

MACHINE SPECIFICATIONS :

ITEM	MODEL	UNIT	6Y		8Y		10Y		6SY		8SY		10SY		6TY		8TY			
			SINGLE SPINDLE / SINGLE TURRET						TWIN SPINDLE / SINGLE TURRET						TWIN SPINDLE / TWIN TURRET					
CAPACITY	No.of Axis	—	4-Axis (X+Z+C+Y)						7-Axis (X+Z+E+Cm+Cs+Y+TD)						11-Axis (X1+Z1+C1+E1+Y1+TD1+X2+Z2+C2+Y2+TD2)					
	Swing Over Bed	mm(inch)	Ø780 (30.71)						Ø780 (30.71)						Ø780 (30.71)					
	Max.Turning Dia	mm(inch)	Ø300(11.81)		Ø300(11.81)		Ø230 (9.06)		Ø300(11.81)		Ø300(11.81)		Ø230 (9.06)		Ø300(11.81)					
	Working Length	mm(inch)	410 (16.14)		670 (26.38)		680 (26.77)		260 (10.24)		500 (19.69)		470 (18.5)		294 (11.57)		274 (10.79)			
SPINDLE	Spindle Nose	—	Std.:A2-5 / Opt.:A2-6		A2-6		A2-8		Main: A2-5 Sub: A2-5		Main: A2-6 Sub: A2-5		Main: A2-8 Sub: A2-6		Main: A2-5 Sub: A2-5		Main: A2-6 Sub: A2-5			
	Spindle Bore	mm(inch)	Std:Ø56 (2.2) Opt.:Ø61 (2.4)		Std:Ø61 (2.4) Opt.:Ø77 (3)		Ø90(3.54)		Ø56 (2.2) Ø56 (2.2)		Ø61 (2.4) Ø56 (2.2)		Ø90(3.542) Opt.Ø77(3) Ø61 (2.4)		Ø56 (2.2) Ø56 (2.2)		Ø61 (2.2) Ø56 (2.2)			
	Bar Capacity	mm(inch)	Std:Ø45 (1.7) Opt.:Ø51 (2)		Std:Ø51 (2) Opt.:Ø65 (2.56)		Std:Ø75 (2.95) Opt.:Ø77 (3)		Ø45 (1.7) Ø45 (1.7)		Ø51 (2) Ø45 (1.7)		Std.:Ø75(2.95) Opt.Ø77(3) Ø51 (2)		Ø45 (1.7) Ø45 (1.7)		Ø51 (2) Ø45 (1.7)			
	Range of Spindle Speed	rpm	Std:10~6000 Opt.:10~4200		Std:10~4200 Opt.:10~3500		Std:10~3500 Opt.:10~2800		10~6000 10~6000		10~4200 10~6000		10~3500 10~4200		10~6000 10~6000		10~4200 10~6000			
	Hydraulic Chuck	mm(inch)	Std:Ø169 (6) Opt.:Ø210 (8)		Std:Ø210 (8) Opt.:Ø254 (10)		Std:Ø254 (10) Opt.:Ø305 (12)		Ø169 (6) Ø169 (6)		Ø210 (8) Ø169 (6)		Ø254(10) Ø210 (8)		Ø169 (6) Ø169 (6)		Ø210 (8) Ø169 (6)			
	No. of Spindle Speed	—	Infinitely variable						Infinitely variable						Infinitely variable					
TURRET	Turret Type	—	SMBR-16-340 (VDI 30)		SMBR-16-340 (VDI 30)		SMBR-20-340 (VDI 40)		SMBR-16-340 (VDI 30)		SMBR-16-340 (VDI 30)		SMBR-20-340 (VDI 40)		SMBR-16-340 (VDI 30) x 2 Sets					
	Tool Station/DIN	—	12 Tools / DIN 5480						12 Tools / DIN 5480						12 Tools / DIN 5480					
	O.D.Tooling	mm(inch)	20 x 20 (0.75 x 0.75)		20 x 20 (0.75 x 0.75)		25 x 25 (1 x 1)		20 x 20 (0.75 x 0.75)		20 x 20 (0.75 x 0.75)		25 x 25 (1 x 1)		20 x 20 (0.75 x 0.75)					
	I.D.Tooling	mm(inch)	Ø 32 (1.25)		Ø 32 (1.25)		Ø 40 (1.5)		Ø 32 (1.25)		Ø 32 (1.25)		Ø 40 (1.5)		Ø 32 (1.25)					
CROSS SLIDE(X-AXIS) & CARRIAGE(Z,E-AXIS) & Y-AXIS	Living Tools Speed	rpm	4000						4000						4000					
	X Axis Travel	mm(inch)	185 (7.28)		185 (7.28)		150 (5.91)		185 (7.28)		185 (7.28)		150 (5.91)		—					
	Z Axis Travel	mm(inch)	460 (18.11)		743 (29.25)		720 (28.35)		310 (12.2)		560 (22.05)		540 (21.26)		—					
	E Axis Travel	mm(inch)	—						260 (10.24)		500 (19.69)		470 (18.5)		520 (20.47)		500 (19.69)			
	Y Axis Travel	mm(inch)	± 40 (1.57)		± 40 (1.57)		± 50 (1.97)		± 40 (1.57)		± 40 (1.57)		± 50 (1.97)		—					
	X1/X2 Axis Travel	mm(inch)	—						—						185 (7.28)					
	Z1/ Z2 Axis Travel	mm(inch)	—						—						342 (13.46)					
	Y1/ Y2 Axis Travel	mm(inch)	—						—						±40 (1.57)					
	Rapid Traverse Speed(X Axis)	M/min	30						30						—					
	Rapid Traverse Speed(Z Axis)	M/min	30						30						—					
	Rapid Traverse Speed(E Axis)	M/min	—						20						20					
	Rapid Traverse Speed(Y Axis)	M/min	7						7						—					
	Rapid Traverse Speed(X1/X2 Axis)	M/min	—						—						20					
	Rapid Traverse Speed(Z1/ Z2 Axis)	M/min	—						—						20					
	Rapid Traverse Speed(Y1/ Y2 Axis)	M/min	—						—						7					
	Cutting Feed Rate (X / Y / Z Axis)	rev.	0.001 ~ 500						0.001 ~ 500						0.001 ~ 500					
	MOTOR	Main Spindle (Continuous)	—	—						—						—				
Main Spindle (30 min. Rating)		kW(HP)	α P12i	5.5 (7.5) 7.5 (10)	α P18i	9 (12) 11 (15)	α P22i	11 (15) 15 (20)	α P12i	5.5 (7.5) 7.5 (10)	α P18i	9 (12) 11 (15)	α P22i	11 (15) 15 (20)	α P12i	5.5 (7.5) 7.5 (15)	α P18i	9 (12) 11 (15)		
Sub Spindle (Continuous)		—	—						—						—					
Sub Spindle (30 min. Rating)		kW(HP)	—						α 6i		5.5 (7.5) 7.5 (10)	α 6i		5.5 (7.5) 7.5 (10)	α 8i		7.5 (10) 11 (15)	α 6i		5.5 (7.5) 7.5 (10)
X Axis		kW(HP)	α 12Bi / 3000, 3 (4)		α 12Bi / 3000, 3 (4)		α 22Bi / 3000, 4 (5.3)		α 12Bi / 3000, 3 (4)		α 12Bi / 3000, 3 (4)		α 22Bi / 3000, 4 (5.3)		—					
Z Axis		kW(HP)	α 12i / 3000, 3 (4)						α 12i / 3000, 3 (4)						—					
E Axis		kW(HP)	—						α 8i / 3000, 1.6 (2.15)						α 8i / 3000, 1.6 (2.15)					
Y Axis		kW(HP)	α 4Bi / 3000, 1.4 (1.86)		α 4Bi / 3000, 1.4 (1.86)		α 8Bi / 3000, 1.6 (2.15)		α 4Bi / 3000, 1.4 (1.86)		α 4Bi / 3000, 1.4 (1.86)		α 8Bi / 3000, 1.6 (2.15)		—					
TD Axis		kW(HP)	α 2i / 10000, 2.2 (3)		α 2i / 10000, 2.2 (3)		α 3i / 10000, 3.7 (5)		α 12i / 3000, 3 (4)						—					
X1 / X2 Axis		kW(HP)	—						—						α 12i / 3000, 3 (4)					
Z1 / Z2 Axis		kW(HP)	—						—						α 8i / 3000, 1.6 (4)					
Y1 / Y2 Axis		kW(HP)	—						—						α 4Bi / 3000, 1.4 (1.86)					
TD1 / TD2 Axis		kW(HP)	—						—						α 12i / 3000, 3 (4)					
Hydraulic Pump		kW(HP)	1.5 (2)						1.5 (2)						1.5 (2)					
Coolant Pump		W(HP)	750 (1)						750 (1)						750 (1) x 2 sets					
TAILSTOCK	Quill Dia	mm(inch)	Ø75 (2.95)		Ø75 (2.95)		Ø90 (3.54)		—						—					
	Quill Travel	mm(inch)	80 (3.15)		80 (3.15)		100 (3.94)		—						—					
	Quill Taper	MT No	4		4		5		—						—					
	Tailstock Travel	mm(inch)	420 (16.54)		668 (26.3)		625 (24.61)		—						—					
TANK CAPACITY	Hydraulic tank	liter	60		60		60		60		60		60		60		60			
	Coolant tank	liter	100		100		100		100		100		100		100		100			
MEASUREMENT	Floor space	mm(inch)	3550 x 2000 (140 x78.7)		4000 x 2200 (157.5 x 86.6)		4000 x 2200 (157.5 x 86.6)		3750 x 2000 (147.6 x78.7)		4000 x 2200 (157.5 x 86.6)		4000 x 2200 (157.5 x 86.6)		4150 x 2150 (163.3 x 84.6)					
	Total height	mm(inch)	2200 (86.61)						2200 (86.61)						2375 (93.5)					
	Weight (NW/GW)	kgs	5050 / 5550		6320 / 6820		6430 / 6930		5480 / 6030		6640 / 7230		6830 / 7480		7560 / 8230		7610 / 8280			

• L&W Machine Tools, Inc. reserves the right to alter any mechanical specification without prior notice in the interests of product development.

STANDARD ACCESSORIES:

- 3-bar-750w cooling pump
- 100 liter capacity
- Auto lubrication system
- Working light
- Tricolor alarm light
- Hydraulic unit
- Heat exchanger for electric cabinet
- Chip conveyor and bucket

OPTIONAL ACCESSORIES:

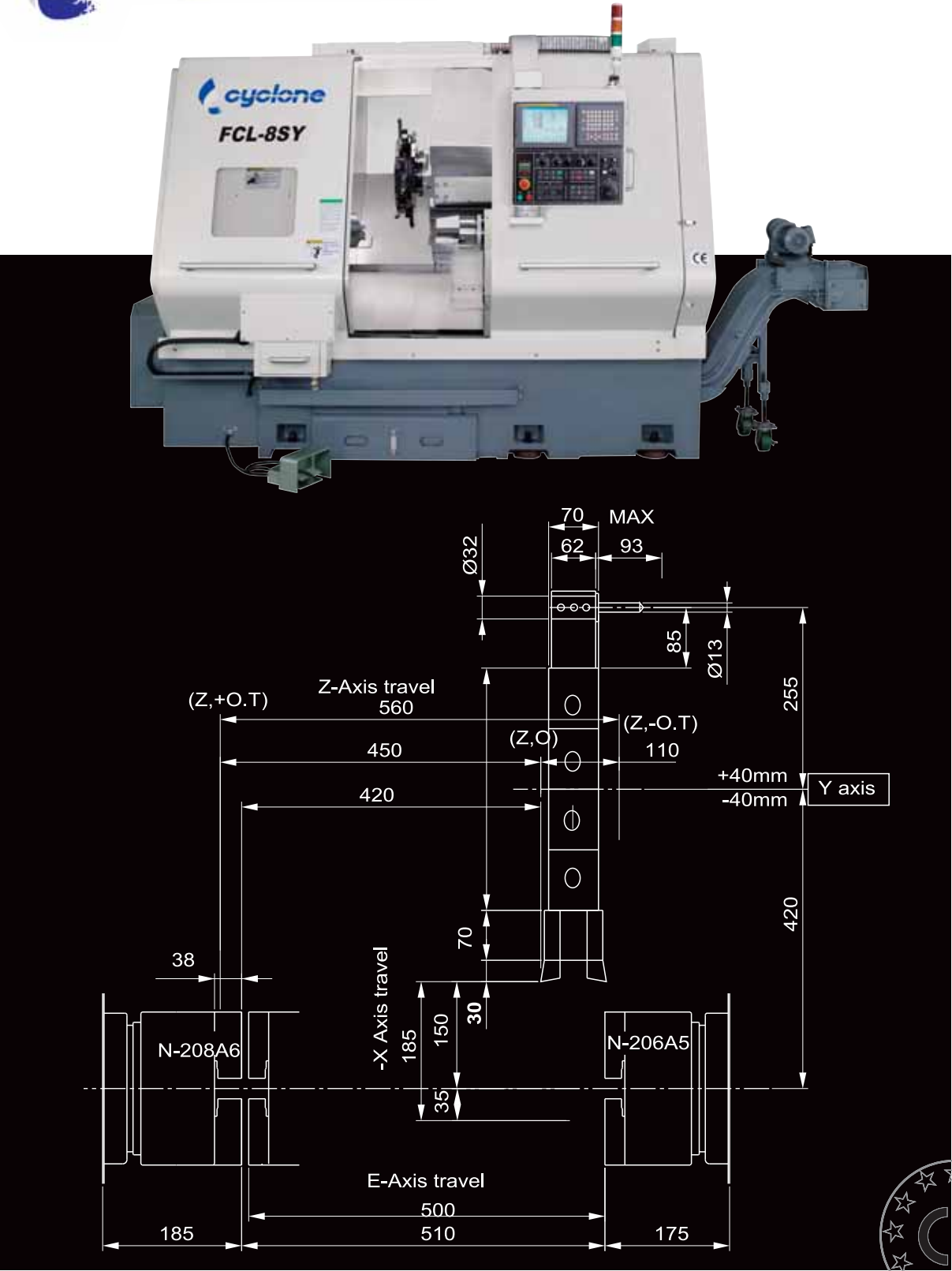
- C.E electric control
- Auto tool setter measurement
- Manual tool setter measurement
- Main transformer
- Auto parts catcher(for single spindle)
- Sub spidle parts catcher and bouncing equipment(for twin spindle)
- Prevent crash install of each axis (safety equipment)
- Bar feeder
- Parts cut-off detector

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MULTIPLE-AXES TURNING CENTER (Y axis Series)



Y axis Series



Y-axis turret

- The major machine parts, such as the base, saddle, headstock, slide, sub spindle and tailstock are made of Meehanite cast iron and tempered to relieve stress thereby ensuring lifetime accuracy.
- High performance servo motors are directly coupled to the pre-tensioned ball screws.
- Roller linear guideways on X and Z axis. Box guideways on E axis.
- Roller linear guideways on Y axis, that ensures high stability during heavy cutting.
- 45 degrees slant bed construction features efficient chip removal and firm support.
- Fast indexing turret features bi-directional rotation.
- High rigidity for front and back machining.
- High stiffness and accuracy tanks to the structure configuration and to slideway sizing.
- Original clamping system (**Patented**) allowing the maximum rigidity for turning operations.



SUB SPINDLE

Synchronization for main and sub spindle.
The workpiece can be machining at one time.



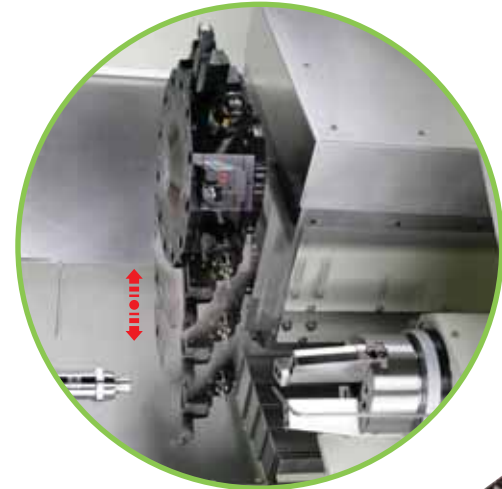
FANUC CNC CONTROL

User-friendly operations are designed and more convenient for users.

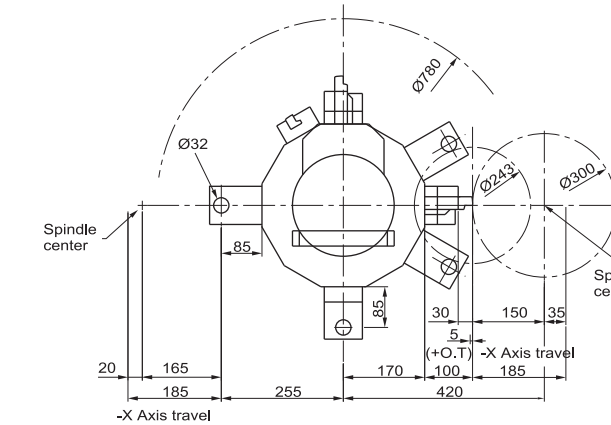


PROGRAMMABLE TAILSTOCK

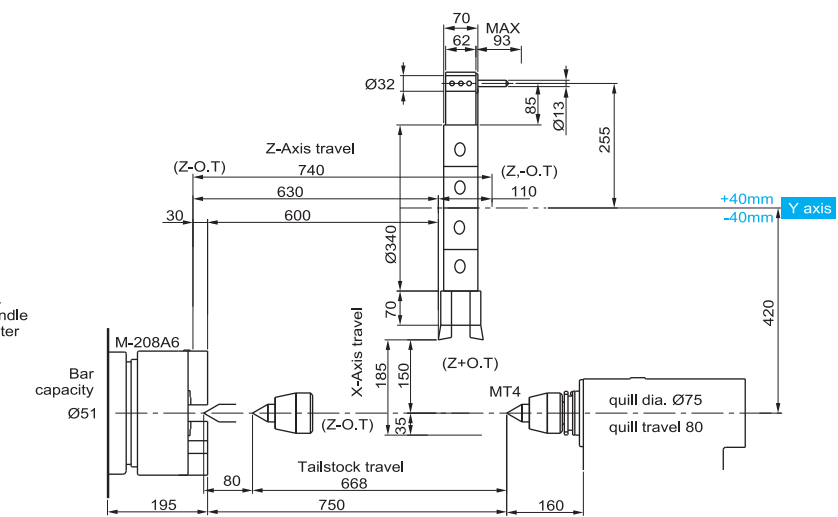
Designed for saving time and manpower.
The orientation of tailstock is high-precision.



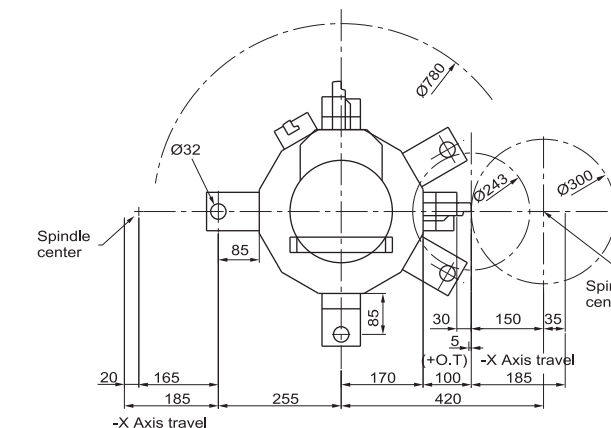
FCL-8Y relation between tool and work diameter



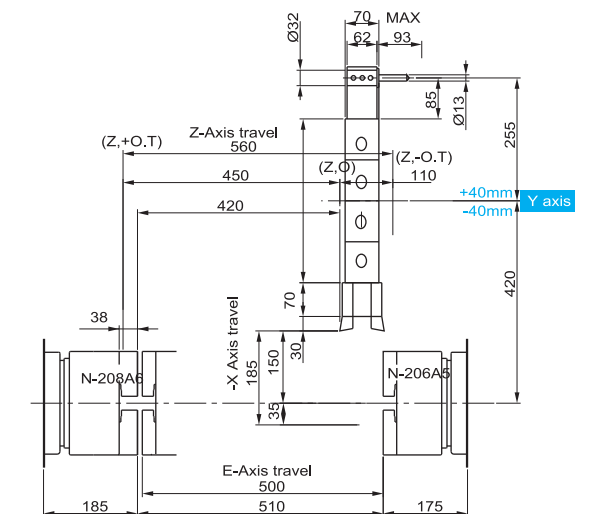
FCL-8Y machine stroke layout



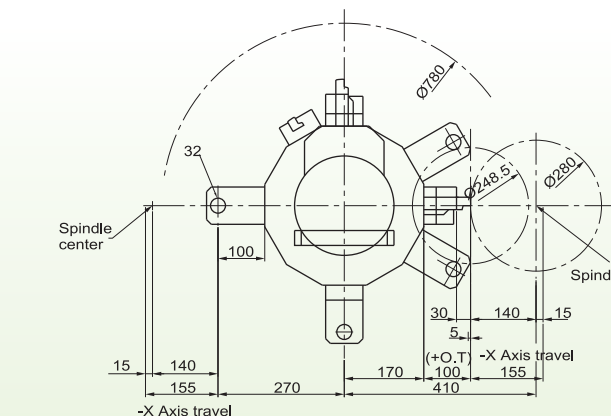
FCL-8SY relation between tool and work diameter



FCL-8SY machine stroke layout



FCL-TY series relation between tool and work diameter



FCL-TY series machine stroke layout

