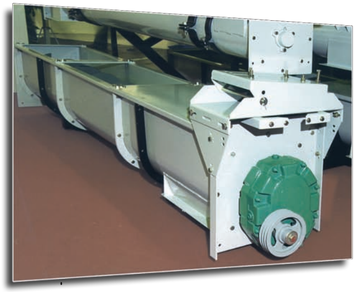
# POULIBLOC 2000

## Ejemplos de aplicaciones



*accionamiento de sinfín de grano*

*accionamiento de cinta transportadora*

## Otro producto de la gama POULIBLOC

### POULIBLOC 3000

Reductor de 1 tren
Indice de reducción 1/5 y 1/8
Eje hueco cilíndrico
Serie económica
Disponible en 3 tamaños hasta 11 kW
Versiones con lubricación por aceite o grasa

LEROY SOMER

# Red internacional

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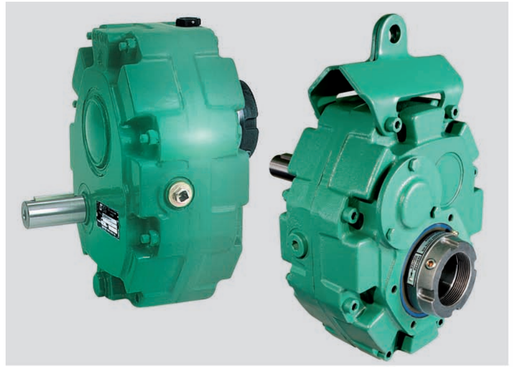

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# Reductor pendular de eje hueco POULIBLOC

3780 es - 2012.07 / d

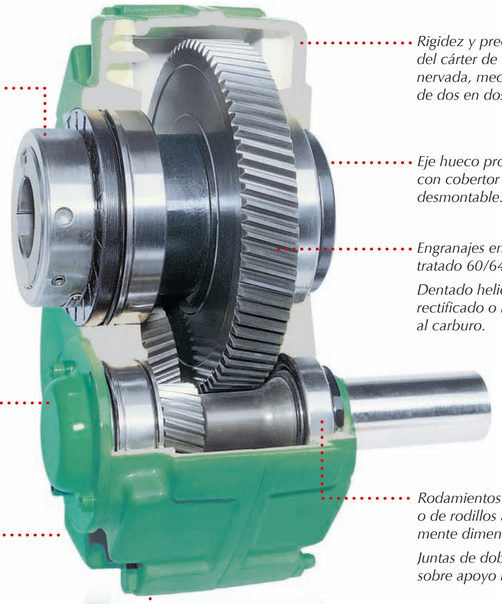
# POULIBLOC 2000

# *Reductor con sistema exclusivo de anillo cónico*

## Disponible en 8 tamaños hasta 55 kW
## 4 índices de reducción estándar
## 1/5 - 1/12 - 1/20 - 1/25

*Varios diámetros de anillos para cada talla de reductor.*

*El sistema exclusivo de anillo cónico permite un fácil montaje y desmontaje del reductor.*



*Rigidez y precisión del cárter de fundición nervada, mecanizado de dos en dos.*

*Eje hueco protegido con cobertor desmontable.*

*Engranajes en acero tratado 60/64 Rockwell C.*

*Dentado helicoidal rectificado o mecanizado al carburo.*

*Antirretorno fácilmente adaptable.*

*Rodamientos de bolas o de rodillos ampliamente dimensionados.*

*Juntas de doble labio sobre apoyo rectificado.*

*Tapón magnético suministrado de serie.*

*3 posiciones posibles de la cartela de reacción.*

*Suministrados con tensor y con llave apriete anillo cónico.*

## Selección

**Reductor Poulibloc (Pb) :** forma RK, con anillo cónico TB (de Pb 2005 a Pb 2720)

Clase I (Kp=1)

| Con eje primario | AP |
|---|---|

### de 10 a 355 min$^{-1}$

**Motores LS, LSES, potencia kW**

| Velocidad de salida min$^{-1}$ | 0,37 | 0,55 | 0,75 | 0,9 | 1,1 | 1,5 | 1,8 | 2,2 | 3 | 4 | 5,5 | 7,5 | 9 | 11 | 15 | 18,5 | 22 | 30 | 37 | 45 | 55[1] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 polos | | | | | | | | | | | | | | | | | | | | | |
| | 71 | 80 | | | 90 | | | 100 | | 112 | 132 | | | 160 | | 180 | | 200 | 225 | | 250 |
| 2 trenes, reducciones : 12, 15, 20 y 25[2] | | | | | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | 2225 | | | | | 2525 | | 2625 | | | | | |
| 28 | | 2025 | | | | | | 2125 | | | 2325 | | 2425 | | | | | | | | |
| 31,5 | | | | | | | | | | 2220 | | | | 2420 | | | | | | | |
| 35,5 | | | | 2020 | | | | | | | | | 2325 | | 2520 | | 2620 | | | | |
| 40 | | | | | | | | | 2120 | | | | | | | | | | | | |
| 45 | | | | | | 2015 | | | | | | | 2315 | | 2420 | 2515 | | 2615 | | 2720 | |
| 50 | | | | | | | | | | 2115 | 2215 | | | | 2412 | | | | | | |
| 56 | | | | | | | | | | | 2212 | | | | | | | | | | |
| 63 | | | | | | | | | | | | | 2312 | | | | | | | | |
| 71 | | | | | | | | | | | | 2215 | | | 2315 | | | | | | |
| 80 | | | | | | 2012 | | | | | | | | | | | 2512 | | 2612 | | 2712 |
| 90 | | | | | | | | | | | | | 2215 | | | 2412 | | | | | |
| 100 | | | | | | | | | | | 2112 | | | | 2312 | | | | | | |
| 112 | | | | | | | | | | | | | 2212 | | | | | | | | |
| 125 | | | | | | | | | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | 2212 | | | | | | | |
| 1 tren, reducción : 5[2] | | | | | | | | | | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | | | | | | | | | | |
| 125 | | | | | | | | | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | | | | | | | | |
| 160 | | | | | | | | | | | | | | | | | | | | | |
| 180 | | | | | | | | | | 2005 | | | | 2105 | 2205 | | 2405 | | | | |
| 200 | | | | | | | | | | | | | | | | 2305 | | | 2505 | | |
| 225 | | | | | | | | | | | | | | | | | | | | 2605 | |
| 250 | | | | | | | | | | | | | | | | | | | | | |
| 280 | | | | | | | | | | | | | | | | | | | | | |
| 315 | | | | | | | | | | | | | | | | | | | | | |

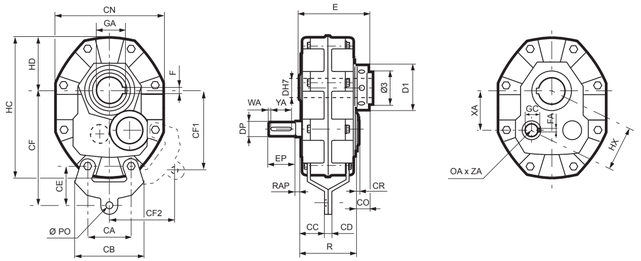
*1. LSES B35 obligatorio*
*2. i Poulibloc elegido de acuerdo con la relación de los Ø de las poleas 1/1, 1/2 o 1/3*

**Ejemplo de selección**

| | |
|---|---|
| Potencia deseada : | 4 kW |
| Velocidad requerida : | 60 min$^{-1}$ |
| Factor de servicio necesario para la aplicación : | Kp = 1 |
| Diámetro del eje accionado : | 45 |
| Fijación : | Brazo de reacción |

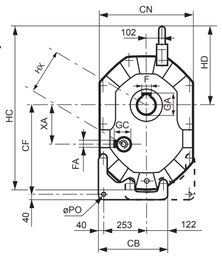
**Designación : Pb 2112 i : 11,5 RK W TB Ø 45H7 M AP (motor LSES 112M 4 kW - relación de poleas 1/2) o Pb 2120 i : 20,6 RK W TB Ø 45H7 M AP (motor LSES 112M 4kW - relación de poleas 1/1,2)**

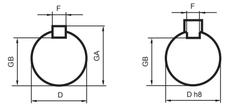
## Dimensiones (mm)




| Tipo | Reductores CA | CB | CC | CD | CE | CF | CF1 | CF2 | CN | CO | CR | HC | HD | HX | PO | R | XA | Eje de salida y anillo Ø3 | D1 | E | Eje de entrada DP | EP | FA | GC | OA | ZA | RAP | WA | YA | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pb 27--** | - | 416 | 121,3 | 38 | - | 521,5 | - | - | 550 | 80 | 13 | 890 | 405 | 273 | 32 | 231 | 253 | M175x3 | 215 | 312,5 | 65 | 130 | 18 | 69 | M20 | 40 | 0 | - | 0 | 295 |
| **Pb 2612 a 2625** | 179 | 277 | 122 | 20 | 130 | 440 | 307 | 247 | 410 | 58 | 23 | 522 | 191 | 192 | 17 | 238 | 172,2 | M135x3 | 165 | 300,5 | 55 | 120 | 16 | 59 | M16 | 36 | 0 | 5 | 105 | 158 |
| **Pb 2605** | 179 | 277 | 122 | 20 | 130 | 440 | 307 | 247 | 410 | 58 | 23 | 522 | 191 | 192 | 17 | 238 | 172,2 | M135x3 | 165 | 300,5 | 48 | 120 | 14 | 51,5 | M16 | 36 | 0 | 5 | 105 | 158 |
| **Pb 2512 a 2525** | 156 | 234 | 109 | 16 | 110 | 377 | 264 | 212 | 357 | 44 | 13 | 452 | 165 | 164 | 17 | 210 | 147,7 | M108x3 | 135 | 259 | 50 | 110 | 14 | 53,5 | M16 | 36 | 0 | 5 | 100 | 106 |
| **Pb 2505** | 156 | 234 | 109 | 16 | 110 | 377 | 264 | 212 | 357 | 44 | 13 | 452 | 165 | 164 | 17 | 210 | 147,7 | M108x3 | 135 | 259 | 38 | 80 | 10 | 41 | M12 | 26 | 0 | 5 | 100 | 106 |
| **Pb 24--** | 136 | 213 | 75 | 10 | 100 | 332 | 233 | 191 | 316 | 36 | 13 | 395 | 146 | 145 | 16 | 170 | 131,8 | M97x3 | 121 | 207 | 50 | 110 | 14 | 53,5 | M16 | 36 | 0 | 5 | 100 | 68 |
| **Pb 23--** | 123 | 190 | 67 | 10 | 80 | 290 | 204 | 156 | 284 | 36 | 13 | 361 | 133 | 126 | 16 | 147 | 112 | M80x2 | 106 | 184 | 35 | 80 | 10 | 38 | M12 | 26 | 0 | 3 | 72 | 52 |
| **Pb 22--** | 108 | 172 | 61 | 10 | 75 | 260 | 177 | 139 | 252 | 36 | 13 | 320 | 118 | 107 | 16 | 131 | 95,8 | M68x2 | 96 | 171 | 32 | 80 | 10 | 35 | M10 | 22 | 0 | 4 | 72 | 32 |
| **Pb 21--** | 90,5 | 162 | 55 | 10 | 72 | 227 | 157 | 130 | 214 | 36 | 13 | 269 | 100 | 92 | 16 | 120 | 84,3 | M64x2 | 86 | 158 | 28 | 60 | 8 | 31 | M10 | 22 | 0 | 6 | 48 | 24 |
| **Pb 20** | 82,5 | 140 | 48 | 10 | 68 | 210 | 140 | 112 | 198 | 36 | 13 | 245 | 90 | 85 | 16 | 109 | 76,6 | M52x2 | 75 | 138 | 24 | 60 | 8 | 27,5 | M8 | 19 | 0 | 6 | 48 | 19 |

**Pb 27**

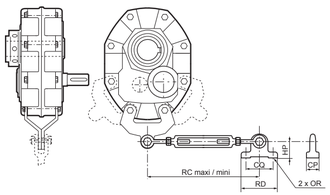



Eje accionado diámetro pequeño  Eje accionado diámetro grande

| Eje hueco estándar $D^{H7}$ | F | GB | GA | Anillos cónicos TB para Pb 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 6 | 16,5 | 22,5 | ◊ | | | | | | | |
| 25 | 8 | 21 | 28 | ◊ | ◊ | | | | | | |
| 30 | 8 | 26 | 33 | ◊ | ◊ | ◊ | | | | | |
| 35 | 10 | 30 | 38 | ◊◊ | ◊ | ◊ | ◊ | | | | |
| 40 | 12 | 35 | 43 | ◊◊ | ◊ | ◊ | ◊ | | | | |
| 45 | 14 | 39,5 | 48,5 | | ◊◊ | ◊ | ◊ | ◊ | | | |
| 50 | 14 | 44,5 | 53,5 | | ◊◊ | ◊◊ | ◊ | ◊ | | | |
| 55 | 16 | 49 | 59 | | | ◊◊ | ◊◊ | ◊ | | | |
| 60 | 18 | 53 | 64 | | | | ◊◊ | ◊ | ◊ | | |
| 65 | 18 | 58 | 69 | | | | | ◊ | ◊ | | |
| 70 | 20 | 62,5 | 74,5 | | | | | ◊◊ | ◊ | ◊ | |
| 75 | 20 | 67,5 | 79,5 | | | | | ◊◊ | ◊ | ◊ | |
| 80 | 22 | 71 | 85 | | | | | | ◊◊ | ◊ | |
| 85 | 22 | 76 | 90 | | | | | | ◊◊ | ◊ | |
| 90 | 25 | 81 | 95 | | | | | | | ◊ | |
| 95 | 25 | 86 | 100 | | | | | | | ◊◊ | |
| 100 | 28 | 90 | 106 | | | | | | | ◊◊ | ◊ |
| 110 | 28 | 100 | 116 | | | | | | | | ◊ |
| 120 | 32 | 109 | 127 | | | | | | | | ◊ |
| Longitud mínima del eje accionado | | | | 80 | 82 | 105 | 116 | 134 | 153 | 194 | 260 |

◊ : Diámetros pequeños, cotas GA indicadas en la tabla
◊◊ : Chaveta suministrada, cota GA no indicada
Para la colocación del anillo, consultar el folleto de puesta en marcha y mantenimiento.




| Tipo | Brazo de reacción CP | CQ | HP | OR | RC maxi | RC mini | RD |
|---|---|---|---|---|---|---|---|
| **Pb 27--** | 80 | 210 | 80 | 32 | 840 | 670 | 280 |
| **Pb 26--** | 50 | 105 | 45 | 17 | 540 | 440 | 144 |
| **Pb 25--** | 50 | 105 | 45 | 17 | 540 | 440 | 144 |
| **Pb 24--** | 53 | 95 | 38 | 15 | 450 | 365 | 150 |
| **Pb 23--** | 53 | 95 | 38 | 15 | 450 | 365 | 150 |
| **Pb 22--** | 53 | 95 | 38 | 15 | 450 | 365 | 150 |
| **Pb 21--** | 53 | 95 | 38 | 15 | 450 | 365 | 150 |
| **Pb 20--** | 53 | 95 | 38 | 15 | 450 | 365 | 150 |

*El brazo de reacción debe ser posicionado en el eje del soporte de montaje.*
*3 posiciones son posibles (Pb27 : 2 posiciones).*

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