |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      | ★    | ☆    |      |      |
|                                                                                  |                   | 22       | 1/2               | 2.50                                          | 266LL-16MM01A300M     |                      |                       |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |                   |          |                   |                                               | 266RL-16MM01C300M     |                      |                       |      |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |                   |          |                   | 3.00                                          | 266RL-16MM01F300E     |                      |                       |      |      |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |
| 266RL-22MM02A250E                                                                | 1.59              |          |                   |                                               | .0626                 | 0.16                 | .0063                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
| 3.50                                                                             | 266RL-22MM02A300E |          |                   | 1.98                                          | .0780                 | 0.19                 | .0075                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  | 266RL-22MM01A350M |          |                   | 2.24                                          | .0882                 | 0.26                 | .0102                 | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
| 4.00                                                                             | 266LL-22MM01A350M |          |                   |                                               |                       |                      |                       |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      |      |
|                                                                                  | 266RL-22MM01A400M |          |                   | 2.56                                          | .1008                 | 0.30                 | .0118                 | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
| 4.50                                                                             | 266LL-22MM01A400M |          |                   |                                               |                       |                      |                       |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      |      |
|                                                                                  | 266RL-22MM01A450M |          |                   | 2.89                                          | .1138                 | 0.33                 | .0130                 | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
| 5.00                                                                             | 266LL-22MM01A450M |          |                   |                                               |                       |                      |                       |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      |      |
|                                                                                  | 266RL-22MM01A500M |          |                   | 3.21                                          | .1264                 | 0.38                 | .0150                 | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
| 5.50                                                                             | 266LL-22MM01A500M |          |                   |                                               |                       |                      |                       |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      |      |
|                                                                                  | 266RL-22MM01A550M |          |                   | 3.54                                          | .1394                 | 0.40                 | .0157                 | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
| 6.00                                                                             | 266LL-22MM01A550M |          |                   |                                               |                       |                      |                       |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      |      |
|                                                                                  | 266RL-22MM01A600M |          |                   | 3.86                                          | .1520                 | 0.47                 | .0185                 | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      | ☆    | ★    |      |
|                                                                                  |                   |          |                   |                                               | 266LL-22MM01A600M     |                      |                       |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      | ☆    | ★    |      |      |
|                                                                                  |                   |          |                   |                                               |                       |                      |                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                                                                                  |                   |          |                   |                                               |                       |                      |                       |      |      |      | P20  | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | S20  | S20  | S25  |      |

266R = A derecha, 266L = A izquierda

★ = Primera elección



C8



C82



C86



C2



J3

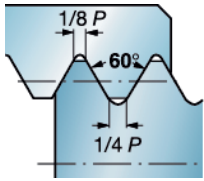


I8

# UN 60° Perfil completo

Roscas para uso general en todos los segmentos de la industria de fabricación.

**P M K N S H**



ISO 5864-1978

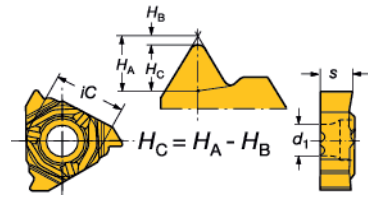
Tolerancia clase 2B, int.

Tolerancia clase 2A, ext.

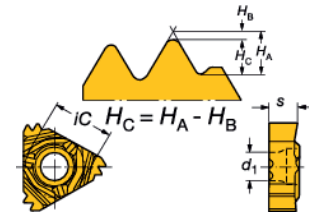
Dimensiones, mm (pulg.)

|  | $iC$ | Paso,<br>TPI | $iC$ mm | $d_1$      | s           |
|-----------------------------------------------------------------------------------|------|--------------|---------|------------|-------------|
| 16                                                                                | 3/8  | 32-8         | 9.53    | 4.4 (.173) | 3.97 (.156) |
| 22                                                                                | 1/2  | 7-4          | 12.7    | 5.5 (.217) | 5.56 (.219) |

Un diente



Multi-diente



Tipo mostrado: A derecha, exterior A izquierda, interior

**266RG-16UN0 3A180M**

2 = Dos dientes  
3 = Tres dientes

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

Exterior

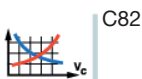
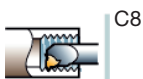
Para áreas de aplicación ISO, ver final de la tabla.

|  | iC                  | Paso, TPI         | Código de pedido  | Dimensiones, mm, pulgadas |                       |                      |                       | P    |      | M    |      | K    |      | N    |      | S    |      |      |
|-----------------------------------------------------------------------------------|---------------------|-------------------|-------------------|---------------------------|-----------------------|----------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                   |                     |                   |                   | H <sub>A</sub><br>mm      | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |      |
|                                                                                   |                     |                   |                   | 1020                      | 1125                  | 1135                 | 1020                  | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 16                                                                                | 3/8                 | 32                | 266RG-16UN01A320M | 0.59                      | .0232                 | 0.10                 | .0039                 | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                   |                     | 266LG-16UN01A320M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 28                | 266RG-16UN01A280M | 0.67                      | .0264                 | 0.12                 | .0047                 | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                   |                     | 266LG-16UN01A280M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 24                | 266RG-16UN01A240M | 0.79                      | .0311                 | 0.14                 | .0055                 | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                   |                     | 266LG-16UN01A240M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266RG-16UN01C240M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266RG-16UN01F240E |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 20                | 266RG-16UN01A200M | 0.95                      | .0374                 | 0.16                 | .0063                 | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                   |                     | 266LG-16UN01A200M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266RG-16UN01C200M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266RG-16UN01F200E |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 18                | 266RG-16UN03A180M | 1.05                      | .0413                 | 0.18                 | .0071                 | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                   |                     | 266RG-16UN01A180M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266LG-16UN01A180M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266RG-16UN01C180M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266RG-16UN01F180E |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 16                | 266RG-16UN02A160M | 1.19                      | .0469                 | 0.20                 | .0079                 | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                   |                     | 266RG-16UN01A160M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266LG-16UN01A160M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266RG-16UN01C160M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 266RG-16UN01F160E |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
|                                                                                   |                     | 14                | 266RG-16UN02A140M | 1.35                      | .0531                 | 0.23                 | .0091                 | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |
|                                                                                   |                     | 266RG-16UN01A140M |                   |                           |                       |                      | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |
| 266LG-16UN01A140M                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 266RG-16UN01C140M                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 266RG-16UN01F140E                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 13                                                                                | 266RG-16UN01A130M   | 1.46              | .0575             | 0.25                      | .0098                 | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |
| 266LG-16UN01A130M                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 12                                                                                | 266RG-16UN02A120M   | 1.58              | .0622             | 0.28                      | .0110                 | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |
| 266RG-16UN01A120M                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 266LG-16UN01A120M                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 266RG-16UN01C120M                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 266RG-16UN01F120E                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 11                                                                                | 266RG-16UN01A110M   | 1.72              | .0677             | 0.30                      | .0118                 | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |
| 266LG-16UN01A110M                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 10                                                                                | 266RG-16UN01A100M   | 1.90              | .0748             | 0.33                      | .0130                 | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |
| 266LG-16UN01A100M                                                                 |                     |                   |                   |                           | ★                     | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |      |
| 9                                                                                 | 266R/LG-16UN01A090M | 2.11              | .0831             | 0.37                      | .0146                 | ★                    | ★                     | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |      |
|                                                                                   |                     |                   |                   |                           |                       | P20                  | P20                   | P25  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | N25  | S20  | S25  |

266R = A derecha, 266L = A izquierda

★ = Primera elección

Continuación ...



... continuación

## Exterior

Para áreas de aplicación ISO, ver final de la tabla.

|  | <i>iC</i> | Paso, TPI | Código de pedido  | Dimensiones, milímetros, pulgadas (mm, pulg.) |       |       |       | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |
|----------------------------------------------------------------------------------|-----------|-----------|-------------------|-----------------------------------------------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                  |           |           |                   | $H_A$                                         | $H_A$ | $H_B$ | $H_B$ | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                  |           |           |                   | mm                                            | in.   | mm    | in.   | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 16                                                                               | 3/8       | 8         | 266RG-16UN01A080M | 2.38                                          | .0937 | 0.41  | .0161 |      | ★    | ☆    |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ☆    | ★    |
|                                                                                  |           |           | 266LG-16UN01A080M |                                               |       |       |       |      | ★    |      |      | ★    | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|                                                                                  |           |           | 266RG-16UN01C080M |                                               |       |       |       |      | ★    |      |      | ★    | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|                                                                                  |           |           | 266RG-16UN01F080E |                                               |       |       |       |      |      | ★    |      |      | ★    | ★    |      |      | ★    |      |      | ★    |      | ★    |
| 22                                                                               | 1/2       | 7         | 266RG-22UN01A070M | 2.70                                          | .1063 | 0.49  | .0193 | ★    |      |      | ★    |      | ★    |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |           | 6         | 266RG-22UN01A060M | 3.16                                          | .1244 | 0.57  | .0224 | ★    |      |      | ★    |      | ★    |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |           | 5         | 266RG-22UN01A050M | 3.81                                          | .1500 | 0.69  | .0272 | ★    |      |      | ★    |      | ★    |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |           | 4.5       | 266RG-22UN01A045M | 4.23                                          | .1665 | 0.77  | .0303 | ★    |      |      | ★    |      | ★    |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |           | 4         | 266RG-22UN01A040M | 4.76                                          | .1874 | 0.87  | .0343 | ★    |      |      | ★    |      | ★    |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |           |           |                   |                                               |       |       |       | P20  | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | S20  | S20  | S25  |      |

266R = A derecha, 266L = A izquierda

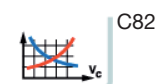
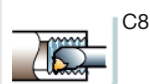
★ = Primera elección

## Interior

|  | iC  | Paso, TPI | Código de pedido    | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |      |
|----------------------------------------------------------------------------------|-----|-----------|---------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                  |     |           |                     | H <sub>A</sub><br>mm                          | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |      |
|                                                                                  |     |           |                     |                                               |                       |                      |                       | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 |
| 16                                                                               | 3/8 | 32        | 266RL-16UN01A320M   | 0.50                                          | .0197                 | 0.04                 | .0016                 |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |      |      |
|                                                                                  |     | 28        | 266RL-16UN01A280M   | 0.58                                          | .0228                 | 0.05                 | .0020                 |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |      |      |
|                                                                                  |     | 24        | 266RL-16UN01A240M   | 0.67                                          | .0264                 | 0.06                 | .0024                 |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |      |      |
|                                                                                  |     | 20        | 266RL-16UN01A200M   | 0.80                                          | .0315                 | 0.07                 | .0028                 |      | ★    | ☆    |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ☆    | ★    |      |
|                                                                                  |     |           | 266LL-16UN01A200M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     |           | 266RL-16UN01C200M   |                                               |                       |                      |                       |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     | 18        | 266RL-16UN01A180M   | 0.89                                          | .0350                 | 0.08                 | .0031                 |      | ★    | ☆    |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ☆    | ★    |      |
|                                                                                  |     |           | 266LL-16UN01A180M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     |           | 266RL-16UN01C180M   |                                               |                       |                      |                       |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     | 16        | 266RL-16UN01A160M   | 1.00                                          | .0394                 | 0.09                 | .0035                 |      | ★    | ☆    |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ☆    | ★    |      |
|                                                                                  |     |           | 266LL-16UN01A160M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     |           | 266RL-16UN02A160M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     |           | 266RL-16UN01C160M   |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |
|                                                                                  |     |           | 266RL-16UN01F160E   |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |
|                                                                                  |     | 14        | 266RL-16UN01A140M   | 1.13                                          | .0445                 | 0.11                 | .0043                 |      | ★    | ☆    |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ☆    | ★    |      |
|                                                                                  |     |           | 266LL-16UN01A140M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     |           | 266RL-16UN01C140M   |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |
|                                                                                  |     | 12        | 266RL-16UN01A120M   | 1.33                                          | .0524                 | 0.13                 | .0051                 |      | ★    | ☆    |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ☆    | ★    |      |
|                                                                                  |     |           | 266LL-16UN01A120M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     |           | 266RL-16UN02A120M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     |           | 266RL-16UN01C120M   |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |
|                                                                                  |     |           | 266RL-16UN01F120E   |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |
| 22                                                                               | 1/2 | 11        | 266RL-16UN01A110M   | 1.45                                          | .0571                 | 0.14                 | .0055                 |      | ★    | ☆    |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ☆    | ★    |      |
|                                                                                  |     |           | 266LL-16UN01A110M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     | 10        | 266RL-16UN01A100M   | 1.59                                          | .0626                 | 0.16                 | .0063                 |      | ★    | ☆    |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ☆    | ★    |      |
|                                                                                  |     |           | 266LL-16UN01A100M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     | 9         | 266R/LL-16UN01A090M | 1.77                                          | .0697                 | 0.18                 | .0071                 |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     | 8         | 266RL-16UN01A080M   | 2.00                                          | .0787                 | 0.20                 | .0079                 |      | ★    | ☆    |      | ☆    | ★    |      | ★    | ☆    |      | ★    | ☆    |      | ☆    | ★    |      |
|                                                                                  |     |           | 266LL-16UN01A080M   |                                               |                       |                      |                       |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |
|                                                                                  |     |           | 266RL-16UN01C080M   |                                               |                       |                      |                       |      |      | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |
|                                                                                  |     | 7         | 266RL-22UN01A070M   | 2.31                                          | .0909                 | 0.26                 | .0102                 | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |
|                                                                                  |     | 6         | 266RL-22UN01A060M   | 2.70                                          | .1063                 | 0.32                 | .0126                 | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |
|                                                                                  |     | 5         | 266RL-22UN01A050M   | 3.25                                          | .1280                 | 0.38                 | .0150                 | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |      |
|                                                                                  |     | 4.5       | 266RL-22UN01A045M   | 3.62                                          | .1425                 | 0.41                 | .0161                 | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |      |
|                                                                                  |     | 4         | 266RL-22UN01A040M   | 4.08                                          | .1606                 | 0.49                 | .0193                 | ★    |      |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      | ★    |      |      |
|                                                                                  |     |           |                     |                                               |                       |                      | P20                   | P20  | P25  | M20  | M20  | M25  | K15  | K20  | N25  | N20  | N25  | S20  | S20  | S25  |      |      |      |

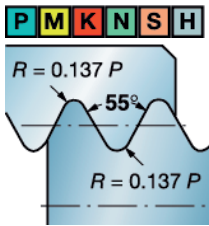
266R = A derecha, 266L = A izquierda

★ = Primera elección



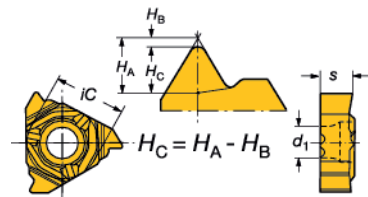
# Whitworth 55° (BSW, BSF, BSP) Perfil completo

Roscas para ajuste y acoplamiento de tuberías en conductos de gas, agua y alcantarillado.



ISO 228-1982  
BS 2779-1973  
BS 84-1956  
Tolerancia clase A

Un diente



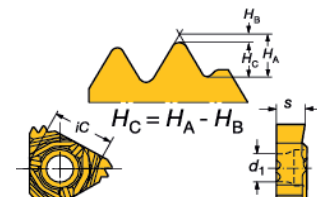
Roscas de tubería 55°

Exterior: rosca G

Interior: rosca G/Rp

Tipo mostrado: A derecha, exterior A izquierda, interior

Multi-diente



266RG-22WH0 2A110E

2 = Dos dientes  
3 = Tres dientes

Dimensiones, mm (pulg.)

|  | $iC$ | Paso,<br>TPI | $iC$ mm | $d_1$      | s           |
|-----------------------------------------------------------------------------------|------|--------------|---------|------------|-------------|
| 16                                                                                | 3/8  | 28-8         | 9.53    | 4.4 (.173) | 3.97 (.156) |
| 22                                                                                | 1/2  | 11-4         | 12.7    | 5.5 (.217) | 5.56 (.219) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

## Exterior

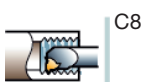
Para áreas de aplicación ISO, ver final de la tabla.

|  | iC  | Paso, TPI | Código de pedido  | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |
|-----------------------------------------------------------------------------------|-----|-----------|-------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                   |     |           |                   | H <sub>A</sub><br>mm                          | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                   |     |           |                   |                                               |                       |                      |                       | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 16                                                                                | 3/8 | 28        | 266RG-16WH01A280M | 0.72                                          | .0283                 | 0.13                 | .0051                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 26        | 266RG-16WH01A260M | 0.77                                          | .0303                 | 0.14                 | .0055                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 20        | 266RG-16WH01A200M | 1.01                                          | .0398                 | 0.18                 | .0071                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 19        | 266RG-16WH01A190M | 1.06                                          | .0417                 | 0.19                 | .0075                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266LG-16WH01A190M |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266RG-16WH03A190M |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266RG-16WH01C190M |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266RG-16WH01F190E |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 18        | 266RG-16WH01A180M | 1.12                                          | .0441                 | 0.20                 | .0079                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 16        | 266RG-16WH01A160M | 1.26                                          | .0496                 | 0.23                 | .0091                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 14        | 266RG-16WH01A140M | 1.44                                          | .0567                 | 0.26                 | .0102                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266LG-16WH01A140M |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266RG-16WH02A140M |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266RG-16WH01C140M |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266RG-16WH01F140E |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 12        | 266RG-16WH01A120M | 1.68                                          | .0661                 | 0.31                 | .0122                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 11        | 266RG-16WH01A110M | 1.83                                          | .0720                 | 0.34                 | .0134                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266LG-16WH01A110M |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266RG-16WH01C110M |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           | 266RG-16WH01F110E |                                               |                       |                      |                       | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 10        | 266RG-16WH01A100M | 2.02                                          | .0795                 | 0.37                 | .0146                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 9         | 266RG-16WH01A090M | 2.24                                          | .0882                 | 0.42                 | .0165                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 8         | 266RG-16WH01A080M | 2.52                                          | .0992                 | 0.47                 | .0185                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
| 22                                                                                | 1/2 | 11        | 266RG-22WH02A110E | 1.83                                          | .0720                 | 0.34                 | .0134                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 7         | 266RG-22WH01A070M | 2.88                                          | .1134                 | 0.54                 | .0213                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 6         | 266RG-22WH01A060M | 3.37                                          | .1327                 | 0.64                 | .0252                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 5         | 266RG-22WH01A050M | 4.04                                          | .1591                 | 0.77                 | .0303                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 4.5       | 266RG-22WH01A045M | 4.49                                          | .1768                 | 0.85                 | .0335                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     | 4         | 266RG-22WH01A040M | 5.06                                          | .1992                 | 0.96                 | .0378                 | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                   |     |           |                   |                                               |                       |                      |                       | P20  | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | N25  | S20  | S25  |      |

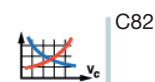
266R = A derecha, 266L = A izquierda

★ = Primera elección

Continuación ...



C8



C82



C86



C2



J3



I8

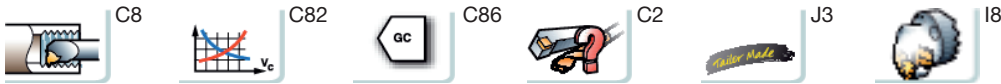
... continuación

Interior

Para áreas de aplicación ISO, ver final de la tabla.

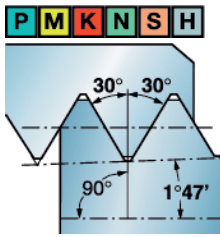
|  | iC  | Paso, TPI | Código de pedido  | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |
|----------------------------------------------------------------------------------|-----|-----------|-------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                  |     |           |                   | H <sub>A</sub><br>mm                          | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                  |     |           |                   |                                               |                       |                      |                       | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 16                                                                               | 3/8 | 26        | 266RL-16WH01A260M | 0.78                                          | .0307                 | 0.13                 | .0051                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 20        | 266RL-16WH01A200M | 0.99                                          | .0390                 | 0.17                 | .0067                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 19        | 266RL-16WH01A190M | 1.05                                          | .0413                 | 0.18                 | .0071                 | ★    | ☆    |      | ★    | ☆    | ★    | ★    | ☆    |      | ★    | ☆    | ★    | ☆    | ★    | ★    |
|                                                                                  |     | 18        | 266RL-16WH01A180M | 1.11                                          | .0437                 | 0.19                 | .0075                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 16        | 266RL-16WH01A160M | 1.25                                          | .0492                 | 0.22                 | .0087                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 14        | 266RL-16WH01A140M | 1.43                                          | .0563                 | 0.25                 | .0098                 | ★    | ☆    |      | ★    | ☆    | ★    | ★    | ☆    |      | ★    | ☆    | ★    | ☆    | ★    | ★    |
|                                                                                  |     |           | 266LL-16WH01A140M |                                               |                       |                      |                       | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     |           | 266RL-16WH02A140M |                                               |                       |                      |                       | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     |           | 266RL-16WH01C140M |                                               |                       |                      |                       |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |     |           | 266RL-16WH01F140E |                                               |                       |                      |                       |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |     | 12        | 266RL-16WH01A120M | 1.67                                          | .0657                 | 0.30                 | .0118                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 11        | 266RL-16WH01A110M | 1.83                                          | .0720                 | 0.33                 | .0130                 | ★    | ☆    |      | ★    | ☆    | ★    | ★    | ☆    |      | ★    | ☆    | ★    | ☆    | ★    | ★    |
|                                                                                  |     |           | 266LL-16WH01A110M |                                               |                       |                      |                       | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     |           | 266RL-16WH01C110M |                                               |                       |                      |                       |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |     |           | 266RL-16WH01F110E |                                               |                       |                      |                       |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |
|                                                                                  |     | 10        | 266RL-16WH01A100M | 2.02                                          | .0795                 | 0.37                 | .0146                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 9         | 266RL-16WH01A090M | 2.24                                          | .0882                 | 0.41                 | .0161                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 8         | 266RL-16WH01A080M | 2.53                                          | .0996                 | 0.47                 | .0185                 | ★    | ☆    |      | ★    | ☆    | ★    | ★    | ☆    |      | ★    | ☆    | ★    | ☆    | ★    | ★    |
|                                                                                  | 22  | 11        | 266RL-22WH02A110E | 1.83                                          | .0720                 | 0.33                 | .0130                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 7         | 266RL-22WH01A070M | 2.88                                          | .1134                 | 0.53                 | .0209                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 6         | 266RL-22WH01A060M | 3.36                                          | .1323                 | 0.62                 | .0244                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 5         | 266RL-22WH01A050M | 4.03                                          | .1587                 | 0.76                 | .0299                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 4.5       | 266RL-22WH01A045M | 4.48                                          | .1764                 | 0.85                 | .0335                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     | 4         | 266RL-22WH01A040M | 5.04                                          | .1984                 | 0.96                 | .0378                 | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                  |     |           |                   |                                               |                       |                      |                       | P20  | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | N25  | S20  | S20  | S25  |

266R = A derecha, 266L = A izquierda  
★= Primera elección



# NPT 60° NPSC, NPTR, TUBERÍA DE CONDUCCIÓN<sup>1)</sup> Perfil completo

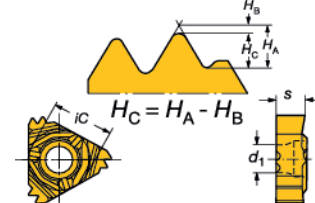
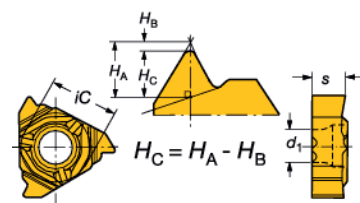
Roscas para ajuste y acoplamiento de tuberías en conductos de gas, agua y alcantarillado.



ANSI B.1.20.1-1983

Un diente

Multi-diente



Tipo mostrado: A derecha, exterior A izquierda, interior

266RG-22NT0 2A115E

2 = Dos dientes

Dimensiones, mm (pulg.)

|    | iC  | Paso, TPI | iC mm | d <sub>1</sub> | s           |
|----|-----|-----------|-------|----------------|-------------|
| 16 | 3/8 | 27-8      | 9.53  | 4.4 (.173)     | 3.97 (.156) |
| 22 | 1/2 | 11-4      | 12.7  | 5.5 (.217)     | 5.56 (.219) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

Exterior

Para áreas de aplicación ISO, ver final de la tabla.

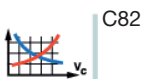
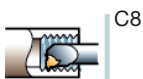
|    | iC  | Paso, TPI | Código de pedido  | Dimensiones, milímetros, pulgadas (mm, pulg.) |                    |                   |                    | P M K N S |      |      |      |      |      |      |      |      |      |      |      |
|----|-----|-----------|-------------------|-----------------------------------------------|--------------------|-------------------|--------------------|-----------|------|------|------|------|------|------|------|------|------|------|------|
|    |     |           |                   | H <sub>A</sub> mm                             | H <sub>A</sub> in. | H <sub>B</sub> mm | H <sub>B</sub> in. | P         |      | M    |      | K    |      | N    |      | S    |      |      |      |
|    |     |           |                   |                                               |                    |                   |                    | GC        | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
| 16 | 3/8 | 27        | 266RG-16NT01A270M | 0.76                                          | .0299              | 0.05              | .0020              | 1020      | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
|    |     |           | 266LG-16NT01A270M |                                               |                    |                   |                    | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266RG-16NT01A180M | 1.14                                          | .0449              | 0.08              | .0031              | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266LG-16NT01A180M |                                               |                    |                   |                    | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266RG-16NT01A140M | 1.46                                          | .0575              | 0.09              | .0035              | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266LG-16NT01A140M |                                               |                    |                   |                    | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     | 11.5      | 266RG-16NT01C140M |                                               |                    |                   |                    | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266RG-16NT01F140E |                                               |                    |                   |                    | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266RG-16NT01A115M | 1.79                                          | .0705              | 0.11              | .0043              | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266LG-16NT01A115M |                                               |                    |                   |                    | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266RG-16NT01C115M |                                               |                    |                   |                    | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266RG-16NT01F115E |                                               |                    |                   |                    | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
| 22 | 1/2 | 11.5      | 266RG-16NT01A080M | 2.57                                          | .1012              | 0.14              | .0055              | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266LG-16NT01A080M |                                               |                    |                   |                    | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           | 266RG-22NT02A115E | 1.79                                          | .0705              | 0.11              | .0043              | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|    |     |           |                   |                                               |                    |                   |                    | P20       | P25  | M20  | M25  | K15  | K20  | N25  | N20  | S20  | S25  |      |      |

Interior

|    | iC  | Paso, TPI | Código de pedido  | Dimensiones, milímetros, pulgadas (mm, pulg.) |                    |                   |                    | P M K N S |     |     |     |     |     |     |     |     |     |    |    |
|----|-----|-----------|-------------------|-----------------------------------------------|--------------------|-------------------|--------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
|    |     |           |                   | H <sub>A</sub> mm                             | H <sub>A</sub> in. | H <sub>B</sub> mm | H <sub>B</sub> in. | P         |     | M   |     | K   |     | N   |     | S   |     |    |    |
|    |     |           |                   |                                               |                    |                   |                    | GC        | GC  | GC  | GC  | GC  | GC  | GC  | GC  | GC  | GC  | GC | GC |
| 16 | 3/8 | 14        | 266RL-16NT01A140M | 1.46                                          | .0575              | 0.09              | .0035              | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     |           | 266LL-16NT01A140M |                                               |                    |                   |                    | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     |           | 266RL-16NT01C140M |                                               |                    |                   |                    | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     |           | 266RL-16NT01F140E |                                               |                    |                   |                    | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     | 11.5      | 266RL-16NT01A115M | 1.79                                          | .0705              | 0.11              | .0043              | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     |           | 266LL-16NT01A115M |                                               |                    |                   |                    | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     |           | 266RL-16NT01C115M |                                               |                    |                   |                    | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     |           | 266RL-16NT01F115E |                                               |                    |                   |                    | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     | 8         | 266RL-16NT01A080M | 2.57                                          | .1012              | 0.14              | .0055              | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     |           | 266LL-16NT01A080M |                                               |                    |                   |                    | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
| 22 | 1/2 | 11.5      | 266RL-22NT02A115E | 1.79                                          | .0705              | 0.11              | .0043              | ★         | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★   | ★  | ★  |
|    |     |           |                   |                                               |                    |                   |                    | P20       | P25 | M20 | M25 | K15 | K20 | N25 | N20 | S20 | S25 |    |    |

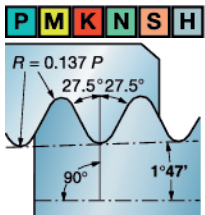
<sup>1)</sup> La plaquita puede proporcionar una obstrucción ligeramente mayor para TUBERÍAS DE CONDUCCIÓN de 14 h.p.p.

266R = A derecha, 266L = A izquierda  
★ = Primera elección

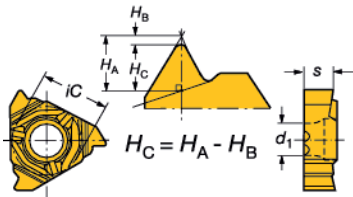


BSPT 55° Perfil completo

Roscas de tubo para vapor, gas y conductos de agua



ISO 7/1  
BS21:1985



**Roscas de tubería**  
Exterior: rosca R  
Interior: rosca Rc  
Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

|    | iC  | Paso, TPI | iC mm | d <sub>1</sub> | s           |
|----|-----|-----------|-------|----------------|-------------|
| 16 | 3/8 | 28-8      | 9.53  | 4.4 (.173)     | 3.97 (.156) |



¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

Exterior

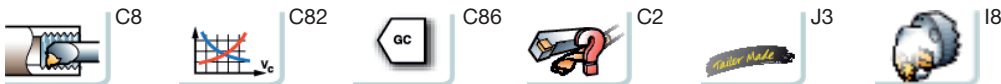
Para áreas de aplicación ISO, ver final de la tabla.

|    | iC  | Paso, TPI | Código de pedido  | Dimensiones, mm, pulgadas |                    |                   |                    | P M K N S |      |      |      |      |      |      |      |      |      |
|----|-----|-----------|-------------------|---------------------------|--------------------|-------------------|--------------------|-----------|------|------|------|------|------|------|------|------|------|
|    |     |           |                   | H <sub>A</sub> mm         | H <sub>A</sub> in. | H <sub>B</sub> mm | H <sub>B</sub> in. | GC        |      | GC   |      | GC   |      | GC   |      | GC   |      |
|    |     |           |                   |                           |                    |                   |                    | 1125      | 1135 | 1125 | 1135 | 1125 | 1135 | 1125 | 1135 | 1125 | 1135 |
| 16 | 3/8 | 28        | 266RG-16PT01A280E | 0.70                      | .0276              | 0.13              | .0051              | ★         | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |
|    |     | 19        | 266RG-16PT01A190E | 1.04                      | .0409              | 0.19              | .0075              | ★         | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |
|    |     |           | 266LG-16PT01A190E |                           |                    |                   |                    | ★         |      | ★    |      | ★    |      | ★    |      | ★    |      |
|    |     | 14        | 266RG-16PT01A140E | 1.41                      | .0555              | 0.26              | .0102              | ★         | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |
|    |     |           | 266LG-16PT01A140E |                           |                    |                   |                    | ★         |      | ★    |      | ★    |      | ★    |      | ★    |      |
|    |     | 11        | 266RG-16PT01A110E | 1.80                      | .0709              | 0.34              | .0134              | ★         | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |
|    |     |           | 266LG-16PT01A110E |                           |                    |                   |                    | ★         |      | ★    |      | ★    |      | ★    |      | ★    |      |
|    |     | 8         | 266RG-16PT01A080E | 2.47                      | .0972              | 0.47              | .0185              | ★         |      | ★    |      | ★    |      | ★    |      | ★    |      |
|    |     |           |                   |                           |                    |                   |                    | P20       | P25  | M20  | M25  | K15  | K20  | N20  | N25  | S20  | S25  |

Interior

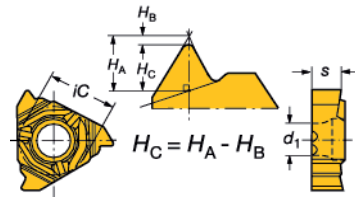
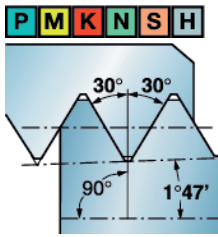
|    | iC | Paso, TPI | Código de pedido    | Dimensiones, mm, pulgadas |                    |                   |                    | P M K N S |      |      |      |      |      |      |      |      |      |
|----|----|-----------|---------------------|---------------------------|--------------------|-------------------|--------------------|-----------|------|------|------|------|------|------|------|------|------|
|    |    |           |                     | H <sub>A</sub> mm         | H <sub>A</sub> in. | H <sub>B</sub> mm | H <sub>B</sub> in. | GC        |      | GC   |      | GC   |      | GC   |      | GC   |      |
|    |    |           |                     |                           |                    |                   |                    | 1125      | 1135 | 1125 | 1135 | 1125 | 1135 | 1125 | 1135 | 1125 | 1135 |
| 16 | 28 | 28        | 266RL-16PT01A280E   | 0.71                      | .0280              | 0.12              | .0047              | ★         |      | ★    |      | ★    |      | ★    |      | ★    |      |
|    |    | 19        | 266R/LL-16PT01A190E | 1.03                      | .0406              | 0.18              | .0071              | ★         |      | ★    |      | ★    |      | ★    |      | ★    |      |
|    |    | 14        | 266RL-16PT01A140E   | 1.40                      | .0551              | 0.25              | .0098              | ★         | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |
|    |    |           | 266LL-16PT01A140E   |                           |                    |                   |                    | ★         |      | ★    |      | ★    |      | ★    |      | ★    |      |
|    |    | 11        | 266RL-16PT01A110E   | 1.80                      | .0709              | 0.33              | .0130              | ★         | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |
|    |    |           | 266LL-16PT01A110E   |                           |                    |                   |                    | ★         |      | ★    |      | ★    |      | ★    |      | ★    |      |
|    |    | 8         | 266RL-16PT01A080E   | 2.48                      | .0976              | 0.47              | .0185              | ★         |      | ★    |      | ★    |      | ★    |      | ★    |      |
|    |    |           |                     |                           |                    |                   |                    | P20       | P25  | M20  | M25  | K15  | K20  | N20  | N25  | S20  | S25  |

266R = A derecha, 266L = A izquierda  
★ = Primera elección



# NPTF 60° Perfil completo

Roscas de tuberías para líneas de vapor, gas y agua.



ANSI B1.20.3-1976  
Clase de tolerancia 2

Tipo mostrado: A derecha, exterior A izquierda, interior  
A izquierda interior

Dimensiones, mm (pulg.)

|    | $iC$ | Paso, TPI | $iC$ mm | $d_1$      | s           |
|----|------|-----------|---------|------------|-------------|
| 16 | 3/8  | 27-8      | 9.53    | 4.4 (.173) | 3.97 (.156) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

## Exterior

Para áreas de aplicación ISO, ver final de la tabla.

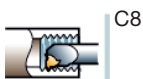
|    | $iC$ | Paso, TPI | Código de pedido  | Dimensiones, mm, pulgadas |           |          |           | P M K N S |      |      |      |      |
|----|------|-----------|-------------------|---------------------------|-----------|----------|-----------|-----------|------|------|------|------|
|    |      |           |                   | $H_A$ mm                  | $H_A$ in. | $H_B$ mm | $H_B$ in. | GC        | GC   | GC   | GC   | GC   |
|    |      |           |                   |                           |           |          |           | 1125      | 1125 | 1125 | 1125 | 1125 |
| 16 | 3/8  | 27        | 266RG-16NF01A270E | 0.75                      | .0295     | 0.11     | .0043     | ★         | ★    | ★    | ★    | ★    |
|    |      | 18        | 266RG-16NF01A180E | 1.14                      | .0449     | 0.13     | .0051     | ★         | ★    | ★    | ★    | ★    |
|    |      | 14        | 266RG-16NF01A140E | 1.49                      | .0587     | 0.13     | .0051     | ★         | ★    | ★    | ★    | ★    |
|    |      | 11.5      | 266RG-16NF01A115E | 1.81                      | .0713     | 0.17     | .0067     | ★         | ★    | ★    | ★    | ★    |
|    |      | 8         | 266RG-16NF01A080E | 2.60                      | .1024     | 0.21     | .0083     | ★         | ★    | ★    | ★    | ★    |
|    |      |           |                   |                           |           |          |           | P20       | M20  | K15  | N20  | S20  |

## Interior

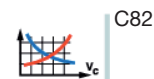
|    | $iC$ | Paso, TPI | Código de pedido  | Dimensiones, mm, pulgadas |           |          |           | P M K N S |      |      |      |      |
|----|------|-----------|-------------------|---------------------------|-----------|----------|-----------|-----------|------|------|------|------|
|    |      |           |                   | $H_A$ mm                  | $H_A$ in. | $H_B$ mm | $H_B$ in. | GC        | GC   | GC   | GC   | GC   |
|    |      |           |                   |                           |           |          |           | 1125      | 1125 | 1125 | 1125 | 1125 |
| 16 | 3/8  | 14        | 266RL-16NF01A140E | 1.49                      | .0587     | 0.13     | .0051     | ★         | ★    | ★    | ★    | ★    |
|    |      | 11.5      | 266RL-16NF01A115E | 1.81                      | .0713     | 0.17     | .0067     | ★         | ★    | ★    | ★    | ★    |
|    |      | 8         | 266RL-16NF01A080E | 2.60                      | .1024     | 0.21     | .0083     | ★         | ★    | ★    | ★    | ★    |
|    |      |           |                   |                           |           |          |           | P20       | M20  | K15  | N20  | S20  |

266R = A derecha, 266L = A izquierda

★ = Primera elección



C8



C82



C86



C2



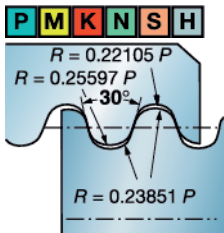
J3



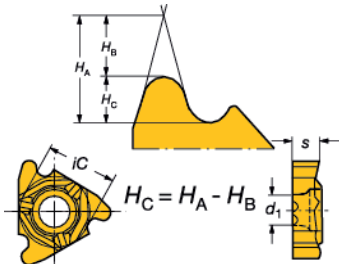
I8

Redonda 30° Perfil completo

Roscas para acoplamientos de tuberías en las industrias de productos alimenticios y de protección contra incendios.



DIN 405.  
Tolerancia clase 7 en el diám. efectivo.  
Tolerancia clase 6 en el diámetro mayor (exterior) y menor (interior).



Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

|    | iC  | Paso, TPI | iC mm | $\alpha_1$ | s           |
|----|-----|-----------|-------|------------|-------------|
| 16 | 3/8 | 10-8      | 9.53  | 4.4 (.173) | 3.97 (.156) |
| 22 | 1/2 | 4         | 12.7  | 5.5 (.217) | 5.56 (.219) |



¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

Exterior

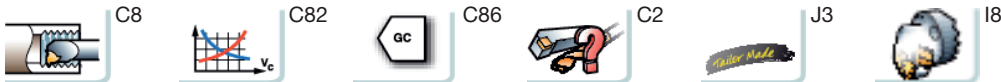
Para áreas de aplicación ISO, ver final de la tabla.

|    | iC  | Paso, TPI | Código de pedido    | Dimensiones, milímetros, pulgadas (mm, pulg.) |        |       |        | P    |      | M    |      | K    |      | N    |      | S    |      |
|----|-----|-----------|---------------------|-----------------------------------------------|--------|-------|--------|------|------|------|------|------|------|------|------|------|------|
|    |     |           |                     | HA mm                                         | HA in. | HB mm | HB in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|    |     |           |                     |                                               |        |       |        | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 |
| 16 | 3/8 | 10        | 266R/LG-16RN01A100M | 2.97                                          | .1169  | 1.72  | .0677  | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|    |     |           | 266RG-16RN01F100E   |                                               |        |       |        |      | ★    |      |      | ★    |      |      | ★    |      | ★    |
|    |     | 8         | 266R/LG-16RN01A080M | 3.72                                          | .1465  | 2.14  | .0843  | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|    |     |           | 266RG-16RN01F080E   |                                               |        |       |        |      | ★    |      |      | ★    |      |      | ★    |      | ★    |
| 22 | 1/2 | 6         | 266R/LG-16RN01A060M | 4.98                                          | .1961  | 2.86  | .1126  | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|    |     |           | 266RG-16RN01F060E   |                                               |        |       |        |      | ★    |      |      | ★    |      |      | ★    |      | ★    |
|    |     | 4         | 266R/LG-22RN01A040M | 7.45                                          | .2933  | 4.30  | .1693  | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|    |     |           | 266RG-22RN01F040E   |                                               |        |       |        | ★    |      |      |      | ★    |      |      | ★    |      | ★    |
|    |     |           |                     |                                               |        |       |        | P20  | P25  | M20  | M25  | K15  | K20  | N25  | N20  | S20  | S25  |

Interior

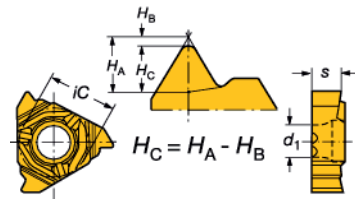
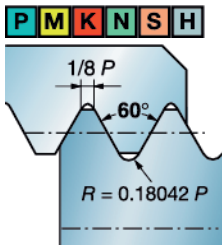
|    | iC  | Paso, TPI | Código de pedido    | Dimensiones, milímetros, pulgadas (mm, pulg.) |        |       |        | P    |      | M    |      | K    |      | N    |      | S    |      |
|----|-----|-----------|---------------------|-----------------------------------------------|--------|-------|--------|------|------|------|------|------|------|------|------|------|------|
|    |     |           |                     | HA mm                                         | HA in. | HB mm | HB in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|    |     |           |                     |                                               |        |       |        | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 |
| 16 | 3/8 | 10        | 266R/LL-16RN01A100M | 2.87                                          | .1130  | 1.58  | .0622  | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|    |     |           | 266RL-16RN01F100E   |                                               |        |       |        |      | ★    |      |      | ★    |      |      | ★    |      | ★    |
|    |     | 8         | 266R/LL-16RN01A080M | 3.59                                          | .1413  | 2.00  | .0787  | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|    |     |           | 266RL-16RN01F080E   |                                               |        |       |        |      | ★    |      |      | ★    |      |      | ★    |      | ★    |
| 22 | 1/2 | 6         | 266R/LL-16RN01A060M | 4.79                                          | .1886  | 2.66  | .1047  | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|    |     |           | 266RL-16RN01F060E   |                                               |        |       |        |      | ★    |      |      | ★    |      |      | ★    |      | ★    |
|    |     | 4         | 266R/LL-22RN01A040M | 7.17                                          | .2823  | 3.98  | .1567  | ★    |      |      | ★    |      |      | ★    |      | ★    |      |
|    |     |           | 266RL-22RN01F040E   |                                               |        |       |        | ★    |      |      |      | ★    |      |      | ★    |      | ★    |
|    |     |           |                     |                                               |        |       |        | P20  | P25  | M20  | M25  | K15  | K20  | N25  | N20  | S20  | S25  |

266R = A derecha, 266L = A izquierda  
★= Primera elección



# MJ 60° Perfil completo

Roscas aeroespaciales



ISO 5855-1983

Clase de tolerancia 4 en diámetro de paso.  
Tolerancia tipo 6 en diám. mayor (exterior) y menor (interior).

Dimensiones, mm (pulg.)

|    | $iC$ | Paso, mm | $iC$ mm | $d_1$      | $s$         |
|----|------|----------|---------|------------|-------------|
| 16 | 3/8  | 1.5-2.0  | 9.53    | 4.4 (.173) | 3.97 (.156) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

## Exterior

Para áreas de aplicación ISO, ver final de la tabla.

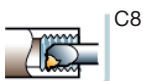
| $\triangle$ | $iC$ | Paso, mm | Código de pedido    | Dimensiones, mm, pulgadas |           |          |           | P M K N S |      |      |      |      |
|-------------|------|----------|---------------------|---------------------------|-----------|----------|-----------|-----------|------|------|------|------|
|             |      |          |                     | $H_A$ mm                  | $H_A$ in. | $H_B$ mm | $H_B$ in. | GC        | GC   | GC   | GC   | GC   |
|             |      |          |                     |                           |           |          |           | 1125      | 1125 | 1125 | 1125 | 1125 |
| 16          | 3/8  | 1.50     | 266R/LG-16MJ01A150E | 1.12                      | .0441     | 0.25     | .0098     | ★         | ★    | ★    | ★    | ★    |
|             |      | 2.00     | 266R/LG-16MJ01A200E | 1.50                      | .0591     | 0.34     | .0134     | ★         | ★    | ★    | ★    | ★    |
|             |      |          |                     |                           |           |          |           | P20       | M20  | K15  | N20  | S20  |

266R = A derecha, 266L = A izquierda

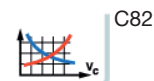
★ = Primera elección

## Interior

Nota: para mecanizar una rosca MJ interior, use una barra CoroTurn 107 y plaquita correcta con arreglo al diámetro interior, produciendo una rosca con una plaquita métrica ISO de 60°.



C8



C82



C86



C2



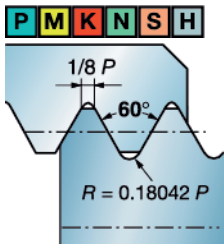
J3



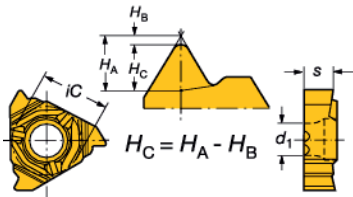
I8

UNJ 60°    Perfil completo

Roscas aeroespaciales



ISO 3161-1977  
BS 4084-1978  
Tolerancia clase 3A



Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

|    | $iC$ | Paso,<br>TPI | $iC$ mm | $d_i$      | $s$         |
|----|------|--------------|---------|------------|-------------|
| 16 | 3/8  | 32-8         | 9.53    | 4.4 (.173) | 3.97 (.156) |



¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

Exterior

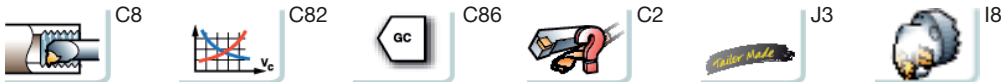
Para áreas de aplicación ISO, ver final de la tabla.

|    | $iC$ | Paso, TPI | Código de pedido  | Dimensiones, milímetros, pulgadas (mm, pulg.) |              |             |              | P M K N S |      |      |      |      |
|----|------|-----------|-------------------|-----------------------------------------------|--------------|-------------|--------------|-----------|------|------|------|------|
|    |      |           |                   | $H_A$<br>mm                                   | $H_A$<br>in. | $H_B$<br>mm | $H_B$<br>in. | GC        | GC   | GC   | GC   | GC   |
|    |      |           |                   |                                               |              |             |              | 1125      | 1125 | 1125 | 1125 | 1125 |
| 16 | 3/8  | 32        | 266RG-16NJ01A320E | 0.59                                          | .0232        | 0.13        | .0051        | ★         | ★    | ★    | ★    | ★    |
|    |      | 28        | 266RG-16NJ01A280E | 0.67                                          | .0264        | 0.15        | .0059        | ★         | ★    | ★    | ★    | ★    |
|    |      | 24        | 266RG-16NJ01A240E | 0.79                                          | .0311        | 0.18        | .0071        | ★         | ★    | ★    | ★    | ★    |
|    |      | 20        | 266RG-16NJ01A200E | 0.94                                          | .0370        | 0.21        | .0083        | ★         | ★    | ★    | ★    | ★    |
|    |      | 18        | 266RG-16NJ01A180E | 1.05                                          | .0413        | 0.23        | .0091        | ★         | ★    | ★    | ★    | ★    |
|    |      | 16        | 266RG-16NJ01A160E | 1.18                                          | .0465        | 0.26        | .0102        | ★         | ★    | ★    | ★    | ★    |
|    |      | 14        | 266RG-16NJ01A140E | 1.35                                          | .0531        | 0.30        | .0118        | ★         | ★    | ★    | ★    | ★    |
|    |      | 12        | 266RG-16NJ01A120E | 1.58                                          | .0622        | 0.36        | .0142        | ★         | ★    | ★    | ★    | ★    |
|    |      | 10        | 266RG-16NJ01A100E | 1.89                                          | .0744        | 0.42        | .0165        | ★         | ★    | ★    | ★    | ★    |
|    |      | 8         | 266RG-16NJ01A080E | 2.38                                          | .0937        | 0.53        | .0209        | ★         | ★    | ★    | ★    | ★    |
|    |      |           |                   |                                               |              |             |              | P20       | M20  | K15  | N20  | S20  |

266R = A derecha, 266L = A izquierda  
★ = Primera elección

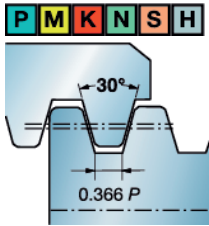
Interior

Nota: para mecanizar una rosca interior UNJ, use una barra Coro Turn 107 y plaquita correcta con arreglo al diámetro interior, produciendo una rosca con una plaquita UN de 60°.

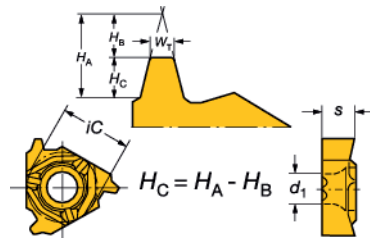


# ISO Trapezoidal 30° Forma de cresta achaflanada

Roscas de tornillo trapezoidal para transmisión de movimientos.



ISO 2901-2904  
DIN 103-1977  
Clase de tolerancia 7



Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

|    | $iC$ | Paso, mm | $iC$ mm | $d_1$      | s           |
|----|------|----------|---------|------------|-------------|
| 16 | 3/8  | 1.5-3.0  | 9.53    | 4.4 (.173) | 3.97 (.156) |
| 22 | 1/2  | 4.0-7.0  | 12.7    | 5.5 (.217) | 5.56 (.219) |
| 27 | 5/8  | 8.0      | 15.88   | 6.5 (.256) | 7.0 (.276)  |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

## Exterior

Para áreas de aplicación ISO, ver final de la tabla.

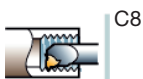
| $\triangle$ | $iC$ | Paso, mm | Código de pedido    | Dimensiones, milímetros, pulgadas (mm, pulg.) |           |          |           |          |             | P M K N S |      |      |      |      |      |      |      |      |      |
|-------------|------|----------|---------------------|-----------------------------------------------|-----------|----------|-----------|----------|-------------|-----------|------|------|------|------|------|------|------|------|------|
|             |      |          |                     | $H_A$ mm                                      | $H_A$ in. | $H_B$ mm | $H_B$ in. | $W_1$ mm | $W_1$ pulg. | GC        |      | GC   |      | GC   |      | GC   |      | GC   |      |
|             |      |          |                     |                                               |           |          |           |          |             | 1020      | 1135 | 1020 | 1135 | 1020 | 1135 | 1020 | 1135 | 1020 | 1135 |
| 16          | 3/8  | 1.50     | 266R/LG-16TR01F150E | 1.85                                          | .0728     | 0.88     | .0346     | 0.47     | .0185       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 2.00     | 266R/LG-16TR01F200E | 2.44                                          | .0961     | 1.13     | .0445     | 0.61     | .0240       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 3.00     | 266R/LG-16TR01F300E | 3.63                                          | .1429     | 1.82     | .0717     | 0.98     | .0386       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
| 22          | 1/2  | 4.00     | 266R/LG-22TR01F400E | 4.82                                          | .1898     | 2.50     | .0984     | 1.34     | .0528       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 5.00     | 266R/LG-22TR01F500E | 6.01                                          | .2366     | 3.18     | .1252     | 1.70     | .0669       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 6.00     | 266R/LG-22TR01F600E | 7.20                                          | .2835     | 3.62     | .1425     | 1.94     | .0764       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 7.00     | 266R/LG-22TR01F700E | 8.38                                          | .3299     | 4.31     | .1697     | 2.31     | .0909       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
| 27          | 5/8  | 8.00     | 266RG-27TR01F800E   | 9.57                                          | .3768     | 5.00     | .1969     | 2.68     | .1055       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      |          |                     |                                               |           |          |           |          |             | P20       | P25  | M20  | M25  | K15  | K20  | N25  | N25  | S20  | S25  |

## Interior

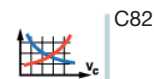
| $\triangle$ | $iC$ | Paso, mm | Código de pedido    | Dimensiones, milímetros, pulgadas (mm, pulg.) |           |          |           |          |             | P M K N S |      |      |      |      |      |      |      |      |      |
|-------------|------|----------|---------------------|-----------------------------------------------|-----------|----------|-----------|----------|-------------|-----------|------|------|------|------|------|------|------|------|------|
|             |      |          |                     | $H_A$ mm                                      | $H_A$ in. | $H_B$ mm | $H_B$ in. | $W_1$ mm | $W_1$ pulg. | GC        |      | GC   |      | GC   |      | GC   |      | GC   |      |
|             |      |          |                     |                                               |           |          |           |          |             | 1020      | 1135 | 1020 | 1135 | 1020 | 1135 | 1020 | 1135 | 1020 | 1135 |
| 16          | 3/8  | 2.00     | 266R/LL-16TR01F200E | 2.41                                          | .0949     | 1.08     | .0425     | 0.58     | .0228       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 3.00     | 266R/LL-16TR01F300E | 3.59                                          | .1413     | 1.76     | .0693     | 0.94     | .0370       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
| 22          | 1/2  | 4.00     | 266R/LL-22TR01F400E | 4.77                                          | .1878     | 2.45     | .0965     | 1.31     | .0516       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 5.00     | 266R/LL-22TR01F500E | 5.96                                          | .2346     | 3.13     | .1232     | 1.68     | .0661       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 6.00     | 266R/LL-22TR01F600E | 7.14                                          | .2811     | 3.56     | .1402     | 1.91     | .0752       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 7.00     | 266R/LL-22TR01F700E | 8.32                                          | .3276     | 4.25     | .1673     | 2.28     | .0898       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
| 27          | 5/8  | 8.00     | 266RL-27TR01F800E   | 9.49                                          | .3736     | 4.93     | .1941     | 2.64     | .1039       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      |          |                     |                                               |           |          |           |          |             | P20       | P25  | M20  | M25  | K15  | K20  | N25  | N25  | S20  | S25  |

266R = A derecha, 266L = A izquierda

★ = Primera elección



C8



C82



C86



C2

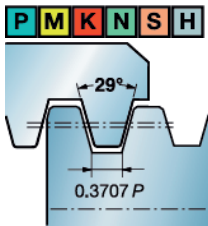


J3

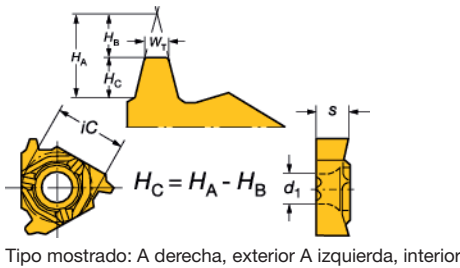


I8

ACME 29° forma de cresta achaflanada  
Roscas de tornillo trapezoidal para transmisión de movimientos.



ANSI B1.5-1988  
Tolerancia clase 2G



Dimensiones, mm (pulg.)

|    | iC  | Paso, TPI | iC mm | d <sub>1</sub> | s           |
|----|-----|-----------|-------|----------------|-------------|
| 16 | 3/8 | 16-8      | 9.53  | 4.4 (.173)     | 3.97 (.156) |
| 22 | 1/2 | 6-4       | 12.7  | 5.5 (.217)     | 5.56 (.219) |
| 27 | 5/8 | 3         | 15.9  | 6.5 (.256)     | 7.0 (.276)  |



¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

Exterior

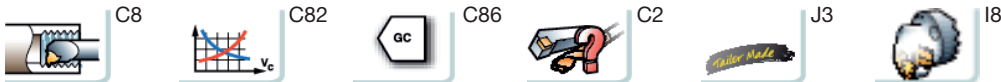
Para áreas de aplicación ISO, ver final de la tabla.

|    | iC  | Paso, TPI | Código de pedido    | Dimensiones, milímetros, pulgadas (mm, pulg.) |                    |                   |                    |                   |                      |      |     |      |     |      |     |      |     |      |     |
|----|-----|-----------|---------------------|-----------------------------------------------|--------------------|-------------------|--------------------|-------------------|----------------------|------|-----|------|-----|------|-----|------|-----|------|-----|
|    |     |           |                     | H <sub>A</sub> mm                             | H <sub>A</sub> in. | H <sub>B</sub> mm | H <sub>B</sub> in. | W <sub>T</sub> mm | W <sub>T</sub> pulg. | P    |     | M    |     | K    |     | N    |     | S    |     |
|    |     |           |                     |                                               |                    |                   |                    |                   |                      | GC   | GC  | GC   | GC  | GC   | GC  | GC   | GC  | GC   | GC  |
| 16 | 3/8 | 16        | 266RG-16AC01F160E   | 1.98                                          | .0780              | 1.04              | .0409              | 0.54              | .0213                | 1020 | ★   | 1135 | ★   | 1020 | ★   | 1135 | ★   | 1020 | ★   |
|    |     | 14        | 266RG-16AC01F140E   | 2.26                                          | .0890              | 1.21              | .0476              | 0.63              | .0248                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 12        | 266R/LG-16AC01F120E | 2.64                                          | .1039              | 1.43              | .0563              | 0.74              | .0291                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 10        | 266R/LG-16AC01F100E | 3.16                                          | .1244              | 1.61              | .0634              | 0.83              | .0327                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 8         | 266R/LG-16AC01F080E | 3.94                                          | .1551              | 2.08              | .0819              | 1.08              | .0425                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
| 22 | 1/2 | 6         | 266R/LG-22AC01F060E | 5.25                                          | .2067              | 2.84              | .1118              | 1.47              | .0579                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 5         | 266R/LG-22AC01F050E | 6.29                                          | .2476              | 3.47              | .1366              | 1.79              | .0705                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 4         | 266R/LG-22AC01F040E | 7.87                                          | .3098              | 4.41              | .1736              | 2.28              | .0898                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
| 27 | 5/8 | 3         | 266RG-27AC01F030E   | 10.47                                         | .4122              | 5.95              | .2343              | 3.08              | .1213                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     |           |                     |                                               |                    |                   |                    |                   |                      | P20  | P25 | M20  | M25 | K15  | K20 | N25  | N25 | S20  | S25 |

Interior

|    | iC  | Paso, TPI | Código de pedido    | Dimensiones, milímetros, pulgadas (mm, pulg.) |                    |                   |                    |                   |                      |      |     |      |     |      |     |      |     |      |     |
|----|-----|-----------|---------------------|-----------------------------------------------|--------------------|-------------------|--------------------|-------------------|----------------------|------|-----|------|-----|------|-----|------|-----|------|-----|
|    |     |           |                     | H <sub>A</sub> mm                             | H <sub>A</sub> in. | H <sub>B</sub> mm | H <sub>B</sub> in. | W <sub>T</sub> mm | W <sub>T</sub> pulg. | P    |     | M    |     | K    |     | N    |     | S    |     |
|    |     |           |                     |                                               |                    |                   |                    |                   |                      | GC   | GC  | GC   | GC  | GC   | GC  | GC   | GC  | GC   | GC  |
| 16 | 3/8 | 16        | 266RL-16AC01F160E   | 1.97                                          | .0776              | 1.00              | .0394              | 0.52              | .0205                | 1020 | ★   | 1135 | ★   | 1020 | ★   | 1135 | ★   | 1020 | ★   |
|    |     | 14        | 266RL-16AC01F140E   | 2.25                                          | .0886              | 1.16              | .0457              | 0.60              | .0236                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 12        | 266R/LL-16AC01F120E | 2.62                                          | .1031              | 1.37              | .0539              | 0.71              | .0280                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 10        | 266R/LL-16AC01F100E | 3.13                                          | .1232              | 1.54              | .0606              | 0.80              | .0315                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 8         | 266R/LL-16AC01F080E | 3.90                                          | .1535              | 2.00              | .0787              | 1.03              | .0406                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
| 22 | 1/2 | 6         | 266R/LL-22AC01F060E | 5.19                                          | .2043              | 2.76              | .1087              | 1.43              | .0563                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 5         | 266R/LL-22AC01F050E | 6.22                                          | .2449              | 3.37              | .1327              | 1.74              | .0685                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     | 4         | 266R/LL-22AC01F040E | 7.77                                          | .3059              | 4.28              | .1685              | 2.21              | .0870                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
| 27 | 5/8 | 3         | 266RL-27AC01F030E   | 10.31                                         | .4059              | 5.80              | .2283              | 3.00              | .1181                | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   | ★    | ★   |
|    |     |           |                     |                                               |                    |                   |                    |                   |                      | P20  | P25 | M20  | M25 | K15  | K20 | N25  | N25 | S20  | S25 |

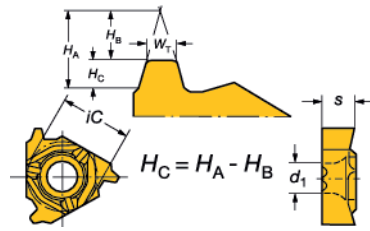
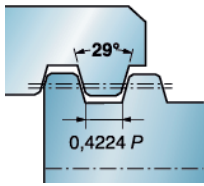
266R = A derecha, 266L = A izquierda  
★= Primera elección



# STUB-ACME 29° forma de cresta biselada

Roscas de tornillo trapezoidal para transmisión de movimientos.

**P M K N S H**



Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

| $\triangle$ | $iC$ | Paso, TPI | $iC$ mm | $d_1$      | s           |
|-------------|------|-----------|---------|------------|-------------|
| 16          | 3/8  | 16-8      | 9.53    | 4.4 (.173) | 3.97 (.156) |
| 22          | 1/2  | 6-4       | 12.7    | 5.5 (.217) | 5.56 (.219) |
| 27          | 5/8  | 3         | 15.9    | 6.5 (.256) | 7.0 (.276)  |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

## Exterior

Para áreas de aplicación ISO, ver final de la tabla.

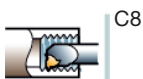
| $\triangle$ | $iC$ | Paso, TPI | Código de pedido    | Dimensiones, milímetros, pulgadas (mm, pulg.) |           |          |           |          |             | P M K N S |      |      |      |      |      |      |      |      |      |
|-------------|------|-----------|---------------------|-----------------------------------------------|-----------|----------|-----------|----------|-------------|-----------|------|------|------|------|------|------|------|------|------|
|             |      |           |                     | $H_A$ mm                                      | $H_A$ in. | $H_B$ mm | $H_B$ in. | $W_1$ mm | $W_1$ pulg. | GC        |      | GC   |      | GC   |      | GC   |      | GC   |      |
|             |      |           |                     |                                               |           |          |           |          |             | 1020      | 1135 | 1020 | 1135 | 1020 | 1135 | 1020 | 1135 | 1020 | 1135 |
| 16          | 3/8  | 16        | 266R/LG-16SA01F160E | 1.86                                          | .0732     | 1.21     | .0476     | 0.63     | .0248       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 14        | 266R/LG-16SA01F140E | 2.12                                          | .0835     | 1.40     | .0551     | 0.72     | .0283       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 12        | 266R/LG-16SA01F120E | 2.47                                          | .0972     | 1.65     | .0650     | 0.85     | .0335       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 10        | 266R/LG-16SA01F100E | 2.95                                          | .1161     | 1.87     | .0736     | 0.97     | .0382       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 8         | 266R/LG-16SA01F080E | 3.67                                          | .1445     | 2.39     | .0941     | 1.24     | .0488       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
| 22          | 1/2  | 6         | 266R/LG-22SA01F060E | 4.86                                          | .1913     | 3.27     | .1287     | 1.69     | .0665       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 5         | 266R/LG-22SA01F050E | 5.83                                          | .2295     | 3.98     | .1567     | 2.06     | .0811       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 4         | 266R/LG-22SA01F040E | 7.27                                          | .2862     | 5.05     | .1988     | 2.61     | .1028       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 3         | 266RG-27SA01F030E   | 9.66                                          | .3803     | 6.81     | .2681     | 3.52     | .1386       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      |           |                     |                                               |           |          |           |          |             | P20       | P25  | M20  | M25  | K15  | K20  | N25  | N25  | S20  | S25  |

## Interior

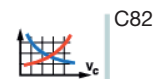
| $\triangle$ | $iC$ | Paso, TPI | Código de pedido    | Dimensiones, milímetros, pulgadas (mm, pulg.) |           |          |           |          |             | P M K N S |      |      |      |      |      |      |      |      |      |
|-------------|------|-----------|---------------------|-----------------------------------------------|-----------|----------|-----------|----------|-------------|-----------|------|------|------|------|------|------|------|------|------|
|             |      |           |                     | $H_A$ mm                                      | $H_A$ in. | $H_B$ mm | $H_B$ in. | $W_1$ mm | $W_1$ pulg. | GC        |      | GC   |      | GC   |      | GC   |      | GC   |      |
|             |      |           |                     |                                               |           |          |           |          |             | 1020      | 1135 | 1020 | 1135 | 1020 | 1135 | 1020 | 1135 | 1020 | 1135 |
| 16          | 3/8  | 16        | 266RL-16SA01F160E   | 1.81                                          | .0713     | 1.15     | .0453     | 0.59     | .0232       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 14        | 266RL-16SA01F140E   | 2.07                                          | .0815     | 1.34     | .0528     | 0.72     | .0283       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 12        | 266R/LL-16SA01F120E | 2.40                                          | .0945     | 1.59     | .0626     | 0.85     | .0335       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 10        | 266R/LL-16SA01F100E | 2.88                                          | .1134     | 1.80     | .0709     | 0.93     | .0366       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 8         | 266R/LL-16SA01F080E | 3.59                                          | .1413     | 2.31     | .0909     | 1.24     | .0488       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
| 22          | 1/2  | 6         | 266R/LL-22SA01F060E | 4.77                                          | .1878     | 3.18     | .1252     | 1.64     | .0646       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 5         | 266R/LL-22SA01F050E | 5.71                                          | .2248     | 3.87     | .1524     | 2.00     | .0787       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 4         | 266R/LL-22SA01F040E | 7.13                                          | .2807     | 4.91     | .1933     | 2.54     | .1000       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      | 3         | 266RL-27SA01F030E   | 9.49                                          | .3736     | 6.64     | .2614     | 3.43     | .1350       | ★         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |
|             |      |           |                     |                                               |           |          |           |          |             | P20       | P25  | M20  | M25  | K15  | K20  | N25  | N25  | S20  | S25  |

266R = A derecha, 266L = A izquierda

★ = Primera elección



C8



C82



C86



C2



J3

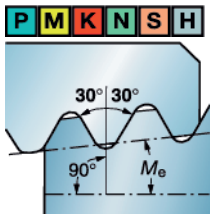


I8

API 60° Perfil completo, para operaciones en escuadra

V-0.038R, V-0.040, V-0.050

Roscas para conductos de petróleo y gas



Me = Cono

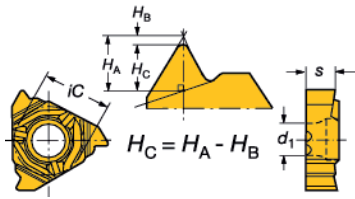
2 pulg.p.p – 4°46'

3 pulg.p.p – 7°07'

API espec.7

Dimensiones, mm (pulg.)

|    | iC  | Paso, TPI | iC mm | d <sub>i</sub> | s           |
|----|-----|-----------|-------|----------------|-------------|
| 22 | 1/2 | 4-5       | 12.7  | 5.5 (.217)     | 5.57 (.219) |
| 27 | 5/8 | 4-5       | 15.9  | 6.5 (.256)     | 7.0 (.276)  |



Tipo mostrado: A derecha, exterior A izquierda, interior



¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

Exterior

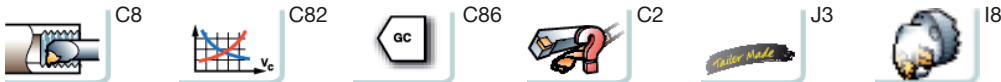
Para áreas de aplicación ISO, ver final de la tabla.

|    | iC  | Paso, TPI | Cono en diám.<br>pulg.p.p. | Código de pedido   | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       | P M K N S |      |      |      |      |      |      |      |      |      |
|----|-----|-----------|----------------------------|--------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|-----------|------|------|------|------|------|------|------|------|------|
|    |     |           |                            |                    | H <sub>A</sub><br>mm                          | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | GC        |      | GC   |      | GC   |      | GC   |      | GC   |      |
|    |     |           |                            |                    |                                               |                       |                      |                       | 1020      | 1125 | 1020 | 1125 | 1020 | 1125 | 1020 | 1125 | 1020 | 1125 |
| 22 | 1/2 |           |                            | V-0.038R           |                                               |                       |                      |                       | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     | 4         | 2                          | 266RG-22V381A0402E | 4.03                                          | .1587                 | 0.95                 | .0374                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     | 3         |                            | 266RG-22V381A0403E | 4.02                                          | .1583                 | 0.95                 | .0374                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     |           |                            | V-0.040            |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 5         | 3                          | 266RG-22V401A0503E | 3.47                                          | .1368                 | 0.50                 | .0197                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     |           |                            | V-0.050            |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 4         | 2                          | 266RG-22V501A0402E | 4.36                                          | .1717                 | 0.62                 | .0244                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     | 3         |                            | 266RG-22V501A0403E | 4.35                                          | .1713                 | 0.62                 | .0244                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
| 27 | 5/8 |           |                            | V-0.038R           |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 4         | 2                          | 266RG-27V381A0402E | 4.03                                          | .1587                 | 0.95                 | .0374                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     | 3         |                            | 266RG-27V381A0403E | 4.02                                          | .1583                 | 0.95                 | .0374                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     |           |                            | V-0.040            |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 5         | 3                          | 266RG-27V401A0503E | 3.47                                          | .1368                 | 0.50                 | .0197                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     |           |                            | V-0.050            |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 4         | 2                          | 266RG-27V501A0402E | 4.36                                          | .1717                 | 0.62                 | .0244                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     | 3         |                            | 266RG-27V501A0403E | 4.35                                          | .1713                 | 0.62                 | .0244                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     |           |                            |                    |                                               |                       |                      |                       | P20       | P20  | M20  | M20  | K15  | K15  | N25  | N25  | S20  | S20  |

Interior

|    | iC  | Paso, TPI | Cono en diám.<br>pulg.p.p. | Código de pedido   | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       | P M K N S |      |      |      |      |      |      |      |      |      |
|----|-----|-----------|----------------------------|--------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|-----------|------|------|------|------|------|------|------|------|------|
|    |     |           |                            |                    | H <sub>A</sub><br>mm                          | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | GC        |      | GC   |      | GC   |      | GC   |      | GC   |      |
|    |     |           |                            |                    |                                               |                       |                      |                       | 1020      | 1125 | 1020 | 1125 | 1020 | 1125 | 1020 | 1125 | 1020 | 1125 |
| 22 | 1/2 |           |                            | V-0.038R           |                                               |                       |                      |                       | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     | 4         | 2                          | 266RL-22V381A0402E | 4.03                                          | .1587                 | 0.95                 | .0374                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     | 3         |                            | 266RL-22V381A0403E | 4.02                                          | .1583                 | 0.95                 | .0374                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     |           |                            | V-0.040            |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 5         | 3                          | 266RL-22V401A0503E | 3.47                                          | .1368                 | 0.50                 | .0197                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     |           |                            | V-0.050            |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 4         | 2                          | 266RL-22V501A0402E | 4.36                                          | .1717                 | 0.62                 | .0244                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
|    |     | 3         |                            | 266RL-22V501A0403E | 4.35                                          | .1713                 | 0.62                 | .0244                 | ☆         | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    | ☆    |
| 27 | 5/8 |           |                            | V-0.038R           |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 4         | 2                          | 266RL-27V381A0402E | 4.03                                          | .1587                 | 0.95                 | .0374                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     | 3         |                            | 266RL-27V381A0403E | 4.02                                          | .1583                 | 0.95                 | .0374                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     |           |                            | V-0.040            |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 5         | 3                          | 266RL-27V401A0503E | 3.47                                          | .1368                 | 0.50                 | .0197                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     |           |                            | V-0.050            |                                               |                       |                      |                       |           |      |      |      |      |      |      |      |      |      |
|    |     | 4         | 2                          | 266RL-27V501A0402E | 4.36                                          | .1717                 | 0.62                 | .0244                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     | 3         |                            | 266RL-27V501A0403E | 4.35                                          | .1713                 | 0.62                 | .0244                 |           | ☆    |      | ☆    |      | ☆    |      | ☆    |      | ☆    |
|    |     |           |                            |                    |                                               |                       |                      |                       | P20       | P20  | M20  | M20  | K15  | K15  | N25  | N25  | S20  | S20  |

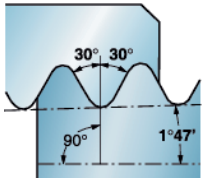
266R = A derecha, 266L = A izquierda  
★ = Primera elección



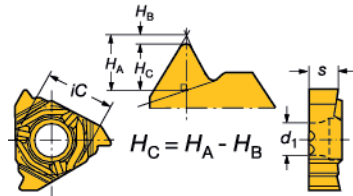
# API Redonda 60° Perfil completo

Roscas para conductos de petróleo y gas

**P M K N S H**



API espec.5B



Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

|    | $iC$ | Paso, TPI | $iC$ mm | $d_1$      | s           |
|----|------|-----------|---------|------------|-------------|
| 16 | 3/8  | 10-8      | 9.53    | 4.4 (.173) | 3.97 (.156) |
| 22 | 1/2  | 10-8      | 12.7    | 5.5 (.217) | 5.56 (.219) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

## Exterior

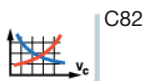
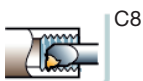
Para áreas de aplicación ISO, ver final de la tabla.

|  | <i>iC</i> | Paso, TPI |                   | Dimensiones, milímetros, pulgadas (mm, pulg.) |                             |                            |                             | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |      |
|-----------------------------------------------------------------------------------|-----------|-----------|-------------------|-----------------------------------------------|-----------------------------|----------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                                                                                   |           |           |                   | <i>H<sub>A</sub></i><br>mm                    | <i>H<sub>A</sub></i><br>in. | <i>H<sub>B</sub></i><br>mm | <i>H<sub>B</sub></i><br>in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                   |           |           |                   |                                               |                             |                            |                             | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |
| 16                                                                                | 3/8       | 10        | 266RG-16RD01A100E | 1.76                                          | .0693                       | 0.36                       | .0142                       | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |           |           | 266RG-16RD01C100M |                                               |                             |                            |                             | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |           | 8         | 266RG-16RD01A080E | 2.23                                          | .0878                       | 0.43                       | .0169                       | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
|                                                                                   |           |           | 266RG-16RD01C080M |                                               |                             |                            |                             | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      | ★    |      |      |
| 22                                                                                | 1/2       | 10        | 266RG-22RD01A100E | 1.76                                          | .0693                       | 0.36                       | .0142                       | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |
|                                                                                   |           | 8         | 266RG-22RD01A080E | 2.23                                          | .0878                       | 0.43                       | .0169                       | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |
|                                                                                   |           |           |                   |                                               |                             |                            |                             | P20  | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | N25  | S20  | S20  | S25  |

## Interior

|  | <i>iC</i> | Paso, TPI |                   | Código de pedido | Dimensiones, milímetros, pulgadas (mm, pulg.) |                             |                            |                             | P    |      |      | M    |      |      | K    |      |      | N    |      |      | S    |      |    |    |
|-------------------------------------------------------------------------------------|-----------|-----------|-------------------|------------------|-----------------------------------------------|-----------------------------|----------------------------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|
|                                                                                     |           |           |                   |                  | <i>H<sub>A</sub></i><br>mm                    | <i>H<sub>A</sub></i><br>in. | <i>H<sub>B</sub></i><br>mm | <i>H<sub>B</sub></i><br>in. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC | GC |
|                                                                                     |           |           |                   |                  | 1020                                          | 1125                        | 1135                       | 1020                        | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 | 1020 | 1125 | 1135 |    |    |
| 16                                                                                  | 3/8       | 10        | 266RL-16RD01A100E | 1.76             | .0693                                         | 0.36                        | .0142                      |                             | ★    |      |      | ★    |      | ★    |      |      | ★    |      |      | ★    |      |      |    |    |
|                                                                                     |           |           | 266RL-16RD01C100M |                  |                                               |                             |                            |                             | ★    |      |      | ★    |      | ★    |      |      | ★    |      |      | ★    |      |      |    |    |
|                                                                                     |           | 8         | 266RL-16RD01A080E | 2.24             | .0882                                         | 0.43                        | .0169                      |                             | ★    |      |      | ★    |      | ★    |      |      | ★    |      |      | ★    |      |      |    |    |
|                                                                                     |           |           | 266RL-16RD01C080M |                  |                                               |                             |                            |                             | ★    |      |      | ★    |      | ★    |      |      | ★    |      |      | ★    |      |      |    |    |
| 22                                                                                  | 1/2       | 10        | 266RL-22RD01A100E | 1.76             | .0693                                         | 0.36                        | .0142                      | ☆                           | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    |      |    |    |
|                                                                                     |           | 8         | 266RL-22RD01A080E | 2.24             | .0882                                         | 0.43                        | .0169                      | ☆                           | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    |      |    |    |
|                                                                                     |           |           |                   |                  |                                               |                             |                            | P20                         | P20  | P25  | M20  | M20  | M25  | K15  | K15  | K20  | N25  | N20  | N25  | S20  | S20  | S25  |    |    |

266R = A derecha  
★ = Primera elección



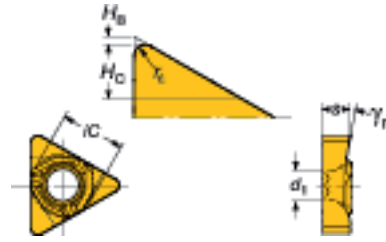


## CoroThread® 266

## Adaptador en bruto

Dimensiones, mm (pulg.)

|  | iC  | mm        | Paso, TPI | iC mm | $\alpha_1$ | s           |
|-----------------------------------------------------------------------------------|-----|-----------|-----------|-------|------------|-------------|
| 16                                                                                | 3/8 | 0.2 - 3.0 | 64-8      | 9.53  | 4.4 (.173) | 3.97 (.156) |

La dimensión  $H_c \times l_a$  es el área de rectificado para perfiles específicos

Para áreas de aplicación ISO, ver final de la tabla.

## Exterior

| Dimensiones, milímetros, pulgadas (mm, pulg.)                                     |     |                       |          |           |          |           |          |             |            | P    | M    | K    | N    | S    |
|-----------------------------------------------------------------------------------|-----|-----------------------|----------|-----------|----------|-----------|----------|-------------|------------|------|------|------|------|------|
|  | iC  | Código de pedido      | $H_b$ mm | $H_b$ in. | $H_c$ mm | $H_c$ in. | $r_e$ mm | $r_e$ pulg. | $\gamma_n$ | H13A | H13A | H13A | H13A | H13A |
| 16                                                                                | 3/8 | 266R/LG-160000-300-BG | 0.70     | .0276     | 3.20     | .1262     | 1.00     | .0394       | 10°        | ☆    | ☆    | ☆    | ☆    | ☆    |
|                                                                                   |     |                       |          |           |          |           |          |             |            | M25  | K20  | N25  | S25  |      |

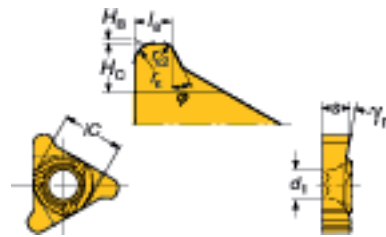
## Interior

| Dimensiones, milímetros, pulgadas (mm, pulg.)                                     |     |                       |          |           |          |           |          |             |            | P    | M    | K    | N    | S    |
|-----------------------------------------------------------------------------------|-----|-----------------------|----------|-----------|----------|-----------|----------|-------------|------------|------|------|------|------|------|
|  | iC  | Código de pedido      | $H_b$ mm | $H_b$ in. | $H_c$ mm | $H_c$ in. | $r_e$ mm | $r_e$ pulg. | $\gamma_n$ | H13A | H13A | H13A | H13A | H13A |
| 16                                                                                | 3/8 | 266R/LL-160000-300-BG | 0.70     | .0276     | 2.70     | .1062     | 1.00     | .0394       | 15°        | ☆    | ☆    | ☆    | ☆    | ☆    |
|                                                                                   |     |                       |          |           |          |           |          |             |            | M25  | K20  | N25  | S25  |      |

266R = A derecha  
★ = Primera elección

Dimensiones, mm (pulg.)

|  | iC  | mm      | Paso, TPI | iC mm | $\alpha_1$ | s           |
|-------------------------------------------------------------------------------------|-----|---------|-----------|-------|------------|-------------|
| 22                                                                                  | 1/2 | 3.0-6.0 | 8-4       | 12.7  | 5.5 (.217) | 5.57 (.219) |
| 27                                                                                  | 5/8 | 6.0-8.0 | 4-3       | 15.88 | 6.5 (.256) | 7.0 (.276)  |

La dimensión  $H_c \times l_a$  es el área de rectificado para perfiles específicos

Para áreas de aplicación ISO, ver final de la tabla.

## Exterior

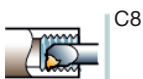
|                                                                                     |     |                       | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       |                      |                         |                       |                          |                      |                         | P   | M    | K    | N    | S    |      |
|-------------------------------------------------------------------------------------|-----|-----------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|----------------------|-------------------------|-----------------------|--------------------------|----------------------|-------------------------|-----|------|------|------|------|------|
|  | iC  | Código de pedido      | H <sub>B</sub><br>mm                          | H <sub>B</sub><br>in. | H <sub>C</sub><br>mm | H <sub>C</sub><br>in. | r <sub>e</sub><br>mm | r <sub>e</sub><br>pulg. | r <sub>e2</sub><br>mm | r <sub>e2</sub><br>pulg. | l <sub>a</sub><br>mm | l <sub>a</sub><br>pulg. | γn  | H13A | H13A | H13A | H13A | H13A |
| 22                                                                                  | 1/2 | 266R/LG-220000-600-BG | 0.30                                          | .0118                 | 4.80                 | .1890                 | 2.00                 | .0787                   | 1.00                  | .039                     | 3.5                  | .138                    | 10° | ☆    | ☆    | ☆    | ☆    | ☆    |
| 27                                                                                  | 5/8 | 266RG-270000-800-BG   | 0.30                                          | .0118                 | 5.80                 | .2283                 | 2.00                 | .0787                   | 1.00                  | .039                     | 6.5                  | .256                    | 10° | ☆    | ☆    | ☆    | ☆    | ☆    |
|                                                                                     |     |                       |                                               |                       |                      |                       |                      |                         |                       |                          |                      |                         |     |      | M25  | K20  | N25  | S25  |

## Interior

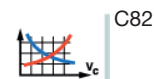
|  | iC  | Código de pedido      | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       |                      |                         |                       |                          |                      |                         | P   | M    | K    | N    | S    |      |
|-------------------------------------------------------------------------------------|-----|-----------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|----------------------|-------------------------|-----------------------|--------------------------|----------------------|-------------------------|-----|------|------|------|------|------|
|                                                                                     |     |                       | H <sub>B</sub><br>mm                          | H <sub>B</sub><br>in. | H <sub>C</sub><br>mm | H <sub>C</sub><br>in. | r <sub>e</sub><br>mm | r <sub>e</sub><br>pulg. | r <sub>e2</sub><br>mm | r <sub>e2</sub><br>pulg. | l <sub>a</sub><br>mm | l <sub>a</sub><br>pulg. | γn  | H13A | H13A | H13A | H13A | H13A |
|                                                                                     |     |                       |                                               |                       |                      |                       |                      |                         |                       |                          |                      |                         |     |      |      |      |      |      |
| 22                                                                                  | 1/2 | 266R/LL-220000-600-BG | 0.40                                          | .0157                 | 4.80                 | .1890                 | 2.00                 | .0787                   | 1.00                  | .039                     | 3.50                 | .138                    | 15° | ☆    | ☆    | ☆    | ☆    | ☆    |
| 27                                                                                  | 5/8 | 266RL-270000-800-BG   | 0.30                                          | .0118                 | 5.80                 | .2283                 | 2.00                 | .0787                   | 1.00                  | .039                     | 6.50                 | .256                    | 10° | ☆    | ☆    | ☆    | ☆    | ☆    |
|                                                                                     |     |                       |                                               |                       |                      |                       |                      |                         |                       |                          |                      |                         |     |      | M25  | K20  | N25  | S25  |

266R = A derecha  
★ = Primera elección

Nota: extremar la precaución al rectificar productos de metal duro. Consultar la información de seguridad en la página J7.



C8



C82



C86



C2



J3



I8

# Clave de códigos para herramientas CoroThread® 266

## Portaherramientas con mango, pulgadas

|            |          |           |          |           |          |          |
|------------|----------|-----------|----------|-----------|----------|----------|
| <b>266</b> | <b>R</b> | <b>FG</b> | <b>Z</b> | <b>16</b> | <b>4</b> | <b>D</b> |
| 1          | 2        | 4         | 5        | 6         | 3        | 11       |

## Barra para mandrinar, pulgadas

|            |          |           |          |             |            |
|------------|----------|-----------|----------|-------------|------------|
| <b>266</b> | <b>R</b> | <b>KF</b> | <b>Z</b> | <b>D 20</b> | <b>- 4</b> |
| 1          | 2        | 4         | 5        | 6           | 3          |

## Unidad de corte Coromant Capto

|           |          |            |          |           |          |           |            |          |           |
|-----------|----------|------------|----------|-----------|----------|-----------|------------|----------|-----------|
| <b>C5</b> | <b>-</b> | <b>266</b> | <b>R</b> | <b>FG</b> | <b>Z</b> | <b>35</b> | <b>060</b> | <b>-</b> | <b>22</b> |
| 9         |          | 1          | 2        | 4         | 5        | 10        | 11         |          | 3         |

## Portaherramientas con mango, métricos

|            |          |           |          |             |             |
|------------|----------|-----------|----------|-------------|-------------|
| <b>266</b> | <b>R</b> | <b>FG</b> | <b>Z</b> | <b>3232</b> | <b>- 22</b> |
| 1          | 2        | 4         | 5        | 6           | 3           |

## Barra para mandrinar, métrica

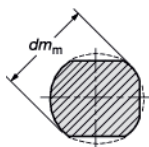
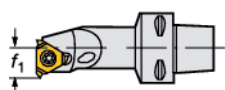
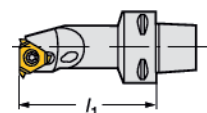
|            |          |           |          |           |             |            |          |
|------------|----------|-----------|----------|-----------|-------------|------------|----------|
| <b>266</b> | <b>R</b> | <b>KF</b> | <b>Z</b> | <b>32</b> | <b>- 22</b> | <b>- R</b> | <b>E</b> |
| 1          | 2        | 4         | 5        | 6         | 3           | 7          | 8        |

## Cabeza de corte CoroThread™ SL 266

|           |          |            |          |           |          |           |           |           |          |           |
|-----------|----------|------------|----------|-----------|----------|-----------|-----------|-----------|----------|-----------|
| <b>SL</b> | <b>-</b> | <b>266</b> | <b>R</b> | <b>KF</b> | <b>-</b> | <b>40</b> | <b>32</b> | <b>27</b> | <b>-</b> | <b>22</b> |
| 12        |          | 1          | 2        | 4         |          | 13        | 11        | 10        |          | 3         |

## Cartucho

|            |          |           |          |           |          |          |          |           |
|------------|----------|-----------|----------|-----------|----------|----------|----------|-----------|
| <b>266</b> | <b>R</b> | <b>KF</b> | <b>-</b> | <b>20</b> | <b>C</b> | <b>A</b> | <b>-</b> | <b>22</b> |
| 1          | 2        | 4         |          | 14        | 15       | 16       |          | 3         |

|                                                                                                                                             |                                                                                                                                                                            |                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> Código principal                                                                                                                   | <b>2</b> Sentido de la herramienta                                                                                                                                         | <b>3</b> Tamaño/dimensión de la plaquita                                                                                                                                                         |
| 266 = CoroThread™ 266                                                                                                                       | R = a derecha<br>L = Tipo a izquierda                                                                                                                                      | Portaplaquitas con mango<br><b>Pulgadas</b><br>3 = 3/8" = iC<br>4 = 1/2" = iC<br>5 = 5/8" = iC<br><b>Métrica</b><br>16 = iC 3/8" = 9,52 mm<br>22 = iC 1/2" = 12,70 mm<br>27 = iC 5/8" = 15,88 mm |
| <b>4</b> Tipo de herramienta y de soporte                                                                                                   |                                                                                                                                                                            | <b>5</b> Portaplaquitas para montaje en posición invertida                                                                                                                                       |
| Exterior                                                                                                                                    | Interior                                                                                                                                                                   | Z = Diseño de cabeza para montaje en posición invertida                                                                                                                                          |
|                                                          |                                                                                         |                                                                                                             |
| FA                                                                                                                                          | FG                                                                                                                                                                         | KF                                                                                                                                                                                               |
| <b>6</b> Tamaño del mango                                                                                                                   |                                                                                                                                                                            | <b>7</b> Tipo de mango                                                                                                                                                                           |
| Exterior                                                                                                                                    | Interior                                                                                                                                                                   | R = Mango redondo                                                                                                                                                                                |
| <b>Pulgadas</b><br>Tamaño de mango<br>16 = 1 x 1"<br>20 = 1 1/4 x 1 1/4"<br>24 = 1 1/2 x 1 1/2"<br><b>Métrica</b><br>Tamaño del mango h x b | <b>Pulgadas</b><br>Diámetro de mango<br>D12 = .750" D24 = 1.500"<br>D16 = 1.000" D32 = 2.000"<br>D20 = 1.250"<br><b>Métrica</b><br>Diámetro del tipo mango dm <sub>m</sub> |                                                                                                                                                                                                  |
|                                                          |                                                                                       |                                                                                                                                                                                                  |
| <b>8</b> Tipo de barra                                                                                                                      | <b>9</b> Tamaño Coromant Capto®                                                                                                                                            | <b>10</b> f <sub>1</sub> dimensión                                                                                                                                                               |
| E = Barra de metal duro                                                                                                                     | C = Coromant Capto<br>D <sub>5m</sub> Código de tamaños<br><br>C3 D5m = 32 mm<br>C4 D5m = 40 mm<br>C5 D5m = 50 mm<br>C6 D5m = 63 mm<br>C8 D5m = 80 mm                      |                                                                                                               |
|                                                                                                                                             |                                                                                                                                                                            | <b>11</b> Longitud de la herramienta, l <sub>1</sub> -dimensión                                                                                                                                  |
|                                                                                                                                             |                                                                                                                                                                            |                                                                                                             |
|                                                                                                                                             |                                                                                                                                                                            | <b>Pulgadas</b><br>D = 6.000"<br>E = 7.000"<br><b>Métrica</b><br>Dimensiones l <sub>1</sub> en mm                                                                                                |
| <b>12</b> Unidad de corte                                                                                                                   | <b>13</b> Tamaño del acoplamiento SL                                                                                                                                       | <b>14</b> Altura de la arista de corte, h <sub>1</sub> mm                                                                                                                                        |
| Sistema SL                                                                                                                                  | dm <sub>m</sub> - dimensión (diám. de barra)                                                                                                                               |                                                                                                              |
|                                                                                                                                             |                                                                                                                                                                            | <b>15</b> Tipo de herramienta                                                                                                                                                                    |
|                                                                                                                                             |                                                                                                                                                                            | C = Cartucho                                                                                                                                                                                     |
|                                                                                                                                             |                                                                                                                                                                            | <b>16</b> Tipo de diseño                                                                                                                                                                         |
|                                                                                                                                             |                                                                                                                                                                            | A = letra para diseños alternativos según ISO 5611.                                                                                                                                              |

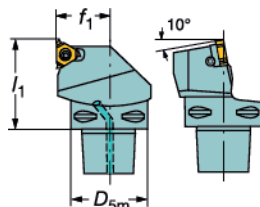
# Unidades de corte CoroThread™ 266 Coromant Capto®

Diseño de sujeción por tornillo



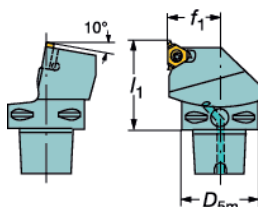
266 R/LG

Cx-266R/LFG



Cx-266R/LFGZ

Para montaje hacia abajo



| $\triangle$ | $iC$ | Ángulo de inclinación con distintas placas de apoyo, véase página C45. |
|-------------|------|------------------------------------------------------------------------|
| 16          | 3/8  | -2°-+4°                                                                |
| 22          | 1/2  | 0°-+3°                                                                 |
| 27          | 5/8  |                                                                        |



x y z, consulte las tablas de penetración en las páginas C70.

Entrada de refrigerante: radial a través del cono

A derechas en la ilustración

| Aplicación principal | Tamaño de plaquita |      | Código de pedido     | Dimensiones, mm, pulgadas |                   |             |                |             |                | Nm <sup>1)</sup> |
|----------------------|--------------------|------|----------------------|---------------------------|-------------------|-------------|----------------|-------------|----------------|------------------|
|                      | $\triangle$        | $iC$ |                      | $D_{5m}$<br>mm            | $D_{5m}$<br>pulg. | $f_1$<br>mm | $f_1$<br>pulg. | $h_1$<br>mm | $h_1$<br>pulg. |                  |
|                      | 16                 | 3/8  | C3-266R/LFG-22040-16 | 32                        | 1.260             | 22.0        | .866           | 40.0        | 1.575          | 3.0              |
|                      |                    |      | C4-266R/LFG-27050-16 | 40                        | 1.575             | 27.0        | 1.063          | 50.0        | 1.968          | 3.0              |
|                      |                    |      | C5-266R/LFG-35060-16 | 50                        | 1.968             | 35.0        | 1.378          | 60.0        | 2.362          | 3.0              |
|                      |                    |      | C6-266R/LFG-45065-16 | 63                        | 2.480             | 45.0        | 1.772          | 65.0        | 2.559          | 3.0              |
|                      | 22                 | 1/2  | C3-266R/LFG-22040-22 | 32                        | 1.260             | 22.0        | .866           | 40.0        | 1.575          | 5.0              |
|                      |                    |      | C4-266R/LFG-27050-22 | 40                        | 1.575             | 27.0        | 1.063          | 50.0        | 1.968          | 5.0              |
|                      |                    |      | C5-266R/LFG-35060-22 | 50                        | 1.968             | 35.0        | 1.378          | 60.0        | 2.362          | 5.0              |
|                      |                    |      | C6-266R/LFG-45065-22 | 63                        | 2.480             | 45.0        | 1.772          | 65.0        | 2.559          | 5.0              |
|                      | 16                 | 3/8  | C8-266R/LFG-55080-16 | 80                        | 3.150             | 55.0        | 2.165          | 80.0        | 3.150          | 3.0              |
|                      |                    |      | C3-266R/LFG-22040-27 | 32                        | 1.260             | 22.0        | .866           | 40.0        | 1.575          | 7.5              |
|                      |                    |      | C4-266RFGZ27050-16   | 40                        | 1.575             | 27.0        | 1.063          | 50.0        | 1.968          | 3.0              |
|                      |                    |      | C5-266RFGZ35060-16   | 50                        | 1.968             | 35.0        | 1.378          | 60.0        | 2.362          | 3.0              |
|                      | 22                 | 1/2  | C6-266RFGZ45065-16   | 63                        | 2.480             | 45.0        | 1.772          | 65.0        | 2.559          | 3.0              |
|                      |                    |      | C4-266R/LFGZ27050-22 | 40                        | 1.575             | 27.0        | 1.063          | 50.0        | 1.968          | 5.0              |
|                      |                    |      | C5-266R/LFGZ35060-22 | 50                        | 1.968             | 35.0        | 1.378          | 60.0        | 2.362          | 5.0              |
|                      |                    |      | C6-266R/LFGZ45065-22 | 63                        | 2.480             | 45.0        | 1.772          | 65.0        | 2.559          | 5.0              |
|                      | 27                 | 5/8  | C6-266R/LFGZ45065-27 | 63                        | 2.480             | 45.0        | 1.772          | 65.0        | 2.559          | 7.5              |

<sup>1)</sup> Par torsor de la plaquita Nm

266R = A derecha, 266L = A izquierda

Ángulo de inclinación con distintas placas de apoyo, véase página C45.

## Piezas de repuesto principales

| Tamaño de plaquita |      | Tornillo de plaquita |                         | Placa de apoyo para portaplaquitas exterior a derecha |                                         | Placa de apoyo para portaplaquitas exterior a izquierda |                                         | Tornillo de la placa de apoyo |
|--------------------|------|----------------------|-------------------------|-------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|-----------------------------------------|-------------------------------|
| $\triangle$        | $iC$ |                      | Llave (Torx Plus)       | Ángulo de inclinación +1° <sup>2)</sup>               | Ángulo de inclinación +1° <sup>2)</sup> | Ángulo de inclinación +1° <sup>2)</sup>                 | Ángulo de inclinación +1° <sup>2)</sup> |                               |
| 16                 | 3/8  | 5513 020-13          | 5680 049-05 (15IP/10IP) | 5322 389-11                                           | 5322 390-11                             | 5322 390-11                                             | 5322 390-11                             | 5512 032-05                   |
| 22                 | 1/2  | 5513 020-26          | 5680 043-14 (20IP)      | 5322 379-11                                           | 5322 380-11                             | 5322 380-11                                             | 5322 380-11                             | 5512 032-04                   |
| 27                 | 5/8  | 5513 020-66          | 5680 043-15 (25IP)      | 5322 387-11                                           | 5322 388-11                             | 5322 388-11                                             | 5322 388-11                             | 5512 032-03                   |

<sup>2)</sup> Para placas de apoyo opcionales, ver página C45.

| Boquillas opcionales (debe pedirse por separado) |                  |                  |        |                  |
|--------------------------------------------------|------------------|------------------|--------|------------------|
| Coromant Capto                                   | Tamaño de unidad | Código de pedido | Tamaño | Llave de montaje |
| C3-C4                                            |                  | 5691 034-01      | M8     | 5680 019-01      |
| C5-C6                                            |                  | 5691 034-02      | M10    | 5680 019-01      |
| C8                                               |                  | 5691 034-03      | M12    | 5680 019-01      |

Adaptador de llave



C11

C36



C63



G6



J2

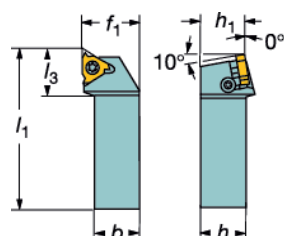
# Herramientas con mango CoroThread™ 266

## Diseño de sujeción por tornillo



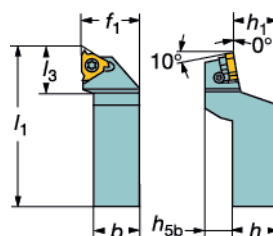
266 R/LG

### 266R/LFG



### 266R/LFGZ

Para montaje hacia abajo



|    |     | Ángulo de inclinación con distintas placas de apoyo, véase página C45. |
|----|-----|------------------------------------------------------------------------|
| 16 | 3/8 | -2°-+4°                                                                |
| 22 | 1/2 | 0°-+3°                                                                 |
| 27 | 5/8 | 0°-+3°                                                                 |



x y z, consulte las tablas de penetración en las páginas C70.

## Versión métrica

| Aplicación principal | Tamaño de plaquita |     | Código de pedido | Calidades Coromant |                |    |                |                 |                |                | Nm <sup>1)</sup> |
|----------------------|--------------------|-----|------------------|--------------------|----------------|----|----------------|-----------------|----------------|----------------|------------------|
|                      |                    | iC  |                  | b                  | f <sub>1</sub> | h  | h <sub>1</sub> | h <sub>5b</sub> | h <sub>1</sub> | h <sub>3</sub> |                  |
|                      | 16                 | 3/8 | 266R/LFG-1616-16 | 16                 | 20             | 16 | 16             |                 | 100            | 21.4           | 3.0              |
|                      |                    |     | 266R/LFG-2020-16 | 20                 | 25             | 20 | 20             |                 | 125            | 21.6           | 3.0              |
|                      |                    |     | 266R/LFG-2525-16 | 25                 | 32             | 25 | 25             |                 | 150            | 22.2           | 3.0              |
|                      |                    |     | 266R/LFG-3225-16 | 25                 | 32             | 32 | 32             |                 | 150            | 22.2           | 3.0              |
|                      |                    |     | 266R/LFG-2525-22 | 25                 | 32             | 25 | 25             |                 | 150            | 33.3           | 5.0              |
|                      | 22                 | 1/2 | 266R/LFG-3232-22 | 32                 | 40             | 32 | 32             |                 | 170            | 34.3           | 5.0              |
|                      |                    |     | 266R/LFG-4040-22 | 40                 | 50             | 40 | 40             |                 | 251            | 29.7           | 5.0              |
|                      |                    |     | 266R/LFG-3232-27 | 32                 | 40             | 32 | 32             |                 | 170            | 39.0           | 7.5              |
|                      |                    |     | 266R/LFG-4040-27 | 40                 | 50             | 40 | 40             |                 | 250            | 34.6           | 7.5              |
|                      |                    |     | 266R/LFGZ2525-16 | 25                 | 32             | 25 | 25             | 19              | 150            | 22.2           | 3.0              |
|                      | 16                 | 3/8 | 266R/LFGZ2525-16 | 25                 | 32             | 25 | 25             | 19              | 150            | 22.2           | 3.0              |
|                      |                    |     | 266R/LFGZ3225-16 | 25                 | 32             | 32 | 32             | 16              | 170            | 22.2           | 3.0              |
|                      |                    |     | 266R/LFGZ2525-22 | 25                 | 32             | 25 | 25             | 19              | 150            | 33.3           | 5.0              |
|                      |                    |     | 266R/LFGZ3232-22 | 32                 | 40             | 32 | 32             | 21              | 170            | 34.3           | 5.0              |
|                      |                    |     |                  |                    |                |    |                |                 |                |                |                  |

## Versión en pulgadas

| Aplicación principal | Tamaño de plaquita |     | Código de pedido | Dimensiones, pulgadas |                |       |                |                 |                |                | pies-lbs <sup>2)</sup> |
|----------------------|--------------------|-----|------------------|-----------------------|----------------|-------|----------------|-----------------|----------------|----------------|------------------------|
|                      |                    | iC  |                  | b                     | f <sub>1</sub> | h     | h <sub>1</sub> | h <sub>5b</sub> | h <sub>1</sub> | h <sub>3</sub> |                        |
|                      | 16                 | 3/8 | 266R/LFG-123B    | .750                  | 1.000          | .750  | .750           |                 | 4.500          | .870           | 2.2                    |
|                      |                    |     | 266R/LFG-163D    | 1.000                 | 1.250          | 1.000 | 1.000          |                 | 6.000          | .870           | 2.2                    |
|                      |                    |     | 266R/LFG-203D    | 1.250                 | 1.500          | 1.250 | 1.250          |                 | 6.000          | .870           | 2.2                    |
|                      |                    |     | 266R/LFG-164D    | 1.000                 | 1.250          | 1.000 | 1.000          |                 | 6.000          | 1.272          | 3.7                    |
|                      |                    |     | 266R/LFG-204D    | 1.250                 | 1.500          | 1.250 | 1.250          |                 | 6.000          | 1.272          | 3.7                    |
|                      | 22                 | 1/2 | 266R/LFG-244E    | 1.500                 | 2.000          | 1.500 | 1.500          |                 | 7.000          | 1.193          | 3.7                    |
|                      |                    |     | 266R/LFG-205D    | 1.250                 | 1.500          | 1.250 | 1.250          |                 | 6.000          | 1.455          | 5.5                    |
|                      |                    |     | 266R/LFG-245E    | 1.500                 | 2.000          | 1.500 | 1.500          |                 | 7.000          | 1.386          | 5.5                    |
|                      |                    |     | 266R/LFGZ123B    | .750                  | 1.000          | .750  | .750           |                 | 4.500          | .870           | 2.2                    |
|                      |                    |     | 266R/LFGZ163D    | 1.000                 | 1.250          | 1.000 | 1.000          |                 | 6.000          | .870           | 2.2                    |
|                      | 16                 | 3/8 | 266R/LFGZ203D    | 1.250                 | 1.500          | 1.250 | 1.250          | .025            | 6.000          | .870           | 2.2                    |
|                      |                    |     | 266R/LFGZ164D    | 1.000                 | 1.250          | 1.000 | 1.000          | .748            | 6.000          | 1.272          | 3.7                    |
|                      |                    |     | 266R/LFGZ204D    | 1.250                 | 1.500          | 1.250 | 1.250          | .827            | 6.000          | 1.272          | 3.7                    |
|                      |                    |     |                  |                       |                |       |                |                 |                |                |                        |
|                      |                    |     |                  |                       |                |       |                |                 |                |                |                        |

<sup>1)</sup> Par torsor de la plaquita Nm<sup>2)</sup> Par de apriete de la plaquita, ft-lbs.

266R = A derecha, 266L = A izquierda

Ángulo de inclinación con distintas placas de apoyo, véase página C45.

## Piezas de repuesto principales

| Tamaño de plaquita |     | Tornillo de plaquita |                         | Placa de apoyo para portaplaquetas exterior a derecha |  | Placa de apoyo para portaplaquetas exterior a izquierda |  | Tornillo de la placa de apoyo |
|--------------------|-----|----------------------|-------------------------|-------------------------------------------------------|--|---------------------------------------------------------|--|-------------------------------|
|                    | iC  |                      | Llave (Torx Plus)       | Ángulo de inclinación +1° <sup>3)</sup>               |  | Ángulo de inclinación +1° <sup>3)</sup>                 |  |                               |
| 16                 | 3/8 | 5513 020-13          | 5680 049-05 (15IP/10IP) | 5322 389-11                                           |  | 5322 390-11                                             |  | 5512 032-05                   |
| 22                 | 1/2 | 5513 020-26          | 5680 043-14 (20IP)      | 5322 379-11                                           |  | 5322 380-11                                             |  | 5512 032-04                   |
| 27                 | 5/8 | 5513 020-66          | 5680 043-15 (25IP)      | 5322 387-11                                           |  | 5322 388-11                                             |  | 5512 032-03                   |

<sup>3)</sup> Para placas de apoyo opcionales, ver página C45.

C11



C35



C63



G6



J2

# Herramientas con mango CoroThread™ 266

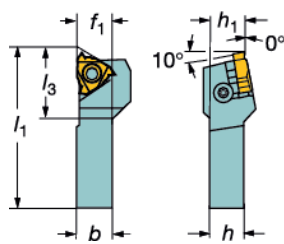
Portaherramientas para máquinas de decoletaje

Diseño de sujeción por tornillo



266 R/LG

266R/LFA



|    |      |                                                                                                   |
|----|------|---------------------------------------------------------------------------------------------------|
|    | $iC$ | Ángulo de inclinación de $-2^\circ$ a $+4^\circ$ con distintas placas de apoyo, véase página C45. |
| 16 | 3/8  |                                                                                                   |



x y z, consulte las tablas de penetración en las páginas C70.

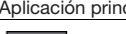
Roscado de piezas delgadas y contra el centro

A derechas en la ilustración

## Versión métrica

|                                                                                   | Tamaño de<br>plaquita                                                             |           |                    | Calidades Coromant |                       |          |                       |          |                       |                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|--------------------|--------------------|-----------------------|----------|-----------------------|----------|-----------------------|------------------|
| Aplicación principal                                                              |  | <i>iC</i> | Código de pedido   | <i>b</i>           | <i>f</i> <sub>1</sub> | <i>h</i> | <i>h</i> <sub>1</sub> | <i>h</i> | <i>h</i> <sub>3</sub> | Nm <sup>1)</sup> |
|  | 16                                                                                | 3/8       | 266R/LFA-1010-16-S | 10                 | 10                    | 10       | 10                    | 125      | 19.8                  | 3.0              |
|                                                                                   |                                                                                   |           | 266R/LFA-1212-16-S | 12                 | 12                    | 12       | 12                    | 125      | 21.3                  | 3.0              |
|                                                                                   |                                                                                   |           | 266R/LFA-1616-16-S | 16                 | 16                    | 16       | 16                    | 125      | 23.3                  | 3.0              |
|                                                                                   |                                                                                   |           |                    |                    |                       |          |                       |          |                       |                  |

## Versión en pulgadas

|                                                                                     | Tamaño de<br>plaquita                                                               |           | Dimensiones, pulgadas |          |                       |          |                       |                       |                       |                        |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------------------|----------|-----------------------|----------|-----------------------|-----------------------|-----------------------|------------------------|
| Aplicación principal                                                                |  | <i>iC</i> | Código de pedido      | <i>b</i> | <i>f</i> <sub>1</sub> | <i>h</i> | <i>h</i> <sub>1</sub> | <i>l</i> <sub>1</sub> | <i>l</i> <sub>2</sub> | pies-lbs <sup>2)</sup> |
|  | 16                                                                                  | 3/8       | 266R/LFA-063-S        | .375     | .375                  | .375     | .375                  | 5.000                 | .841                  | 2.2                    |
|                                                                                     |                                                                                     |           | 266R/LFA-083-S        | .500     | .500                  | .500     | .500                  | 5.000                 | .841                  | 2.2                    |
|                                                                                     |                                                                                     |           | 266R/LFA-103-S        | .625     | .625                  | .625     | .625                  | 5.000                 | .841                  | 2.2                    |
|                                                                                     |                                                                                     |           | 266R/LFA-123-S        | .750     | .750                  | .750     | .750                  | 5.000                 | .841                  | 2.2                    |
|                                                                                     |                                                                                     |           |                       |          |                       |          |                       |                       |                       |                        |

<sup>1)</sup> Par torsor de la plaquita Nm

<sup>2)</sup> Par de apriete de la plaquita, ft-lbs.

R = A Derecha, L = A Izquierda

## Piezas de repuesto principales

| Tamaño de plaquita |     |                      |                         | Placa de apoyo para portaplaquitas exterior a derecha | Placa de apoyo para portaplaquitas exterior a izquierda | Tornillo de la placa de apoyo |
|--------------------|-----|----------------------|-------------------------|-------------------------------------------------------|---------------------------------------------------------|-------------------------------|
| $iC$               |     | Tornillo de plaquita | Llave (Torx Plus)       | Ángulo de inclinación $+1^\circ$ <sup>3)</sup>        | Ángulo de inclinación $+1^\circ$ <sup>3)</sup>          |                               |
| 16                 | 3/8 | 5513 020-13          | 5680 049-05 (15IP/10IP) | 5322 389-11                                           | 5322 390-11                                             | 5512 032-05                   |

<sup>3)</sup> Para placas de apoyo opcionales, ver página C45.



C11



C35



C63



G6

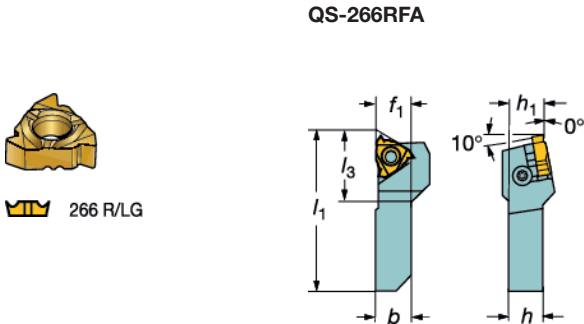


J2

Mango corto CoroThread 266® para el sistema de sujeción QS™

Roscado

Diseño de sujeción por tornillo



|    |      |                                                                                                       |
|----|------|-------------------------------------------------------------------------------------------------------|
|    | $iC$ | Ángulo de inclinación de $-2^{\circ}$ a $+4^{\circ}$ con distintas placas de apoyo, véase página C45. |
| 16 | 3/8  |                                                                                                       |



x y z, consulte las tablas de penetración en las páginas C70.

A derechas en la ilustración

Versión métrica

| Aplicación principal | Tamaño de plaquita |      | Código de pedido  | Calidades Coromant |       |     |       |       |       | Nm <sup>1)</sup> |
|----------------------|--------------------|------|-------------------|--------------------|-------|-----|-------|-------|-------|------------------|
|                      |                    | $iC$ |                   | $b$                | $f_1$ | $h$ | $h_1$ | $l_1$ | $l_2$ |                  |
|                      | 16                 | 3/8  | QS-266RFA-1010-16 | 10                 | 10    | 10  | 10    | 70    | 19.8  | 3.0              |
|                      |                    |      | QS-266RFA-1212-16 | 12                 | 12    | 12  | 12    | 70    | 21.3  | 3.0              |
|                      |                    |      | QS-266RFA-1616-16 | 16                 | 16    | 16  | 16    | 70    | 23.3  | 3.0              |

Versión en pulgadas

| Aplicación principal | Tamaño de plaquita |      | Código de pedido | Dimensiones, pulgadas |       |      |       |       |       | pies-lbs <sup>2)</sup> |
|----------------------|--------------------|------|------------------|-----------------------|-------|------|-------|-------|-------|------------------------|
|                      |                    | $iC$ |                  | $b$                   | $f_1$ | $h$  | $h_1$ | $l_1$ | $l_2$ |                        |
|                      | 16                 | 3/8  | QS-266RFA-063    | .375                  | .375  | .375 | .375  | 2.756 | .780  | 2.2                    |
|                      |                    |      | QS-266RFA-083    | .500                  | .500  | .500 | .500  | 2.756 | .839  | 2.2                    |
|                      |                    |      | QS-266RFA-103    | .625                  | .625  | .625 | .625  | 2.756 | .917  | 2.2                    |

1) Par torsor de la plaquita Nm  
2) Par de apriete de la plaquita, ft-lbs.  
Paradas QS en la página A233.

R = A derecha

Piezas de repuesto principales

| Tamaño de plaquita |      | Tornillo de plaquita |                         | Llave (Torx Plus) |             | Placa de apoyo para portaplaquitas exterior a derecha | Placa de apoyo para portaplaquitas exterior a izquierda | Tornillo de la placa de apoyo |
|--------------------|------|----------------------|-------------------------|-------------------|-------------|-------------------------------------------------------|---------------------------------------------------------|-------------------------------|
|                    | $iC$ |                      |                         |                   |             | Ángulo de inclinación $+1^{\circ}$ 2)                 | Ángulo de inclinación $+1^{\circ}$ 2)                   |                               |
| 16                 | 3/8  | 5513 020-13          | 5680 049-05 (15IP/10IP) | 5322 389-11       | 5322 390-11 |                                                       |                                                         | 5512 032-05                   |

2) Para placas de apoyo opcionales, ver página C45.



# Unidades de corte CoroThread™ 266 Coromant Capto®

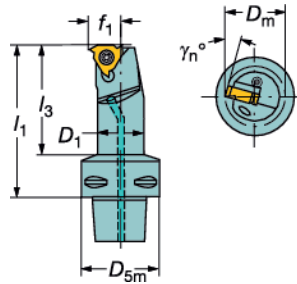
Diseño de sujeción por tornillo

Barra de acero con suministro de fluido de corte interior



266 R/LL

Cx-266R/LKF



|  |      |                                                                        |
|--|------|------------------------------------------------------------------------|
|  | $iC$ | Ángulo de inclinación con distintas placas de apoyo, véase página C45. |
|  |      | $-2^{\circ}$ a $+4^{\circ}$                                            |



x y z, consulte las tablas de penetración en las páginas C70.

A derechas en la ilustración

| Aplicación principal | Tamaño de plaquita |      | Código de pedido     | Dimensiones, mm, pulgadas |            |          |       |       |       |            | Nm <sup>1)</sup> |
|----------------------|--------------------|------|----------------------|---------------------------|------------|----------|-------|-------|-------|------------|------------------|
|                      |                    | $iC$ |                      | $D_1$                     | $D_m$ mín. | $D_{5m}$ | $f_1$ | $l_1$ | $l_3$ | $\gamma_n$ |                  |
|                      | 16                 | 3/8  | C3-266R/LKF-14060-16 | 18.5                      | 25         | 32       | 14.0  | 60    | 44    | -15°       | 3.0              |
|                      |                    |      |                      | .728                      | .984       | 1.260    | .551  | 2.362 | 1.732 |            |                  |
|                      |                    |      | C4-266R/LKF-14060-16 | 18.5                      | 25         | 40       | 14.0  | 60    | 38    | -15°       | 3.0              |
|                      |                    |      |                      | .728                      | .984       | 1.575    | .551  | 2.362 | 1.496 |            |                  |
|                      |                    |      | C4-266R/LKF-17070-16 | 24.5                      | 32         | 40       | 17.0  | 70    | 48    | -15°       | 3.0              |
|                      |                    |      |                      | .965                      | 1.260      | 1.575    | .669  | 2.756 | 1.890 |            |                  |
|                      |                    |      | C4-266RKF-22090-16   | 32.0                      | 40         | 40       | 22.0  | 90    | 69    | -15°       | 3.0              |
|                      |                    |      |                      | 1.260                     | 1.575      | 1.575    | .866  | 3.543 | 2.716 |            |                  |
|                      |                    |      | C5-266R/LKF-14060-16 | 18.5                      | 25         | 50       | 14.0  | 60    | 36    | -15°       | 3.0              |
|                      |                    |      |                      | .728                      | .984       | 1.968    | .551  | 2.362 | 1.417 |            |                  |
|                      |                    |      | C5-266R/LKF-17070-16 | 24.5                      | 32         | 50       | 17.0  | 70    | 47    | -15°       | 3.0              |
|                      |                    |      |                      | .965                      | 1.260      | 1.968    | .669  | 2.756 | 1.850 |            |                  |
|                      |                    |      | C5-266R/LKF-22090-16 | 32.0                      | 40         | 50       | 22.0  | 90    | 68    | -15°       | 3.0              |
|                      |                    |      |                      | 1.260                     | 1.575      | 1.968    | .866  | 3.543 | 2.677 |            |                  |
|                      |                    |      | C5-266R/LKF-27105-16 | 40.0                      | 50         | 50       | 27.0  | 105   | 84    | -15°       | 3.0              |
|                      |                    |      |                      | 1.575                     | 1.968      | 1.968    | 1.063 | 4.134 | 3.307 |            |                  |
|                      |                    |      | C6-266R/LKF-14070-16 | 18.5                      | 25         | 63       | 14.0  | 70    | 42    | -15°       | 3.0              |
|                      |                    |      |                      | .728                      | .984       | 2.480    | .551  | 2.756 | 1.654 |            |                  |
|                      |                    |      | C6-266R/LKF-17075-16 | 24.5                      | 32         | 63       | 17.0  | 75    | 48    | -15°       | 3.0              |
|                      |                    |      |                      | .965                      | 1.260      | 2.480    | .669  | 2.953 | 1.890 |            |                  |
|                      |                    |      | C6-266R/LKF-22090-16 | 32.0                      | 40         | 63       | 22.0  | 90    | 64    | -15°       | 3.0              |
|                      |                    |      |                      | 1.260                     | 1.575      | 2.480    | .866  | 3.543 | 2.520 |            |                  |
|                      |                    |      | C6-266R/LKF-27105-16 | 40.0                      | 50         | 63       | 27.0  | 105   | 80    | -15°       | 3.0              |
|                      |                    |      |                      | 1.575                     | 1.968      | 2.480    | 1.063 | 4.134 | 3.150 |            |                  |

<sup>1)</sup> Par torsor de la plaquita Nm

266R = A derecha, 266L = A izquierda

Ángulo de inclinación con distintas placas de apoyo, véase página C45.

## Piezas de repuesto principales

| Tamaño de plaquita |      | Tornillo de plaquita |                         | Llave (Torx Plus) |  | Placa de apoyo para portaherramientas interior a derecha<br>Ángulo de inclinación +1° <sup>2)</sup> | Placa de apoyo para portaherramientas interior a izquierda<br>Ángulo de inclinación +1° <sup>2)</sup> | Tornillo de la placa de apoyo |
|--------------------|------|----------------------|-------------------------|-------------------|--|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------|
|                    | $iC$ |                      |                         |                   |  |                                                                                                     |                                                                                                       |                               |
| 16                 | 3/8  | 5513 020-13          | 5680 049-05 (15IP/10IP) |                   |  | 5322 390-11                                                                                         | 5322 389-11                                                                                           | 5512 032-05                   |

<sup>2)</sup> Para placas de apoyo opcionales, ver página C45.



C11



C41



C64



G6



J2

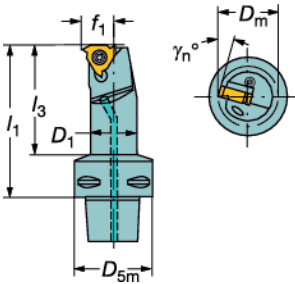
Unidades de corte CoroThread™ 266 Coromant Capto®

Diseño de sujeción por tornillo  
Barra de acero con suministro de fluido de corte interior



266 R/LL

Cx-266R/LKF



|              |                                                                        |
|--------------|------------------------------------------------------------------------|
|              | Ángulo de inclinación con distintas placas de apoyo, véase página C45. |
| 22    iC 1/2 | -2°-+4°                                                                |



x y z, consulte las tablas de penetración en las páginas C70.

A derechas en la ilustración

| Aplicación principal | Tamaño de plaquita |     | Código de pedido     | Dimensiones, mm, pulgadas |                     |                 |                |                |                |                | Nm1)¹) |
|----------------------|--------------------|-----|----------------------|---------------------------|---------------------|-----------------|----------------|----------------|----------------|----------------|--------|
|                      |                    | iC  |                      | D <sub>1</sub>            | D <sub>m</sub> mín. | D <sub>5m</sub> | f <sub>1</sub> | l <sub>1</sub> | l <sub>3</sub> | γ <sub>n</sub> |        |
|                      | 22                 | 1/2 | C4-266RKF-19070-22   | 25.0<br>.984              | 32<br>1.260         | 40<br>1.575     | 19.0<br>.748   | 70<br>2.756    | 48<br>1.890    | -15°           | 5.0    |
|                      |                    |     | C4-266RKF-22090-22   | 31.5<br>1.240             | 40<br>1.575         | 40<br>1.575     | 22.0<br>.866   | 90<br>3.543    | 69<br>2.716    | -15°           | 5.0    |
|                      |                    |     | C4-266RKF-27080-22   | 39.5<br>1.555             | 50<br>1.968         | 40<br>1.575     | 27.0<br>1.063  | 80<br>3.150    | 60<br>2.362    | -15°           | 5.0    |
|                      |                    |     | C5-266RKF-19070-22   | 25.0<br>.984              | 32<br>1.260         | 50<br>1.968     | 19.0<br>.748   | 70<br>2.756    | 47<br>1.850    | -15°           | 5.0    |
|                      |                    |     | C5-266RKF-22090-22   | 32.0<br>1.260             | 40<br>1.575         | 50<br>1.968     | 22.0<br>.866   | 90<br>3.543    | 68<br>2.677    | -15°           | 5.0    |
|                      |                    |     | C5-266R/LKF-27105-22 | 40.0<br>1.575             | 50<br>1.968         | 50<br>1.968     | 26.9<br>1.059  | 105<br>4.134   | 84<br>3.307    | -15°           | 5.0    |
|                      |                    |     | C6-266RKF-19075-22   | 25.0<br>.984              | 32<br>1.260         | 63<br>2.480     | 19.0<br>.748   | 75<br>2.953    | 48<br>1.890    | -15°           | 5.0    |
|                      |                    |     | C6-266RKF-22090-22   | 31.5<br>1.240             | 40<br>1.575         | 63<br>2.480     | 22.0<br>.866   | 90<br>3.543    | 64<br>2.520    | -15°           | 5.0    |
|                      |                    |     | C6-266R/LKF-27105-22 | 40.0<br>1.575             | 50<br>1.968         | 63<br>2.480     | 26.9<br>1.059  | 105<br>4.134   | 80<br>3.150    | -15°           | 5.0    |
|                      |                    |     |                      |                           |                     |                 |                |                |                |                |        |
|                      |                    |     |                      |                           |                     |                 |                |                |                |                |        |

1) Par torsor de la plaquita Nm      266R = A derecha, 266L = A izquierda

Ángulo de inclinación con distintas placas de apoyo, véase página C45.

Piezas de repuesto principales

| Tamaño de plaquita |     | Tornillo de plaquita |                    | Llave (Torx Plus) |  | Placa de apoyo para portaherramientas interior a derecha | Placa de apoyo para portaherramientas interior a izquierda | Tornillo de la placa de apoyo |
|--------------------|-----|----------------------|--------------------|-------------------|--|----------------------------------------------------------|------------------------------------------------------------|-------------------------------|
|                    | iC  |                      |                    |                   |  | Ángulo de inclinación +1° 2)                             | Ángulo de inclinación +1° 2)                               |                               |
| 22                 | 1/2 | 5513 020-26          | 5680 043-14 (20IP) |                   |  | 5322 380-11                                              | 5322 379-11                                                | 5512 032-04                   |

2) Para placas de apoyo opcionales, ver página C45.



J2



C35



C64



G6

# Barras para mandrinar CoroThread™ 266

Diseño de sujeción por tornillo

Suministro de refrigerante interior

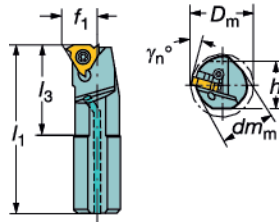
Cilíndrico con plano de apriete

## 266R/LKF

Cilíndrico con plano de apriete



266 R/LL



|    | iC  | dm<br>pulg. | Ángulo de inclinación con distintas placas de apoyo, véase página C45. |
|----|-----|-------------|------------------------------------------------------------------------|
| 16 | 3/8 | 20-50       |                                                                        |
| 22 | 1/2 | 25-50       |                                                                        |
| 27 | 5/8 | 40          |                                                                        |
|    |     |             | No se utilizan placas de                                               |
| 16 | 3/8 | 16          |                                                                        |
| 22 | 1/2 | 20          |                                                                        |



x y z, consulte las tablas de penetración en las páginas C70.

A derechas en la ilustración

## Versión métrica

| Aplicación principal | Tamaño de plaquita |     | Código de pedido | Dimensiones, mm |         |      |    |     |      |      | Nm1)1) |
|----------------------|--------------------|-----|------------------|-----------------|---------|------|----|-----|------|------|--------|
|                      |                    | iC  |                  | dm              | Dm mín. | f1   | h  | h1  | h2   | γn   |        |
|                      | 16                 | 3/8 | 266RKF-16-16     | 16              | 20      | 12.0 |    | 125 | 27.0 | -15° | 3.0    |
|                      |                    |     | 266R/LKF-20-16   | 20              | 25      | 14.0 | 18 | 250 | 29.0 | -15° | 3.0    |
|                      |                    |     | 266R/LKF-25-16   | 25              | 32      | 17.0 | 23 | 300 | 29.0 | -15° | 3.0    |
|                      |                    |     | 266R/LKF-32-16   | 32              | 40      | 22.0 | 30 | 250 | 30.9 | -15° | 3.0    |
|                      |                    |     | 266R/LKF-40-16   | 40              | 50      | 27.0 | 37 | 300 | 31.5 | -15° | 3.0    |
|                      |                    |     | 266R/LKF-50-16   | 50              | 63      | 35.0 | 49 | 350 | 40.2 | -15° | 3.0    |
|                      | 22                 | 1/2 | 266RKF-20-22     | 20              | 25      | 15.0 | 18 | 250 | 36.5 | -15° | 5.0    |
|                      |                    |     | 266R/LKF-25-22   | 25              | 32      | 19.0 | 23 | 300 | 34.6 | -15° | 5.0    |
|                      |                    |     | 266R/LKF-32-22   | 32              | 40      | 21.9 | 30 | 250 | 37.7 | -15° | 5.0    |
|                      |                    |     | 266R/LKF-40-22   | 40              | 50      | 26.9 | 37 | 300 | 38.2 | -15° | 5.0    |
|                      |                    |     | 266R/LKF-50-22   | 50              | 63      | 34.9 | 47 | 350 | 45.7 | -15° | 5.0    |
|                      | 27                 | 5/8 | 266R/LKF-40-27   | 40              | 50      | 26.9 | 37 | 300 | 47.2 | -10° | 7.5    |

1) Par torsor de la plaquita Nm

266R = A derecha, 266L = A izquierda

Ángulo de inclinación con distintas placas de apoyo, véase página C45.

## Piezas de repuesto principales

| Tamaño de plaquita |     |       | Tornillo de plaquita |                         | Llave (Torx Plus) |             | Placa de apoyo para portaherramientas interior a derecha | Placa de apoyo para portaherramientas interior a izquierda | Tornillo de la placa de apoyo |
|--------------------|-----|-------|----------------------|-------------------------|-------------------|-------------|----------------------------------------------------------|------------------------------------------------------------|-------------------------------|
|                    | iC  | dm    |                      |                         |                   |             | Ángulo de inclinación +1° 2)                             | Ángulo de inclinación +1° 2)                               |                               |
| 16                 | 3/8 | 16    | 5513 020-02          | 5680 049-05 (15IP/10IP) | -                 | -           | -                                                        | -                                                          | -                             |
| 16                 | 3/8 | 20-50 | 5513 020-13          | 5680 049-05 (15IP/10IP) | 5322 390-11       | 5322 389-11 | 5512 032-05                                              |                                                            |                               |
| 22                 | 1/2 | 20    | 5513 020-07          | 5680 043-14 (20IP)      | -                 | -           | -                                                        | -                                                          | -                             |
| 22                 | 1/2 | 25-50 | 5513 020-26          | 5680 043-14 (20IP)      | 5322 380-11       | 5322 379-11 | 5512 032-04                                              |                                                            |                               |
| 27                 | 5/8 | 40    | 5513 020-66          | 5680 043-15 (25IP)      | 5322 388-11       | 5322 387-11 | 5512 032-03                                              |                                                            |                               |

2) Para placas de apoyo opcionales, ver página C45.



J2



C35



C64



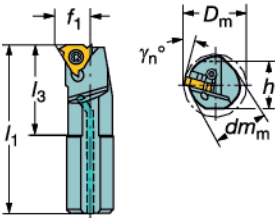
G6

Barras para mandrinar CoroThread™ 266

Diseño de sujeción por tornillo  
Suministro de refrigerante interior

Cilíndrico con planos

266R/LKF  
Cilíndrico con plano de apriete



|    | iC  | dm <sub>m</sub> pulg. | Ángulo de inclinación con distintas placas de apoyo, véase página C45. |
|----|-----|-----------------------|------------------------------------------------------------------------|
| 16 | 3/8 | .750-2.000            |                                                                        |
| 22 | 1/2 | 1.250-2.000           |                                                                        |
| 16 | 3/8 | .625                  | No se utilizan placas de apoyo                                         |

x y z, consulte las tablas de penetración en las páginas C70.

Versión en pulgadas

| Aplicación principal | Tamaño de plaquita |     | Código de pedido | Dimensiones, pulgadas |                     |                |       |                |                |                | p-lbs <sup>1)</sup> |
|----------------------|--------------------|-----|------------------|-----------------------|---------------------|----------------|-------|----------------|----------------|----------------|---------------------|
|                      |                    | iC  |                  | dm <sub>m</sub>       | D <sub>m</sub> mín. | f <sub>1</sub> | h     | h <sub>1</sub> | h <sub>2</sub> | γ <sup>o</sup> |                     |
|                      | 16                 | 3/8 | 266RKF-D10-3     | .625                  | .790                | .472           | .563  | 8              | 1.050          | -15°           | 2.2                 |
|                      |                    |     | 266R/LKF-D12-3   | .750                  | .980                | .551           | .709  | 10             | 1.140          | -15°           | 2.2                 |
|                      |                    |     | 266R/LKF-D16-3   | 1.000                 | 1.260               | .669           | .910  | 12             | 1.140          | -15°           | 2.2                 |
|                      |                    |     | 266R/LKF-D20-3   | 1.250                 | 1.580               | .866           | 1.181 | 14             | 1.220          | -15°           | 2.2                 |
|                      |                    |     | 266R/LKF-D24-3   | 1.500                 | 1.970               | 1.063          | 1.378 | 15             | 1.260          | -15°           | 2.2                 |
|                      |                    |     | 266R/LKF-D32-3   | 2.000                 | 2.480               | 1.378          | 1.874 | 16             | 1.580          | -15°           | 2.2                 |
|                      | 22                 | 1/2 | 266R/LKF-D20-4   | 1.250                 | 1.580               | .866           | 1.181 | 14             | 1.742          | -15°           | 3.7                 |
|                      |                    |     | 266R/LKF-D24-4   | 1.500                 | 1.970               | 1.063          | 1.378 | 15             | 2.012          | -15°           | 3.7                 |
|                      |                    |     | 266R/LKF-D32-4   | 2.000                 | 2.480               | 1.378          | 1.874 | 16             | 2.059          | -15°           | 3.7                 |

1) Par de apriete de la plaquita, ft-lbs.      266R = A derecha, 266L = A izquierda

Ángulo de inclinación con distintas placas de apoyo, véase página C45.

Piezas de repuesto principales

| Tamaño de plaquita |     |                 | Placa de apoyo para portaherramientas |                         |                                                          |                                                            |
|--------------------|-----|-----------------|---------------------------------------|-------------------------|----------------------------------------------------------|------------------------------------------------------------|
|                    | iC  | dm <sub>m</sub> | Tornillo de plaquita                  | Llave (Torx Plus)       | Placa de apoyo para portaherramientas interior a derecha | Placa de apoyo para portaherramientas interior a izquierda |
| 16                 | 3/8 | .625            | 5513 020-02                           | 5680 049-05 (15IP/10IP) | Ángulo de inclinación +1° 2)                             | Ángulo de inclinación +1° 2)                               |
| 16                 | 3/8 | .750-2.000      | 5513 020-13                           | 5680 049-05 (15IP/10IP) | 5322 390-11                                              | 5322 389-11                                                |
| 22                 | 1/2 | 1.250-2.000     | 5513 020-26                           | 5680 043-14 (20IP)      | 5322 380-11                                              | 5322 379-11                                                |

Tornillo de la placa de apoyo

2) Para placas de apoyo opcionales, ver página C45.



# Barras para mandrinar CoroThread™ 266

Diseño de sujeción por tornillo

Suministro de refrigerante interior

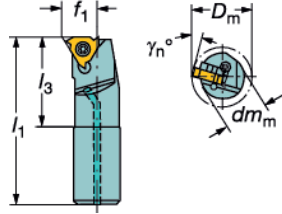
Cilíndrico con ranura para manguito EasyFix

**266R/LKF-R**

Cilíndrico con ranura para manguito EasyFix



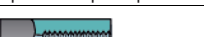
266 R/LL



|    |     | iC    | dm <sub>m</sub><br>mm | dm <sub>m</sub><br>pulg. | Ángulo de inclinación con distintas placas de apoyo, véase página C45. |
|----|-----|-------|-----------------------|--------------------------|------------------------------------------------------------------------|
| 16 | 3/8 | 20-25 | .750-1.000            |                          |                                                                        |
| 22 | 1/2 | 25    | 1.000                 |                          |                                                                        |
|    |     |       |                       |                          | No se utilizan placas de apoyo                                         |
| 16 | 3/8 | 16    | .625                  |                          |                                                                        |
| 22 | 1/2 | 20    | .750                  |                          |                                                                        |
|    |     |       |                       |                          | x y z, consulte las tablas de penetración en las páginas C70.          |

A derechas en la ilustración

## Versión métrica

|                                                                                   | Tamaño de<br>plaquita                                                             |     |                  | Dimensiones, mm |                             |       |       |      |            |                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|------------------|-----------------|-----------------------------|-------|-------|------|------------|-------------------|
| Aplicación principal                                                              |  | iC  | Código de pedido | $d_{m\text{m}}$ | $D_{\text{m}} \text{ mín.}$ | $f_i$ | $h_i$ | $b$  | $\gamma_m$ | Nm1 <sup>1)</sup> |
|  | 16                                                                                | 3/8 | 266RKF-16-16-R   | 16              | 20                          | 12.0  | 125   | 27.0 | -15°       | 3.0               |
|                                                                                   |                                                                                   |     | 266R/LKF-20-16-R | 20              | 25                          | 14.0  | 140   | 28.7 | -15°       | 3.0               |
|                                                                                   |                                                                                   |     | 266R/LKF-25-16-R | 25              | 32                          | 17.0  | 180   | 28.8 | -15°       | 3.0               |
|                                                                                   | 22                                                                                | 1/2 | 266RKF-20-22-R   | 20              | 25                          | 15.0  | 140   | 34.2 | -15°       | 5.0               |
|                                                                                   |                                                                                   |     | 266R/LKF-25-22-R | 25              | 32                          | 19.0  | 180   | 34.6 | -15°       | 5.0               |
|                                                                                   |                                                                                   |     |                  |                 |                             |       |       |      |            |                   |

## Versión en pulgadas

|                      | Tamaño de<br>plaquita |     |                   | Dimensiones, pulgadas |            |       |       |       |            |                            |
|----------------------|-----------------------|-----|-------------------|-----------------------|------------|-------|-------|-------|------------|----------------------------|
| Aplicación principal |                       | iC  | Código de pedido  | $dm_m$                | $D_m$ mín. | $f_i$ | $h_i$ | $b$   | $\gamma_n$ | pies-<br>lbs <sup>2)</sup> |
|                      | 16                    | 3/8 | 266RKF-D10-3-R    | .625                  | .790       | .472  | 8     | 1.050 | -15°       | 2.2                        |
|                      |                       |     | 266R/LKF-D12-3-R  | .750                  | .980       | .551  | 10    | 1.140 | -15°       | 2.2                        |
|                      |                       |     | 266R/LKF-D16-3-R  | 1.000                 | 1.260      | .669  | 12    | 1.140 | -15°       | 2.2                        |
|                      | 22                    | 1/2 | 266RKF-D12-4-R    | .750                  | .984       | .591  | 5.5   | 1.346 | -15°       | 3.7                        |
|                      |                       |     | 266R/LKF-D16-4-R  | 1.000                 | 1.260      | .669  | 12    | 1.341 | -15°       | 3.7                        |
|                      |                       |     | <b>Metal duro</b> |                       |            |       |       |       |            |                            |
|                      |                       | 16  | 3/8               | 266RKF-D12-3-RE       | .750       | .980  | .551  | 10    | 1.140      | -15°                       |

<sup>1)</sup> Par torsor de la plaquita Nm

<sup>2)</sup> Par de apriete de la plaquita, ft-lbs.

266R = A derecha, 266L = A izquierda

Ángulo de inclinación con distintas placas de apoyo, véase página C45.

## Piezas de repuesto principales

| Tamaño de plaquita |     |                       |                          | Tornillo de plaquita |                         | Placa de apoyo para portaherramientas interior a derecha |             | Placa de apoyo para portaherramientas interior a izquierda |             | Tornillo de la placa de apoyo |
|--------------------|-----|-----------------------|--------------------------|----------------------|-------------------------|----------------------------------------------------------|-------------|------------------------------------------------------------|-------------|-------------------------------|
|                    | iC  | dm <sub>m</sub><br>mm | dm <sub>m</sub><br>pulg. |                      | Llave (Torx Plus)       | Ángulo de inclinación +1° <sup>3)</sup>                  |             | Ángulo de inclinación +1° <sup>3)</sup>                    |             |                               |
| 16                 | 3/8 | 16                    | .625                     | 5513 020-02          | 5680 049-05 (15IP/10IP) | -                                                        | -           | -                                                          | -           | -                             |
| 16                 | 3/8 | 20-25                 | .750-1.000               | 5513 020-13          | 5680 049-05 (15IP/10IP) | 5322 390-11                                              | 5322 389-11 | 5322 389-11                                                | 5512 032-05 |                               |
| 22                 | 1/2 | 20                    | .750                     | 5513 020-07          | 5680 043-14 (20IP)      | -                                                        | -           | -                                                          | -           | -                             |
| 22                 | 1/2 | 25                    | 1.000                    | 5513 020-26          | 5680 043-14 (20IP)      | 5322 380-11                                              | 5322 379-11 | 5322 379-11                                                | 5512 032-04 |                               |

<sup>3)</sup> Para placas de apoyo opcionales, ver página C45.



J2



C35



C64



G6

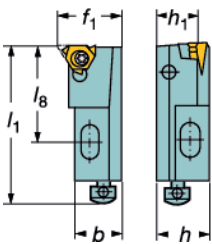
A Torneado general  
B Tronzado y ranurado  
C Roscado  
G Sistemas portaherramientas  
H Mecanizado Multi-tareas  
I CoroTurn® SL  
J Información general

Cartuchos CoroThread™ 266

Diseño de sujeción por tornillo



266 R/LL



|    |      |                                                                        |
|----|------|------------------------------------------------------------------------|
|    | $iC$ | Ángulo de inclinación con distintas placas de apoyo, véase página C45. |
| 16 | 3/8  |                                                                        |
| 22 | 1/2  |                                                                        |



x y z, consulte las tablas de penetración en las páginas C70.

A derechas en la ilustración

| Aplicación principal | Tamaño de plaquita |      | Código de pedido | Dimensiones, mm, pulgadas |      |       |       |      |       |            | Nm1)¹) |
|----------------------|--------------------|------|------------------|---------------------------|------|-------|-------|------|-------|------------|--------|
|                      |                    | $iC$ |                  | $D_m$ mín.                | $b$  | $f_1$ | $l_1$ | $h$  | $l_2$ | $\gamma_n$ |        |
|                      | 16                 | 3/8  | 266R/LKF-16CA-16 | 55                        | 19   | 25.0  | 63    | 21   | 38    | -15°       | 3.0    |
|                      |                    |      |                  | 2.165                     | .748 | .984  | 2.480 | .827 | 1.496 |            |        |
|                      | 22                 | 1/2  | 266R/LKF-20CA-22 | 60                        | 16   | 25.0  | 70    | 21   | 40    | -15°       | 5.0    |
|                      |                    |      |                  | 2.362                     | .630 | .984  | 2.756 | .827 | 1.575 |            |        |

1) Par torsor de la plaquita Nm

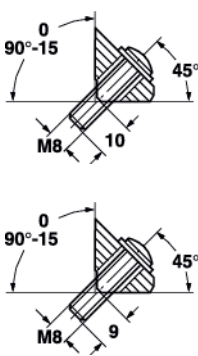
Ángulo de inclinación con distintas placas de apoyo, véase página C45.

Piezas de repuesto principales

| Tamaño de plaquita |      | Tornillo de plaquita |                         | Llave (Torx Plus) |  | Placa de apoyo para portaherramientas interior a derecha | Placa de apoyo para portaherramientas interior a izquierda | Tornillo de la placa de apoyo |
|--------------------|------|----------------------|-------------------------|-------------------|--|----------------------------------------------------------|------------------------------------------------------------|-------------------------------|
|                    | $iC$ |                      |                         |                   |  | Ángulo de inclinación +1° 2)                             | Ángulo de inclinación +1° 2)                               |                               |
| 16                 | 3/8  | 5513 020-13          | 5680 049-05 (15IP/10IP) | 5322 390-11       |  |                                                          | 5322 389-11                                                | 5512 032-05                   |
| 22                 | 1/2  | 5513 020-26          | 5680 043-14 (20IP)      | 5322 380-11       |  |                                                          | 5322 379-11                                                | 5512 032-04                   |

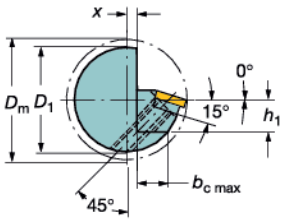
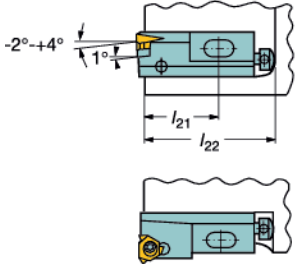
2) Para placas de apoyo opcionales, ver página C45.

Dimensiones de montaje para cartuchos



16CA

20CA



$$D_1 = 2 \sqrt{h_1^2 + (b_{C \max} + (-) x)^2}$$
$$x = \frac{D_m}{2} - f_1$$

Ángulo de inclinación de -2° a +4° con distintas placas de apoyo, véase página C45.

| Código de cartucho | Dimensiones, mm, pulgadas |            |      |               |          |       |            |
|--------------------|---------------------------|------------|------|---------------|----------|-------|------------|
|                    | $D_m$ mín.                | $D_1$ mín. | $x$  | $l_{21}$ mín. | $l_{22}$ | $h_1$ | $b_c$ máx. |
| 266R/LKF-16CA-16   | 55                        | 50         | 4.47 | 35            | 60       | 16    | 15         |
|                    | 2.165                     | 1.969      | .176 | 1.378         | 2.362    | .630  | .591       |
| 266R/LKF-20CA-22   | 60                        | 55         | 6.63 | 37            | 67       | 20    | 12.2       |
|                    | 2.362                     | 2.165      | .261 | 1.460         | 2.638    | .787  | .480       |



J2



C35



C64



G6

## Selección de placas de apoyo

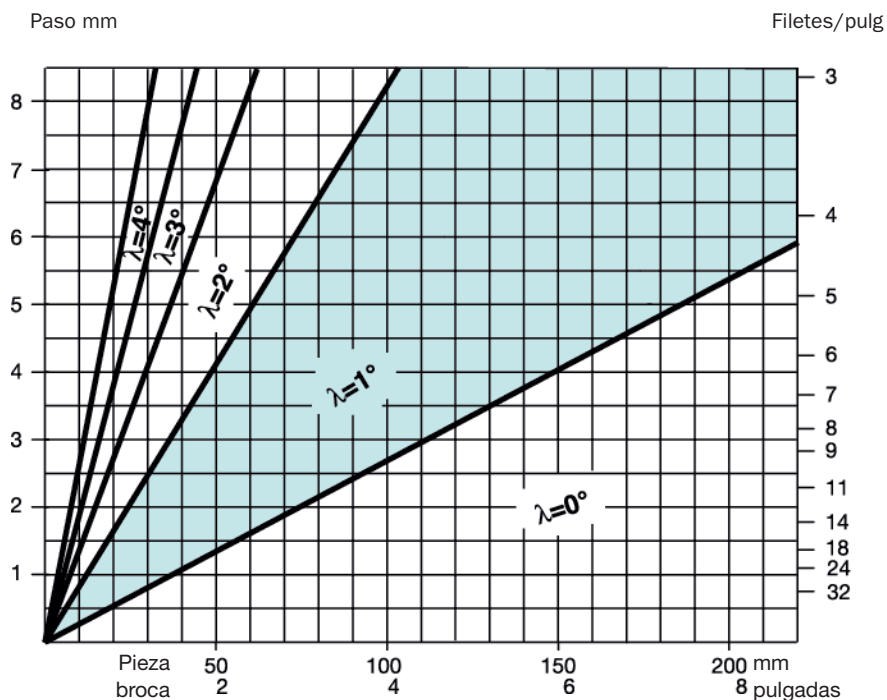
El ángulo de inclinación se calcula mediante esta fórmula:

$$\lambda = \tan^{-1} \left( \frac{P}{d_2 \times \pi} \right)$$

P = Paso

$d_2$  = Diámetro efectivo de la rosca

$\lambda$  = Ángulo de inclinación



| Gama de pasos    | Tamaño de plaquita                                                                       | Ángulo de inclinación                    | Placas de apoyo                                                                                                                                                     |                                                                                                                                                                       |
|------------------|------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mm (TPI)         |  $iC$ |                                          | <br>Para herramienta exterior a derecha<br>Para herramienta interior a izquierda | <br>Para herramienta exterior a izquierda<br>Para herramienta interior a derecha |
| 0.5-3.0 (32-6)   | 16 3/8                                                                                   | -2°<br>-1°<br>0°<br>1°<br>2°<br>3°<br>4° | 5322 389-22<br>5322 389-21<br>5322 389-10<br>5322 389-11 <sup>1)</sup><br>5322 389-12<br>5322 389-13<br>5322 389-14                                                 | 5322 390-22<br>5322 390-21<br>5322 390-10<br>5322 390-11 <sup>1)</sup><br>5322 390-12<br>5322 390-13<br>5322 390-14                                                   |
| 2.5-7.0 (11.5-4) | 22 1/2                                                                                   | -2°<br>-1°<br>0°<br>1°<br>2°<br>3°<br>4° | 5322 379-22<br>5322 379-21<br>5322 379-10<br>5322 379-11 <sup>1)</sup><br>5322 379-12<br>5322 379-13<br>5322 379-14                                                 | 5322 380-22<br>5322 380-21<br>5322 380-10<br>5322 380-11 <sup>1)</sup><br>5322 380-12<br>5322 380-13<br>5322 380-14                                                   |
| 8.0 (5-3)        | 27 5/8                                                                                   | 0°<br>1°<br>2°<br>3°<br>4°               | 5322 387-10<br>5322 387-11 <sup>1)</sup><br>5322 387-12<br>5322 387-13<br>5322 387-14                                                                               | 5322 388-10<br>5322 388-11 <sup>1)</sup><br>5322 388-12<br>5322 388-13<br>5322 388-14                                                                                 |

<sup>1)</sup> Se suministra con la herramienta.

### Nota.

Las dos últimas cifras en el código de la placa de apoyo indican + o - , y el ángulo de inclinación efectivo con la placa de apoyo montada en el portaplaquitas, por ejemplo 5322 379-11 = ángulo + 1° y 5322 379-21 = ángulo - 1°.

Selección de placas de apoyo

| H.P.P. | Ángulo de inclinación          |           |           |            |        |
|--------|--------------------------------|-----------|-----------|------------|--------|
|        | 4°                             | 3°        | 2° (-2°)  | 1° (-1°)   | 0°     |
|        | Diámetro de la rosca, pulgadas |           |           |            |        |
| 32     | <.16                           | .16-.23   | .23-.38   | .38-1.14   | >1.14  |
| 28     | <.16                           | .16-.26   | .26-.43   | .43-1.30   | >1.30  |
| 24     | <.22                           | .22-.30   | .30-.51   | .51-1.52   | >1.52  |
| 20     | <.26                           | .26-.36   | .36-.61   | .61-1.82   | >1.82  |
| 18     | <.29                           | .29-.40   | .40-.68   | .68-2.03   | >2.03  |
| 16     | <.33                           | .33-.46   | .46-.76   | .76-2.28   | >2.28  |
| 14     | <.37                           | .37-.52   | .52-.87   | .87-2.61   | >2.61  |
| 13     | <.40                           | .40-.56   | .56-.94   | .94-2.81   | >2.81  |
| 12     | <.43                           | .43-.61   | .61-1.01  | 1.01-3.04  | >3.04  |
| 11     | <.47                           | .47-.66   | .66-1.11  | 1.11-3.32  | >3.32  |
| 10     | <.52                           | .52-.73   | .73-1.22  | 1.22-3.65  | >3.65  |
| 9      | <.58                           | .58-.81   | .81-1.35  | 1.35-4.05  | >4.05  |
| 8      | <.65                           | .65-.91   | .91-1.52  | 1.52-4.56  | >4.56  |
| 7      | <.74                           | .74-1.04  | 1.04-1.74 | 1.74-5.21  | >5.21  |
| 6      | <.87                           | .87-1.22  | 1.22-2.03 | 2.03-6.08  | >6.08  |
| 5      | <1.04                          | 1.04-1.46 | 1.46-2.43 | 2.43-7.30  | >7.30  |
| 4      | <1.30                          | 1.30-1.82 | 1.82-3.04 | 3.04-9.12  | >9.12  |
| 3      | <1.74                          | 1.74-2.43 | 2.43-4.05 | 4.05-12.15 | >12.15 |

P = Paso  
d2= Diámetro efectivo de la rosca  
λ = Ángulo de inclinación

| Paso, mm | Ángulo de inclinación          |           |           |            |        |
|----------|--------------------------------|-----------|-----------|------------|--------|
|          | 4°                             | 3°        | 2° (-2°)  | 1° (-1°)   | 0°     |
|          | Diámetro de la rosca, pulgadas |           |           |            |        |
| 0.50     | <.10                           | .10-.14   | .14-.72   | .24-.72    | >.72   |
| 0.75     | <.15                           | .15-.22   | .22-.36   | .36-1.08   | >1.08  |
| 1.00     | <.20                           | .20-.29   | .29-.48   | .48-1.44   | >1.44  |
| 1.25     | <.26                           | .26-.36   | .36-.60   | .60-1.80   | >1.80  |
| 1.50     | <.31                           | .31-.43   | .43-.72   | .72-2.15   | >2.15  |
| 1.75     | <.36                           | .36-.50   | .50-.84   | .84-2.51   | >2.51  |
| 2.00     | <.41                           | .41-.57   | .57-.96   | .96-2.87   | >2.87  |
| 2.50     | <.51                           | .51-.72   | .72-1.20  | 1.20-3.59  | >3.59  |
| 3.00     | <.62                           | .62-.86   | .86-1.44  | 1.44-4.31  | >4.31  |
| 3.50     | <.72                           | .72-1.00  | 1.00-1.68 | 1.68-5.03  | >5.03  |
| 4.00     | <.82                           | .82-1.15  | 1.15-1.92 | 1.92-5.74  | >5.74  |
| 4.50     | <.92                           | .92-1.29  | 1.29-2.15 | 2.15-6.46  | >6.46  |
| 5.00     | <1.02                          | 1.02-1.44 | 1.44-2.39 | 2.39-7.18  | >7.18  |
| 5.50     | <1.13                          | 1.13-1.58 | 1.58-2.63 | 2.63-7.90  | >7.90  |
| 6.00     | <1.23                          | 1.23-1.72 | 1.72-2.87 | 2.87-8.62  | >8.62  |
| 7.00     | <1.26                          | 1.26-2.00 | 2.00-3.35 | 3.35-10.04 | >10.04 |
| 8.00     | <1.64                          | 1.64-2.30 | 2.30-3.83 | 3.83-11.84 | >11.84 |

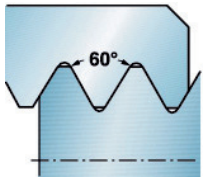
El ángulo de inclinación se calcula mediante esta fórmula:

$$\lambda=\tan^{-1}\left(\frac{P}{d_2\times\pi}\right)$$

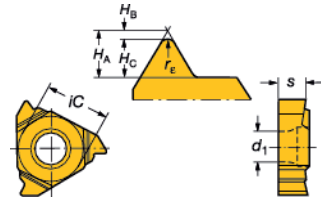


## Perfil en V 60° Sin rectificación periférica

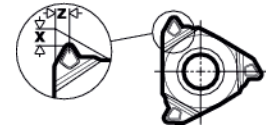
P M K N S H



$$H_C = H_A - H_B$$



Tipo mostrado: A derecha, exterior A izquierda, interior



x = 0.68 mm (.0268 pulgadas)  
z = 0.9 mm (.0354 pulgadas)

Dimensiones, mm (pulg.)

|    | iC  | Paso, mm | Paso, TPI | iC mm | d <sub>1</sub> | s           |
|----|-----|----------|-----------|-------|----------------|-------------|
| 11 | 1/4 | 1.0-2.0  | 24-12     | 6.35  | 2.8 (.110)     | 3.17 (.125) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

### Interior

Para áreas de aplicación ISO, ver final de la tabla.

|    | iC  | Paso, mm | Paso, TPI | Código de pedido   | Dimensiones, mm, pulgadas |                    |                   |                    |                   |                      | P M K N S H |      |      |      |      |      |
|----|-----|----------|-----------|--------------------|---------------------------|--------------------|-------------------|--------------------|-------------------|----------------------|-------------|------|------|------|------|------|
|    |     |          |           |                    | H <sub>A</sub> mm         | H <sub>A</sub> in. | H <sub>B</sub> mm | H <sub>B</sub> in. | r <sub>e</sub> mm | r <sub>e</sub> pulg. | GC          | GC   | GC   | GC   | GC   | GC   |
|    |     |          |           |                    |                           |                    |                   |                    |                   |                      | 1020        | 4125 | 1020 | 4125 | 1020 | 4125 |
| 11 | 1/4 | 1-2.00   | 24-12     | R166.0L-11VM01-001 | 1.45                      | .0571              | 0.06              | .0024              | 0.06              | .0024                | ★           | ☆    | ★    | ☆    | ★    | ☆    |
|    |     |          |           | L166.0L-11VM01-001 |                           |                    |                   |                    |                   |                      | ★           |      | ★    |      | ★    |      |
|    |     |          |           | R166.0L-11VM01C001 |                           |                    |                   |                    |                   |                      | ★           |      | ★    |      | ★    |      |
|    |     |          |           |                    |                           |                    |                   |                    |                   |                      | P20         | P20  | M20  | M20  | K15  | N25  |
|    |     |          |           |                    |                           |                    |                   |                    |                   |                      | 1020        | 4125 | 1020 | 4125 | 1020 | 4125 |
|    |     |          |           |                    |                           |                    |                   |                    |                   |                      | ★           | ☆    | ★    | ☆    | ★    | ☆    |
|    |     |          |           |                    |                           |                    |                   |                    |                   |                      | S20         | S20  | S20  | S20  | H20  | H20  |
|    |     |          |           |                    |                           |                    |                   |                    |                   |                      | 1020        | 4125 | 1020 | 4125 | 1020 | 4125 |

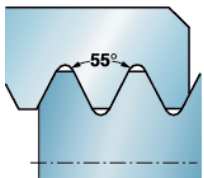
1) Para un soporte máximo, utilizar una placa de apoyo reforzada,

R = A Derecha, L = A Izquierda

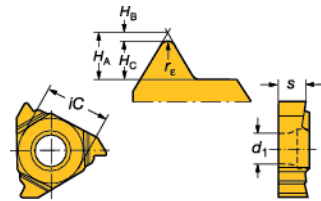
★ = Primera elección

## Perfil en V 55° Sin rectificación periférica

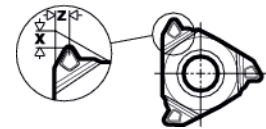
P M K N S H



$$H_C = H_A - H_B$$



Tipo mostrado: A derecha, exterior A izquierda, interior



x = 0.68 mm (.0268 pulgadas)  
z = 0.9 mm (.0354 pulgadas)

Dimensiones, mm (pulg.)

|    | iC  | Paso, TPI | iC mm | d <sub>1</sub> | s           |
|----|-----|-----------|-------|----------------|-------------|
| 11 | 1/4 | 28-14     | 6.35  | 2.8 (.110)     | 3.17 (.125) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

### Interior

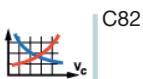
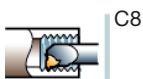
Para áreas de aplicación ISO, ver final de la tabla.

| Para áreas de aplicación ISO, ver final de la tabla.                                |     |           |                    |                           |              |             |              |             |                |      |      |      |      |      |      |      |
|-------------------------------------------------------------------------------------|-----|-----------|--------------------|---------------------------|--------------|-------------|--------------|-------------|----------------|------|------|------|------|------|------|------|
|  | iC  | Paso, TPI | Código de pedido   | Dimensiones, mm, pulgadas |              |             |              |             |                | P    | M    | K    | N    | S    | H    |      |
|                                                                                     |     |           |                    | $H_A$<br>mm               | $H_A$<br>in. | $H_B$<br>mm | $H_B$<br>in. | $r_e$<br>mm | $r_e$<br>pulg. | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                     |     |           |                    |                           |              |             |              |             |                | GC   | GC   | GC   | GC   | GC   | GC   | GC   |
|                                                                                     |     |           |                    |                           |              |             |              |             |                | 1020 | 4125 | 1020 | 4125 | 1020 | 4125 | 1020 |
| 11                                                                                  | 1/4 | 28-14     | R166.0L-11VW01-001 | 1.60                      | .0630        | 0.12        | .0047        | 0.11        | .0043          | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |
|                                                                                     |     |           | L166.0L-11VW01-001 |                           |              |             |              |             |                | ★    |      | ★    |      | ★    |      |      |
|                                                                                     |     |           |                    |                           |              |             |              |             |                | P20  | P20  | M20  | M20  | K15  | N25  |      |
|                                                                                     |     |           |                    |                           |              |             |              |             |                | S20  | S20  | S20  | S20  | H20  | H20  |      |
|                                                                                     |     |           |                    |                           |              |             |              |             |                | 1020 | 4125 | 1020 | 4125 | 1020 | 4125 |      |
|                                                                                     |     |           |                    |                           |              |             |              |             |                | ★    | ☆    | ★    | ☆    | ★    | ☆    |      |

1) Para un soporte máximo, utilizar una placa de apoyo reforzada,

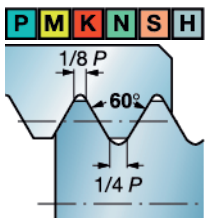
R = A Derecha, L = A Izquierda

★ = Primera elección

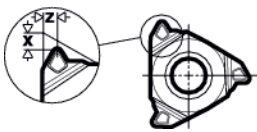
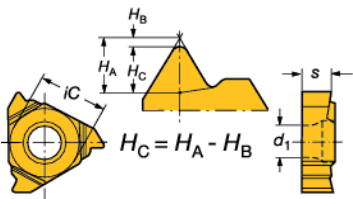


Métrico 60° Perfil completo

Roscas para uso general en todos los segmentos de la industria de fabricación.



Un diente



ISO 965-1998 Tolerancia tipo 6

Tipo mostrado: A derecha, exterior A izquierda, interior

Dimensiones, mm (pulg.)

|    | iC  | Paso, mm | iC mm | d <sub>1</sub> | s           |
|----|-----|----------|-------|----------------|-------------|
| 11 | 1/4 | 0.5-2.0  | 6.35  | 2.8 (.110)     | 3.17 (.125) |



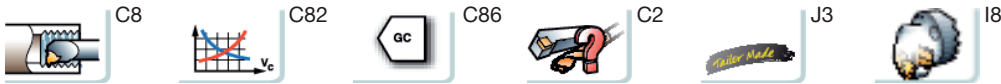
¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

Interior

Para áreas de aplicación ISO, ver final de la tabla.

|  | iC  | Paso, mm | Código de pedido     | Dimensiones, milímetros, pulgadas (mm, pulg.) |                       |                      |                       |      |         |      |         | P    |      | M    |      | K    |      | N    |      | S    |      | H |  |
|----------------------------------------------------------------------------------|-----|----------|----------------------|-----------------------------------------------|-----------------------|----------------------|-----------------------|------|---------|------|---------|------|------|------|------|------|------|------|------|------|------|---|--|
|                                                                                  |     |          |                      | H <sub>A</sub><br>mm                          | H <sub>A</sub><br>in. | H <sub>B</sub><br>mm | H <sub>B</sub><br>in. | x mm | x pulg. | z mm | z pulg. | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   | GC   |   |  |
|                                                                                  |     |          |                      |                                               |                       |                      |                       |      |         |      |         | 1020 | 4125 | 1020 | 4125 | 1020 | 4125 | 1020 | 4125 | 1020 | 4125 |   |  |
| 11                                                                               | 1/4 | 0.50     | R/L166.0L-11MM01-050 | 0.32                                          | .0126                 | 0.03                 | .0012                 | 0.68 | .0268   | 0.5  | .0197   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |   |  |
|                                                                                  |     | 0.75     | R/L166.0L-11MM01-075 | 0.47                                          | .0185                 | 0.04                 | .0016                 | 0.68 | .0268   | 0.6  | .0236   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |   |  |
|                                                                                  |     | 1.00     | R166.0L-11MM01-100   | 0.64                                          | .0252                 | 0.06                 | .0024                 | 0.68 | .0268   | 0.8  | 0.315   | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |   |  |
|                                                                                  |     |          | L166.0L-11MM01-100   |                                               |                       |                      |                       |      |         |      |         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |   |  |
|                                                                                  |     | 1.25     | R/L166.0L-11MM01-125 | 0.79                                          | .0311                 | 0.07                 | .0028                 | 0.68 | .0268   | 0.8  | .0314   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |   |  |
|                                                                                  |     | 1.50     | R166.0L-11MM01-150   | 0.96                                          | .0378                 | 0.09                 | .0035                 | 0.68 | .0268   | 1.1  | .0433   | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    | ★    | ☆    |   |  |
|                                                                                  |     |          | L166.0L-11MM01-150   |                                               |                       |                      |                       |      |         |      |         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |   |  |
|                                                                                  |     | 1.75     | R/L166.0L-11MM01-175 | 1.11                                          | .0437                 | 0.11                 | .0043                 | 0.68 | .0268   | 1.05 | .0413   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |   |  |
|                                                                                  |     | 2.00     | R166.0L-11MM01-200   | 1.27                                          | .0500                 | 0.12                 | .0047                 | 0.58 | .0228   | 0.92 | .0362   | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ☆    | ★    | ☆    |   |  |
|                                                                                  |     |          | L166.0L-11MM01-200   |                                               |                       |                      |                       |      |         |      |         | ★    | ★    | ★    | ★    | ★    | ★    | ★    | ★    |      |      |   |  |
|                                                                                  |     |          |                      |                                               |                       |                      |                       |      |         |      |         | P20  | P20  | M20  | M20  | K15  | K15  | N25  | S20  | S20  | H20  |   |  |

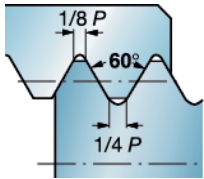
R = A Derecha, L = A Izquierda  
★ = Primera elección



## UN 60° Perfil completo

Roscas para uso general en todos los segmentos de la industria de fabricación.

**P M K N S H**

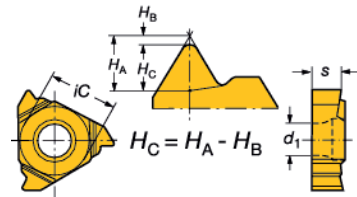


ISO 5864-1978

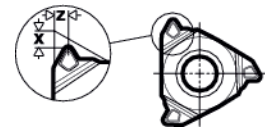
Tolerancia clase 2B, int.

Tolerancia clase 2A, ext.

Un diente



Tipo mostrado: A derecha, exterior A izquierda, interior



Dimensiones, mm (pulg.)

| $iC$ | Paso, TPI | $iC$ mm | $d_1$ | s                      |
|------|-----------|---------|-------|------------------------|
| 11   | 1/4       | 32-14   | 6.35  | 2.8 (.110) 3.17 (.125) |

*Tailor Made*

¡Aún más posibilidades gracias al diseño A la Medida! Ver página B 17.

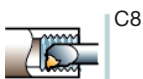
Interior

Para áreas de aplicación ISO, ver final de la tabla.

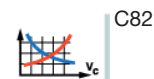
|  | iC  | Paso, TPI | Código de pedido     | Dimensiones, milímetros, pulgadas (mm, pulg.) |              |             |              |      |         |      |         | <b>P M K N S H</b> |      |      |      |      |      |
|-----------------------------------------------------------------------------------|-----|-----------|----------------------|-----------------------------------------------|--------------|-------------|--------------|------|---------|------|---------|--------------------|------|------|------|------|------|
|                                                                                   |     |           |                      | $H_A$<br>mm                                   | $H_A$<br>in. | $H_B$<br>mm | $H_B$<br>in. | x mm | x pulg. | z mm | z pulg. | GC                 | GC   | GC   | GC   | GC   | GC   |
|                                                                                   |     |           |                      |                                               |              |             |              |      |         |      |         | 1020               | 1020 | 1020 | 1020 | 1020 | 1020 |
| 11                                                                                | 1/4 | 32        | R/L166.0L-11UN01-320 | 0.50                                          | .0197        | 0.04        | .0016        | 0.68 | .0268   | 0.6  | .0236   | ★                  | ★    | ★    | ★    | ★    | ★    |
|                                                                                   |     | 28        | R/L166.0L-11UN01-280 | 0.58                                          | .0228        | 0.05        | .0020        |      |         | 0.8  | .0315   | ★                  | ★    | ★    | ★    | ★    | ★    |
|                                                                                   |     | 24        | R/L166.0L-11UN01-240 | 0.67                                          | .0264        | 0.06        | .0024        |      |         | 0.85 | .0335   | ★                  | ★    | ★    | ★    | ★    | ★    |
|                                                                                   |     | 20        | R/L166.0L-11UN01-200 | 0.80                                          | .0315        | 0.07        | .0028        |      |         | 0.9  | .0354   | ★                  | ★    | ★    | ★    | ★    | ★    |
|                                                                                   |     | 18        | R/L166.0L-11UN01-180 | 0.89                                          | .0350        | 0.08        | .0031        |      |         | 1.0  | .0394   | ★                  | ★    | ★    | ★    | ★    | ★    |
|                                                                                   |     | 16        | R/L166.0L-11UN01-160 | 1.00                                          | .0394        | 0.09        | .0035        |      |         | 1.0  | .0394   | ★                  | ★    | ★    | ★    | ★    | ★    |
|                                                                                   |     | 14        | R/L166.0L-11UN01-140 | 1.13                                          | .0445        | 0.11        | .0043        |      |         | 1.05 | .0413   | ★                  | ★    | ★    | ★    | ★    | ★    |
|                                                                                   |     |           |                      |                                               |              |             |              |      |         |      |         | P20                | M20  | K15  | N25  | S20  | H20  |

R = A Derecha, L = A Izquierda

★ = Primera elección



C8



C82



C86



C2



J3



I8



## Unidades de corte T-Max U-Lock® Coromant Capto®

## Diseño de brida cuña

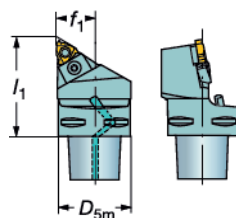


266 R/LG

Para utilizar con plaquitas  
CoroThread 266

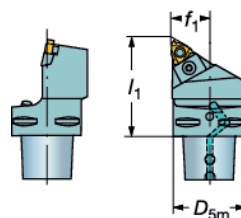
Roscado de piezas delgadas y contra el centro

Cx-R/L166.5FA



Cx-R/L166.5FAZ

Para montaje hacia abajo



|    |      |                                                                        |
|----|------|------------------------------------------------------------------------|
|    | $iC$ | Ángulo de inclinación con distintas placas de apoyo, véase página C45. |
| 16 | 3/8  |                                                                        |



x y z, consulte las tablas de penetración en las páginas C70.

A derechas en la ilustración

| Aplicación principal | Tamaño de plaquita |      | Código de pedido       | Dimensiones, milímetros, pulgadas (mm, pulg.) |                   |             |                |             |                | Nm <sup>1)</sup> |
|----------------------|--------------------|------|------------------------|-----------------------------------------------|-------------------|-------------|----------------|-------------|----------------|------------------|
|                      |                    | $iC$ |                        | $D_{5m}$<br>mm                                | $D_{5m}$<br>pulg. | $f_1$<br>mm | $f_1$<br>pulg. | $h_1$<br>mm | $h_1$<br>pulg. |                  |
|                      | 16                 | 3/8  | C3-R/L166.5FA-17039-16 | 32                                            | 1.260             | 17          | .669           | 39          | 1.535          | 1.7              |
|                      |                    |      | C4-R/L166.5FA-21055-16 | 40                                            | 1.575             | 21          | .827           | 55          | 2.165          | 1.7              |
|                      |                    |      | C5-R/L166.5FA-26065-16 | 50                                            | 1.968             | 26          | 1.024          | 65          | 2.559          | 1.7              |
|                      |                    |      | C6-R/L166.5FA-33075-16 | 63                                            | 2.480             | 33          | 1.299          | 75          | 2.953          | 1.7              |
|                      |                    |      |                        |                                               |                   |             |                |             |                |                  |
|                      | 16                 | 3/8  | C3-R166.5FAZ17039-16   | 32                                            | 1.260             | 17          | .669           | 39          | 1.535          | 1.7              |
|                      |                    |      | C4-R166.5FAZ21055-16   | 40                                            | 1.575             | 21          | .827           | 55          | 2.165          | 1.7              |
|                      |                    |      | C5-R166.5FAZ26065-16   | 50                                            | 1.968             | 26          | 1.024          | 65          | 2.559          | 1.7              |
|                      |                    |      | C6-R166.5FAZ33075-16   | 63                                            | 2.480             | 33          | 1.299          | 75          | 2.953          | 1.7              |
|                      |                    |      |                        |                                               |                   |             |                |             |                |                  |

<sup>1)</sup> Par torsor de la plaquita Nm

R = A Derecha, L = A Izquierda

## Piezas de repuesto principales

| Tamaño de plaquita |      | Placas de apoyo <sup>1)</sup><br>Ángulo de inclinación +1° |                 |                   |             |             |
|--------------------|------|------------------------------------------------------------|-----------------|-------------------|-------------|-------------|
|                    | $iC$ | Juego de cuña                                              | Pasador central | Llave (Torx Plus) | A derecha   | A izquierda |
| 16                 | 3/8  | 5431 126-011                                               | 5313 033-01     | 5680 051-03 (9IP) | 5322 371-11 | 5322 372-11 |

<sup>1)</sup> Para placas de apoyo opcionales, ver página C57.



C4



C52



C65



G6



C2



J2

# Herramientas con mango T-Max U-Lock®

## Diseño de brida cuña

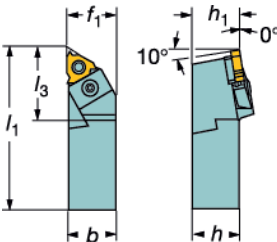
### Roscado de piezas delgadas y contra el centro



**266 R/LG**

Para utilizar con plaquitas CoroThread 266

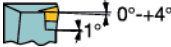
**R/L166.5FA**





Ángulo de inclinación con distintas placas de apoyo, véase página C45.

16 3/8



0°-4°

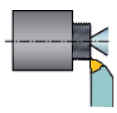


x y z, consulte las tablas de penetración en las páginas C70.

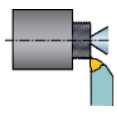
Roscado de piezas delgadas y contra el centro

A derechas en la ilustración

### Versión métrica

| Aplicación principal                                                             | Tamaño de plaquita                                                                |     | Gama de pasos |        | Código de pedido   | Calidades Coromant |                |    |                |                |                | Nm <sup>1)</sup> |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|---------------|--------|--------------------|--------------------|----------------|----|----------------|----------------|----------------|------------------|
|                                                                                  |  | iC  | mm            | H.P.P. |                    | b                  | f <sub>1</sub> | h  | h <sub>1</sub> | l <sub>1</sub> | l <sub>2</sub> |                  |
|  | 16                                                                                | 3/8 | 0.5-3.0       | 32-6   | R/L166.5FA-1212-16 | 12                 | 12.5           | 12 | 12             | 80             | 30.4           | 1.7              |
|                                                                                  |                                                                                   |     |               |        | R/L166.5FA-1616-16 | 16                 | 16.5           | 16 | 16             | 100            | 30.4           | 1.7              |
|                                                                                  |                                                                                   |     |               |        | R/L166.5FA-2020-16 | 20                 | 20.5           | 20 | 20             | 125            | 30.4           | 1.7              |
|                                                                                  |                                                                                   |     |               |        | R/L166.5FA-2525-16 | 25                 | 25.5           | 25 | 25             | 150            | 30.4           | 1.7              |

### Versión en pulgadas

| Aplicación principal                                                               | Tamaño de plaquita                                                                  |     | Gama de pasos |        | Código de pedido | Dimensiones, pulgadas |                |       |                |                |                | pies-lbs <sup>2)</sup> |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|---------------|--------|------------------|-----------------------|----------------|-------|----------------|----------------|----------------|------------------------|
|                                                                                    |  | iC  | mm            | H.P.P. |                  | b                     | f <sub>1</sub> | h     | h <sub>1</sub> | l <sub>1</sub> | l <sub>2</sub> |                        |
|  | 16                                                                                  | 3/8 | 0.5-3.0       | 32-6   | R166.5FA-083     | .500                  | .520           | .500  | .500           | 3.500          | 1.200          | 0.9                    |
|                                                                                    |                                                                                     |     |               |        | R/L166.5FA-103   | .625                  | .645           | .625  | .625           | 4.000          | 1.200          | 0.9                    |
|                                                                                    |                                                                                     |     |               |        | R/L166.5FA-123B  | .750                  | .770           | .750  | .750           | 4.500          | 1.200          | 0.9                    |
|                                                                                    |                                                                                     |     |               |        | R/L166.5FA-163D  | 1.000                 | 1.020          | 1.000 | 1.000          | 6.000          | 1.200          | 0.9                    |
|                                                                                    |                                                                                     |     |               |        | R166.5FA-203D    | 1.250                 | 1.289          | 1.250 | 1.250          | 6.000          | 1.200          | 0.9                    |

1) Par torsor de la plaquita Nm  
2) Par de apriete de la plaquita, ft-lbs.

R = A Derecha, L = A Izquierda

### Piezas de repuesto principales

| Tamaño de plaquita                                                                 |     |               |                 |                   | Placa de apoyo <sup>3)</sup> |             |
|------------------------------------------------------------------------------------|-----|---------------|-----------------|-------------------|------------------------------|-------------|
|  | iC  | Juego de cuña | Pasador central | Llave (Torx Plus) | Ángulo de inclinación +1°    |             |
| 16                                                                                 | 3/8 | 5431 126-011  | 5313 033-01     | 5680 051-03 (9IP) | A derecha                    | A izquierda |
|                                                                                    |     |               |                 |                   | 5322 371-11                  | 5322 372-11 |

3) Para placas de apoyo opcionales, ver página C57.



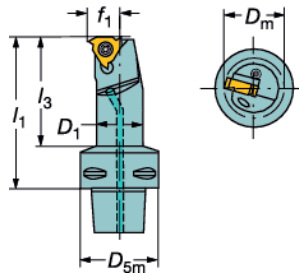
# Unidades de corte T-Max U-Lock® Coromant Capto®

Diseño de sujeción por tornillo

Barra de acero con suministro de fluido de corte interior



166.0L,  
154.0G<sup>1)</sup>



|    |           |  |                                 |
|----|-----------|--|---------------------------------|
|    | <i>iC</i> |  | No se utilizan placas de apoyo. |
| 11 | 1/4       |  |                                 |



Valores de x y z, véanse las páginas de plaquitas T-Max U-Lock en C70.

A derechas en la ilustración

| Aplicación principal | Tamaño de |           | Gama de pasos |        | Código de pedido       | Dimensiones, mm, pulgadas |                            |                        |                       |                       |                       | Nm <sup>1)</sup> |
|----------------------|-----------|-----------|---------------|--------|------------------------|---------------------------|----------------------------|------------------------|-----------------------|-----------------------|-----------------------|------------------|
|                      |           | <i>iC</i> | mm            | H.P.P. |                        | <i>D</i> <sub>1</sub>     | <i>D</i> <sub>m</sub> mín. | <i>D</i> <sub>5m</sub> | <i>f</i> <sub>1</sub> | <i>l</i> <sub>1</sub> | <i>l</i> <sub>3</sub> |                  |
|                      | 11        | 1/4       | 0.5-2.0       | 32-12  | C3-R/L166.0KF-12050-11 | 16.0                      | 20                         | 32                     | 12                    | 50                    | 33                    | 0.9              |
|                      |           |           |               |        |                        | .630                      | .787                       | 1.260                  | .472                  | 1.969                 | 1.299                 | 0.9              |
|                      |           |           |               |        | C4-R/L166.0KF-12060-11 | 16.0                      | 20                         | 40                     | 12                    | 60                    | 37                    | 0.9              |
|                      |           |           |               |        |                        | .630                      | .787                       | 1.575                  | .472                  | 2.362                 | 1.457                 | 0.9              |

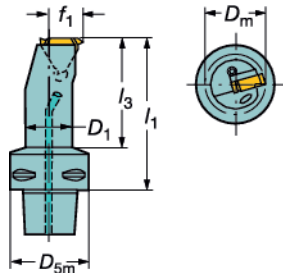
<sup>1)</sup> Par torsor de la plaquita Nm

R = A Derecha, L = A Izquierda

## Para montaje hacia abajo



166.0L,  
154.0G<sup>1)</sup>



|    |           |  |                                 |
|----|-----------|--|---------------------------------|
|    | <i>iC</i> |  | No se utilizan placas de apoyo. |
| 11 | 1/4       |  |                                 |



Valores de x y z, véanse las páginas de plaquitas T-Max U-Lock en C70.

A derechas en la ilustración

| Aplicación principal | Tamaño de |           | Gama de pasos |        | Código de pedido     | Dimensiones, mm, pulgadas |                            |                        |                       |                       |                       | Nm <sup>1)</sup> |
|----------------------|-----------|-----------|---------------|--------|----------------------|---------------------------|----------------------------|------------------------|-----------------------|-----------------------|-----------------------|------------------|
|                      |           | <i>iC</i> | mm            | H.P.P. |                      | <i>D</i> <sub>1</sub>     | <i>D</i> <sub>m</sub> mín. | <i>D</i> <sub>5m</sub> | <i>f</i> <sub>1</sub> | <i>l</i> <sub>1</sub> | <i>l</i> <sub>3</sub> |                  |
|                      | 11        | 1/4       | 0.5-2.0       | 32-12  | C3-R166.0KFZ12050-11 | 16.0                      | 20                         | 32                     | 12                    | 50                    | 33                    | 0.9              |
|                      |           |           |               |        |                      | .630                      | .787                       | 1.260                  | .472                  | 1.969                 | 1.299                 | 0.9              |
|                      |           |           |               |        | C4-R166.0KFZ12060-11 | 16.0                      | 20                         | 40                     | 12                    | 60                    | 37                    | 0.9              |
|                      |           |           |               |        |                      | .630                      | .787                       | 1.575                  | .472                  | 2.362                 | 1.457                 | 0.9              |

<sup>1)</sup> Par torsor de la plaquita Nm

R = A Derecha, L = A Izquierda

## Piezas de repuesto principales

| Tamaño de plaquita |           |                       |  | Tornillo de plaquita Llave (Torx Plus) |                   |
|--------------------|-----------|-----------------------|--|----------------------------------------|-------------------|
|                    | <i>iC</i> | <i>D</i> <sub>1</sub> |  |                                        |                   |
| 11                 | 1/4       | .630                  |  | 5513 020-03                            | 5680 051-02 (7IP) |



C4



C55



C66



G6



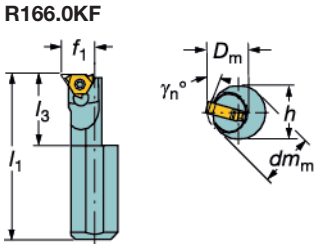
C2



J2

Barras de mandrinado T-Max U-Lock®

Diseño de sujeción por tornillo  
Cilíndrico con plano de apriete





$iC$

1/4



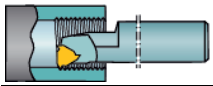
No se utilizan placas de apoyo.



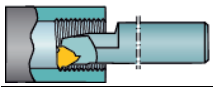
Valores de x y z, véanse las páginas de plaquitas T-Max U-Lock en C70.

A derechas en la ilustración

Versión métrica

| Aplicación principal                                                             |  | $iC$ | Gama de pasos |        | Código de pedido       | Dimensiones, mm |            |       |     |       |       |            | Nm <sup>1)</sup> |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|---------------|--------|------------------------|-----------------|------------|-------|-----|-------|-------|------------|------------------|
|                                                                                  |                                                                                   |      | mm            | H.P.P. |                        | $dm_m$          | $D_m$ mín. | $f_1$ | $h$ | $l_1$ | $l_3$ | $\gamma_n$ |                  |
|  | 11                                                                                | 1/4  | 0.5-2.0       | 32-12  | R/L166.0KF-16-1220-11B | 16              | 12         | 10    | 15  | 125   | 20.9  | -15        | 0.9              |
|                                                                                  |                                                                                   |      |               |        | R/L166.0KF-16-1625-11B | 16              | 16         | 10.5  | 15  | 150   | 25.9  | -15        | 0.9              |

Versión en pulgadas

| Aplicación principal                                                               |  | $iC$ | Gama de pasos |        | Código de pedido        | Dimensiones, pulgadas |            |       |      |       |       |            | pies-lbs <sup>2)</sup> |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|---------------|--------|-------------------------|-----------------------|------------|-------|------|-------|-------|------------|------------------------|
|                                                                                    |                                                                                     |      | mm            | H.P.P. |                         | $dm_m$                | $D_m$ mín. | $f_1$ | $h$  | $l_1$ | $l_3$ | $\gamma_n$ |                        |
|  | 11                                                                                  | 1/4  | 0.5-2.0       | 32-12  | R/L166.0KF-D10-D0812-2B | 0.625                 | 0.5        | .394  | .570 | 5.000 | .820  | -15        | 0.7                    |
|                                                                                    |                                                                                     |      |               |        | R/L166.0KF-D10-D1016-2B | 0.625                 | 0.63       | .413  | .563 | 6.000 | 1.030 | -15        | 0.7                    |

1) Par torsor de la plaquita Nm

2) Par de apriete de la plaquita, ft-lbs.

R = A Derecha, L = A Izquierda

Piezas de repuesto principales

| Tamaño de plaquita                                                                 |      |                      |                   |
|------------------------------------------------------------------------------------|------|----------------------|-------------------|
|  | $iC$ | Tornillo de plaquita | Llave (Torx Plus) |
| 11                                                                                 | 1/4  | 5513 020-03          | 5680 051-02 (7IP) |



# T-Max U-lock®, barras de mandrinar de metal duro y acero

Mango cilíndrico

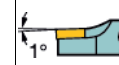
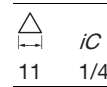
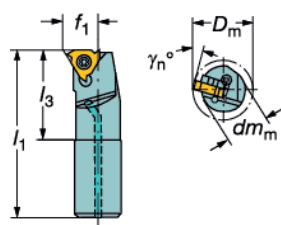
Con ranura para manguito EasyFix

Diseño de sujeción por tornillo



166.0L<sub>1</sub>  
154.0G<sup>1)</sup>

R/L166.4KF  
R166.0KF



No se utilizan placas de apoyo.



Valores de x y z, véanse las páginas de plaquitas T-Max U-Lock en C70.

A derechas en la ilustración

## Versión métrica

| Aplicación principal | Tamaño de plaquita |     | Gama de pasos |        | Código de pedido | Dimensiones, mm |                     |                |     |                |                |                |
|----------------------|--------------------|-----|---------------|--------|------------------|-----------------|---------------------|----------------|-----|----------------|----------------|----------------|
|                      |                    | iC  | mm            | H.P.P. |                  | dm <sub>m</sub> | D <sub>m</sub> mín. | f <sub>1</sub> | h   | l <sub>1</sub> | l <sub>3</sub> | γ <sub>n</sub> |
|                      | 11                 | 1/4 | 0.5-2.0       | 32-12  | R166.0KF-10E-11  | 10              | 12                  | 7.2            | 150 | 21.0           | -15            | 0.9            |
|                      |                    |     |               |        | R166.0KF-12E-11  | 12              | 16                  | 9              | 180 | 25.0           | -15            | 0.9            |

## Versión en pulgadas

| Aplicación principal | Tamaño de plaquita |     | Gama de pasos |        | Código de pedido   | Dimensiones, pulgadas |                     |                |      |                |                |                |
|----------------------|--------------------|-----|---------------|--------|--------------------|-----------------------|---------------------|----------------|------|----------------|----------------|----------------|
|                      |                    | iC  | mm            | H.P.P. |                    | dm <sub>m</sub>       | D <sub>m</sub> mín. | f <sub>1</sub> | h    | l <sub>1</sub> | l <sub>3</sub> | γ <sub>n</sub> |
|                      | 11                 | 1/4 | 0.5-2.0       | 32-12  | R/L166.0KF-D06C-2C | 0.375                 | 0.5                 | .295           | .359 | 6.000          | .880           | -15            |
|                      |                    |     |               |        | R/L166.0KF-D08C-2C | 0.5                   | 0.63                | .354           | .484 | 8.000          | .930           | -15            |

<sup>1)</sup> Par torsor de la plaquita Nm

<sup>2)</sup> Par de apriete de la plaquita, ft-lbs.

Para el conector del refrigerante, véase la página A308

R = A Derecha, L = A Izquierda

## Piezas de repuesto principales

| Tamaño de plaquita |    |                   |                      |                   |
|--------------------|----|-------------------|----------------------|-------------------|
| iC                 |    | Ø dm <sub>m</sub> | Tornillo de plaquita | Llave (Torx Plus) |
| 1/4                | 11 | .625-.630         | 5513 020-03          | 5680 051-02 (7IP) |



C4



C53



C66



G6



C2



J2

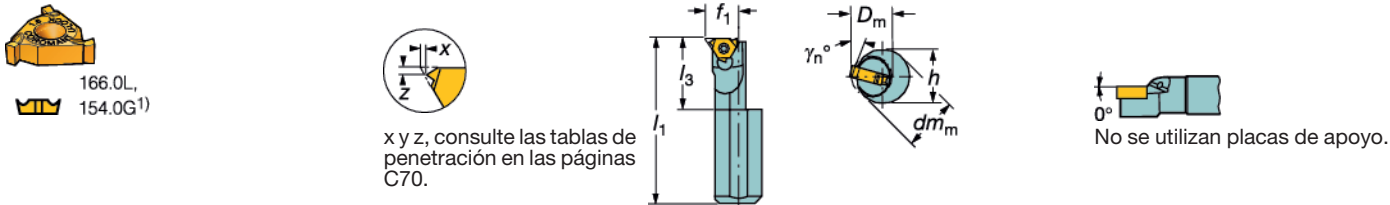
# Barras de mandrinado T-Max U-Lock®

Cilíndrico

Diseño de sujeción por tornillo dedicado con ranuras circlip

R154.0KF

Cilíndrico con planos



A derechas en la ilustración

Cilíndrico con planos

| Aplicación principal | Tamaño de |     | Gama de pasos |        | Código de pedido     | Dimensiones, mm, pulgadas |         |      |      |       |      | Nm <sup>1)</sup> |
|----------------------|-----------|-----|---------------|--------|----------------------|---------------------------|---------|------|------|-------|------|------------------|
|                      |           | i/C | mm            | H.P.P. |                      | dm                        | Dm mín. | f1   | h    | h1    | h2   |                  |
|                      | 11        | 1/4 | 0.5-2.0       | 32-12  | R154.0KF-16-1220-11B | 16                        | 12      | 10   | 15   | 125   | 20.9 | 0.9              |
|                      |           |     |               |        |                      | .630                      | .472    | .394 | .591 | 4.921 | .823 | 0.9              |

1) Par torsor de la plaquita Nm R = A derecha

Para el conector del refrigerante, véase la página A308

## Piezas de repuesto principales

| Tamaño de plaquita |                      |                   |
|--------------------|----------------------|-------------------|
|                    | Tornillo de plaquita | Llave (Torx Plus) |
| 11                 | 5513 020-03          | 5680 051-02 (7IP) |



## Selección de placas de apoyo

T-Max U-Lock®

| Gama de pasos       | Tamaño de plaquita                                                                           | Ángulo de inclinación                    | Placas de apoyo para portaplaquitas de sujeción por tornillo QC, 166.4, 466.4 y 566.4                                             |                                                                                                | Placas de apoyo para portaplaquitas de sujeción por cuña 166.5                                                |                                                                                                               |
|---------------------|----------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| mm (HPP)            |  <i>iC</i>  |                                          |                                                  | <br>Reforzado | <br>A derecha              | <br>A izquierda            |
| 0.5–3.0<br>(32-6)   | 16 3/8                                                                                       | -2°<br>-1°<br>0°<br>1°<br>2°<br>3°<br>4° | 5322 361-22<br>5322 361-21<br>5322 361-10 <sup>1)</sup><br>5322 361-11 <sup>2)</sup><br>5322 361-12<br>5322 361-13<br>5322 361-14 | –<br>–<br>–<br>5322 363-11<br>5322 363-12<br>5322 363-13<br>5322 363-14                        | –<br>–<br>5322 371-10 <sup>1)</sup><br>5322 371-11 <sup>2)</sup><br>5322 371-12<br>5322 371-13<br>5322 371-14 | –<br>–<br>5322 372-10 <sup>1)</sup><br>5322 372-11 <sup>2)</sup><br>5322 372-12<br>5322 372-13<br>5322 372-14 |
| 2.5-7.0<br>(11.5-4) | 22 1/2                                                                                       | -2°<br>-1°<br>0°<br>1°<br>2°<br>3°<br>4° | 5322 365-22<br>5322 365-21<br>5322 365-10 <sup>1)</sup><br>5322 365-11 <sup>2)</sup><br>5322 365-12<br>5322 365-13<br>5322 365-14 | –<br>–<br>–<br>5322 367-11<br>5322 367-12<br>5322 367-13<br>5322 367-14                        |                                                                                                               |                                                                                                               |
| Gama de pasos       | Tamaño de plaquita                                                                           | Ángulo de inclinación                    | Placas de apoyo para portaplaquitas de tornillo U 166.0 y 566.0                                                                   |                                                                                                |                                                                                                               |                                                                                                               |
| mm (HPP)            |  <i>iC</i> |                                          | Exterior<br>A derecha                                                                                                             | Interior<br>A derecha                                                                          |                                                                                                               |                                                                                                               |
| 8.0<br>(5-3)        | 27 5/8                                                                                       | 0°<br>1°<br>2°<br>3°                     | 5322 385-10<br>5322 383-11 <sup>2)</sup><br>5322 385-12<br>5322 385-13                                                            | 5322 386-10<br>5322 383-11 <sup>2)</sup><br>5322 386-12<br>5322 386-13                         |                                                                                                               |                                                                                                               |

1) Debe utilizarse cuando se empleen plaquitas U-Lock para ranurado de anillos, tipo R/

2) Se suministra con la herramienta.

### Nota.

Las dos últimas cifras del código de la placa de apoyo indican + o - y el ángulo de inclinación eficaz con la placa de apoyo montada en el portaplaquitas. P. ej., 5322 361-11 = ángulo + 1° y 5322 361-21 = ángulo - 1°.

Nota: Las placas de apoyo para portaherramientas de tornillo de cambio rápido, 166.4, son simétricas, es decir, no hay versiones a derecha y a izquierda. Las placas de apoyo para portaherramientas de brida-cuña, 166.5, no son simétricas, y pueden pedirse en versiones a derecha y a izquierda.

A  
B  
C  
G  
H  
I  
J

Torneado general

Tronzado y ranurado

Roscado

Sistemas portaherramientas

Mecanizado Multi-tareas

CoroTurn® SL

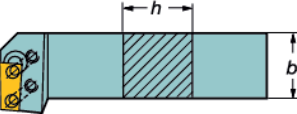
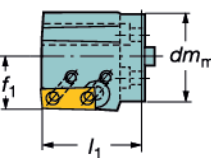
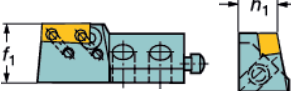
Información general

Códigos – T-Max Twin-Lock® para roscado de tuberías petrolíferas

Portaherramientas T-Max Twin-Lock®

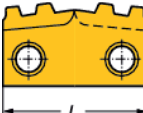
|          |               |           |          |             |          |           |
|----------|---------------|-----------|----------|-------------|----------|-----------|
| <b>R</b> | <b>166.39</b> | <b>FG</b> | <b>-</b> | <b>3232</b> | <b>-</b> | <b>24</b> |
| 1        | 2             | 3         |          | 4           |          | 5         |

|                             |                                                                                                                 |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1 Sentido de la herramienta | 2 Código principal                                                                                              |
| R = Ilustración a derecha   | 166.39 = Portaherramientas Twin-Lock®<br>466.39 = Cartucho Twin-Lock®<br>566.39 = Cabeza de corte Twin-Lock® SL |

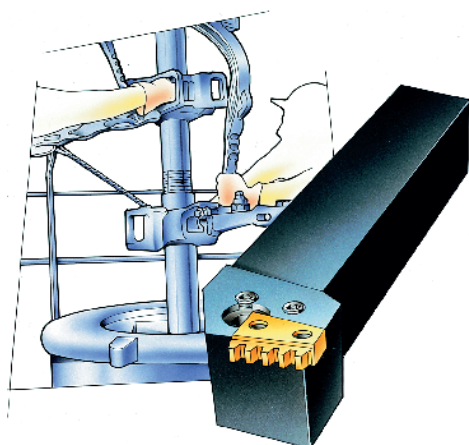
|                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 Tipo de herramienta y de soporte                                                                                                   | 4 Dimensiones del portaherramientas, mm                                                                                                                                                                                                                                                                                                                                                                | 5 Dimensión de plaquita, mm                                                                                                                            |
| Exterior<br><br>Dirección de avance<br><br><br>FG   | Mango<br>$h \times b$<br><br><br>Cabeza de corte T-Max Twin-Lock® SL<br>$dm_m \times l_1 \times f_1$<br><br><br>Cartucho<br>$h_1 \times f_1$<br> | Tamaño de plaquita $l$ , en mm<br>$l = 24.0$ mm (.945 pulgadas)<br> |
| Interior<br><br>Dirección de avance<br><br><br>KF |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                        |

Plaquetas T-Max Twin-Lock®

|          |               |          |          |           |            |          |          |            |
|----------|---------------|----------|----------|-----------|------------|----------|----------|------------|
| <b>R</b> | <b>166.39</b> | <b>G</b> | <b>-</b> | <b>24</b> | <b>RD1</b> | <b>3</b> | <b>-</b> | <b>080</b> |
| 1        | 2             | 3        |          | 4         | 5          | 6        |          | 7          |

|                                                                                                                                                                                        |                                    |                                                                                |                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> Sentido de la plaquita                                                                                                                                                        | <b>2</b> Código principal          | <b>3</b> Tipo de mecanizado                                                    | <b>4</b> Dimensión de plaquita                                                                                                                           |
| R = plaquita a derecha                                                                                                                                                                 | 166.39 = T-Max Twin-Lock®          | G = plaquetas para roscado exterior<br><br>L = Plaquetas para roscado interior | Longitud <i>l</i> , en mm<br><i>l</i> = 24.0 mm (.945 pulgadas)<br> |
| <b>5</b> Perfil de rosca                                                                                                                                                               | <b>6</b> Número de puntos por filo | <b>7</b> Paso                                                                  |                                                                                                                                                          |
| RD0 = API Redonda V, tuberías y manguitos<br><br>RD1 = API Redonda V, tuberías y manguitos<br><br>BU1 = API Reforzada =13 3/8" (3/4" i.p.f)<br><br>BU2 = API Reforzada = 16" (1"i.p.f) | Varía de 2 a 4 dientes.            | Número de hilos por pulg. x 10                                                 |                                                                                                                                                          |

## El sistema T-Max Twin-Lock

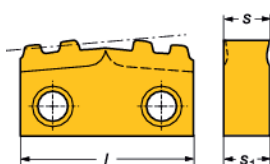


T-Max Twin-Lock® es un sistema que se adapta a los variables aspectos y requisitos de la industria petrolífera. Su uso está principalmente previsto en la fabricación de tuberías, manguitos y acoplamientos en grandes volúmenes.

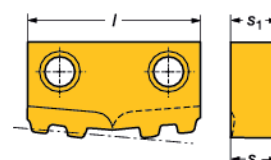
Este sistema incluye también las roscas para unir los componentes y conexiones rotativas en escuadra. Su excelente precisión al efectuar el cambio, seguridad de filo y repetibilidad son especialmente adecuadas para las modernas unidades de producción.

## Plaquetas para roscado exterior e interior para manguitos y tuberías

Exterior (tubo)



Interior (manguito)



Dimensiones:  $l = 24.0$  (.945 pulgadas)  $s_1 = 6.4$  (.252 pulgadas)  $s = 6.35$  (.250 pulgadas)

| Gama de componentes, mm (pulgadas)     | Forma de rosca  | Paso   | Cono en diám | Código de pedido                  | Nº de dientes |      |      |
|----------------------------------------|-----------------|--------|--------------|-----------------------------------|---------------|------|------|
|                                        |                 |        |              |                                   |               | GC   | GC   |
|                                        | Doble cara      | H.P.P. | pulg.p.p.    |                                   |               | 1125 | 4125 |
| Tubos API NU 1.050" – 3 1/2"           | API Redonda Vee | 10     | 3/4          | Exterior                          |               |      |      |
| Tubos API EU 1.050" – 1.900"           |                 |        |              | R166.39G-24RD03-100               | 3+3           | ☆    |      |
| Tubos API IJ 1.315" – 2 1/16"          |                 |        |              | Interior                          |               |      |      |
|                                        |                 | 10     | 3/4          | R166.39L-24RD04-100 <sup>1)</sup> | 4+4           | ☆    |      |
| Tubos API NU 4" – 4 1/2"               | API Redonda Vee | 8      | 3/4          | Exterior                          |               |      |      |
| Tubos API EU 2 3/8" – 4 1/2"           |                 |        |              | R166.39G-24RD13-080               | 3+3           | ☆    |      |
| Manguitos API SR 4 1/2" – 20"          |                 |        |              | Interior                          |               |      |      |
| Manguitos API LR 4 1/2" – 20"          |                 | 8      | 3/4          | R166.39L-24RD04-080 <sup>1)</sup> | 4+4           | ☆    |      |
| Manguitos API Butress 4 1/2" – 13 3/8" | API Reforzada   | 5      | 3/4          | Exterior                          |               |      |      |
|                                        |                 |        |              | R166.39G-24BU12-050               | 2+2           | ☆    |      |
|                                        |                 |        |              | Interior                          |               |      |      |
|                                        |                 | 5      | 3/4          | R166.39L-24BU12-050 <sup>1)</sup> | 2+2           | ☆    |      |
| Manguito API Butress ≥ 16"             | API Reforzada   | 5      | 1            | Exterior                          |               |      |      |
|                                        |                 |        |              | R166.39G-24BU22-050               | 2+2           | ☆    |      |
|                                        |                 |        |              | Interior                          |               |      |      |
|                                        | Desbaste        | 5      | 1            | R166.39L-24BU22-050 <sup>1)</sup> | 2+2           | ☆    |      |

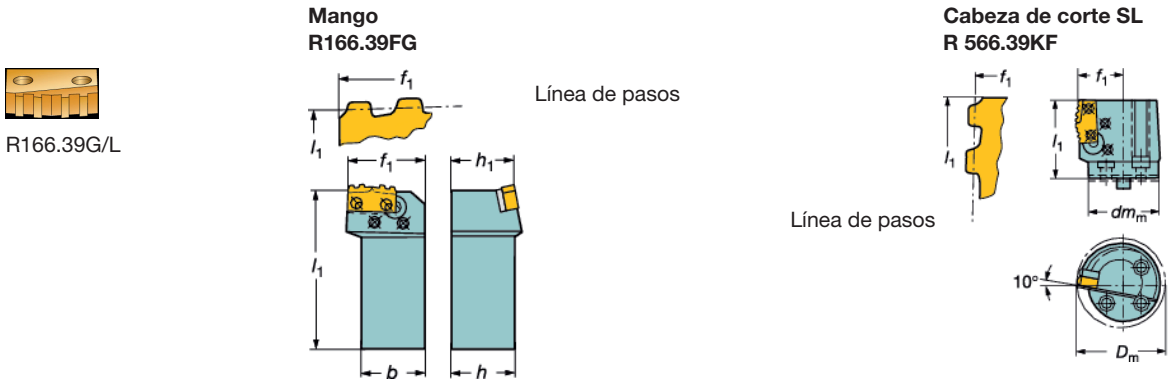
<sup>1)</sup> Deben ser utilizadas en portaplaquetas con un ángulo de inclinación de 10°.

R = A derecha



T-Max Twin-Lock®

Diseño de sujeción por palanca



A derechas en la ilustración

Mango

| Aplicación principal | Gama de pasos | Código de pedido  | Dimensiones, mm, pulgadas |                       |          |                       |                       |
|----------------------|---------------|-------------------|---------------------------|-----------------------|----------|-----------------------|-----------------------|
|                      | H.P.P.        |                   | <i>b</i>                  | <i>f</i> <sub>1</sub> | <i>h</i> | <i>h</i> <sub>1</sub> | <i>l</i> <sub>1</sub> |
|                      | 10-5          | R166.39FG-3232-24 | 32                        | 38.6                  | 32       | 32                    | 148.4                 |
|                      |               |                   | 1.260                     | 1.520                 | 1.260    | 1.260                 | 5.842                 |
|                      |               |                   |                           |                       |          |                       |                       |
|                      |               |                   |                           |                       |          |                       |                       |
|                      |               |                   |                           |                       |          |                       |                       |

R = A derecha

Cabeza de corte T-Max Twin-Lock® SL

| Aplicación principal | Gama de pasos | Código de pedido                  | Tamaño<br>acoplamiento | Dimensiones, mm, pulgadas |                            |                       |                       |
|----------------------|---------------|-----------------------------------|------------------------|---------------------------|----------------------------|-----------------------|-----------------------|
|                      | H.P.P.        |                                   |                        | <i>dm</i> <sub>m</sub>    | <i>D</i> <sub>m</sub> mín. | <i>f</i> <sub>1</sub> | <i>l</i> <sub>1</sub> |
|                      | 10-5          | R566.39KF-404527-24 <sup>1)</sup> | 40                     | 40.00                     | 60.30                      | 25.80                 | 44.20                 |
|                      |               |                                   |                        | 1.575                     | 2.374                      | 1.016                 | 1.740                 |
|                      |               |                                   |                        |                           |                            |                       |                       |

<sup>1)</sup> Sólo para plaquitas API V redondas, 8 y 10 HPP.

R = A derecha

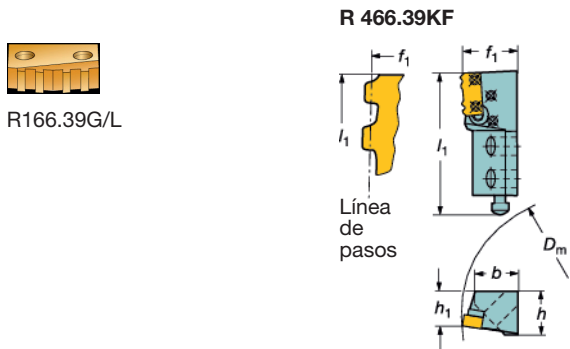
Piezas de repuesto principales

|           | Palanca     | Tornillo   | Llave (mm)      | Placa de apoyo |
|-----------|-------------|------------|-----------------|----------------|
| R166.39FG | 5432 005-01 | 174.3-820M | 170.3-860 (2.5) | 5321 110-02    |
| R566.39KF | 5432 005-01 | 174.3-820M | 170.3-860 (2.5) | 5321 111-01    |

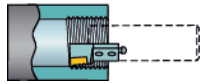


T-Max Twin-Lock®

Cartucho  
Diseño de sujeción por palanca



A derechas en la ilustración

| Aplicación principal                                                              | Gama de pasos | Código de pedido  | Dimensiones, mm, pulgadas |      |       |      |       |       |
|-----------------------------------------------------------------------------------|---------------|-------------------|---------------------------|------|-------|------|-------|-------|
|                                                                                   | H.P.P.        |                   | $D_m$ mín.                | $b$  | $f_1$ | $h$  | $h_1$ | $l_1$ |
|  | 10-5          | R466.39KF-1832-24 | 114.00                    | 25   | 30.0  | 24   | 18    | 80.0  |
|                                                                                   |               |                   | 4.488                     | .984 | 1.181 | .945 | .709  | 3.150 |

R = A derecha

Piezas de repuesto principales

| Tamaño de plaquita                                                                 |             |            |                 |                |
|------------------------------------------------------------------------------------|-------------|------------|-----------------|----------------|
|  | Palanca     | Tornillo   | Llave (mm)      | Placa de apoyo |
| 24                                                                                 | 5432 005-01 | 174.3-820M | 170.3-860 (2.5) | 5321 110-01    |



A

Torneado general

B

Tronzado y ranurado

C

Roscado

G

Sistemas portaherramientas

H

Mecanizado Multi-tareas

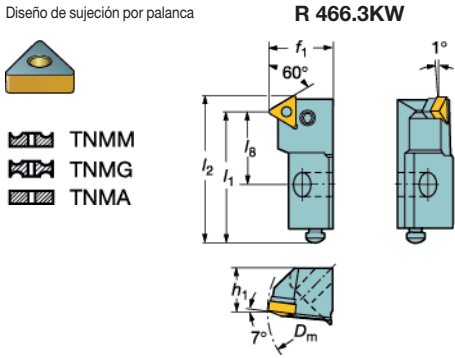
I

CoroTum® SL

J

Información general

T-Max P, cartucho para roscado en desbaste



A derechas en la ilustración

| Aplicación principal | Tamaño de plaquita | Gama de pasos |        | Código de pedido | Dimensiones, mm, pulgadas |                |       |                |                |                |                |
|----------------------|--------------------|---------------|--------|------------------|---------------------------|----------------|-------|----------------|----------------|----------------|----------------|
|                      | iC                 | mm            | H.P.P. |                  | D <sub>m</sub> mín.       | f <sub>i</sub> | h     | h <sub>1</sub> | h <sub>2</sub> | l <sub>1</sub> | l <sub>2</sub> |
|                      | 16 3/8             | 0.5-3.0       | 32-6   | R466.3KW-2030-16 | 79.00                     | 29.7           | 26    | 20             | 59.3           | 67             | 29.36          |
|                      |                    |               |        |                  | 3.110                     | 1.170          | 1.024 | .787           | 2.335          | 2.638          | 1.156          |
|                      |                    |               |        |                  |                           |                |       |                |                |                |                |

R = A derecha

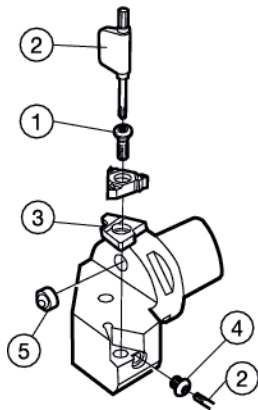
Piezas de repuesto principales

| Tamaño de |            |            |                 |                |
|-----------|------------|------------|-----------------|----------------|
|           | Palanca    | Tornillo   | Llave (mm)      | Placa de apoyo |
| 16        | 174.3-840M | 174.3-820M | 170.3-860 (2.5) | 179.3-850M     |



# CoroThread™ 266 exterior

Herramientas con mango/ Coromant Capto®


Boquilla para unidades de corte  
Coromant Capto®

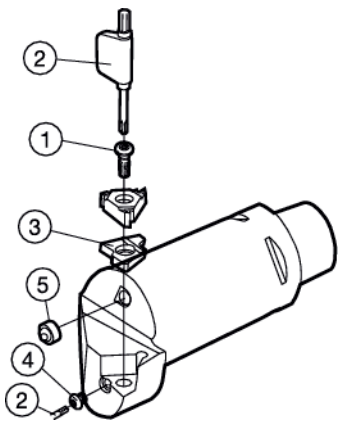
| Tamaño de unidad de corte | 5           |
|---------------------------|-------------|
| C3-C4                     | 5691 034-01 |
| C5-C6                     | 5691 034-02 |
| C8                        | 5691 034-03 |

|                    |                      | 1                       | 2                       | 3                                                                                | 4                    |                                     |
|--------------------|----------------------|-------------------------|-------------------------|----------------------------------------------------------------------------------|----------------------|-------------------------------------|
|                    |                      | Tornillo de<br>plaquita | Llave (Torx Plus)       | Placas de apoyo <sup>1)</sup><br>Ángulo de inclinación +1°<br>A derecha exterior | A izquierda exterior | Tornillo de la<br>placa de<br>apoyo |
| Portaherramientas  | Coromant Capto®      | 5513 020-13             | 5680 049-05 (15IP/10IP) | 5322 389-11                                                                      | 5322 390-11          | 5512 032-05                         |
| 266R/LFG-1616-16   | C3-266R/LFG-22040-16 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-2020-16   | C4-266R/LFG-27050-16 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-2525-16   | C5-266R/LFG-35060-16 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-3225-16   | C6-266R/LFG-45065-16 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFGZ2525-16   | C8-266R/LFG-55080-16 |                         |                         |                                                                                  |                      |                                     |
| 266RFGZ3225-16     | C4-266RFGZ27050-16   |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-123B      | C5-266RFGZ35060-16   |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-163D      | C6-266RFGZ45065-16   |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-203D      |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFGZ123B      |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFGZ163D      |                      |                         |                         |                                                                                  |                      |                                     |
| 266RFGZ203D        |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFA-1010-16-S |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFA-1212-16-S |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFA-1616-16-S |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFA-063-S     |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFA-083-S     |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFA-103-S     |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFA-123-S     |                      |                         |                         |                                                                                  |                      |                                     |
| QS-266RFA-1010-16  |                      |                         |                         |                                                                                  |                      |                                     |
| QS-266RFA-1212-16  |                      |                         |                         |                                                                                  |                      |                                     |
| QS-266RFA-1616-16  |                      |                         |                         |                                                                                  |                      |                                     |
| QS-266RFA-063      |                      |                         |                         |                                                                                  |                      |                                     |
| QS-266RFA-083      |                      |                         |                         |                                                                                  |                      |                                     |
| QS-266RFA-103      |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-164D      | C3-266R/LFG-22040-22 | 5513 020-26             | 5680 043-14 (20IP)      | 5322 379-11                                                                      | 5322 380-11          | 5512 032-04                         |
| 266R/LFG-204D      | C4-266R/LFG-27050-22 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-244E      | C5-266R/LFG-35060-22 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFGZ164D      | C6-266R/LFG-45065-22 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFGZ204D      | C8-266R/LFG-55080-22 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-2525-22   | C4-266R/LFGZ27050-22 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-3232-22   | C5-266R/LFGZ35060-22 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-4040-22   | C6-266R/LFGZ45065-22 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFGZ2525-22   |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFGZ3232-22   |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-205D      | C6-266R/LFG-45065-27 | 5513 020-66             | 5680 043-15 (25IP)      | 5322 387-11                                                                      | 5322 388-11          | 5512 032-03                         |
| 266R/LFG-245E      | C6-266R/LFGZ45065-27 |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-3232-27   |                      |                         |                         |                                                                                  |                      |                                     |
| 266R/LFG-4040-27   |                      |                         |                         |                                                                                  |                      |                                     |

<sup>1)</sup> Para placas de apoyo opcionales, ver página C45.

CoroThread™ 266 interior

Barras para mandrinar/Coromant Capto



|                                                    |             |
|----------------------------------------------------|-------------|
| Boquilla para unidades de corte<br>Coromant Capto® |             |
| Tamaño de unidad de corte                          | 5           |
| C3–C4                                              | 5691 029-08 |
| C5–C6                                              | 5691 029-09 |
| C8                                                 | 5691 029-10 |

|                           |                      | 1                       | 2                       | 3                                                                                | 4                    |                                  |
|---------------------------|----------------------|-------------------------|-------------------------|----------------------------------------------------------------------------------|----------------------|----------------------------------|
|                           |                      | Tornillo de<br>plaquita | Llave (Torx Plus)       | Placas de apoyo <sup>1)</sup><br>Ángulo de inclinación +1°<br>A derecha interior | A izquierda interior | Tornillo de la<br>placa de apoyo |
| <b>Barra de mandrinar</b> | Coromant Capto®      |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-20-16            | C3-266R/LKF-14060-16 | 5512 020-13             | 5680 049-05 (15IP/10IP) | 5322 390-11                                                                      | 5322 389-11          | 5512 032-05                      |
| 266R/LKF-25-16            | C4-266R/LKF-14060-16 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-32-16            | C4-266R/LKF-17070-16 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-40-16            | C4-266RKF-22090-16   |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-50-16            | C5-266R/LKF-14060-16 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-D12-3            | C5-266R/LKF-17070-16 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-D16-3            | C5-266R/LKF-22090-16 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-D20-3            | C5-266R/LKF-27105-16 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-D24-3            | C6-266R/LKF-14070-16 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-D32-3            | C6-266R/LKF-17075-16 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-20-16-R          | C6-266R/LKF-22090-16 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-25-16-R          | C6-266R/LKF-27105-16 |                         |                         |                                                                                  |                      |                                  |
| 266LKF-D12-3-R            |                      |                         |                         |                                                                                  |                      |                                  |
| 266LKF-D16-3-R            |                      |                         |                         |                                                                                  |                      |                                  |
| 266RKF-D12-3-R            |                      |                         |                         |                                                                                  |                      |                                  |
| 266RKF-D12-3-RE           |                      |                         |                         |                                                                                  |                      |                                  |
| 266RKF-D16-3-R            |                      |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-D20-4            | C5-266R/LKF-27105-22 | 5513 020-26             | 5680 043-14 (20IP)      | 5322 380-11                                                                      | 5322 379-11          | 5512 032-04                      |
| 266R/LKF-D24-4            | C6-266R/LKF-27105-22 |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-D32-4            | C4-266RKF-19070-22   |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-25-22            | C4-266RKF-22090-22   |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-25-22-R          | C4-266RKF-27080-22   |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-D16-4-R          | C5-266RKF-19070-22   |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-32-22            | C5-266RKF-22090-22   |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-40-22            | C6-266RKF-19075-22   |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-50-22            | C6-266RKF-22090-22   |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-40-27            |                      | 5513 020-66             | 5680 043-15 (25IP)      | 5322 388-11                                                                      | 5322 387-11          | 5512 032-03                      |
| <b>Cartuchos</b>          |                      |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-16CA-16          | C6-266RKF-22090-22   |                         |                         |                                                                                  |                      |                                  |
| 266R/LKF-20CA-22          |                      | 5513 020-26             | 5680 043-14 (20IP)      | 5322 388-11                                                                      | 5322 387-11          | 5512 032-04                      |

1) Para placas de apoyo opcionales, ver página C45.

# T-Max U-Lock® exterior

## HERRAMIENTAS OBSOLETAS

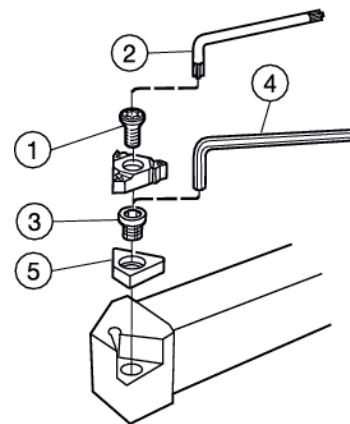
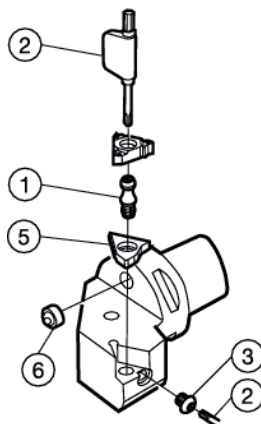
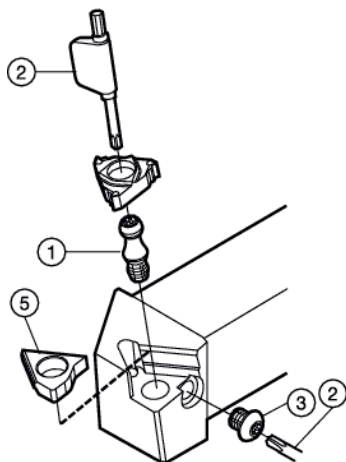
Herramientas con mango/ Coromant Capto®

### Sujeción por tornillo

Tornillo de cambio rápido para tamaños de plaquita 16 (iC 3/8) y 22 (iC 1/2)

Tornillo de cambio rápido para tamaños de plaquita 16 (iC 3/8) y 22 (iC 1/2)

Tornillo T-Max U para tamaño de plaquita 27 (iC 5/8)



|                        |                             | 1                            | 2                                                          | 3                                                  | 2                  |
|------------------------|-----------------------------|------------------------------|------------------------------------------------------------|----------------------------------------------------|--------------------|
| Herramientas con mango | Coromant Capto®             | Tornillo de plaquita (rosca) | Llave (Torx Plus)                                          | Tornillo de la placa de apoyo                      | Llave (Torx Plus)  |
| R/L166.4FG/FGZ-123B    | C3- R/L 166.4FG/FGZ22040-16 | 5513 026-01 (M4)             | 5680 051-03 (9IP)                                          | 5512 032-01                                        | 5680 051-03 (9IP)  |
| R/L166.4FG-163C        | C4- R/L 166.4FG/FGZ27050-16 | 5513 020-13 <sup>2)</sup>    | 5680 043-13 (15IP) <sup>3)</sup>                           |                                                    |                    |
| R/L166.4FG/FGZ-163D    | C5- R/L 166.4FG/FGZ35060-16 |                              |                                                            |                                                    |                    |
| R/L166.4FG/FGZ-203D    | C6- R/L 166.4FG/FGZ45065-16 |                              |                                                            |                                                    |                    |
| R/L166.4FG-1616-16     | C8- R/L 166.4FG-55080-16    |                              |                                                            |                                                    |                    |
| R/L166.4FG-2020-16     |                             |                              |                                                            |                                                    |                    |
| R/L166.4FG/FGZ-2525-16 |                             |                              |                                                            |                                                    |                    |
| R/L166.4FG/FGZ-3225-16 |                             |                              |                                                            |                                                    |                    |
| R/L166.4FA-1010-16-S   |                             |                              |                                                            |                                                    |                    |
| R/L166.4FA-1212-16-S   |                             |                              |                                                            |                                                    |                    |
| R/L166.4FA-1616-16-S   |                             |                              |                                                            |                                                    |                    |
| R/L166.4FG-164D        | C3- R/L 166.4FG/FGZ22040-22 | 5513 026-02 (M5)             | 5680 049-02 (15IP)                                         | 5512 032-02                                        | 5680 049-02 (15IP) |
| R/L166.4FG-204D        | C4- R/L 166.4FG/FGZ27050-22 | 5513 020-26 <sup>2)</sup>    | 5680 043-14 (20IP) <sup>3)</sup>                           |                                                    |                    |
| R/L166.4FG-244E        | C5- R/L 166.4FG/FGZ35060-22 |                              |                                                            |                                                    |                    |
| R/L166.4FGZ-2525-22    | C6- R/L 166.4FG/FGZ45065-22 |                              |                                                            |                                                    |                    |
| R/L166.4FGZ-3232-22    | C8- R/L 166.4FG-55080-22    |                              |                                                            |                                                    |                    |
| R/L166.4FG-4040-22     |                             |                              |                                                            |                                                    |                    |
| R/L166.0FG-205D        | —                           | 5513 020-14 (M6)             | 5680 043-15 (25IP) <sup>3)</sup>                           | 5512 090-08                                        | —                  |
| R/L166.0FG-245E        |                             |                              |                                                            |                                                    |                    |
| R/L166.0FG-4040-27     | —                           | 5513 020-14 (M6)             | 5680 043-15 (25IP)                                         | 5512 090-08                                        | —                  |
|                        |                             | 4                            | 5                                                          |                                                    |                    |
| Herramientas con mango | Coromant Capto®             | Llave (tamaño, mm)           | Placas de apoyo <sup>1)</sup><br>Ángulo de inclinación +1° | Boquilla para unidades de corte<br>Coromant Capto® |                    |
| R/L166.4FG/FGZ-123B    | C3- R/L 166.4FG/FGZ22040-16 | —                            | 5322 361-11                                                |                                                    |                    |
| R/L166.4FG-123B        | C4- R/L 166.4FG/FGZ27050-16 |                              |                                                            | Tamaño de unidad de corte                          |                    |
| R/L166.4FG/FGZ-163D    | C5- R/L 166.4FG/FGZ35060-16 |                              |                                                            |                                                    |                    |
| R/L166.4FG/FGZ-203D    | C6- R/L 166.4FG/FGZ45065-16 |                              |                                                            | 6                                                  |                    |
| R/L166.4FG-1616-16     | C8- R/L 166.4FG-55080-16    |                              |                                                            |                                                    |                    |
| R/L166.4FG-2020-16     |                             |                              |                                                            | C3–C4                                              |                    |
| R/L166.4FG/FGZ-2525-16 |                             |                              |                                                            |                                                    |                    |
| R/L166.4FG/FGZ-3225-16 |                             |                              |                                                            | 5691 029-08                                        |                    |
| R/L166.4FA-1010-16-S   |                             |                              |                                                            |                                                    |                    |
| R/L166.4FA-1212-16-S   |                             |                              |                                                            | C5–C6                                              |                    |
| R/L166.4FA-1616-16-S   |                             |                              |                                                            |                                                    |                    |
| R/L166.4FG-164D        | C3- R/L 166.4FG/FGZ22040-22 | —                            | 5322 365-11                                                | 5691 029-09                                        |                    |
| R/L166.4FG-204D        | C4- R/L 166.4FG/FGZ27050-22 |                              |                                                            |                                                    |                    |
| R/L166.4FG-244E        | C5- R/L 166.4FG/FGZ35060-22 |                              |                                                            | C8                                                 |                    |
| R/L166.4FGZ-2525-22    | C6- R/L 166.4FG/FGZ45065-22 |                              |                                                            |                                                    |                    |
| R/L166.4FGZ-3232-22    | C8- R/L 166.4FG-55080-22    |                              |                                                            | 5691 029-10                                        |                    |
| R/L166.4FG-4040-22     |                             |                              |                                                            |                                                    |                    |
| R/L166.0FG-205D        | —                           | 3021010-060 (6.0)            | 5322 383-11                                                |                                                    |                    |
| R/L166.0FG-245E        |                             |                              |                                                            |                                                    |                    |
| R/L166.0FG-4040-27     |                             |                              |                                                            |                                                    |                    |

<sup>1)</sup> Para placas de apoyo opcionales, ver página C57.

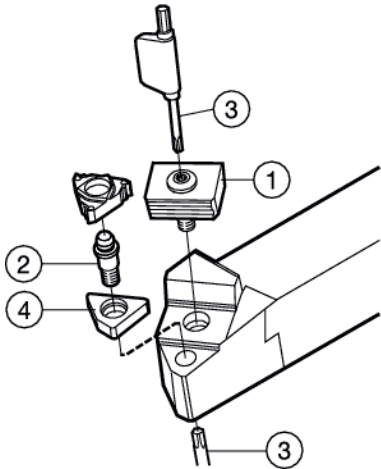
<sup>2)</sup> Tornillo U para sujeción de plaquita, pieza opcional que se debe pedir por separado

<sup>3)</sup> Llave para tornillo U

T-Max U-Lock® exterior

Herramientas con mango/ Coromant Capto®

Diseño de brida cuña



Para utilizar con plaquitas CoroThread 266

|                    |                           | 1             | 2               | 3                 | 4                                                          |             |
|--------------------|---------------------------|---------------|-----------------|-------------------|------------------------------------------------------------|-------------|
|                    |                           |               |                 |                   | Placas de apoyo <sup>1)</sup><br>Ángulo de inclinación +1° |             |
| Portaherramientas  | Coromant Capto®           | Juego de cuña | Pasador central | Llave (Torx Plus) | A derecha                                                  | A izquierda |
| R/L166.5FA-083     | C3-R/L166.5FA/FAZ17039-16 | 5431 126-011  | 5313 033-01     | 5680 051-03       | 5322 371-11                                                | 5322 372-11 |
| R/L166.5FA-103     | C3-R/L166.5FA/FAZ21055-16 |               |                 | (9IP)             |                                                            |             |
| R/L166.5FA-123B    | C3-R/L166.5FA/FAZ26065-16 |               |                 |                   |                                                            |             |
| R/L166.5FA-163D    | C3-R/L166.5FA/FAZ33075-16 |               |                 |                   |                                                            |             |
| R/L166.5FA-203D    |                           |               |                 |                   |                                                            |             |
| R/L166.5FA-1212-16 |                           |               |                 |                   |                                                            |             |
| R/L166.5FA-1616-16 |                           |               |                 |                   |                                                            |             |
| R/L166.5FA-2020-16 |                           |               |                 |                   |                                                            |             |
| R/L166.5FA-2525-16 |                           |               |                 |                   |                                                            |             |

## T-Max U-Lock® interior

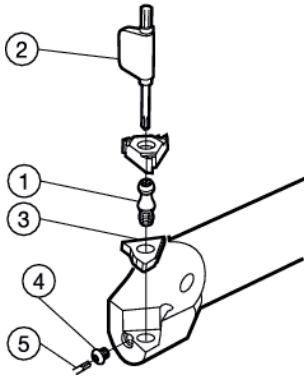
Herramientas con mango

Barras/Coromant Capto®

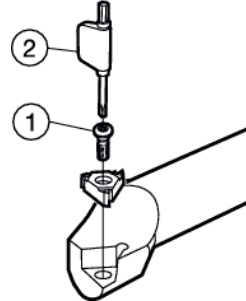
### Sujeción por tornillo

Tornillo de cambio rápido para utilizar con tamaños de plaquita 16 (iC 3/8) y 22 (iC 1/2)

HERRAMIENTAS OBSOLETAS

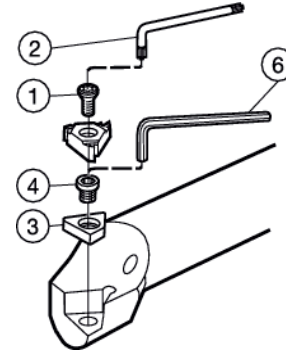


Tornillo T-Max U para utilizar con tamaño de plaquita 11 11 (iC1/4)



Tornillo T-Max U para utilizar con tamaño de plaquita 27 (iC 5/8)

HERRAMIENTAS OBSOLETAS



| Herramientas con mango  | Coromant Capto®             | 1<br>Tornillo de<br>plaquita (rosca) | 2 <sup>2)</sup><br>Llave (Torx Plus) | 3<br>Placas de<br>apoyo <sup>1)</sup><br>Ángulo de<br>inclinación +1° | 4<br>Tornillo de la<br>placa de<br>apoyo | 5<br>Llave (Torx Plus) | 6<br>Llave<br>(tamaño,<br>mm) |
|-------------------------|-----------------------------|--------------------------------------|--------------------------------------|-----------------------------------------------------------------------|------------------------------------------|------------------------|-------------------------------|
| R154.0KF-16-1220-11B    |                             | 5513 020-03                          | (M2.5) 5680 051-02 (7IP)             | —                                                                     | —                                        | —                      | —                             |
| R/L154.4KF-16-16        |                             | 5513 026-05                          | (M4) 5680 051-03 (9IP)               | —                                                                     | —                                        | —                      | —                             |
| R/L154.4KF-16F16        |                             | 5513 020-02 <sup>2)</sup>            |                                      |                                                                       |                                          |                        |                               |
| R/L154.4KF-20-22        |                             | 5513 026-06                          | (M5) 5680 049-02 (15IP)              | —                                                                     | —                                        | —                      | —                             |
| R/L154.4KF-20F22        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.0KF-D06C-2C      | Cx-R/L166.0 KF/KFZ-12050-11 | 5513 020-03                          | (M2.5) 5680 051-02 (7IP)             | —                                                                     | —                                        | —                      | —                             |
| R/L166.0KF-10E-11       | Cx-R/L166.0 KF/KFZ-12060-11 |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.0KF-D08C-2C      |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.0KF-12E-11       |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.0KF-D10-D0812-2B |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.0KF-D10-D1016-2B |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.0KF-16-1220-11B  |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.0KF-16-1625-11B  |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-D10-3        | Cx-R/L166.4 KF/KFZ-12050-16 | 5513 026-05                          | (M4) 5680 051-03 (9IP)               | —                                                                     | —                                        | —                      | —                             |
| R/L166.4KF-D10C-3C      | Cx-R/L166.4 KF/KFZ-12060-16 | 5513 020-02 <sup>2)</sup>            |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-16-16        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-16E-16       |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-16F16        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-D12-3        | Cx-R/L166.4 KF/KFZ-14060-16 | 5513 026-03                          | (M4) 5680 051-03 (9IP)               | 5322 361-11                                                           | 5512 032-01                              | 5680 051-03 (9IP)      | —                             |
| R/L166.4KF-D12C-3C      | Cx-R/L166.4 KF/KFZ-14070-16 | 5513 020-25 <sup>2)</sup>            |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-20-16        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-20F16        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-D16-3        | Cx-R/L166.4 KF/KFZ-17065-16 | 5513 026-01                          | (M4) 5680 051-03 (9IP)               | 5322 361-11                                                           | 5512 032-01                              | 5680 051-03 (9IP)      | —                             |
| R/L166.4KF-25-16        | Cx-R/L166.4 KF/KFZ-17070-16 |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-D20-3        | Cx-R/L166.4 KF/KFZ-17075-16 |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-25F22        | Cx-R/L166.4 KF/KFZ-22085-16 | 5513 020-13 <sup>2)</sup>            |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-D24-3        | Cx-R/L166.4 KF/KFZ-22090-16 |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-32-16        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-D32-3        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-40-16        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-50-16        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-20-22        | Cx-R/L166.4 KF/KFZ-15060-22 | 5513 026-06                          | (M5) 5680 049-02 (15IP)              | 5322 351-11                                                           | 5512 032-01                              | 5680 051-03 (9IP)      | —                             |
| R/L166.4KF-20F22        | Cx-R/L166.4 KF/KFZ-15065-22 | 5513 020-07 <sup>2)</sup>            |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-25-22        | Cx-R/L166.4 KF/KFZ-19065-22 | 5513 026-04                          | (M5) 5680 049-02 (15IP)              | 5322 365-11                                                           | 5512 032-01                              | 5680 049-02 (15IP)     | —                             |
| R/L166.4KF-25F22        | Cx-R/L166.4 KF/KFZ-19070-22 | 5513 020-26 <sup>2)</sup>            |                                      |                                                                       |                                          |                        |                               |
|                         | Cx-R/L166.4 KF/KFZ-19075-22 |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-D20-4        | Cx-R/L166.4 KF/KFZ-22085-22 | 5513 026-02                          | (M5) 5680 049-02 (15IP)              | 5322 365-11                                                           | 5512 032-01                              | 5680 049-02 (15IP)     | —                             |
| R/L166.4KF-32-22        | Cx-R/L166.4 KF/KFZ-22090-22 | 5513 020-26 <sup>2)</sup>            |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-40-22        | Cx-R/L166.4 KF/KFZ-27080-22 |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-D24-4        | Cx-R/L166.4 KF/KFZ-27105-22 |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-50-22        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R/L166.4KF-D32-4        |                             |                                      |                                      |                                                                       |                                          |                        |                               |
| R166.0KF-40-27          |                             | 5513 020-14                          | (M5) 5680 043-15 (25IP)              | 5322 383-11                                                           | 5512 090-08                              | —                      | 3021 010-060 (6.0)            |

1) Para placas de apoyo opcionales, ver página C57.

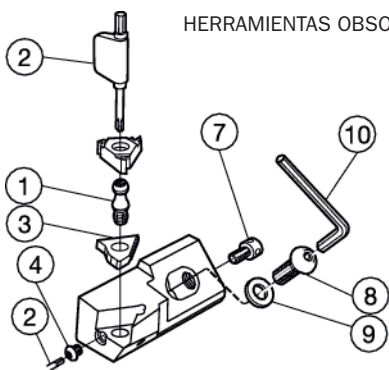
2) Piezas opcionales suministradas en pedido separado

Ejemplo de pedido: 10 piezas 5513 020-03

T-Max U-Lock®

Cartuchos

Sujeción por tornillo



| HERRAMIENTAS OBSOLETAS |  |                                            |                      |                                                         |                                                 |
|------------------------|--|--------------------------------------------|----------------------|---------------------------------------------------------|-------------------------------------------------|
|                        |  | 1                                          | 2                    | 3                                                       | 4 2                                             |
| Cartuchos              |  | Tornillo de plaquita (rosca)               | Llave (tamaño, Torx) | Placas de apoyo <sup>1)</sup> Ángulo de inclinación +1° | Tornillo de la placa de apoyo Llave (Torx Plus) |
| R/L466.4KF-16CA-16     |  | 5513 026-01 (M4) 5513 020-13 <sup>2)</sup> | 5680 051-03 (9IP)    | 5322 361-11                                             | 5512 032-01 5680 049-03 (9IP)                   |
| R/L466.4KF-20CA-22     |  | 5513 026-02 (M5) 5513 020-26 <sup>2)</sup> | 5680 049-02 (15IP)   | 5322 365-11                                             | 5512 032-02 5680 049-02 (15IP)                  |
|                        |  | 7                                          | 8                    | 9                                                       | 10                                              |
| Cartuchos              |  | Tornillo de ajuste, axial                  | Tornillo de montaje  | Arandela                                                | Llave (tamaño, mm)                              |
| R/L466.4KF-16CA-16     |  | 438.3-828                                  | 434.9-830            | 3411 011-084                                            | 174.1-863 (2.5)                                 |
| R/L466.4KF-20CA-22     |  | 438.3-839                                  | 434.9-827            | 3411 011-084                                            | 174.1-863 (2.5)                                 |

1) Para placas de apoyo opcionales, ver página C57.

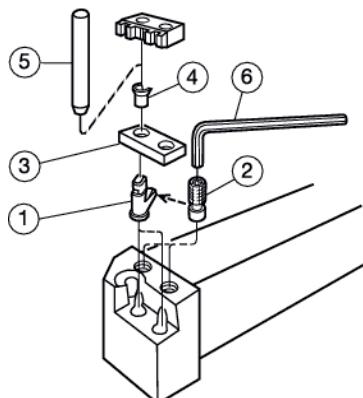
2) Piezas opcionales suministradas en pedido separado

Ejemplo de pedido: 10 piezas 438.3-828

## T-Max Twin-Lock®

Portaherramientas para roscado en la industria petrolífera

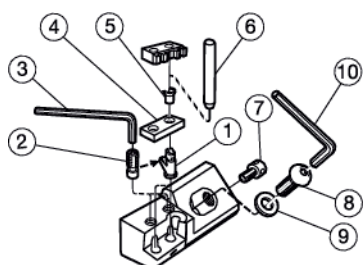
Herramientas con mango



|                   | 1           | 2          | 3              | 4                            | 5                 | 6               |
|-------------------|-------------|------------|----------------|------------------------------|-------------------|-----------------|
| Mango             | Palanca     | Tornillo   | Placa de apoyo | Pasador de la placa de apoyo | Punzón de montaje | Llave (mm)      |
| R166.39FG-3232-24 | 5432 005-01 | 174.3-820M | 5321 110-02    | 174.3-860                    | 174.3-870         | 170.3-860 (2.5) |

Ejemplo de pedido: 10 piezas 5432 005-01

### Cartuchos



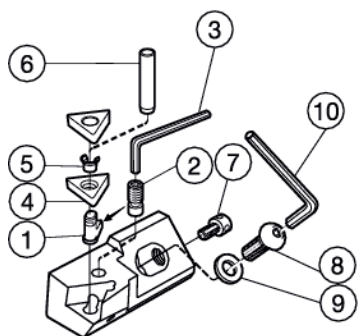
|                    | 1           | 2                   | 3               | 4              | 5                            |
|--------------------|-------------|---------------------|-----------------|----------------|------------------------------|
| Cartucho           | Palanca     | Tornillo de palanca | Llave (mm)      | Placa de apoyo | Pasador de la placa de apoyo |
| R466.39.KF-1832-24 | 5432 005-01 | 174.3-820M          | 170.3-860 (2.5) | 5321 111-01    | 174.3-860                    |

|  | 6                 | 7                         | 8                   | 9            | 10                 |
|--|-------------------|---------------------------|---------------------|--------------|--------------------|
|  | Punzón de montaje | Tornillo de ajuste, axial | Tornillo de montaje | Arandela     | Llave (tamaño, mm) |
|  | 174.3-870         | 438.3-839                 | 434.9-827           | 3411 011-084 | 174.1-863 (2.5)    |

Ejemplo de pedido: 10 piezas 438.3-828

### Cartuchos T-MAX P



|                   | 1          | 2                   | 3               | 4                                                    | 5                                                          |
|-------------------|------------|---------------------|-----------------|------------------------------------------------------|------------------------------------------------------------|
| Cartuchos T-MAX P | Palanca    | Tornillo de palanca | Llave (mm)      | Placa de apoyo (para espesor de plaquita)            | Radio Pulgadas (mm)                                        |
| R466.3KW-2030-16  | 174.3-840M | 174.3-820M          | 170.3-860 (2.5) | 179.3-850M (1.87)<br>179.3-858M (1.87) <sup>1)</sup> | .016-.032 (0.4-0.8)<br>.047-.063 (1.2 - 1.6) <sup>1)</sup> |

|                  | 6                 | 7                         | 8                   | 9            | 10                 |
|------------------|-------------------|---------------------------|---------------------|--------------|--------------------|
|                  | Punzón de montaje | Tornillo de ajuste, axial | Tornillo de montaje | Arandela     | Llave (tamaño, mm) |
| R466.3KW-2030-16 | 174.3-870         | 434.9-839                 | 434.9-830           | 3411 011-084 | 174.1-863 (2.5)    |

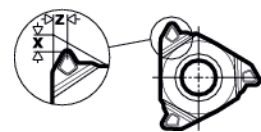
<sup>1)</sup> Para placas de apoyo opcionales, ver página C57.

Ejemplo de pedido: 10 piezas 438.3-828

## ISO métrica (MM), exterior

|                      |   | Paso, mm                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------|---|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                      |   | 0.50                          | 0.75 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 |
|                      |   | 1.32                          | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.67 | 1.67 | 1.67 | 1.38 | 1.08 | 0.88 |
|                      |   | .052                          | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .066 | .066 | .066 | .054 | .043 | .035 |
| x                    | z | 0.50                          | 0.50 | 0.80 | 0.80 | 1.00 | 1.20 | 1.40 | 1.40 | 1.80 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.80 |
|                      |   | .020                          | .020 | .031 | .031 | .039 | .047 | .055 | .055 | .071 | .098 | .098 | .098 | .098 | .098 | .110 |
| N.º de penetraciones |   | Penetración radial por pasada |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1                    |   | 0.10                          | 0.16 | 0.16 | 0.17 | 0.20 | 0.17 | 0.20 | 0.20 | 0.20 | 0.24 | 0.24 | 0.27 | 0.29 | 0.27 | 0.30 |
|                      |   | .004                          | .006 | .006 | .007 | .008 | .007 | .008 | .008 | .008 | .009 | .009 | .011 | .011 | .011 | .012 |
| 2                    |   | 0.09                          | 0.15 | 0.15 | 0.15 | 0.19 | 0.17 | 0.19 | 0.19 | 0.19 | 0.23 | 0.22 | 0.25 | 0.28 | 0.26 | 0.29 |
|                      |   | .004                          | .006 | .006 | .006 | .007 | .007 | .007 | .007 | .007 | .009 | .009 | .010 | .011 | .010 | .011 |
| 3                    |   | 0.08                          | 0.12 | 0.14 | 0.14 | 0.18 | 0.16 | 0.18 | 0.18 | 0.19 | 0.22 | 0.22 | 0.24 | 0.27 | 0.26 | 0.29 |
|                      |   | .003                          | .005 | .006 | .006 | .007 | .006 | .007 | .007 | .007 | .009 | .009 | .009 | .011 | .010 | .011 |
| 4                    |   | 0.07                          | 0.07 | 0.12 | 0.13 | 0.16 | 0.15 | 0.17 | 0.17 | 0.18 | 0.21 | 0.21 | 0.23 | 0.26 | 0.25 | 0.28 |
|                      |   | .003                          | .003 | .005 | .005 | .006 | .006 | .007 | .007 | .007 | .008 | .008 | .009 | .010 | .010 | .011 |
| 5                    |   |                               |      | 0.08 | 0.12 | 0.14 | 0.14 | 0.16 | 0.17 | 0.17 | 0.21 | 0.21 | 0.23 | 0.25 | 0.25 | 0.27 |
|                      |   |                               |      | .003 | .005 | .006 | .006 | .006 | .007 | .007 | .008 | .008 | .009 | .010 | .010 | .011 |
| 6                    |   |                               |      |      | 0.08 | 0.08 | 0.13 | 0.15 | 0.16 | 0.17 | 0.20 | 0.20 | 0.22 | 0.25 | 0.24 | 0.26 |
|                      |   |                               |      |      | .003 | .003 | .005 | .006 | .006 | .006 | .008 | .008 | .009 | .010 | .009 | .010 |
| 7                    |   |                               |      |      |      |      | 0.11 | 0.13 | 0.15 | 0.16 | 0.18 | 0.19 | 0.21 | 0.24 | 0.23 | 0.26 |
|                      |   |                               |      |      |      |      | .004 | .005 | .006 | .006 | .007 | .007 | .008 | .009 | .009 | .010 |
| 8                    |   |                               |      |      |      |      | 0.08 | 0.08 | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | 0.23 | 0.23 | 0.25 |
|                      |   |                               |      |      |      |      | .003 | .003 | .006 | .006 | .007 | .007 | .008 | .009 | .009 | .010 |
| 9                    |   |                               |      |      |      |      |      |      | 0.12 | 0.14 | 0.16 | 0.17 | 0.19 | 0.22 | 0.22 | 0.24 |
|                      |   |                               |      |      |      |      |      |      | .005 | .006 | .006 | .007 | .007 | .009 | .009 | .009 |
| 10                   |   |                               |      |      |      |      |      |      | 0.08 | 0.13 | 0.15 | 0.16 | 0.18 | 0.20 | 0.21 | 0.23 |
|                      |   |                               |      |      |      |      |      |      | .003 | .005 | .006 | .006 | .007 | .008 | .008 | .009 |
| 11                   |   |                               |      |      |      |      |      |      |      | 0.12 | 0.13 | 0.15 | 0.17 | 0.19 | 0.20 | 0.22 |
|                      |   |                               |      |      |      |      |      |      |      | .005 | .005 | .006 | .007 | .007 | .008 | .009 |
| 12                   |   |                               |      |      |      |      |      |      |      | 0.08 | 0.08 | 0.14 | 0.16 | 0.17 | 0.19 | 0.20 |
|                      |   |                               |      |      |      |      |      |      |      | .003 | .003 | .006 | .006 | .007 | .007 | .008 |
| 13                   |   |                               |      |      |      |      |      |      |      |      |      | 0.12 | 0.14 | 0.15 | 0.18 | 0.19 |
|                      |   |                               |      |      |      |      |      |      |      |      |      | .005 | .006 | .006 | .007 | .007 |
| 14                   |   |                               |      |      |      |      |      |      |      |      |      | 0.08 | 0.10 | 0.10 | 0.16 | 0.17 |
|                      |   |                               |      |      |      |      |      |      |      |      |      | .003 | .004 | .004 | .006 | .007 |
| 15                   |   |                               |      |      |      |      |      |      |      |      |      |      |      |      | 0.14 | 0.15 |
|                      |   |                               |      |      |      |      |      |      |      |      |      |      |      |      | .006 | .006 |
| 16                   |   |                               |      |      |      |      |      |      |      |      |      |      |      |      | 0.10 | 0.10 |
|                      |   |                               |      |      |      |      |      |      |      |      |      |      |      |      | .004 | .004 |
| Avance total         |   | 0.34                          | 0.50 | 0.65 | 0.79 | 0.95 | 1.11 | 1.26 | 1.56 | 1.88 | 2.18 | 2.49 | 2.79 | 3.10 | 3.39 | 3.70 |
|                      |   | .013                          | .020 | .026 | .031 | .037 | .044 | .050 | .061 | .077 | .096 | .110 | .122 | .133 | .145 |      |

Dimensiones x y z



mm  
pulgadas

## ISO métrica (MM), interior

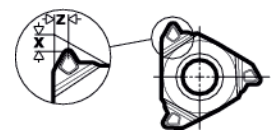
|                      |   | Paso, mm                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------|---|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                      |   | 0,50                          | 0,75 | 1,00 | 1,25 | 1,50 | 1,75 | 2,00 | 2,50 | 3,00 | 3,50 | 4,00 | 4,50 | 5,00 | 5,50 | 6,00 |
|                      |   | 1,30                          | 1,30 | 1,30 | 1,30 | 1,30 | 1,30 | 1,30 | 1,30 | 1,30 | 1,64 | 1,64 | 1,64 | 1,35 | 1,06 | 0,87 |
|                      |   | .051                          | .051 | .051 | .051 | .051 | .051 | .051 | .051 | .051 | .065 | .065 | .065 | .065 | .053 | .042 |
| x                    | z | 0,50                          | 0,50 | 0,80 | 0,80 | 1,00 | 1,20 | 1,40 | 1,40 | 1,80 | 2,50 | 2,50 | 2,50 | 2,50 | 2,50 | 2,40 |
|                      |   | .020                          | .020 | .031 | .031 | .039 | .047 | .055 | .055 | .071 | .098 | .098 | .098 | .098 | .098 | .098 |
| N.º de penetraciones |   | Penetración radial por pasada |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1                    |   | 0,10                          | 0,15 | 0,15 | 0,16 | 0,20 | 0,16 | 0,19 | 0,19 | 0,19 | 0,22 | 0,21 | 0,23 | 0,26 | 0,25 | 0,28 |
|                      |   | .004                          | .006 | .006 | .006 | .008 | .006 | .007 | .007 | .007 | .009 | .008 | .009 | .010 | .010 | .011 |
| 2                    |   | 0,09                          | 0,14 | 0,14 | 0,15 | 0,18 | 0,15 | 0,18 | 0,18 | 0,18 | 0,21 | 0,21 | 0,23 | 0,26 | 0,25 | 0,27 |
|                      |   | .004                          | .005 | .006 | .006 | .007 | .006 | .007 | .007 | .007 | .008 | .008 | .009 | .010 | .010 | .011 |
| 3                    |   | 0,08                          | 0,12 | 0,13 | 0,14 | 0,17 | 0,15 | 0,17 | 0,17 | 0,18 | 0,20 | 0,20 | 0,22 | 0,25 | 0,24 | 0,26 |
|                      |   | .003                          | .005 | .005 | .006 | .007 | .006 | .007 | .007 | .007 | .008 | .008 | .009 | .010 | .010 | .010 |
| 4                    |   | 0,07                          | 0,07 | 0,12 | 0,13 | 0,15 | 0,14 | 0,16 | 0,17 | 0,17 | 0,20 | 0,19 | 0,22 | 0,24 | 0,24 | 0,26 |
|                      |   | .003                          | .003 | .005 | .005 | .006 | .006 | .006 | .007 | .007 | .008 | .008 | .009 | .010 | .009 | .010 |
| 5                    |   |                               |      | 0,08 | 0,11 | 0,13 | 0,13 | 0,15 | 0,16 | 0,16 | 0,19 | 0,19 | 0,21 | 0,24 | 0,23 | 0,25 |
|                      |   |                               |      | .003 | .005 | .005 | .005 | .006 | .006 | .006 | .007 | .007 | .008 | .009 | .009 | .010 |
| 6                    |   |                               |      |      | 0,08 | 0,08 | 0,12 | 0,14 | 0,15 | 0,16 | 0,18 | 0,18 | 0,20 | 0,23 | 0,22 | 0,24 |
|                      |   |                               |      |      | .003 | .003 | .005 | .005 | .006 | .006 | .007 | .007 | .008 | .009 | .009 | .010 |
| 7                    |   |                               |      |      |      |      | 0,11 | 0,12 | 0,14 | 0,15 | 0,17 | 0,18 | 0,20 | 0,22 | 0,22 | 0,24 |
|                      |   |                               |      |      |      |      | .004 | .005 | .006 | .006 | .007 | .007 | .008 | .009 | .009 | .009 |
| 8                    |   |                               |      |      |      |      | 0,08 | 0,08 | 0,13 | 0,14 | 0,16 | 0,17 | 0,19 | 0,21 | 0,21 | 0,23 |
|                      |   |                               |      |      |      |      | .003 | .003 | .005 | .006 | .006 | .007 | .007 | .008 | .008 | .009 |
| 9                    |   |                               |      |      |      |      |      |      | 0,12 | 0,14 | 0,15 | 0,16 | 0,18 | 0,20 | 0,20 | 0,22 |
|                      |   |                               |      |      |      |      |      |      | .005 | .005 | .006 | .006 | .007 | .008 | .008 | .009 |
| 10                   |   |                               |      |      |      |      |      |      | 0,08 | 0,12 | 0,14 | 0,15 | 0,17 | 0,19 | 0,20 | 0,21 |
|                      |   |                               |      |      |      |      |      |      | .003 | .005 | .005 | .006 | .007 | .007 | .008 | .008 |
| 11                   |   |                               |      |      |      |      |      |      |      | 0,11 | 0,12 | 0,14 | 0,16 | 0,18 | 0,19 | 0,20 |
|                      |   |                               |      |      |      |      |      |      |      | .004 | .005 | .006 | .006 | .007 | .007 | .008 |
| 12                   |   |                               |      |      |      |      |      |      |      | 0,08 | 0,08 | 0,13 | 0,15 | 0,16 | 0,18 | 0,19 |
|                      |   |                               |      |      |      |      |      |      |      | .003 | .003 | .005 | .006 | .006 | .007 | .008 |
| 13                   |   |                               |      |      |      |      |      |      |      |      |      | 0,12 | 0,14 | 0,15 | 0,17 | 0,18 |
|                      |   |                               |      |      |      |      |      |      |      |      |      | .005 | .005 | .006 | .007 | .007 |
| 14                   |   |                               |      |      |      |      |      |      |      |      |      | 0,08 | 0,10 | 0,10 | 0,16 | 0,16 |
|                      |   |                               |      |      |      |      |      |      |      |      |      | .003 | .004 | .004 | .006 | .006 |
| 15                   |   |                               |      |      |      |      |      |      |      |      |      |      |      |      | 0,14 | 0,15 |
|                      |   |                               |      |      |      |      |      |      |      |      |      |      |      |      | .005 | .006 |
| 16                   |   |                               |      |      |      |      |      |      |      |      |      |      |      |      | 0,10 | 0,10 |
|                      |   |                               |      |      |      |      |      |      |      |      |      |      |      |      | .004 | .004 |
| Avance total         |   | 0,34                          | 0,48 | 0,63 | 0,77 | 0,92 | 1,05 | 1,20 | 1,48 | 1,78 | 2,03 | 2,31 | 2,61 | 2,88 | 3,19 | 3,44 |
|                      |   | .013                          | .019 | .025 | .030 | .036 | .041 | .047 | .058 | .070 | .080 | .091 | .103 | .113 | .126 | .135 |

Penetración total =  $a_p + 0,05$  mm (0,002 pulgadas)

## ISO pulgadas (UN), exterior

|                      |  | Paso, TPI                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------|--|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                      |  | 32                            | 28   | 24   | 20   | 18   | 16   | 14   | 13   | 12   | 11   | 10   | 9    | 8    | 7    | 6    | 5    | 4.5  | 4    |
|                      |  | x                             | z    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                      |  | 1.32                          | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.67 | 1.67 | 1.38 | 1.09 | 0.79 |
|                      |  | .052                          | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .066 | .066 | .054 | .043 | .031 |
|                      |  | 0.50                          | 0.80 | 0.80 | 0.80 | 1.00 | 1.00 | 1.20 | 1.40 | 1.40 | 1.40 | 1.40 | 1.80 | 1.80 | 2.50 | 2.50 | 2.50 | 2.65 | 2.90 |
|                      |  | .020                          | .031 | .031 | .031 | .039 | .039 | .047 | .055 | .055 | .055 | .055 | .071 | .071 | .098 | .098 | .098 | .104 | .114 |
| N.º de penetraciones |  | Penetración radial por pasada |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1                    |  | 0.17                          | 0.15 | 0.18 | 0.18 | 0.20 | 0.19 | 0.18 | 0.20 | 0.22 | 0.21 | 0.21 | 0.21 | 0.22 | 0.25 | 0.24 | 0.29 | 0.28 | 0.32 |
|                      |  | .007                          | .006 | .007 | .007 | .008 | .007 | .007 | .008 | .009 | .008 | .008 | .008 | .009 | .010 | .009 | .012 | .011 | .013 |
| 2                    |  | 0.16                          | 0.14 | 0.16 | 0.17 | 0.18 | 0.18 | 0.18 | 0.19 | 0.21 | 0.20 | 0.20 | 0.20 | 0.21 | 0.24 | 0.23 | 0.29 | 0.28 | 0.32 |
|                      |  | .006                          | .005 | .006 | .007 | .007 | .007 | .007 | .007 | .008 | .008 | .008 | .008 | .008 | .009 | .009 | .011 | .011 | .012 |
| 3                    |  | 0.13                          | 0.13 | 0.15 | 0.15 | 0.17 | 0.17 | 0.17 | 0.18 | 0.20 | 0.19 | 0.19 | 0.19 | 0.20 | 0.23 | 0.23 | 0.28 | 0.27 | 0.31 |
|                      |  | .005                          | .005 | .006 | .006 | .007 | .007 | .007 | .007 | .008 | .008 | .008 | .008 | .008 | .009 | .009 | .011 | .011 | .012 |
| 4                    |  | 0.08                          | 0.11 | 0.13 | 0.14 | 0.15 | 0.16 | 0.16 | 0.17 | 0.19 | 0.18 | 0.18 | 0.19 | 0.20 | 0.22 | 0.22 | 0.27 | 0.26 | 0.30 |
|                      |  | .003                          | .004 | .005 | .006 | .006 | .006 | .006 | .007 | .007 | .007 | .007 | .007 | .008 | .009 | .009 | .011 | .010 | .012 |
| 5                    |  | 0.08                          | 0.08 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.17 | 0.17 | 0.18 | 0.19 | 0.21 | 0.21 | 0.26 | 0.26 | 0.29 |      |
|                      |  | .003                          | .003 | .005 | .005 | .006 | .006 | .006 | .007 | .007 | .007 | .007 | .007 | .008 | .008 | .010 | .010 | .011 |      |
| 6                    |  |                               |      | 0.08 | 0.08 | 0.12 | 0.14 | 0.14 | 0.15 | 0.16 | 0.16 | 0.17 | 0.18 | 0.20 | 0.21 | 0.25 | 0.25 | 0.28 |      |
|                      |  |                               |      | .003 | .003 | .005 | .005 | .006 | .006 | .006 | .006 | .007 | .007 | .008 | .008 | .010 | .010 | .011 |      |
| 7                    |  |                               |      |      | 0.08 | 0.12 | 0.13 | 0.15 | 0.15 | 0.16 | 0.17 | 0.19 | 0.20 | 0.24 | 0.24 | 0.24 | 0.24 | 0.27 |      |
|                      |  |                               |      |      | .003 | .005 | .005 | .005 | .006 | .006 | .006 | .007 | .008 | .008 | .010 | .010 | .010 | .011 |      |
| 8                    |  |                               |      |      |      | 0.08 | 0.08 | 0.13 | 0.14 | 0.15 | 0.16 | 0.18 | 0.19 | 0.23 | 0.23 | 0.23 | 0.26 |      |      |
|                      |  |                               |      |      |      | .003 | .003 | .003 | .005 | .006 | .006 | .006 | .007 | .008 | .009 | .009 | .010 |      |      |
| 9                    |  |                               |      |      |      |      |      |      |      | 0.08 | 0.12 | 0.14 | 0.15 | 0.17 | 0.18 | 0.22 | 0.22 | 0.25 |      |
|                      |  |                               |      |      |      |      |      |      |      | .003 | .005 | .005 | .006 | .007 | .007 | .009 | .009 | .010 |      |
| 10                   |  |                               |      |      |      |      |      |      |      |      | 0.08 | 0.12 | 0.14 | 0.15 | 0.18 | 0.21 | 0.22 | 0.24 |      |
|                      |  |                               |      |      |      |      |      |      |      |      | .003 | .005 | .005 | .006 | .007 | .008 | .008 | .010 |      |
| 11                   |  |                               |      |      |      |      |      |      |      |      |      | 0.08 | 0.12 | 0.13 | 0.17 | 0.19 | 0.21 | 0.23 |      |
|                      |  |                               |      |      |      |      |      |      |      |      |      | .003 | .005 | .005 | .007 | .008 | .008 | .009 |      |
| 12                   |  |                               |      |      |      |      |      |      |      |      |      |      | 0.08 | 0.08 | 0.15 | 0.18 | 0.19 | 0.22 |      |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      | .003 | .003 | .006 | .007 | .008 | .008 |      |
| 13                   |  |                               |      |      |      |      |      |      |      |      |      |      |      |      | 0.14 | 0.15 | 0.18 | 0.20 |      |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      |      |      | .005 | .006 | .007 | .008 |      |
| 14                   |  |                               |      |      |      |      |      |      |      |      |      |      |      |      | 0.10 | 0.10 | 0.17 | 0.18 |      |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      |      |      | .004 | .004 | .007 | .007 |      |
| 15                   |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0.15 | 0.16 |      |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      | .006 | .006 |      |
| 16                   |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0.10 | 0.10 |      |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      | .004 | .004 |      |
| Avance total         |  | 0.54                          | 0.60 | 0.70 | 0.84 | 0.92 | 1.04 | 1.17 | 1.24 | 1.35 | 1.47 | 1.62 | 1.79 | 2.02 | 2.26 | 2.64 | 3.17 | 3.51 | 3.94 |
|                      |  | .021                          | .024 | .028 | .033 | .036 | .041 | .046 | .049 | .053 | .058 | .064 | .070 | .080 | .089 | .104 | .125 | .138 | .155 |

Dimensiones x y z



mm  
pulgadas

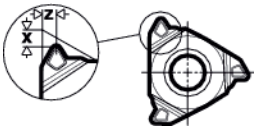
## ISO pulgadas (UN), interior

|                      |  | Paso, TPI                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------|--|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                      |  | 32                            | 28   | 24   | 20   | 18   | 16   | 14   | 13   | 12   | 11   | 10   | 9    | 8    | 7    | 6    | 5    | 4.5  | 4    |
|                      |  | x                             | z    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                      |  | 1.30                          | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.64 | 1.64 | 1.35 | 1.06 | 0.87 |
|                      |  | .051                          | .051 | .051 | .051 | .051 | .051 | .051 | .051 | .051 | .051 | .051 | .051 | .051 | .065 | .065 | .053 | .042 | .034 |
|                      |  | 0.50                          | 0.80 | 0.80 | 0.80 | 1.00 | 1.00 | 1.20 | 1.40 | 1.40 | 1.40 | 1.40 | 1.80 | 1.80 | 2.50 | 2.50 | 2.50 | 2.50 | 2.60 |
|                      |  | .020                          | .031 | .031 | .031 | .039 | .039 | .047 | .055 | .055 | .055 | .055 | .071 | .071 | .098 | .098 | .098 | .098 | .102 |
| N.º de penetraciones |  | Penetración radial por pasada |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 1                    |  | 0.16                          | 0.14 | 0.16 | 0.10 | 0.15 | 0.15 | 0.16 | 0.20 | 0.16 | 0.19 | 0.19 | 0.19 | 0.22 | 0.21 | 0.23 | 0.26 | 0.25 | 0.28 |
|                      |  | .006                          | .005 | .006 | .004 | .006 | .006 | .006 | .008 | .006 | .007 | .007 | .007 | .009 | .008 | .009 | .010 | .010 | .011 |
| 2                    |  | 0.14                          | 0.13 | 0.15 | 0.09 | 0.14 | 0.14 | 0.15 | 0.18 | 0.15 | 0.18 | 0.18 | 0.18 | 0.21 | 0.21 | 0.23 | 0.26 | 0.25 | 0.27 |
|                      |  | .006                          | .005 | .006 | .004 | .005 | .006 | .006 | .007 | .006 | .007 | .007 | .007 | .008 | .008 | .009 | .010 | .010 | .011 |
| 3                    |  | 0.13                          | 0.12 | 0.14 | 0.08 | 0.12 | 0.13 | 0.14 | 0.17 | 0.15 | 0.17 | 0.17 | 0.18 | 0.20 | 0.20 | 0.22 | 0.25 | 0.24 | 0.26 |
|                      |  | .005                          | .005 | .006 | .003 | .005 | .005 | .006 | .007 | .006 | .007 | .007 | .007 | .008 | .008 | .009 | .010 | .010 | .010 |
| 4                    |  | 0.08                          | 0.11 | 0.12 | 0.07 | 0.07 | 0.12 | 0.13 | 0.15 | 0.14 | 0.16 | 0.17 | 0.17 | 0.20 | 0.19 | 0.22 | 0.24 | 0.24 | 0.26 |
|                      |  | .003                          | .004 | .005 | .003 | .003 | .005 | .005 | .006 | .006 | .006 | .007 | .007 | .008 | .008 | .009 | .010 | .009 | .010 |
| 5                    |  |                               | 0.08 | 0.08 |      |      | 0.08 | 0.11 | 0.13 | 0.13 | 0.15 | 0.16 | 0.16 | 0.19 | 0.19 | 0.21 | 0.24 | 0.23 | 0.25 |
|                      |  |                               | .003 | .003 |      |      | .003 | .005 | .005 | .005 | .006 | .006 | .006 | .007 | .007 | .008 | .009 | .009 | .010 |
| 6                    |  |                               |      |      |      |      |      | 0.08 | 0.08 | 0.12 | 0.14 | 0.15 | 0.16 | 0.18 | 0.18 | 0.20 | 0.23 | 0.22 | 0.24 |
|                      |  |                               |      |      |      |      |      | .003 | .003 | .005 | .005 | .006 | .006 | .007 | .007 | .008 | .009 | .009 | .010 |
| 7                    |  |                               |      |      |      |      |      |      |      | 0.11 | 0.12 | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | 0.22 | 0.22 | 0.24 |
|                      |  |                               |      |      |      |      |      |      |      | .004 | .005 | .006 | .006 | .007 | .007 | .008 | .009 | .009 | .009 |
| 8                    |  |                               |      |      |      |      |      |      |      | 0.08 | 0.08 | 0.13 | 0.14 | 0.16 | 0.17 | 0.19 | 0.21 | 0.21 | 0.23 |
|                      |  |                               |      |      |      |      |      |      |      | .003 | .003 | .005 | .006 | .006 | .007 | .007 | .008 | .008 | .009 |
| 9                    |  |                               |      |      |      |      |      |      |      |      |      | 0.12 | 0.14 | 0.15 | 0.16 | 0.18 | 0.20 | 0.20 | 0.22 |
|                      |  |                               |      |      |      |      |      |      |      |      |      | .005 | .005 | .006 | .006 | .007 | .008 | .008 | .009 |
| 10                   |  |                               |      |      |      |      |      |      |      |      |      | 0.08 | 0.12 | 0.14 | 0.15 | 0.17 | 0.19 | 0.20 | 0.21 |
|                      |  |                               |      |      |      |      |      |      |      |      |      | .003 | .005 | .005 | .006 | .007 | .007 | .008 | .008 |
| 11                   |  |                               |      |      |      |      |      |      |      |      |      |      | 0.11 | 0.12 | 0.14 | 0.16 | 0.18 | 0.19 | 0.20 |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      | .004 | .005 | .006 | .006 | .007 | .007 | .008 |
| 12                   |  |                               |      |      |      |      |      |      |      |      |      |      |      | 0.08 | 0.08 | 0.13 | 0.15 | 0.16 | 0.18 |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      |      | .003 | .003 | .005 | .006 | .006 | .007 |
| 13                   |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      | 0.12 | 0.14 | 0.15 | 0.17 |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      | .005 | .005 | .006 | .007 |
| 14                   |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      | 0.08 | 0.10 | 0.10 | 0.16 |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      | .003 | .004 | .004 | .006 |
| 15                   |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0.14 | 0.15 |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | .005 | .006 |
| 16                   |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 0.10 | 0.10 |
|                      |  |                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | .004 | .004 |
| Avance total         |  | 0.51                          | 0.58 | 0.66 | 0.34 | 0.48 | 0.63 | 0.77 | 0.92 | 1.05 | 1.20 | 1.48 | 1.78 | 2.03 | 2.31 | 2.61 | 2.88 | 3.19 | 3.44 |
|                      |  | .020                          | .023 | .026 | .013 | .019 | .025 | .030 | .036 | .041 | .047 | .058 | .070 | .080 | .091 | .103 | .113 | .126 | .135 |

Whitworth (WH), exterior e interior

|                      |   | Paso, TPI                     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|----------------------|---|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                      |   | 28                            | 26           | 20           | 19           | 18           | 16           | 14           | 12           | 11           | 10           | 9            | 8            | 7            | 6            | 5            | 4,5          | 4            |
| Exterior             | x | 1.32<br>.052                  | 1.32<br>.052 | 1.32<br>.052 | 1.32<br>.052 | 1.32<br>.052 | 1.32<br>.052 | 1.32<br>.052 | 1.32<br>.052 | 1.32<br>.052 | 1.32<br>.052 | 1.32<br>.052 | 1.32<br>.052 | 1.67<br>.066 | 1.67<br>.066 | 1.38<br>.054 | 0.99<br>.039 | 0.59<br>.023 |
|                      | z | 0.80<br>.031                  | 0.80<br>.031 | 0.80<br>.031 | 0.80<br>.031 | 1.00<br>.039 | 1.00<br>.039 | 1.40<br>.055 | 1.40<br>.055 | 1.40<br>.055 | 1.40<br>.055 | 1.80<br>.071 | 1.80<br>.071 | 2.50<br>.098 | 2.50<br>.098 | 2.50<br>.098 | 2.65<br>.104 | 2.75<br>.108 |
| Interior             | x |                               |              |              | 1.30<br>.051 | 1.30<br>.051 | 1.30<br>.051 | 1.30<br>.051 | 1.30<br>.051 | 1.30<br>.051 | 1.30<br>.051 | 1.30<br>.051 | 1.30<br>.051 | 1.64<br>.065 | 1.64<br>.065 | 1.35<br>.053 | 0.96<br>.038 | 0.67<br>.029 |
|                      | z |                               |              |              | 0.80<br>.031 | 0.80<br>.031 | 1.00<br>.039 | 1.20<br>.047 | 1.40<br>.055 | 1.40<br>.055 | 1.40<br>.055 | 1.80<br>.071 | 1.80<br>.071 | 2.50<br>.098 | 2.50<br>.098 | 2.50<br>.098 | 2.65<br>.104 | 2.75<br>.108 |
| N.º de penetraciones |   | Penetración radial por pasada |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| 1                    |   | 0.16<br>.006                  | 0.17<br>.007 | 0.19<br>.007 | 0.20<br>.008 | 0.17<br>.007 | 0.17<br>.007 | 0.20<br>.008 | 0.23<br>.009 | 0.22<br>.009 | 0.22<br>.009 | 0.22<br>.009 | 0.23<br>.009 | 0.26<br>.010 | 0.25<br>.010 | 0.31<br>.012 | 0.30<br>.012 | 0.34<br>.013 |
| 2                    |   | 0.15<br>.006                  | 0.16<br>.006 | 0.18<br>.007 | 0.18<br>.007 | 0.16<br>.006 | 0.16<br>.006 | 0.19<br>.007 | 0.22<br>.009 | 0.21<br>.008 | 0.21<br>.008 | 0.21<br>.008 | 0.22<br>.009 | 0.26<br>.010 | 0.25<br>.010 | 0.30<br>.012 | 0.29<br>.012 | 0.33<br>.013 |
| 3                    |   | 0.14<br>.005                  | 0.14<br>.006 | 0.16<br>.006 | 0.17<br>.007 | 0.16<br>.006 | 0.15<br>.006 | 0.18<br>.007 | 0.21<br>.008 | 0.20<br>.008 | 0.20<br>.008 | 0.20<br>.008 | 0.21<br>.008 | 0.25<br>.010 | 0.24<br>.009 | 0.29<br>.012 | 0.29<br>.011 | 0.32<br>.013 |
| 4                    |   | 0.12<br>.005                  | 0.13<br>.005 | 0.15<br>.006 | 0.15<br>.006 | 0.15<br>.006 | 0.15<br>.006 | 0.17<br>.007 | 0.20<br>.008 | 0.19<br>.008 | 0.19<br>.008 | 0.20<br>.008 | 0.21<br>.008 | 0.24<br>.009 | 0.23<br>.009 | 0.28<br>.011 | 0.28<br>.011 | 0.31<br>.012 |
| 5                    |   | 0.08<br>.003                  | 0.08<br>.003 | 0.13<br>.005 | 0.13<br>.005 | 0.13<br>.005 | 0.14<br>.005 | 0.16<br>.006 | 0.18<br>.007 | 0.18<br>.007 | 0.18<br>.007 | 0.19<br>.007 | 0.20<br>.008 | 0.23<br>.009 | 0.23<br>.009 | 0.28<br>.011 | 0.27<br>.011 | 0.30<br>.012 |
| 6                    |   |                               |              | 0.08<br>.003 | 0.08<br>.003 | 0.12<br>.005 | 0.13<br>.005 | 0.14<br>.006 | 0.16<br>.006 | 0.17<br>.007 | 0.17<br>.007 | 0.18<br>.007 | 0.19<br>.008 | 0.22<br>.009 | 0.22<br>.009 | 0.27<br>.010 | 0.26<br>.010 | 0.29<br>.012 |
| 7                    |   |                               |              |              |              | 0.08<br>.003 | 0.11<br>.004 | 0.12<br>.005 | 0.14<br>.005 | 0.15<br>.006 | 0.16<br>.006 | 0.17<br>.007 | 0.18<br>.007 | 0.20<br>.008 | 0.21<br>.008 | 0.25<br>.010 | 0.25<br>.010 | 0.28<br>.011 |
| 8                    |   |                               |              |              |              |              | 0.08<br>.003 | 0.08<br>.003 | 0.08<br>.003 | 0.13<br>.005 | 0.15<br>.006 | 0.16<br>.006 | 0.17<br>.007 | 0.19<br>.008 | 0.20<br>.008 | 0.24<br>.010 | 0.25<br>.010 | 0.27<br>.011 |
| 9                    |   |                               |              |              |              |              |              | 0.08<br>.003 | 0.13<br>.003 | 0.13<br>.005 | 0.14<br>.006 | 0.16<br>.006 | 0.18<br>.007 | 0.18<br>.008 | 0.19<br>.008 | 0.23<br>.010 | 0.24<br>.010 | 0.26<br>.011 |
| 10                   |   |                               |              |              |              |              |              |              | 0.08<br>.003 | 0.12<br>.005 | 0.12<br>.005 | 0.14<br>.006 | 0.16<br>.006 | 0.18<br>.007 | 0.18<br>.009 | 0.22<br>.009 | 0.23<br>.009 | 0.25<br>.010 |
| 11                   |   |                               |              |              |              |              |              |              |              | 0.08<br>.003 | 0.12<br>.005 | 0.14<br>.005 | 0.16<br>.007 | 0.17<br>.008 | 0.20<br>.008 | 0.22<br>.008 | 0.24<br>.009 | 0.26<br>.009 |
| 12                   |   |                               |              |              |              |              |              |              |              |              | 0.08<br>.003 | 0.12<br>.005 | 0.14<br>.007 | 0.16<br>.008 | 0.18<br>.008 | 0.20<br>.007 | 0.22<br>.008 | 0.24<br>.009 |
| 13                   |   |                               |              |              |              |              |              |              |              |              |              | 0.08<br>.003 | 0.08<br>.003 | 0.16<br>.006 | 0.18<br>.007 | 0.20<br>.007 | 0.22<br>.008 | 0.24<br>.009 |
| 14                   |   |                               |              |              |              |              |              |              |              |              |              |              |              | 0.14<br>.006 | 0.16<br>.006 | 0.19<br>.007 | 0.21<br>.008 | 0.23<br>.009 |
| 15                   |   |                               |              |              |              |              |              |              |              |              |              |              |              | 0.10<br>.004 | 0.10<br>.004 | 0.17<br>.007 | 0.19<br>.007 | 0.21<br>.008 |
| 16                   |   |                               |              |              |              |              |              |              |              |              |              |              |              |              |              | 0.15<br>.006 | 0.16<br>.006 | 0.18<br>.006 |
| Avance total         |   | 0.64<br>.025                  | 0.68<br>.027 | 0.88<br>.035 | 0.92<br>.036 | 0.97<br>.038 | 1.08<br>.043 | 1.23<br>.048 | 1.42<br>.056 | 1.54<br>.061 | 1.70<br>.067 | 1.87<br>.074 | 2.10<br>.083 | 2.39<br>.094 | 2.78<br>.109 | 3.32<br>.131 | 3.69<br>.145 | 4.06<br>.160 |

Dimensiones x y z



mm  
pulgadas

BSPT (PT), exterior e interior

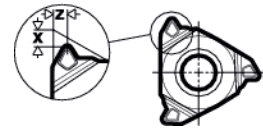
|                      |   | Paso, TPI                     |      |      |      |      |
|----------------------|---|-------------------------------|------|------|------|------|
|                      |   | 28                            | 19   | 14   | 11   | 8    |
| Exterior             | x | 1.32                          | 1.32 | 1.32 | 1.32 | 1.32 |
|                      | z | .052                          | .052 | .052 | .052 | .052 |
| Interior             | x | 0.80                          | 0.80 | 1.20 | 1.40 | 1.80 |
|                      | z | .031                          | .031 | .047 | .055 | .071 |
|                      |   | 1.30                          | 1.30 | 1.30 | 1.30 | 1.30 |
|                      |   | .051                          | .051 | .051 | .051 | .051 |
|                      |   | 0.80                          | 0.80 | 1.20 | 1.40 | 1.80 |
|                      |   | .031                          | .031 | .047 | .055 | .071 |
| N.º de penetraciones |   | Penetración radial por pasada |      |      |      |      |
| 1                    |   | 0.15                          | 0.19 | 0.19 | 0.22 | 0.22 |
|                      |   | .006                          | .008 | .007 | .009 | .009 |
| 2                    |   | 0.14                          | 0.18 | 0.18 | 0.21 | 0.21 |
|                      |   | .006                          | .007 | .007 | .008 | .008 |
| 3                    |   | 0.13                          | 0.17 | 0.17 | 0.20 | 0.21 |
|                      |   | .005                          | .007 | .007 | .008 | .008 |
| 4                    |   | 0.12                          | 0.15 | 0.16 | 0.19 | 0.20 |
|                      |   | .005                          | .006 | .006 | .007 | .008 |
| 5                    |   | 0.08                          | 0.13 | 0.15 | 0.18 | 0.19 |
|                      |   | .003                          | .005 | .006 | .007 | .008 |
| 6                    |   |                               | 0.08 | 0.14 | 0.16 | 0.18 |
|                      |   |                               | .003 | .005 | .006 | .007 |
| 7                    |   |                               |      | 0.12 | 0.15 | 0.17 |
|                      |   |                               |      | .005 | .006 | .007 |
| 8                    |   |                               |      | 0.08 | 0.13 | 0.16 |
|                      |   |                               |      | .003 | .005 | .006 |
| 9                    |   |                               |      |      | 0.08 | 0.15 |
|                      |   |                               |      |      | .003 | .006 |
| 10                   |   |                               |      |      |      | 0.14 |
|                      |   |                               |      |      |      | .006 |
| 11                   |   |                               |      |      |      | 0.12 |
|                      |   |                               |      |      |      | .005 |
| 12                   |   |                               |      |      |      | 0.08 |
|                      |   |                               |      |      |      | .003 |
| Avance total         |   | 0.62                          | 0.90 | 1.20 | 1.51 | 2.05 |
|                      |   | .024                          | .035 | .047 | .059 | .081 |

Penetración total =  $a_p + 0,05$  mm (0,002 pulgadas)

## Redondo 30° Din405 (RN) exterior

|                      |                               | Paso, TPI |      |      |      |
|----------------------|-------------------------------|-----------|------|------|------|
|                      |                               | 10        | 8    | 6    | 4    |
| x                    |                               | 1.33      | 1.33 | 1.43 | 1.38 |
|                      |                               | .052      | .052 | .056 | .054 |
| z                    |                               | 0.83      | 1.05 | 1.50 | 2.60 |
|                      |                               | .034      | .041 | .059 | .102 |
| N.º de penetraciones | Penetración radial por pasada |           |      |      |      |
| 1                    |                               | 0.21      | 0.21 | 0.24 | 0.30 |
|                      |                               | .008      | .008 | .009 | .012 |
| 2                    |                               | 0.20      | 0.20 | 0.23 | 0.29 |
|                      |                               | .008      | .008 | .009 | .011 |
| 3                    |                               | 0.19      | 0.19 | 0.22 | 0.28 |
|                      |                               | .007      | .008 | .009 | .011 |
| 4                    |                               | 0.18      | 0.19 | 0.21 | 0.27 |
|                      |                               | .007      | .007 | .008 | .011 |
| 5                    |                               | 0.16      | 0.18 | 0.20 | 0.26 |
|                      |                               | .006      | .007 | .008 | .010 |
| 6                    |                               | 0.15      | 0.17 | 0.19 | 0.25 |
|                      |                               | .006      | .007 | .008 | .010 |
| 7                    |                               | 0.13      | 0.15 | 0.18 | 0.24 |
|                      |                               | .005      | .006 | .007 | .010 |
| 8                    |                               | 0.08      | 0.14 | 0.17 | 0.23 |
|                      |                               | .003      | .006 | .007 | .009 |
| 9                    |                               |           | 0.12 | 0.16 | 0.22 |
|                      |                               |           | .005 | .006 | .009 |
| 10                   |                               |           | 0.08 | 0.15 | 0.21 |
|                      |                               |           | .003 | .006 | .008 |
| 11                   |                               |           |      | 0.13 | 0.19 |
|                      |                               |           |      | .005 | .008 |
| 12                   |                               |           |      | 0.08 | 0.18 |
|                      |                               |           |      | .003 | .007 |
| 13                   |                               |           |      |      | 0.15 |
|                      |                               |           |      |      | .006 |
| 14                   |                               |           |      |      | 0.10 |
|                      |                               |           |      |      | .004 |
| Avance total         |                               | 1.30      | 1.63 | 2.17 | 2.95 |
|                      |                               | .051      | .064 | .085 | .116 |

Dimensiones x y z



mm  
pulgadas

## Redondo 30° Din405 (RN) interior

|                      |                               | Paso, TPI |      |      |      |
|----------------------|-------------------------------|-----------|------|------|------|
|                      |                               | 10        | 8    | 6    | 4    |
| x                    |                               | 1.30      | 1.30 | 1.45 | 1.35 |
|                      |                               | .051      | .051 | .053 | .053 |
| z                    |                               | 1.85      | 1.05 | 1.35 | 2.60 |
|                      |                               | .073      | .041 | .053 | .102 |
| N.º de penetraciones | Penetración radial por pasada |           |      |      |      |
| 1                    |                               | 0.22      | 0.21 | 0.24 | 0.30 |
|                      |                               | .009      | .008 | .009 | .012 |
| 2                    |                               | 0.21      | 0.20 | 0.23 | 0.29 |
|                      |                               | .008      | .008 | .009 | .011 |
| 3                    |                               | 0.20      | 0.20 | 0.22 | 0.29 |
|                      |                               | .008      | .008 | .009 | .011 |
| 4                    |                               | 0.18      | 0.19 | 0.21 | 0.28 |
|                      |                               | .007      | .007 | .008 | .011 |
| 5                    |                               | 0.17      | 0.18 | 0.21 | 0.27 |
|                      |                               | .007      | .007 | .008 | .011 |
| 6                    |                               | 0.15      | 0.17 | 0.20 | 0.26 |
|                      |                               | .006      | .007 | .008 | .010 |
| 7                    |                               | 0.13      | 0.16 | 0.19 | 0.25 |
|                      |                               | .005      | .006 | .007 | .010 |
| 8                    |                               | 0.08      | 0.14 | 0.17 | 0.24 |
|                      |                               | .003      | .006 | .007 | .009 |
| 9                    |                               |           | 0.12 | 0.16 | 0.23 |
|                      |                               |           | .005 | .006 | .009 |
| 10                   |                               |           | 0.08 | 0.15 | 0.21 |
|                      |                               |           | .003 | .006 | .008 |
| 11                   |                               |           |      | 0.13 | 0.20 |
|                      |                               |           |      | .005 | .008 |
| 12                   |                               |           |      | 0.08 | 0.18 |
|                      |                               |           |      | .003 | .007 |
| 13                   |                               |           |      |      | 0.16 |
|                      |                               |           |      |      | .006 |
| 14                   |                               |           |      |      | 0.10 |
|                      |                               |           |      |      | .004 |
| Avance total         |                               | 1.34      | 1.64 | 2.18 | 2.98 |
|                      |                               | .053      | .065 | .086 | .117 |

## NPT (NT), exterior e interior

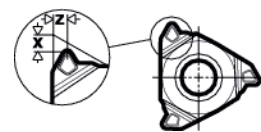
|                      |                               | Paso, TPI |      |      |      |      |
|----------------------|-------------------------------|-----------|------|------|------|------|
|                      |                               | 27        | 18   | 14   | 11½  | 8    |
| Exterior             | x                             | 1.03      | 1.03 | 1.03 | 1.03 | 1.03 |
|                      |                               | .041      | .041 | .041 | .041 | .041 |
| Interior             | z                             | 0.80      | 1.00 | 1.20 | 1.40 | 1.60 |
|                      |                               | .031      | .039 | .047 | .055 | .063 |
|                      | x                             | 0.72      | 1.01 | 1.01 | 1.01 | 1.01 |
|                      |                               | .040      | .040 | .040 | .040 | .040 |
|                      | z                             | 0.85      | 1.20 | 1.20 | 1.40 | 1.60 |
|                      |                               | .047      | .055 | .055 | .063 | .063 |
| N.º de penetraciones | Penetración radial por pasada |           |      |      |      |      |
| 1                    |                               | 0.15      | 0.17 | 0.18 | 0.18 | 0.21 |
|                      |                               | .006      | .007 | .007 | .007 | .008 |
| 2                    |                               | 0.15      | 0.17 | 0.17 | 0.17 | 0.21 |
|                      |                               | .006      | .007 | .007 | .007 | .008 |
| 3                    |                               | 0.14      | 0.16 | 0.16 | 0.17 | 0.20 |
|                      |                               | .005      | .006 | .006 | .007 | .008 |
| 4                    |                               | 0.13      | 0.15 | 0.16 | 0.16 | 0.20 |
|                      |                               | .005      | .006 | .006 | .006 | .008 |
| 5                    |                               | 0.11      | 0.14 | 0.15 | 0.16 | 0.19 |
|                      |                               | .004      | .006 | .006 | .006 | .008 |
| 6                    |                               | 0.08      | 0.13 | 0.14 | 0.15 | 0.18 |
|                      |                               | .003      | .005 | .006 | .006 | .007 |
| 7                    |                               |           | 0.11 | 0.14 | 0.15 | 0.18 |
|                      |                               |           | .005 | .005 | .006 | .007 |
| 8                    |                               |           | 0.08 | 0.13 | 0.14 | 0.17 |
|                      |                               |           | .003 | .005 | .006 | .007 |
| 9                    |                               |           |      | 0.11 | 0.13 | 0.17 |
|                      |                               |           |      | .004 | .005 | .007 |
| 10                   |                               |           |      | 0.08 | 0.12 | 0.16 |
|                      |                               |           |      | .003 | .005 | .006 |
| 11                   |                               |           |      |      | 0.11 | 0.15 |
|                      |                               |           |      |      | .004 | .006 |
| 12                   |                               |           |      |      | 0.08 | 0.14 |
|                      |                               |           |      |      | .003 | .006 |
| 13                   |                               |           |      |      |      | 0.13 |
|                      |                               |           |      |      |      | .005 |
| 14                   |                               |           |      |      |      | 0.11 |
|                      |                               |           |      |      |      | .005 |
| 15                   |                               |           |      |      |      | 0.08 |
|                      |                               |           |      |      |      | .003 |
| Avance total         |                               | 0.76      | 1.11 | 1.42 | 1.73 | 2.48 |
|                      |                               | .030      | .044 | .056 | .068 | .098 |

Penetración total =  $a_p$  + 0,05 mm (0,002 pulgadas)

## ACME (AC), exterior

|                      | x<br><br>z | Paso, TPI                     |              |              |              |              |              |              |              |              |
|----------------------|------------|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                      |            | 16                            | 14           | 12           | 10           | 8            | 6            | 5            | 4            | 3            |
|                      |            | 1.33<br>.052                  | 1.33<br>.052 | 1.33<br>.052 | 1.33<br>.052 | 1.50<br>.059 | 1.37<br>.054 | 1.37<br>.054 | 0.76<br>.030 | 0.54<br>.021 |
|                      |            | 1.00<br>.039                  | 1.10<br>.043 | 1.20<br>.047 | 1.30<br>.051 | 1.50<br>.059 | 1.90<br>.075 | 2.10<br>.083 | 2.40<br>.094 | 3.30<br>.130 |
| N.º de penetraciones |            | Penetración radial por pasada |              |              |              |              |              |              |              |              |
| 1                    |            | 0.22<br>.009                  | 0.20<br>.008 | 0.20<br>.008 | 0.20<br>.008 | 0.20<br>.008 | 0.24<br>.009 | 0.26<br>.010 | 0.28<br>.011 | 0.31<br>.012 |
| 2                    |            | 0.20<br>.008                  | 0.19<br>.008 | 0.19<br>.008 | 0.20<br>.008 | 0.20<br>.008 | 0.23<br>.009 | 0.25<br>.010 | 0.28<br>.011 | 0.31<br>.012 |
| 3                    |            | 0.19<br>.007                  | 0.18<br>.007 | 0.18<br>.007 | 0.19<br>.007 | 0.19<br>.008 | 0.23<br>.009 | 0.25<br>.010 | 0.27<br>.011 | 0.30<br>.012 |
| 4                    |            | 0.17<br>.007                  | 0.17<br>.007 | 0.17<br>.007 | 0.18<br>.007 | 0.18<br>.007 | 0.22<br>.009 | 0.24<br>.010 | 0.26<br>.010 | 0.30<br>.012 |
| 5                    |            | 0.14<br>.006                  | 0.15<br>.006 | 0.16<br>.006 | 0.17<br>.007 | 0.18<br>.007 | 0.21<br>.008 | 0.23<br>.009 | 0.26<br>.010 | 0.29<br>.011 |
| 6                    |            | 0.08<br>.003                  | 0.13<br>.005 | 0.15<br>.006 | 0.16<br>.006 | 0.17<br>.007 | 0.20<br>.008 | 0.23<br>.009 | 0.25<br>.010 | 0.28<br>.011 |
| 7                    |            |                               | 0.08<br>.003 | 0.13<br>.005 | 0.15<br>.006 | 0.16<br>.006 | 0.20<br>.008 | 0.22<br>.009 | 0.24<br>.010 | 0.28<br>.011 |
| 8                    |            |                               |              | 0.08<br>.003 | 0.14<br>.005 | 0.15<br>.006 | 0.19<br>.007 | 0.21<br>.008 | 0.23<br>.009 | 0.27<br>.011 |
| 9                    |            |                               |              |              | 0.12<br>.005 | 0.14<br>.006 | 0.18<br>.007 | 0.20<br>.008 | 0.22<br>.009 | 0.26<br>.010 |
| 10                   |            |                               |              |              | 0.08<br>.003 | 0.13<br>.005 | 0.17<br>.007 | 0.19<br>.007 | 0.22<br>.008 | 0.25<br>.010 |
| 11                   |            |                               |              |              |              | 0.12<br>.005 | 0.16<br>.006 | 0.18<br>.007 | 0.21<br>.008 | 0.24<br>.010 |
| 12                   |            |                               |              |              |              | 0.08<br>.003 | 0.14<br>.005 | 0.16<br>.006 | 0.19<br>.008 | 0.23<br>.009 |
| 13                   |            |                               |              |              |              |              | 0.10<br>.004 | 0.14<br>.006 | 0.18<br>.007 | 0.22<br>.009 |
| 14                   |            |                               |              |              |              |              |              | 0.10<br>.004 | 0.17<br>.007 | 0.21<br>.008 |
| 15                   |            |                               |              |              |              |              |              |              | 0.15<br>.006 | 0.20<br>.008 |
| 16                   |            |                               |              |              |              |              |              |              | 0.10<br>.004 | 0.19<br>.007 |
| 17                   |            |                               |              |              |              |              |              |              |              | 0.17<br>.007 |
| 18                   |            |                               |              |              |              |              |              |              |              | 0.15<br>.006 |
| 19                   |            |                               |              |              |              |              |              |              |              | .100<br>.004 |
| Avance total         |            | 0.99<br>.039                  | 1.10<br>.043 | 1.26<br>.050 | 1.60<br>.063 | 1.91<br>.075 | 2.46<br>.097 | 2.87<br>.113 | 3.51<br>.138 | 4.57<br>.180 |

Dimensiones x y z



mm  
pulgadas

## ACME (AC), interior

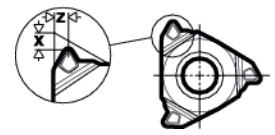
|                      |  | Paso, TPI                     |      |      |      |      |      |      |      |      |
|----------------------|--|-------------------------------|------|------|------|------|------|------|------|------|
|                      |  | 16                            | 14   | 12   | 10   | 8    | 6    | 5    | 4    | 3    |
|                      |  | 1.30                          | 1.30 | 1.33 | 1.33 | 1.14 | 1.33 | 0.92 | 0.81 | 0.54 |
|                      |  | .051                          | .051 | .054 | .054 | .050 | .052 | .036 | .032 | .021 |
|                      |  | 0.80                          | 1.00 | 1.10 | 1.20 | 1.50 | 2.00 | 2.20 | 2.40 | 3.30 |
|                      |  | .031                          | .039 | .039 | .043 | .063 | .079 | .087 | .094 | .130 |
| N.º de penetraciones |  | Penetración radial por pasada |      |      |      |      |      |      |      |      |
| 1                    |  | 0.22                          | 0.21 | 0.21 | 0.21 | 0.21 | 0.24 | 0.26 | 0.29 | 0.31 |
|                      |  | .009                          | .008 | .008 | .008 | .008 | .009 | .010 | .011 | .012 |
| 2                    |  | 0.21                          | 0.20 | 0.20 | 0.20 | 0.20 | 0.23 | 0.26 | 0.28 | 0.31 |
|                      |  | .008                          | .008 | .008 | .008 | .008 | .009 | .010 | .011 | .012 |
| 3                    |  | 0.19                          | 0.19 | 0.19 | 0.20 | 0.20 | 0.23 | 0.25 | 0.27 | 0.30 |
|                      |  | .008                          | .007 | .007 | .008 | .008 | .009 | .010 | .011 | .012 |
| 4                    |  | 0.17                          | 0.17 | 0.18 | 0.19 | 0.19 | 0.22 | 0.24 | 0.27 | 0.29 |
|                      |  | .007                          | .007 | .007 | .007 | .007 | .009 | .010 | .010 | .012 |
| 5                    |  | 0.14                          | 0.16 | 0.16 | 0.18 | 0.18 | 0.21 | 0.24 | 0.26 | 0.29 |
|                      |  | .006                          | .006 | .006 | .007 | .007 | .008 | .009 | .010 | .011 |
| 6                    |  | 0.08                          | 0.13 | 0.15 | 0.17 | 0.17 | 0.21 | 0.23 | 0.25 | 0.28 |
|                      |  | .003                          | .005 | .006 | .007 | .007 | .008 | .009 | .010 | .011 |
| 7                    |  |                               | 0.08 | 0.13 | 0.16 | 0.17 | 0.20 | 0.22 | 0.24 | 0.27 |
|                      |  |                               | .003 | .005 | .006 | .007 | .008 | .009 | .010 | .011 |
| 8                    |  |                               |      | 0.08 | 0.14 | 0.16 | 0.19 | 0.21 | 0.24 | 0.27 |
|                      |  |                               |      | .003 | .006 | .006 | .007 | .008 | .009 | .011 |
| 9                    |  |                               |      |      | 0.12 | 0.15 | 0.18 | 0.20 | 0.23 | 0.26 |
|                      |  |                               |      |      | .005 | .006 | .007 | .008 | .009 | .010 |
| 10                   |  |                               |      |      | 0.08 | 0.13 | 0.17 | 0.19 | 0.22 | 0.25 |
|                      |  |                               |      |      | .003 | .005 | .007 | .008 | .009 | .010 |
| 11                   |  |                               |      |      |      | 0.12 | 0.16 | 0.18 | 0.21 | 0.24 |
|                      |  |                               |      |      |      | .005 | .006 | .007 | .008 | .010 |
| 12                   |  |                               |      |      |      | 0.08 | 0.14 | 0.16 | 0.20 | 0.23 |
|                      |  |                               |      |      |      | .003 | .006 | .006 | .008 | .009 |
| 13                   |  |                               |      |      |      |      | 0.10 | 0.15 | 0.18 | 0.22 |
|                      |  |                               |      |      |      |      | .004 | .006 | .007 | .009 |
| 14                   |  |                               |      |      |      |      |      | 0.10 | 0.17 | 0.21 |
|                      |  |                               |      |      |      |      |      | .004 | .007 | .008 |
| 15                   |  |                               |      |      |      |      |      |      | 0.15 | 0.20 |
|                      |  |                               |      |      |      |      |      |      | .006 | .008 |
| 16                   |  |                               |      |      |      |      |      |      | 0.10 | 0.19 |
|                      |  |                               |      |      |      |      |      |      | .004 | .007 |
| 17                   |  |                               |      |      |      |      |      |      |      | 0.17 |
|                      |  |                               |      |      |      |      |      |      |      | .007 |
| 18                   |  |                               |      |      |      |      |      |      |      | 0.15 |
|                      |  |                               |      |      |      |      |      |      |      | .006 |
| 19                   |  |                               |      |      |      |      |      |      |      | .100 |
|                      |  |                               |      |      |      |      |      |      |      | .004 |
| Avance total         |  | 1.02                          | 1.14 | 1.30 | 1.64 | 1.95 | 2.48 | 2.90 | 3.54 | 4.56 |
|                      |  | .040                          | .045 | .051 | .065 | .077 | .098 | .114 | .139 | .180 |

Penetración total =  $a_p + 0,05$  mm (0,002 pulgadas)

## Stub-ACME (SA), exterior e interior

|                      |   | Paso, TPI                     |      |      |      |      |      |      |      |      |
|----------------------|---|-------------------------------|------|------|------|------|------|------|------|------|
|                      |   | 16                            | 14   | 12   | 10   | 8    | 6    | 5    | 4    | 3    |
| Exterior             | X | 1.32                          | 1.32 | 1.32 | 1.32 | 1.23 | 1.67 | 1.67 | 1.67 | 1.76 |
|                      | Z | .052                          | .052 | .052 | .052 | .048 | .066 | .066 | .066 | .069 |
| Interior             | X | 0.90                          | 1.00 | 1.10 | 1.20 | 1.50 | 1.80 | 2.00 | 2.40 | 3.10 |
|                      | Z | .035                          | .029 | .043 | .047 | .059 | .071 | .079 | .094 | .122 |
| N.º de penetraciones |   | Penetración radial por pasada |      |      |      |      |      |      |      |      |
| 1                    |   | 0.18                          | 0.20 | 0.18 | 0.21 | 0.22 | 0.24 | 0.25 | 0.24 | 0.25 |
| 2                    |   | .007                          | .008 | .007 | .008 | .008 | .009 | .010 | .010 | .010 |
| 3                    |   | 0.16                          | 0.18 | 0.17 | 0.20 | 0.21 | 0.23 | 0.24 | 0.24 | 0.24 |
| 4                    |   | .006                          | .007 | .007 | .008 | .008 | .009 | .009 | .009 | .010 |
| 5                    |   | 0.15                          | 0.17 | 0.16 | 0.19 | 0.19 | 0.22 | 0.23 | 0.23 | 0.24 |
| 6                    |   | .006                          | .007 | .006 | .007 | .008 | .009 | .009 | .009 | .009 |
| 7                    |   | 0.13                          | 0.14 | 0.15 | 0.17 | 0.18 | 0.21 | 0.22 | 0.22 | 0.23 |
| 8                    |   | .005                          | .006 | .006 | .007 | .007 | .008 | .009 | .009 | .009 |
| 9                    |   | 0.08                          | 0.08 | 0.13 | 0.15 | 0.17 | 0.19 | 0.21 | 0.21 | 0.22 |
| 10                   |   | .003                          | .003 | .005 | .006 | .007 | .008 | .008 | .008 | .009 |
| 11                   |   |                               |      | 0.08 | 0.13 | 0.16 | 0.18 | 0.19 | 0.20 | 0.22 |
| 12                   |   |                               |      | .003 | .005 | .006 | .007 | .008 | .008 | .009 |
| 13                   |   |                               |      |      | 0.08 | 0.14 | 0.16 | 0.18 | 0.20 |      |
| 14                   |   |                               |      |      | .003 | .005 | .006 | .007 | .008 |      |
| 15                   |   |                               |      |      |      | 0.08 | 0.14 | 0.17 | 0.19 |      |
| 16                   |   |                               |      |      |      | .003 | .006 | .007 | .008 |      |
| 17                   |   |                               |      |      |      |      | 0.09 | 0.16 | 0.18 |      |
| 18                   |   |                               |      |      |      |      | .004 | .006 | .007 |      |
| 19                   |   |                               |      |      |      |      |      | 0.14 | 0.17 |      |
| 20                   |   |                               |      |      |      |      |      | .005 | .007 |      |
| 21                   |   |                               |      |      |      |      |      | 0.09 | 0.16 |      |
| 22                   |   |                               |      |      |      |      |      | .004 | .006 |      |
| 23                   |   |                               |      |      |      |      |      |      | 0.15 |      |
| 24                   |   |                               |      |      |      |      |      |      | .006 |      |
| 25                   |   |                               |      |      |      |      |      |      |      | 0.13 |
| 26                   |   |                               |      |      |      |      |      |      |      | .005 |
| 27                   |   |                               |      |      |      |      |      |      |      | 0.09 |
| 28                   |   |                               |      |      |      |      |      |      |      | .004 |
| Avance total         |   | 0.70                          | 0.77 | 0.87 | 1.13 | 1.33 | 1.64 | 1.90 | 2.27 | 2.90 |
|                      |   | .028                          | .030 | .034 | .044 | .052 | .065 | .075 | .089 | .114 |

Dimensiones x y z



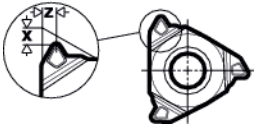
mm  
pulgadas

Penetración total =  $a_p$  + 0,05 mm (0,002 pulgadas)

Trapezoidal (TR), exterior e interior

|                      |   | Paso, mm                      |              |              |              |              |              |              |              |
|----------------------|---|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                      |   | 1.5                           | 2            | 3            | 4            | 5            | 6            | 7            | 8            |
| Exterior             | X | 1.37<br>.054                  | 1.37<br>.054 | 1.27<br>.050 | 1.42<br>.056 | 1.42<br>.056 | 0.81<br>.032 | 0.81<br>.032 | 0.54<br>.021 |
|                      | Z | 1.00<br>.039                  | 1.10<br>.043 | 1.60<br>.063 | 1.90<br>.075 | 2.10<br>.083 | 2.40<br>.094 | 2.40<br>.094 | 3.30<br>.130 |
| Interior             | x |                               | 1.40<br>.055 | 1.29<br>.051 | 1.45<br>.057 | 1.45<br>.057 | 0.83<br>.033 | 1.03<br>.041 | 0.54<br>.021 |
|                      | z |                               | 1.00<br>.043 | 1.60<br>.063 | 1.90<br>.075 | 2.10<br>.083 | 2.40<br>.094 | 2.40<br>.094 | 3.30<br>.130 |
| N.º de penetraciones |   | Penetración radial por pasada |              |              |              |              |              |              |              |
| 1                    |   | 0.22<br>.009                  | 0.22<br>.009 | 0.20<br>.008 | 0.24<br>.009 | 0.27<br>.011 | 0.29<br>.012 | 0.34<br>.013 | 0.32<br>.013 |
| 2                    |   | 0.21<br>.008                  | 0.21<br>.008 | 0.19<br>.007 | 0.23<br>.009 | 0.27<br>.010 | 0.29<br>.011 | 0.33<br>.013 | 0.31<br>.012 |
| 3                    |   | 0.19<br>.008                  | 0.20<br>.008 | 0.18<br>.007 | 0.22<br>.009 | 0.26<br>.010 | 0.28<br>.011 | 0.32<br>.013 | 0.31<br>.012 |
| 4                    |   | 0.17<br>.007                  | 0.19<br>.007 | 0.18<br>.007 | 0.22<br>.009 | 0.25<br>.010 | 0.27<br>.011 | 0.32<br>.012 | 0.30<br>.012 |
| 5                    |   | 0.14<br>.006                  | 0.17<br>.007 | 0.17<br>.007 | 0.21<br>.008 | 0.24<br>.009 | 0.27<br>.010 | 0.31<br>.012 | 0.29<br>.012 |
| 6                    |   | 0.08<br>.003                  | 0.16<br>.006 | 0.17<br>.007 | 0.20<br>.008 | 0.23<br>.009 | 0.26<br>.010 | 0.30<br>.012 | 0.29<br>.011 |
| 7                    |   |                               | 0.13<br>.005 | 0.16<br>.006 | 0.19<br>.008 | 0.22<br>.009 | 0.25<br>.010 | 0.29<br>.011 | 0.28<br>.011 |
| 8                    |   |                               | 0.08<br>.006 | 0.15<br>.007 | 0.18<br>.008 | 0.21<br>.008 | 0.24<br>.010 | 0.28<br>.011 | 0.27<br>.011 |
| 9                    |   |                               |              | 0.14<br>.006 | 0.17<br>.007 | 0.20<br>.008 | 0.23<br>.009 | 0.26<br>.010 | 0.26<br>.010 |
| 10                   |   |                               |              | 0.13<br>.005 | 0.16<br>.006 | 0.19<br>.007 | 0.22<br>.009 | 0.25<br>.010 | 0.25<br>.010 |
| 11                   |   |                               |              | 0.11<br>.005 | 0.14<br>.006 | 0.17<br>.007 | 0.21<br>.008 | 0.24<br>.009 | 0.25<br>.010 |
| 12                   |   |                               |              | 0.08<br>.003 | 0.13<br>.005 | 0.16<br>.006 | 0.20<br>.008 | 0.22<br>.009 | 0.24<br>.009 |
| 13                   |   |                               |              |              | 0.08<br>.003 | 0.13<br>.005 | 0.19<br>.007 | 0.21<br>.008 | 0.23<br>.009 |
| 14                   |   |                               |              |              |              | 0.08<br>.003 | 0.17<br>.007 | 0.19<br>.007 | 0.22<br>.008 |
| 15                   |   |                               |              |              |              |              | 0.15<br>.006 | 0.16<br>.006 | 0.20<br>.008 |
| 16                   |   |                               |              |              |              |              | 0.10<br>.004 | 0.10<br>.004 | 0.19<br>.007 |
| 17                   |   |                               |              |              |              |              |              |              | 0.17<br>.007 |
| 18                   |   |                               |              |              |              |              |              |              | 0.15<br>.006 |
| 19                   |   |                               |              |              |              |              |              |              | 0.10<br>.004 |
| Avance total         |   | 1.02<br>.040                  | 1.36<br>.050 | 1.86<br>.073 | 2.37<br>.093 | 2.88<br>.113 | 3.63<br>.143 | 4.12<br>.162 | 4.62<br>.182 |

Dimensiones x y z



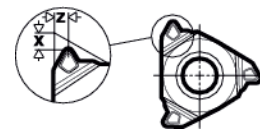
mm  
pulgadas

Penetración total =  $a_p + 0,05$  mm (0,002 pulgadas)

## UNJ, exterior

|                      |                               | Paso, TPI |      |      |      |      |      |      |      |      |      |
|----------------------|-------------------------------|-----------|------|------|------|------|------|------|------|------|------|
|                      |                               | 32        | 28   | 24   | 20   | 18   | 16   | 14   | 12   | 10   | 8    |
| x                    | x                             | 1.32      | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 |
|                      | z                             | .052      | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .052 | .052 |
| z                    | x                             | 0.50      | 0.80 | 0.80 | 0.80 | 1.00 | 1.00 | 1.20 | 1.40 | 1.40 | 1.80 |
|                      | z                             | .020      | .031 | .031 | .031 | .039 | .039 | .047 | .055 | .055 | .071 |
| N.º de penetraciones | Penetración radial por pasada |           |      |      |      |      |      |      |      |      |      |
| 1                    |                               | 0.16      | 0.14 | 0.16 | 0.16 | 0.18 | 0.17 | 0.17 | 0.20 | 0.19 | 0.20 |
|                      |                               | .006      | .005 | .006 | .006 | .007 | .007 | .007 | .008 | .008 | .008 |
| 2                    |                               | 0.14      | 0.13 | 0.15 | 0.15 | 0.17 | 0.16 | 0.16 | 0.19 | 0.19 | 0.20 |
|                      |                               | .006      | .005 | .006 | .006 | .007 | .006 | .006 | .008 | .007 | .008 |
| 3                    |                               | 0.13      | 0.12 | 0.14 | 0.14 | 0.16 | 0.16 | 0.16 | 0.18 | 0.18 | 0.19 |
|                      |                               | .005      | .005 | .006 | .006 | .006 | .006 | .006 | .007 | .007 | .007 |
| 4                    |                               | 0.08      | 0.11 | 0.12 | 0.13 | 0.15 | 0.15 | 0.15 | 0.17 | 0.17 | 0.18 |
|                      |                               | .003      | .004 | .005 | .005 | .006 | .006 | .006 | .007 | .007 | .007 |
| 5                    |                               |           | 0.08 | 0.08 | 0.12 | 0.13 | 0.13 | 0.14 | 0.16 | 0.16 | 0.18 |
|                      |                               |           | .003 | .003 | .005 | .005 | .005 | .005 | .006 | .006 | .007 |
| 6                    |                               |           |      |      | 0.08 | 0.08 | 0.12 | 0.13 | 0.15 | 0.15 | 0.17 |
|                      |                               |           |      |      | .003 | .003 | .005 | .005 | .006 | .006 | .007 |
| 7                    |                               |           |      |      |      | 0.08 | 0.11 | 0.13 | 0.14 | 0.14 | 0.16 |
|                      |                               |           |      |      |      | .003 | .004 | .005 | .006 | .006 | .006 |
| 8                    |                               |           |      |      |      |      | 0.08 | 0.08 | 0.13 | 0.13 | 0.15 |
|                      |                               |           |      |      |      |      | .003 | .003 | .005 | .006 | .006 |
| 9                    |                               |           |      |      |      |      |      |      | 0.12 | 0.14 | 0.14 |
|                      |                               |           |      |      |      |      |      |      | .005 | .006 | .006 |
| 10                   |                               |           |      |      |      |      |      |      | 0.08 | 0.13 | 0.13 |
|                      |                               |           |      |      |      |      |      |      | .003 | .005 | .005 |
| 11                   |                               |           |      |      |      |      |      |      |      | 0.12 | 0.12 |
|                      |                               |           |      |      |      |      |      |      |      | .005 | .005 |
| 12                   |                               |           |      |      |      |      |      |      |      | 0.08 | 0.08 |
|                      |                               |           |      |      |      |      |      |      |      | .003 | .003 |
| Avance total         |                               | 0.51      | 0.57 | 0.66 | 0.78 | 0.87 | 0.97 | 1.10 | 1.27 | 1.52 | 1.90 |
|                      |                               | .020      | .022 | .026 | .031 | .034 | .038 | .043 | .050 | .060 | .075 |

Dimensiones x y z



mm  
pulgadas

## NPTF (NT), exterior e interior

|                      |                               | Paso, TPI |      |      |      |      |
|----------------------|-------------------------------|-----------|------|------|------|------|
|                      |                               | 27        | 18   | 14   | 11½  | 8    |
| Exterior             | x                             | 1.03      | 1.03 | 1.03 | 1.03 | 1.03 |
|                      | z                             | .041      | .041 | .041 | .041 | .041 |
| Interior             | x                             | 0.80      | 1.00 | 1.20 | 1.40 | 1.60 |
|                      | z                             | .031      | .039 | .047 | .055 | .063 |
| N.º de penetraciones | Penetración radial por pasada |           |      |      |      |      |
| 1                    |                               | 0.14      | 0.16 | 0.17 | 0.17 | 0.19 |
|                      |                               | .005      | .006 | .007 | .007 | .008 |
| 2                    |                               | 0.13      | 0.16 | 0.17 | 0.17 | 0.19 |
|                      |                               | .005      | .006 | .007 | .007 | .007 |
| 3                    |                               | 0.13      | 0.15 | 0.16 | 0.16 | 0.18 |
|                      |                               | .005      | .006 | .006 | .006 | .007 |
| 4                    |                               | 0.12      | 0.14 | 0.16 | 0.16 | 0.18 |
|                      |                               | .005      | .006 | .006 | .006 | .007 |
| 5                    |                               | 0.11      | 0.13 | 0.15 | 0.15 | 0.18 |
|                      |                               | .004      | .005 | .006 | .006 | .007 |
| 6                    |                               | 0.08      | 0.12 | 0.14 | 0.15 | 0.17 |
|                      |                               | .003      | .005 | .006 | .006 | .007 |
| 7                    |                               |           | 0.11 | 0.13 | 0.14 | 0.17 |
|                      |                               |           | .004 | .005 | .006 | .007 |
| 8                    |                               |           | 0.08 | 0.12 | 0.14 | 0.16 |
|                      |                               |           | .003 | .005 | .005 | .006 |
| 9                    |                               |           |      | 0.11 | 0.13 | 0.16 |
|                      |                               |           |      | .004 | .005 | .006 |
| 10                   |                               |           |      | 0.08 | 0.12 | 0.15 |
|                      |                               |           |      | .003 | .005 | .006 |
| 11                   |                               |           |      |      | 0.11 | 0.14 |
|                      |                               |           |      |      | .004 | .006 |
| 12                   |                               |           |      |      | 0.08 | 0.14 |
|                      |                               |           |      |      | .003 | .005 |
| 13                   |                               |           |      |      |      | 0.13 |
|                      |                               |           |      |      |      | .005 |
| 14                   |                               |           |      |      |      | 0.12 |
|                      |                               |           |      |      |      | .005 |
| 15                   |                               |           |      |      |      | 0.11 |
|                      |                               |           |      |      |      | .004 |
| 16                   |                               |           |      |      |      | 0.08 |
|                      |                               |           |      |      |      | .003 |
| Avance total         |                               | 0.70      | 1.06 | 1.41 | 1.69 | 2.36 |
|                      |                               | .028      | .042 | .056 | .067 | .093 |

## MJ, exterior

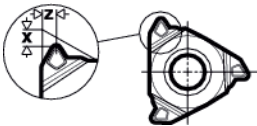
|                      |                               | Paso, mm |      |
|----------------------|-------------------------------|----------|------|
|                      |                               | 1.5      | 2    |
| x                    | x                             | 1.32     | 1.32 |
|                      | z                             | .052     | .052 |
| z                    | x                             | 1.00     | 1.40 |
|                      | z                             | .039     | .055 |
| N.º de penetraciones | Penetración radial por pasada |          |      |
| 1                    |                               | 0.20     | 0.19 |
|                      |                               | .008     | .008 |
| 2                    |                               | 0.18     | 0.18 |
|                      |                               | .007     | .007 |
| 3                    |                               | 0.17     | 0.17 |
|                      |                               | .007     | .007 |
| 4                    |                               | 0.15     | 0.16 |
|                      |                               | .006     | .006 |
| 5                    |                               | 0.13     | 0.15 |
|                      |                               | .005     | .006 |
| 6                    |                               | 0.08     | 0.14 |
|                      |                               | .003     | .006 |
| 7                    |                               |          | 0.12 |
|                      |                               |          | .005 |
| 8                    |                               |          | 0.08 |
|                      |                               |          | .003 |
| Avance total         |                               | 0.92     | 1.21 |
|                      |                               | .036     | .048 |

Penetración total =  $a_p$  + 0,05 mm (0,002 pulgadas)

Formas de rosca API

|                    |           |              |              | N.º de penetraciones          |              |              |              |              |              |              |              |              |              |              |              |              |              |              | Avance total |  |
|--------------------|-----------|--------------|--------------|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|
| Plaquita           | Paso, TPI | x            | z            | Penetración radial por pasada |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |  |
|                    |           |              |              | 1                             | 2            | 3            | 4            | 5            | 6            | 7            | 8            | 9            | 10           | 11           | 12           | 13           | 14           | 15           |              |  |
|                    |           |              |              |                               |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |  |
| API 60° V-0.038R   |           |              |              |                               |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |  |
| 266RG-22V381A0402E | 4         | 0.88<br>.035 | 2.5<br>.098  | 0.36<br>.014                  | 0.35<br>.014 | 0.33<br>.013 | 0.32<br>.013 | 0.30<br>.012 | 0.29<br>.011 | 0.27<br>.011 | 0.25<br>.010 | 0.23<br>.009 | 0.20<br>.008 | 0.16<br>.006 | 0.08<br>.003 |              |              |              | 3.08<br>.121 |  |
| 266RL-22V381A0402E | 4         | 0.87<br>.031 | 2.5<br>.098  | 0.36<br>.014                  | 0.35<br>.014 | 0.33<br>.013 | 0.32<br>.013 | 0.30<br>.012 | 0.29<br>.011 | 0.27<br>.011 | 0.25<br>.010 | 0.23<br>.009 | 0.20<br>.008 | 0.16<br>.006 | 0.08<br>.003 |              |              |              | 3.08<br>.121 |  |
| 266RG-22V381A0403E | 4         | 0.88<br>.035 | 2.5<br>.098  | 0.36<br>.014                  | 0.34<br>.013 | 0.33<br>.013 | 0.32<br>.013 | 0.30<br>.012 | 0.29<br>.011 | 0.27<br>.011 | 0.25<br>.010 | 0.23<br>.009 | 0.20<br>.008 | 0.16<br>.006 | 0.08<br>.003 |              |              |              | 3.07<br>.121 |  |
| 266RL-22V381A0403E | 4         | 0.87<br>.031 | 2.5<br>.098  | 0.36<br>.014                  | 0.34<br>.013 | 0.33<br>.013 | 0.32<br>.013 | 0.30<br>.012 | 0.29<br>.011 | 0.27<br>.011 | 0.25<br>.010 | 0.23<br>.009 | 0.20<br>.008 | 0.16<br>.006 | 0.08<br>.003 |              |              |              | 3.07<br>.121 |  |
| API 60° V-0.040    |           |              |              |                               |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |  |
| 266RG-22V401A0503E | 5         | 1.38<br>.054 | 2.50<br>.098 | 0.35<br>.014                  | 0.33<br>.013 | 0.32<br>.013 | 0.31<br>.012 | 0.29<br>.012 | 0.28<br>.011 | 0.26<br>.010 | 0.24<br>.009 | 0.22<br>.009 | 0.19<br>.008 | 0.16<br>.006 | 0.08<br>.003 |              |              |              | 2.98<br>.117 |  |
| 266RL-22V401A0503E | 5         | 1.35<br>.053 | 2.50<br>.098 | 0.35<br>.014                  | 0.33<br>.013 | 0.32<br>.013 | 0.31<br>.012 | 0.29<br>.012 | 0.28<br>.011 | 0.26<br>.010 | 0.24<br>.009 | 0.22<br>.009 | 0.19<br>.008 | 0.16<br>.006 | 0.08<br>.003 |              |              |              | 2.98<br>.117 |  |
| API 60° V-0.050    |           |              |              |                               |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |  |
| 266RG-22V501A0402E | 4         | 0.88<br>.035 | 2.5<br>.110  | 0.34<br>.014                  | 0.34<br>.013 | 0.33<br>.013 | 0.31<br>.012 | 0.30<br>.012 | 0.29<br>.012 | 0.28<br>.011 | 0.27<br>.011 | 0.25<br>.010 | 0.24<br>.009 | 0.22<br>.009 | 0.20<br>.008 | 0.18<br>.007 | 0.15<br>.006 | 0.08<br>.003 | 3.74<br>.147 |  |
| 266RL-22V501A0402E | 4         | 0.87<br>.031 | 2.5<br>.110  | 0.34<br>.014                  | 0.34<br>.013 | 0.33<br>.013 | 0.31<br>.012 | 0.30<br>.012 | 0.29<br>.012 | 0.28<br>.011 | 0.27<br>.011 | 0.25<br>.010 | 0.24<br>.009 | 0.22<br>.009 | 0.20<br>.008 | 0.18<br>.007 | 0.15<br>.006 | 0.08<br>.003 | 3.74<br>.147 |  |
| 266RG-22V501A0403E | 4         | 0.88<br>.035 | 2.5<br>.114  | 0.34<br>.014                  | 0.34<br>.013 | 0.32<br>.013 | 0.31<br>.012 | 0.30<br>.012 | 0.29<br>.012 | 0.28<br>.011 | 0.27<br>.011 | 0.25<br>.010 | 0.24<br>.009 | 0.22<br>.009 | 0.20<br>.008 | 0.18<br>.007 | 0.15<br>.006 | 0.08<br>.003 | 3.73<br>.147 |  |
| 266RL-22V501A0403E | 4         | 0.87<br>.031 | 2.5<br>.114  | 0.34<br>.014                  | 0.34<br>.013 | 0.32<br>.013 | 0.31<br>.012 | 0.30<br>.012 | 0.29<br>.012 | 0.28<br>.011 | 0.27<br>.011 | 0.25<br>.010 | 0.24<br>.009 | 0.22<br>.009 | 0.20<br>.008 | 0.18<br>.007 | 0.15<br>.006 | 0.08<br>.003 | 3.73<br>.147 |  |
| API redonda 60°    |           |              |              |                               |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |  |
| 266RG-22RD01A100E  | 10        | 1.32<br>.052 | 1.30<br>.051 | 0.18<br>.007                  | 0.18<br>.007 | 0.17<br>.007 | 0.16<br>.006 | 0.16<br>.006 | 0.15<br>.006 | 0.14<br>.005 | 0.13<br>.005 | 0.11<br>.004 | 0.08<br>.003 |              |              |              |              |              | 1.40<br>.055 |  |
| 266RL-22RD01A100E  | 10        | 1.30<br>.051 | 1.30<br>.051 | 0.18<br>.007                  | 0.18<br>.007 | 0.17<br>.007 | 0.16<br>.006 | 0.16<br>.006 | 0.15<br>.006 | 0.14<br>.005 | 0.13<br>.005 | 0.11<br>.004 | 0.08<br>.003 |              |              |              |              |              | 1.40<br>.055 |  |
| 266RG-22RD01A080E  | 8         | 1.32<br>.052 | 1.50<br>.059 | 0.19<br>.008                  | 0.19<br>.007 | 0.18<br>.007 | 0.18<br>.007 | 0.17<br>.007 | 0.16<br>.006 | 0.16<br>.006 | 0.15<br>.006 | 0.14<br>.006 | 0.13<br>.005 | 0.11<br>.005 | 0.08<br>.003 |              |              |              | 1.80<br>.071 |  |
| 266RL-22RD01A080E  | 8         | 1.3<br>.065  | 1.5<br>.079  | 0.20<br>.008                  | 0.19<br>.007 | 0.18<br>.007 | 0.18<br>.007 | 0.17<br>.007 | 0.16<br>.006 | 0.16<br>.006 | 0.15<br>.006 | 0.14<br>.006 | 0.13<br>.005 | 0.11<br>.005 | 0.08<br>.003 |              |              |              | 1.81<br>.071 |  |
| API Butress        |           |              |              |                               |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |  |
| 266RG-22BU01A050E  | 5         | 1.87<br>.074 | 2.00<br>.079 | 0.20<br>.008                  | 0.19<br>.007 | 0.18<br>.007 | 0.18<br>.007 | 0.17<br>.007 | 0.16<br>.006 | 0.15<br>.006 | 0.14<br>.006 | 0.13<br>.005 | 0.12<br>.005 | 0.08<br>.003 |              |              |              |              | 1.65<br>.065 |  |
| 266RL-22BU01A050E  | 5         | 1.67<br>.066 | 2.00<br>.079 | 0.20<br>.008                  | 0.19<br>.007 | 0.18<br>.007 | 0.18<br>.007 | 0.17<br>.007 | 0.16<br>.006 | 0.15<br>.006 | 0.14<br>.006 | 0.13<br>.005 | 0.12<br>.005 | 0.08<br>.003 |              |              |              |              | 1.65<br>.065 |  |
| 266RG-22BU01A0501E | 5         | 1.67<br>.066 | 2.00<br>.079 | 0.20<br>.008                  | 0.19<br>.007 | 0.18<br>.007 | 0.18<br>.007 | 0.17<br>.007 | 0.16<br>.006 | 0.15<br>.006 | 0.14<br>.006 | 0.13<br>.005 | 0.12<br>.005 | 0.08<br>.003 |              |              |              |              | 1.65<br>.065 |  |
| 266RL-22BU01A0501E | 5         | 1.67<br>.066 | 2.00<br>.079 | 0.20<br>.008                  | 0.19<br>.007 | 0.18<br>.007 | 0.18<br>.007 | 0.17<br>.007 | 0.16<br>.006 | 0.15<br>.006 | 0.14<br>.006 | 0.13<br>.005 | 0.12<br>.005 | 0.08<br>.003 |              |              |              |              | 1.65<br>.065 |  |

Dimensiones x y z



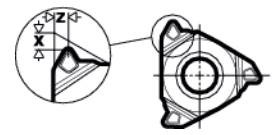
☐ mm  
☐ pulgadas

Penetración total =  $a_p + 0,05$  mm (0,002 pulgadas)

## Multi-diente

|                      | ISO métrica (MM)              |      |      |      |      | ISO pulgadas (UN), exterior |      |      |      | Whitworth (WH) |      |      | NPT (NT)  |
|----------------------|-------------------------------|------|------|------|------|-----------------------------|------|------|------|----------------|------|------|-----------|
|                      | Paso, mm                      |      |      |      |      | Paso, TPI                   |      |      |      | Paso, TPI      |      |      | Paso, TPI |
|                      | 1.00                          | 1.50 | 2.00 | 2.50 | 3.00 | 18                          | 16   | 14   | 12   | 19             | 14   | 11   | 11 ½      |
| x<br>z               | 1.62                          | 1.42 | 1.91 | 1.98 | 2.79 | 2.14                        | 1.52 | 1.79 | 1.91 | 2.04           | 1.73 | 1.88 | 1.67      |
|                      | .064                          | .056 | .075 | .078 | .110 | .084                        | .060 | .071 | .076 | .080           | .068 | .074 | .066      |
|                      | 2.02                          | 2.20 | 2.90 | 3.75 | 4.40 | 3.45                        | 2.40 | 2.70 | 3.10 | 3.30           | 2.70 | 3.40 | 3.40      |
|                      | .087                          | .087 | .114 | .148 | .173 | .136                        | .094 | .106 | .122 | .130           | .106 | .134 | .134      |
| Exterior             |                               |      |      |      |      |                             |      |      |      |                |      |      |           |
| N.º de penetraciones | Penetración radial por pasada |      |      |      |      |                             |      |      |      |                |      |      |           |
| 1                    | 0.34                          | 0.36 | 0.47 | 0.46 | 0.55 | 0.49                        | 0.39 | 0.44 | 0.52 | 0.49           | 0.47 | 0.45 | 0.50      |
|                      | .013                          | .014 | .019 | .018 | .022 | .019                        | .015 | .017 | .020 | .019           | .019 | .018 | .020      |
| 2                    | 0.31                          | 0.33 | 0.46 | 0.43 | 0.52 | 0.43                        | 0.36 | 0.41 | 0.47 | 0.43           | 0.43 | 0.43 | 0.48      |
|                      | .012                          | .013 | .018 | .017 | .020 | .017                        | .014 | .016 | .019 | .017           | .017 | .017 | .019      |
| 3                    |                               | 0.26 | 0.33 | 0.40 | 0.48 |                             | 0.29 | 0.32 | 0.36 |                | 0.33 | 0.39 | 0.44      |
|                      |                               | .010 | .013 | .016 | .019 |                             | .011 | .013 | .014 |                | .013 | .015 | .017      |
| 4                    |                               |      |      | 0.27 | 0.33 |                             |      |      |      |                |      | 0.27 | 0.31      |
|                      |                               |      |      | .011 | .013 |                             |      |      |      |                |      | .011 | .012      |
| Avance total         | 0.65                          | 0.95 | 1.26 | 1.56 | 1.88 | 0.92                        | 1.04 | 1.17 | 1.35 | 0.92           | 1.23 | 1.54 | 1.73      |
|                      | .026                          | .037 | .050 | .061 | .074 | .036                        | .041 | .046 | .053 | .036           | .048 | .061 | .068      |
| Interior             |                               |      |      |      |      |                             |      |      |      |                |      |      |           |
|                      | Paso, mm                      |      |      |      |      | Paso, TPI                   |      |      |      | Paso, TPI      |      |      | Paso, TPI |
|                      | 1.00                          | 1.50 | 2.00 | 2.50 | 3.00 | 18                          | 16   | 14   | 12   | 19             | 14   | 11   | 11 ½      |
|                      | 1.63                          | 1.41 | 1.82 | 1.98 | 2.79 |                             |      |      | 1.92 |                | 1.72 | 1.85 | 1.64      |
| x<br>z               | .064                          | .056 | .072 | .078 | .110 |                             |      |      | .076 |                | .068 | .073 | .065      |
|                      | 2.40                          | 2.25 | 2.85 | 3.75 | 4.40 |                             |      |      | 2.95 |                | 2.70 | 3.40 | 3.40      |
|                      | .094                          | .089 | .112 | .148 | .173 |                             |      |      | .116 |                | .106 | .134 | .134      |
|                      |                               |      |      |      |      |                             |      |      |      |                |      |      |           |
| N.º de penetraciones | Penetración radial por pasada |      |      |      |      |                             |      |      |      |                |      |      |           |
| 1                    | 0.33                          | 0.35 | 0.46 | 0.45 | 0.52 |                             |      |      | 0.47 |                | 0.45 | 0.43 | 0.50      |
|                      | .013                          | .014 | .018 | .018 | .020 |                             |      |      | .019 |                | .018 | .017 | .020      |
| 2                    | 0.30                          | 0.32 | 0.42 | 0.42 | 0.49 |                             |      |      | 0.44 |                | 0.41 | 0.41 | 0.48      |
|                      | .012                          | .013 | .017 | .017 | .019 |                             |      |      | .017 |                | .016 | .016 | .019      |
| 3                    |                               | 0.25 | 0.32 | 0.36 | 0.45 |                             |      |      | 0.34 |                | 0.32 | 0.39 | 0.44      |
|                      |                               | .010 | .013 | .014 | .018 |                             |      |      | .013 |                | .013 | .015 | .017      |
| 4                    |                               |      |      | 0.25 | 0.32 |                             |      |      |      |                |      | 0.27 | 0.31      |
|                      |                               |      |      | .010 | .013 |                             |      |      |      |                |      | .011 | .012      |
| Avance total         | 0.63                          | 0.92 | 1.20 | 1.48 | 1.78 |                             |      |      | 1.25 |                | 1.18 | 1.50 | 1.73      |
|                      | .025                          | .036 | .047 | .058 | .070 |                             |      |      | .049 |                | .046 | .059 | .068      |

Dimensiones x y z

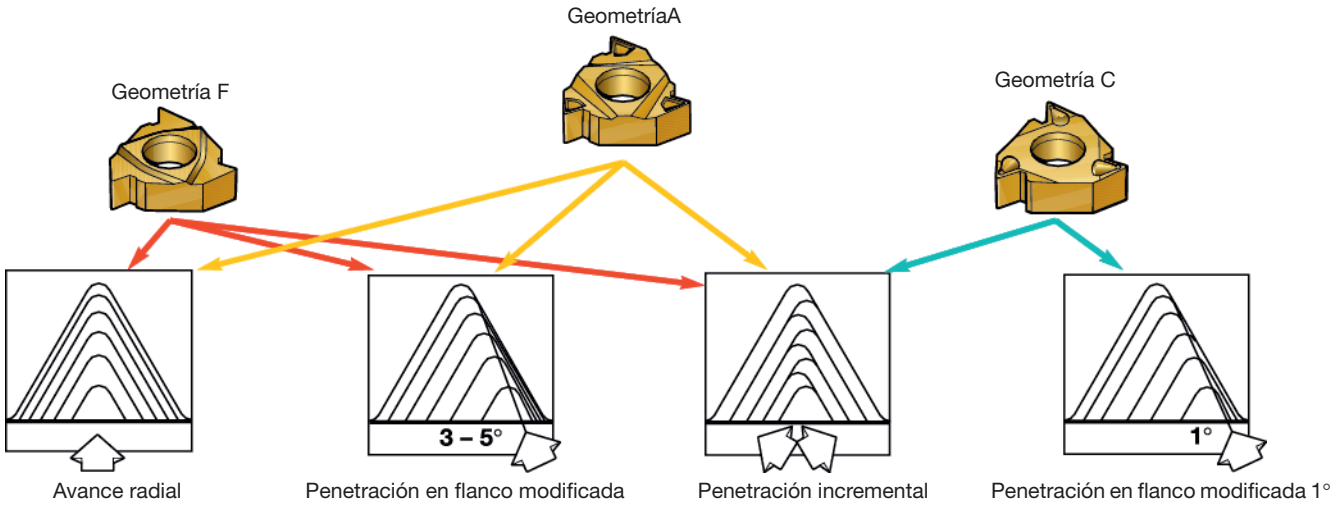


□ mm  
□ pulgadas

Penetración total =  $a_p$  + 0,05 mm (0,002 pulgadas)

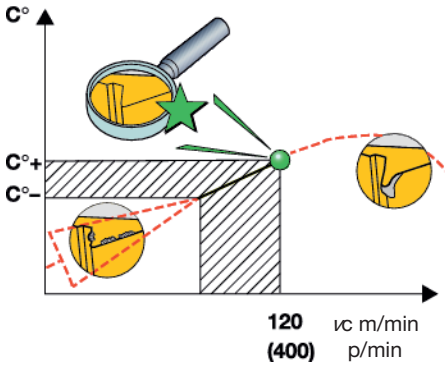
## Recomendaciones de penetración

- El número, el tipo y el tamaño de las pasadas de penetración pueden tener un impacto decisivo en la operación de roscado. Estas recomendaciones de penetración se ofrecen como valores iniciales. El número más adecuado de pasadas se debe determinar por prueba y error. Cuanto más dura sea la pieza, mayor será el número de pasadas.
- Para conseguir una duración óptima de la herramienta, el diámetro de la pieza no debe superar en más de .006 pulgadas (0.14 mm) el diámetro máx. de la rosca.
  - Se deben evitar penetraciones inferiores a .002 pulgadas (0.05 mm), para acero inoxidable austenítico la penetración no debe ser inferior a .003 pulgadas (0.08 mm).
  - Si se utiliza la calidad CB20, el valor de penetración máx. debe ser de .003 pulgadas (0.07 mm).
  - Con plaquitas de geometría C, no debe utilizarse pasada de peinado (pasada sin penetración).
  - Con plaquitas multi-dientes es fundamental seguir las recomendaciones de la página C79.
  - Con plaquitas de perfil en V puede utilizarse el número recomendado de pasadas utilizado para plaquitas de perfil completo.



## Velocidad de corte

- Las recomendaciones de velocidades de corte iniciales se dan en la página C82. Una observación cuidadosa del filo de corte puede ayudarle a alcanzar los mejores resultados posibles en el roscado.
- Velocidad de corte demasiado baja-Filo de aportación
  - Velocidad de corte demasiado elevada-Deformación plástica del filo



## Fórmula

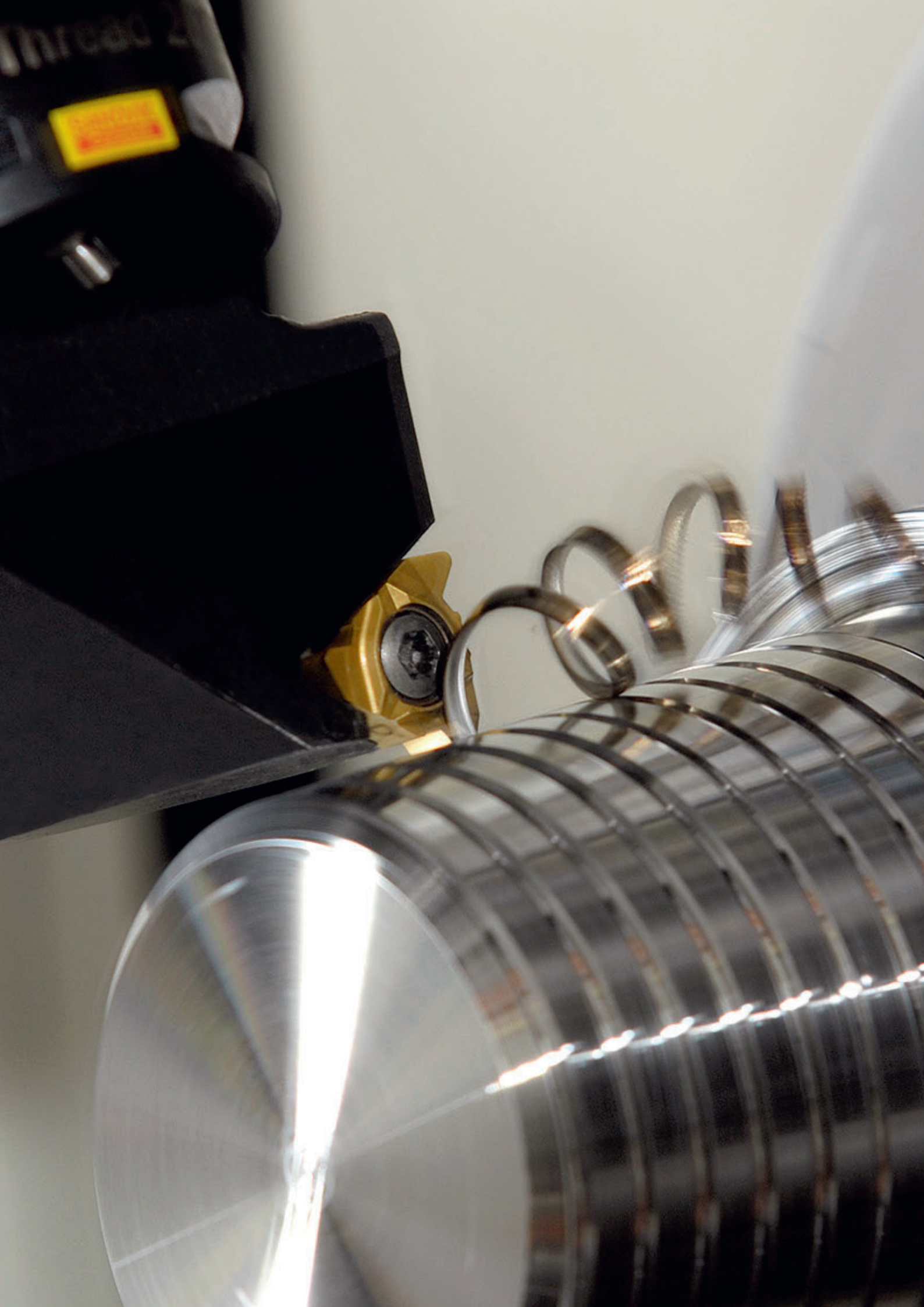
Fórmula para calcular la penetración para cada pasada en una serie reducida.

$$\Delta_{apx} = \frac{a_p}{\sqrt{nap-1}} \times \sqrt{\phi}$$

- $\Delta_{ap}$  Avance radial
- $x$  Pasada actual (en una serie de 1 a nap)
- $a_p$  Profundidad total de la rosca. Ver página C70
- $nap$  Número de penetraciones. Ver página C70
- $\phi$  1ª pasada = 0.3
- 2ª pasada = 1
- 3ª y mayor pasada =  $x-1$



Si desea más información técnica, consulte la Guía técnica sobre corte de metal



A

Torneado general

B

Tronzado y ranurado

C

Roscado

G

Sistemas portaherramientas

H

Mecanizado Multi-tareas

I

CoroTurn® SL

J

Información general

Recomendaciones de velocidad de corte, valores métricos

| ISO P     |         |                                                                                                                                                                   | Dureza Brinell | Calidades |                                             |        |        |      |
|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|---------------------------------------------|--------|--------|------|
| Núm. MC   | N.º CMC | Material                                                                                                                                                          |                | HB        | GC1125                                      | GC1135 | GC1020 | H13A |
|           |         |                                                                                                                                                                   |                |           | Velocidad de corte (V <sub>c</sub> ), m/min |        |        |      |
| P1.1.Z.AN | 01.1    | Acero no aleado<br>C = 0,1–0,25%<br>C = 0,25–0,55%<br>C = 0,55–0,80%                                                                                              | 125            | 230       | 205                                         | 185    | 160    |      |
| P1.2.Z.AN | 01.2    |                                                                                                                                                                   | 150            | 195       | 170                                         | 155    | 130    |      |
| P1.3.Z.AN | 01.3    |                                                                                                                                                                   | 170            | 180       | 160                                         | 145    | 125    |      |
| P2.1.Z.AN | 02.1    | Acero de baja aleación<br>(elementos de aleación ≤5%)<br>No templado<br>Acero para rodamientos de bola<br>Endurecido y templado<br>Endurecido y templado          | 180            | 155       | 140                                         | 125    | 115    |      |
| P2.1.Z.AN | 02.12   |                                                                                                                                                                   | 210            | 145       | 125                                         | 115    | 105    |      |
| P2.5.Z.HT | 02.2    |                                                                                                                                                                   | 275            | 120       | 105                                         | 95     | 80     |      |
| P2.5.Z.HT | 02.2    |                                                                                                                                                                   | 350            | 95        | 85                                          | 75     | 65     |      |
| P3.0.Z.AN | 03.11   | Acero de alta aleación<br>(elementos de aleación >5%)<br>Recocido<br>Acero de herram. templado                                                                    | 200            | 140       | 120                                         | 110    | 105    |      |
| P3.0.Z.HT | 03.21   |                                                                                                                                                                   | 325            | 115       | 100                                         | 80     | 70     |      |
| P1.5.C.UT | 06.1    | Acero fundido<br>No aleado<br>De baja aleación (elementos de aleación ≤5%)<br>Alta aleación (elementos de aleación >5%)<br>Acero al manganeso, 12–14% Mn          | 180            | 220       | 200                                         | 180    | 170    |      |
| P2.6.C.UT | 06.2    |                                                                                                                                                                   | 200            | 150       | 130                                         | 120    | 95     |      |
| P3.0.C.UT | 06.3    |                                                                                                                                                                   | 225            | 120       | 105                                         | 95     | 85     |      |
| P3.2.C.AQ | 06.33   |                                                                                                                                                                   | 250            | 40        | 38                                          | 35     | 33     |      |
| ISO M     |         |                                                                                                                                                                   |                |           |                                             |        |        |      |
| P5.0.Z.AN | 05.11   | Barras/forjadas<br>Ferrítico/martensítico<br>No templado<br>Templado PH<br>Templado                                                                               | 200            | 160       | 145                                         | 130    | 90     |      |
| P5.0.Z.PH | 05.12   |                                                                                                                                                                   | 330            | 115       | 100                                         | 90     | 70     |      |
| P5.0.Z.HT | 05.13   |                                                                                                                                                                   | 330            | 105       | 95                                          | 85     | 65     |      |
| M1.0.Z.AQ | 05.21   | Barras/forjadas<br>Austenítico<br>Templado PH<br>Super austenítico                                                                                                | 180            | 140       | 130                                         | 120    | 75     |      |
| M1.0.Z.PH | 05.22   |                                                                                                                                                                   | 330            | 100       | 90                                          | 80     | 60     |      |
| M2.0.Z.AQ | 05.23   |                                                                                                                                                                   | 200            | 80        | 75                                          | 70     | 50     |      |
| M3.1.Z.AQ | 05.51   | Acero inoxidable – Barras/forjadas<br>Austenítico-ferrítico (Dúplex)<br>No soldables C ≥ 0,05%<br>Soldable < 0,05% C                                              | 230            | 110       | 100                                         | 90     | -      |      |
| M3.2.Z.AQ | 05.52   |                                                                                                                                                                   | 260            | 90        | 80                                          | 70     | -      |      |
| P5.0.C.UT | 15.11   | Acero inoxidable – Fundido<br>Ferrítico/martensítico<br>No templado<br>Templado PH<br>Templado                                                                    | 200            | 120       | 100                                         | 90     | 90     |      |
| P5.0.C.UT | 15.12   |                                                                                                                                                                   | 330            | 90        | 80                                          | 70     | 55     |      |
| P5.0.C.HT | 15.13   |                                                                                                                                                                   | 330            | 70        | 65                                          | 60     | 50     |      |
| M1.0.C.UT | 15.21   | Acero inoxidable – Fundido<br>Austenítico<br>Austenítico<br>Templado PH                                                                                           | 180            | 120       | 110                                         | 100    | 80     |      |
| M2.0.C.AQ | 15.22   |                                                                                                                                                                   | 330            | 70        | 65                                          | 60     | 50     |      |
| M2.0.C.AQ | 15.23   |                                                                                                                                                                   | 200            | 90        | 80                                          | 70     | 40     |      |
| M3.1.C.AQ | 15.51   | Acero inoxidable – Fundido<br>Austenítico-ferrítico (Dúplex)<br>No soldable ≥ 0,05% C<br>Soldable < 0,05% C                                                       | 230            | 100       | 95                                          | 85     | -      |      |
| M3.2.C.AQ | 15.52   |                                                                                                                                                                   | 260            | 75        | 70                                          | 65     | -      |      |
| ISO K     |         |                                                                                                                                                                   |                |           |                                             |        |        |      |
| K1.1.C.NS | 07.1    | Fundición maleable<br>Ferrítica (viruta corta)<br>Perlítica (viruta larga)                                                                                        | 130            | 170       | 150                                         | 135    | 95     |      |
| K1.1.C.NS | 07.2    |                                                                                                                                                                   | 230            | 125       | 110                                         | 100    | 70     |      |
| K2.1.C.UT | 08.1    | Fundición gris<br>Baja resistencia a la tracción<br>Alta resistencia a la tracción                                                                                | 180            | 160       | 140                                         | 130    | 85     |      |
| K2.2.C.UT | 08.2    |                                                                                                                                                                   | 220            | 140       | 130                                         | 120    | 80     |      |
| K3.1.C.UT | 09.1    | Hierro SG nodular<br>Ferrítica<br>Perlítica<br>Martensítica                                                                                                       | 160            | 140       | 135                                         | 125    | 110    |      |
| K3.3.C.UT | 09.2    |                                                                                                                                                                   | 250            | 110       | 100                                         | 90     | 80     |      |
| K3.4.C.UT | 09.3    |                                                                                                                                                                   | 380            | 80        | 75                                          | 65     | 60     |      |
| ISO N     |         |                                                                                                                                                                   |                |           |                                             |        |        |      |
| N1.2.Z.UT | 30.11   | Aleaciones de aluminio Forjadas/forjadas y<br>+ trabajadas en frío, no envejecidas Envejecidas                                                                    | 60             | 500       | 500                                         | 500    | 500    |      |
| N1.2.Z.AG | 30.12   |                                                                                                                                                                   | 100            | 500       | 500                                         | 500    | 450    |      |
| N1.3.C.UT | 30.21   | Aleaciones de aluminio<br>Fundida, no envejecida<br>Fundición, o fundición y envejecido                                                                           | 75             | 500       | 500                                         | 455    | 425    |      |
| N1.3.C.AG | 30.22   |                                                                                                                                                                   | 90             | 400       | 325                                         | 280    | 250    |      |
| N1.4.C.NS | 30.41   | Aleaciones de aluminio<br>Fundidas 13-15% Si<br>Fundidas 16-22% Si                                                                                                | 130            | 300       | 270                                         | 245    | 210    |      |
| N1.4.C.NS | 30.42   |                                                                                                                                                                   | 130            | 300       | 270                                         | 245    | 210    |      |
| N3.3.U.UT | 33.1    | Cobre y aleaciones de cobre<br>Aleaciones de fácil mecanización, ≥1% Pb<br>Latón, bronce con plomo, ≤1% Pb<br>Bronce y cobre sin plomo, incl. cobre electrolítico | 110            | 500       | 460                                         | 420    | 370    |      |
| N3.2.C.UT | 33.2    |                                                                                                                                                                   | 90             | 300       | 270                                         | 245    | 210    |      |
| N3.1.U.UT | 33.3    |                                                                                                                                                                   | 100            | 210       | 190                                         | 175    | 150    |      |



## Recomendaciones de velocidad de corte, valores métricos

| ISO S                               |         |                                                              |                  |                                             |          |          |        |            |
|-------------------------------------|---------|--------------------------------------------------------------|------------------|---------------------------------------------|----------|----------|--------|------------|
| Núm. MC                             | N.º CMC | Material                                                     | Dureza Brinell   | Calidades                                   |          |          |        |            |
|                                     |         |                                                              | HB               | GC1125                                      | GC1135   | GC1020   | H13A   | CB7015     |
|                                     |         |                                                              |                  | Velocidad de corte (V <sub>c</sub> ), m/min |          |          |        |            |
| S1.0.U.AN<br>S1.0.U.AG              | 20.11   | Aleaciones termorresistentes<br>Base de hierro               | 200              | 55                                          | 50       | 45       | 45     | -          |
|                                     | 20.12   | RecocidoEnvejecido                                           |                  |                                             |          |          |        |            |
| S2.0.Z.AN<br>S2.0.Z.AG<br>S2.0.C.NS | 20.21   | Base de níquel                                               | 250              | 25                                          | 25       | 20       | 19     | -          |
|                                     | 20.22   | RecocidoEnvejecido                                           | 350              | 15                                          | 15       | 13       | 13     | -          |
|                                     | 20.24   | Fundición                                                    | 320              | 13                                          | 13       | 10       | 11     | -          |
|                                     |         |                                                              |                  |                                             |          |          |        |            |
| S3.0.Z.AN<br>S3.0.Z.AG<br>S3.0.C.NS | 20.31   | Base de cobalto                                              | 200              | 30                                          | 30       | 25       | 22     | -          |
|                                     | 20.32   | RecocidoEnvejecido                                           | 300              | 20                                          | 18       | 15       | 14     | -          |
|                                     | 20.33   | Fundición                                                    | 320              | 20                                          | 18       | 15       | 15     | -          |
| S4.1.Z.UT<br>S4.2.Z.AN<br>S4.3.Z.AG | 23.1    | Aleaciones de titanio<br>Comercial puro (99.5% Ti)           | 400 Rm           | 170                                         | 160      | 140      | 120    | -          |
|                                     | 23.21   | Aleaciones α, cerca de α y α + β, aleaciones                 | 950 Rm           | 70                                          | 65       | 60       | 50     | -          |
|                                     | 23.22   | α + β envejecidas, aleaciones β recocidas o envejecidas      | 1050 Rm          | 60                                          | 55       | 50       | 40     | -          |
| ISO H                               |         |                                                              |                  |                                             |          |          |        |            |
| H1.1.Z.HA<br>H1.3.Z.HA              | 04.1    | Acero extraduro                                              | 47 HRC<br>60 HRC | 60<br>39                                    | 50<br>32 | 50<br>32 | -<br>- | 130<br>130 |
|                                     | 04.1    | Endurecido y templado                                        |                  |                                             |          |          |        |            |
| H2.0.C.UT                           | 10.1    | Fundición en coquilla<br>Fundición, o fundición y envejecido | 400              | 45                                          | 40       | 35       | 50     | -          |

A

Torneo general

B

Tronzado y ranurado

C

Roscado

G

Sistemas portaherramientas

H

Mecanizado Multi-tareas

I

CoroTum® SL

J

Información general

Recomendaciones de velocidad de corte, valores en pulgadas

| ISO P     |         |                                                                                                                 |                          |                                            |        |        |      |
|-----------|---------|-----------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------|--------|--------|------|
| Núm. MC   | N.º CMC | Material                                                                                                        | Dureza Brinell<br><br>HB | Calidades                                  |        |        |      |
|           |         |                                                                                                                 |                          | GC1125                                     | GC1135 | GC1020 | H13A |
|           |         |                                                                                                                 |                          | Velocidad de corte (V <sub>c</sub> ) p/min |        |        |      |
| P1.1.Z.AN | 01.1    | Acero no aleado<br>C = 0.1 - 0.25%                                                                              | 125                      | 760                                        | 670    | 610    | 520  |
| P1.2.Z.AN | 01.2    | C = 0.25 - 0.55%                                                                                                | 150                      | 640                                        | 560    | 510    | 430  |
| P1.3.Z.AN | 01.3    | C = 0.55 - 0.80%                                                                                                | 170                      | 590                                        | 530    | 475    | 410  |
| P2.1.Z.AN | 02.1    | Acero de baja aleación<br>(elementos de aleación ≤5%)<br>No templado                                            | 180                      | 510                                        | 460    | 405    | 380  |
| P2.1.Z.AN | 02.12   | Acero para rodamientos de bola                                                                                  | 210                      | 475                                        | 410    | 375    | -    |
| P2.5.Z.HT | 02.2    | Endurecido y templado                                                                                           | 275                      | 385                                        | 350    | 310    | 270  |
| P2.5.Z.HT | 02.2    | Endurecido y templado                                                                                           | 350                      | 310                                        | 280    | 250    | 220  |
| P3.0.Z.AN | 03.11   | Acero de alta aleación<br>(elementos de aleación >5%)<br>Recocido                                               | 200                      | 460                                        | 395    | 360    | 345  |
| P3.0.Z.HT | 03.21   | Acero de herram. templado                                                                                       | 325                      | 375                                        | 320    | 270    | 230  |
| P1.5.C.UT | 06.1    | Acero fundido<br>No aleado                                                                                      | 180                      | 730                                        | 660    | 590    | 560  |
| P2.6.C.UT | 06.2    | De baja aleación (elementos de aleación ≤5%)                                                                    | 200                      | 490                                        | 425    | 395    | 305  |
| P3.0.C.UT | 06.3    | De alta aleación, elementos de aleación >5%)                                                                    | 225                      | 395                                        | 345    | 310    | 285  |
| P3.2.C.AQ | 06.33   | Acero al manganeso, 12–14% Mn                                                                                   | 250                      | 130                                        | 125    | 115    | 105  |
| ISO M     |         |                                                                                                                 |                          |                                            |        |        |      |
| P5.0.Z.AN | 05.11   | Barras/forjadas<br>Ferrítico/martensítico<br>No templado                                                        | 200                      | 520                                        | 475    | 425    | 295  |
| P5.0.Z.PH | 05.12   | Templado PH                                                                                                     | 330                      | 375                                        | 330    | 295    | 235  |
| P5.0.Z.HT | 05.13   | Templado                                                                                                        | 330                      | 345                                        | 310    | 280    | 215  |
| M1.0.Z.AQ | 05.21   | Barras/forjadas<br>Austenítico<br>Austenítico                                                                   | 180                      | 460                                        | 425    | 395    | 250  |
| M1.0.Z.PH | 05.22   | Templado PH                                                                                                     | 330                      | 330                                        | 295    | 260    | 190  |
| M2.0.Z.AQ | 05.23   | Super austenítico                                                                                               | 200                      | 260                                        | 245    | 230    | 170  |
| M3.1.Z.AQ | 05.51   | Acero inoxidable – Barras/forjadas<br>Austenítico-ferrítico (Dúplex)<br>No soldable C ≥ 0,05%Soldable C < 0,05% | 230                      | 360                                        | 330    | 295    | -    |
| M3.2.Z.AQ | 05.52   | Soldable < 0,05% C                                                                                              | 260                      | 295                                        | 265    | 230    | -    |
| P5.0.C.UT | 15.11   | Acero inoxidable – Fundido<br>Ferrítico/martensítico<br>No templado                                             | 200                      | 395                                        | 330    | 295    | 300  |
|           | 15.12   | Templado PH                                                                                                     | 330                      | 295                                        | 265    | 230    | -    |
| P5.0.C.HT | 15.13   | Templado                                                                                                        | 330                      | 230                                        | 215    | 195    | 160  |
| M1.0.C.UT | 15.21   | Acero inoxidable – Fundido<br>Austenítico-ferrítico (Dúplex)<br>Austenítico                                     | 180                      | 395                                        | 360    | 325    | 265  |
|           | 15.22   | Templado PH                                                                                                     | 330                      | 230                                        | 215    | 200    | 165  |
| M2.0.C.AQ | 15.23   | Super austenítico                                                                                               | 200                      | 295                                        | 265    | 230    | -    |
| M3.1.C.AQ | 15.51   | No soldable C ≥ 0,05%Soldable C < 0,05%                                                                         | 230                      | 330                                        | 310    | 280    | -    |
| M3.2.C.AQ | 15.52   | Soldable < 0,05% C                                                                                              | 260                      | 245                                        | 230    | 210    | -    |
| ISO K     |         |                                                                                                                 |                          |                                            |        |        |      |
| K1.1.C.NS | 07.1    | Fundición maleable<br>Ferrítica (viruta corta)                                                                  | 130                      | 560                                        | 490    | 440    | 315  |
|           | 07.2    | Perlítica (viruta larga)                                                                                        | 230                      | 410                                        | 360    | 325    | 230  |
| K2.1.C.UT | 08.1    | Fundición gris<br>Baja resistencia a la tracción                                                                | 180                      | 520                                        | 460    | 425    | 285  |
| K2.2.C.UT | 08.2    | Alta resistencia a la tracción                                                                                  | 220                      | 460                                        | 425    | 390    | 265  |
| K3.1.C.UT | 09.1    | Hierro SG nodular<br>Ferrítica                                                                                  | 160                      | 460                                        | 450    | 410    | 355  |
| K3.3.C.UT | 09.2    | Perlítica                                                                                                       | 250                      | 360                                        | 330    | 290    | 260  |
| K3.4.C.UT | 09.3    | Martensítica                                                                                                    | 380                      | 260                                        | 245    | 220    | 195  |



## Recomendaciones de velocidad de corte, valores en pulgadas

| ISO N                                      |                                     |                                                                                                                                            |                                                                                                                                                                                                                        |                             |                    |                    |                    |                    |
|--------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|--------------------|--------------------|--------------------|
| Núm. MC                                    | N.º CMC                             | Material                                                                                                                                   | Dureza Brinell                                                                                                                                                                                                         | Calidades                   |                    |                    |                    |                    |
|                                            |                                     |                                                                                                                                            | HB                                                                                                                                                                                                                     | GC1125                      | GC1135             | GC1020             | H13A               | CB7015             |
| Velocidad de corte (V <sub>c</sub> ) p/min |                                     |                                                                                                                                            |                                                                                                                                                                                                                        |                             |                    |                    |                    |                    |
| N1.2.Z.UT<br>N1.2.Z.AG                     | 30.11<br>30.12                      | Aleaciones de aluminio Forjadas/forjadas y<br>+ trabajadas en frío, no envejecidas Envejecidas                                             | 60<br>100                                                                                                                                                                                                              | 1650<br>1650                | 1650<br>1650       | 1650<br>1650       | 1650<br>1450       |                    |
|                                            | N1.3.C.UT<br>N1.3.C.AG              | 30.21<br>30.22                                                                                                                             | Aleaciones de aluminio<br>Fundida, no envejecida<br>Fundición, o fundición y envejecido                                                                                                                                | 75<br>90                    | 1650<br>1300       | 1650<br>1050       | 1500<br>920        | 1400<br>820        |
| N1.4.C.NS                                  | 30.41<br>30.42                      | Aleaciones de aluminio<br>Cast Si 13-15%<br>Cast Si 16-22%                                                                                 | 130<br>130                                                                                                                                                                                                             | 980<br>980                  | 890<br>890         | 800<br>800         | 690<br>690         |                    |
|                                            | N3.3.U.UT<br>N3.2.C.UT<br>N3.1.U.UT | 33.1<br>33.2<br>33.3                                                                                                                       | Cobre y aleaciones de cobre<br>Aleaciones de fácil mecanización, ≥1% Pb<br>Latón, bronce con plomo, ≤1% Pb<br>Bronce y cobre sin plomo, incl. cobre electrolítico                                                      | 110<br>90<br>100            | 1650<br>980<br>690 | 1500<br>890<br>620 | 1400<br>800<br>570 | 1200<br>690<br>490 |
| ISO S                                      |                                     |                                                                                                                                            |                                                                                                                                                                                                                        |                             |                    |                    |                    |                    |
| S1.0.U.AN<br>S1.0.U.AG                     | 20.11<br>20.12                      | Superalaciones termorresistentes<br>Base de hierro<br>Recocidas o tratadas en solución<br>Envejecidas o tratadas en solución y envejecidas | 200<br>280                                                                                                                                                                                                             | 180<br>115                  | 165<br>115         | 145<br>100         | 145<br>100         |                    |
|                                            | S2.0.Z.AN<br>S2.0.Z.AG              | 20.21<br>20.22                                                                                                                             | Base de níquel<br>Recocidas o tratadas en solución<br>Envejecidas o tratadas en solución y envejecidas                                                                                                                 | 250<br>350                  | 80<br>50           | 80<br>50           | 65<br>45           | 60<br>45           |
| S2.0.C.NS                                  | 20.24                               | Fundición, o fundición y envejecido                                                                                                        | 320                                                                                                                                                                                                                    | 45                          | 45                 | 33                 | 35                 |                    |
| S3.0.Z.AN<br>S3.0.Z.AG<br>S3.0.C.NS        | 20.31<br>20.32<br>20.33             | Base de cobalto<br>Recocidas o tratadas en solución<br>Tratadas en solución y envejecidas<br>Fundición, o fundición y envejecido           | 200<br>300<br>320                                                                                                                                                                                                      | 100<br>65<br>65             | 100<br>60<br>60    | 80<br>50<br>50     | 70<br>45<br>50     |                    |
|                                            | S4.1.Z.UT<br>S4.2.Z.AN<br>S4.3.Z.AG | 23.1<br>23.21<br>23.22                                                                                                                     | Aleaciones de titanio<br>Commercial pure (99,5% Ti)<br>aleaciones α, cerca de α y α + β, recocidas<br>aleaciones de α, α próximo y α+β, recocidas aleaciones α+β<br>envejecidas, aleaciones β, recocidas o envejecidas | 400 Rm<br>950 Rm<br>1050 Rm | 560<br>230<br>195  | 520<br>215<br>180  | 460<br>195<br>165  | 395<br>-<br>-      |
|                                            | ISO H                               |                                                                                                                                            |                                                                                                                                                                                                                        |                             |                    |                    |                    |                    |
| H1.1.Z.HA<br>H1.3.Z.HA                     | 04.1<br>04.1                        | Acero extraduro<br>Endurecido y templado<br>Endurecido y templado                                                                          | 47 HRC<br>60 HRC                                                                                                                                                                                                       | 200<br>125                  | 165<br>105         | 165<br>105         | -<br>-             | 420<br>420         |
|                                            | H2.0.C.UT                           | 10.1                                                                                                                                       | Fundición en coquilla<br>Fundición, o fundición y envejecido                                                                                                                                                           | 400                         | 150                | 130                | 115                | 170<br>-           |

Calidades para roscado

|                                                | ISO | ANSI |                              |   |
|------------------------------------------------|-----|------|------------------------------|---|
| <b>P</b><br>Acero                              | 01  | C8   |                              | ▲ |
|                                                | 10  |      |                              |   |
|                                                | 20  | C7   | GC 1020 GC 1125 GC 1135      |   |
|                                                | 30  | C6   |                              |   |
|                                                | 40  |      |                              |   |
|                                                | 50  | C5   |                              | ▼ |
| <b>M</b><br>Acero inoxidable                   | 10  | -    |                              | ▲ |
|                                                | 20  | -    | GC 1020 GC 1125 GC 1135 H13A |   |
|                                                | 30  | -    |                              |   |
|                                                | 40  | -    |                              | ▼ |
| <b>K</b><br>Fundición                          | 01  | C4   |                              | ▲ |
|                                                | 10  | C3   | GC 1020 GC 1125 GC 1135 H13A |   |
|                                                | 20  | C2   |                              |   |
|                                                | 30  | C1   |                              |   |
|                                                | 40  |      |                              | ▼ |
| <b>N</b><br>Metales no-férreos                 | 10  | C4   |                              | ▲ |
|                                                | 20  | C3   | GC 1020 GC 1135 H13A         |   |
|                                                | 30  | C2   |                              |   |
|                                                | 40  | C1   |                              | ▼ |
| <b>S</b><br>Super-aleaciones termorresistentes | 10  | -    |                              | ▲ |
|                                                | 20  | -    | GC 1020 GC 1125 GC 1135 H13A |   |
|                                                | 30  | -    |                              |   |
|                                                | 40  | -    |                              | ▼ |
| <b>H</b><br>Materiales endurecidos             | 10  | C4   |                              | ▲ |
|                                                | 20  | C3   | GC 1020 GC 1125 CB 7015      |   |
|                                                | 30  | C2   |                              |   |
|                                                | 40  | C1   |                              | ▼ |

La posición y forma de los símbolos de calidad indican el correspondiente campo de aplicación.

Centro del campo de aplicación.

Campo de aplicación recomendado.

▲ Resistencia al desgaste

▼ Tenacidad

Cobertura adicional gracias a la geometría F

Calidades para roscado

**P** Acero, acero fundido, fundición maleable de viruta larga.

**GC1020 (HC)** – P20 (P10-P40)  
Buena calidad universal con recubrimiento por PVD para roscado de aceros. Combina una buena resistencia al desgaste con tenacidad del filo en materiales de bajo contenido en carbono.  
**GC4125 (HC)** – P20 (P05 P35)  
Utilizada como una calidad optimizada con recubrimiento por PVD para diferentes roscados de acero. Tiene una excelente resistencia al desgaste a velocidades de corte elevadas y tiempos de corte prolongados.  
**GC1125 (HC)** - P20 (P05-P35)  
Calidad con recubrimiento por PVD con muy buena resistencia al desgaste para diferentes roscados de acero. Para utilizar con velocidades de corte elevadas y tiempos de corte prolongados.

**M** Acero inoxidable austenítico/ferrítico/martensítico, acero fundido, acero al manganeso, fundición aleada, fundición maleable, acero de fácil mecanización.

**GC1020 (HC)** – M20 (M10-M30)  
Buena calidad universal con recubrimiento por PVD para roscado de aceros inoxidables. Combina una buena resistencia al desgaste con agudeza del filo.  
**GC4125 (HC)** – M20 (M05-M25)  
Esta calidad con recubrimiento por PVD funciona bien en aceros inoxidables y otros materiales pegajosos a mayor velocidad de corte.  
**GC1125 (HC)** – M20 (M10-M30)  
Calidad con recubrimiento PVD para acero inoxidable y otros materiales pastosos con velocidad de corte más alta.  
**H13A (HW)** – M25 (M20-M30)  
Calidad de metal duro sin recubrimiento. Combina buena resistencia al desgaste por abrasión y tenacidad. Para velocidades de moderadas a bajas.

**K** Fundición, fundición en coquilla, fundición maleable de viruta corta.

**GC1020 (HC)** – K15 (K01-K20)  
Buena calidad universal con recubrimiento por PVD para roscado de fundición. Combina una buena resistencia al desgaste con agudeza del filo. Velocidades de corte moderadas.  
**GC4125 (HC)** – K15 (K05-K20)  
Calidad universal por PVD para operaciones que demandan tenacidad. Para su uso a mayores velocidades de corte.  
**GC1125 (HC)** – K15 (K05-K20)  
Calidad con recubrimiento por PVD con muy buena resistencia al desgaste para diferentes roscados de acero. Para utilizar con velocidades de corte elevadas.  
**H13A (HW)** – K20 (K10-K25)  
Calidad de metal duro sin recubrimiento. Combina buena resistencia al desgaste por abrasión y tenacidad. Para velocidades de moderadas a bajas.

**N** Metales no-férreos

**GC1020 (HC)** – N25 (N10-N30)  
Buena calidad universal con recubrimiento por PVD con una buena resistencia al desgaste y agudeza del filo en materiales no férricos.  
**H13A (HW)** – N25 (N20-N30)  
Calidad de metal duro sin recubrimiento. Combina una resistencia al desgaste por abrasión y tenacidad para torneado en desbaste medio de aleaciones de aluminio y latón.

**S** Super-aleaciones termorresistentes

**GC1020 (HC)** – S20 (S05-S30)  
Una calidad de metal duro con recubrimiento PVD para operaciones en super aleaciones que requieren una gran tenacidad. Para utilizar a velocidades de corte bajas.  
**GC4125 (HC)** – S20 (S10-S25)  
Calidad de metal duro con recubrimiento por PVD para operaciones en super aleaciones que demandan tenacidad. Para su uso a velocidades de corte más bajas.  
**GC1125 (HC)** – S20 (S10-S25)  
Calidad de metal duro con recubrimiento por PVD para operaciones en superaleaciones que demandan tenacidad. Para utilizar con velocidades de corte bajas.  
**H13A (HW)** – S25 (S20-S30)  
Calidad de metal duro sin recubrimiento. Combina una resistencia al desgaste por abrasión y tenacidad para roscado de aleaciones termorresistentes y aleaciones de titanio.

**H** Materiales endurecidos

**GC1020 (HC)** – H20 (H05 – H30)  
Buena calidad universal con recubrimiento por PVD de excelente resistencia al desgaste y tenacidad del filo. Para utilizar a velocidades de corte bajas.  
**GC4125 (HC)** – H20 (H10 – H25)  
Una calidad de metal duro con recubrimiento por PVD. Como calidad universal, a utilizar con velocidades de corte más bajas.  
**GC1125 (HC)** – H20 (H10-H25)  
Calidad de metal duro con recubrimiento por PVD. Para utilizar con velocidades de corte bajas.  
**CB20 (BN)** – H10 (H01– H20)  
Material de alto rendimiento compuesto por nitruro de boro cúbico (CBN). Adecuada para materiales férricos templados y fundición.

Símbolos de letras que designan los materiales duros de corte:

Metales duros:

**HW** Metal duro sin recubrimiento compuesto principalmente por carburo de tungsteno

**HT** Metal duro sin recubrimiento, también denominado cermet, que contiene carburos de titanio (TiC) o nitruros de titanio (TiN) o ambos.

**HC** Metal duro como el anterior pero con recubrimiento

Cerámicas:

**CA** Cerámica de óxido que contiene principalmente óxido de aluminio (Al<sub>2</sub>O<sub>3</sub>).

**CM** Cerámica mixta que contiene principalmente óxido de aluminio (Al<sub>2</sub>O<sub>3</sub>) y también otros componentes.

**CN** Cerámica de nitruro que contiene principalmente nitruro de silicio (Si<sub>3</sub>N<sub>4</sub>).

**CC** Cerámicas como las anteriores pero con recubrimiento.

Nitruro de boro:

**BN** Nitruro de boro cúbico

**Nota:** El nitruro de boro cúbico también se denomina material de corte endurecido (metal duro).