



CNC Super Lathes



SL-20/30/35/40/40L/50/60/65/70/80/100/120

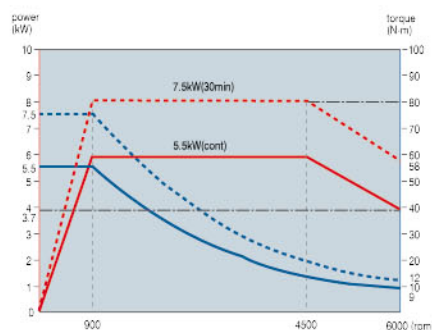
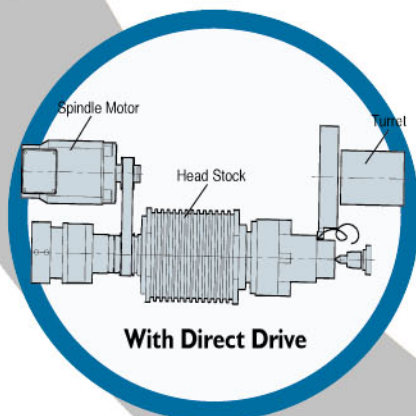
CNC Super Lathes



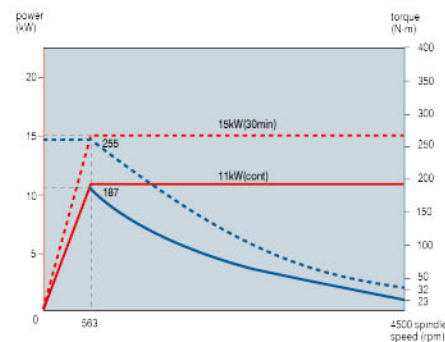
JOHNFORD CNC Super La
building and test to provide
The CNC Super Lathes also
JOHNFORD's outstanding
to achieve a mass producti

SL-20 / 30 / 40 / 40L

Torque Power Chart



SL-20 FANUC AC α 6i

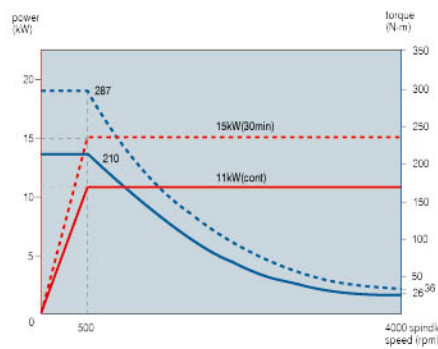


SL-30/35 FANUC AC α P22

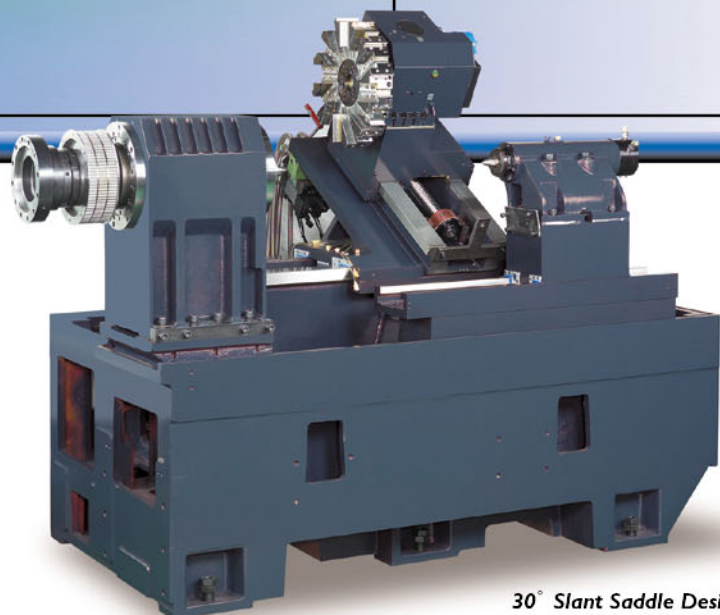
INCREASE YOUR PROFIT WITH JOHNFORD



these are under strict engineering,
you the best machining quality.
bring you profitable operations.
technology experience will help you
on and down the cost.



SL-40/40L FANUC AC α P22



30° Slant Saddle Design
(for SL-20/30/40/40L)

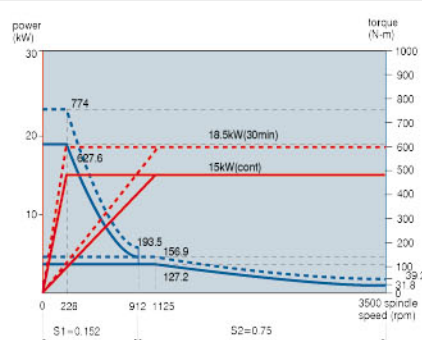
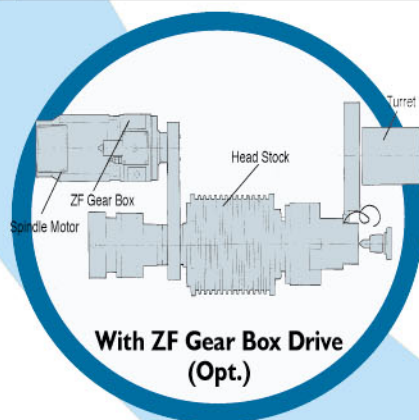
CNC Super Lathes



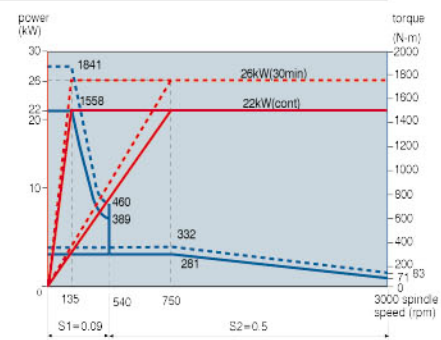
SL-35 / 50 / 60 / 65 / 70 / 80 / 100 /

Torque Power Chart

* About the power chart of SL-35, please refer to the content of Page 1.



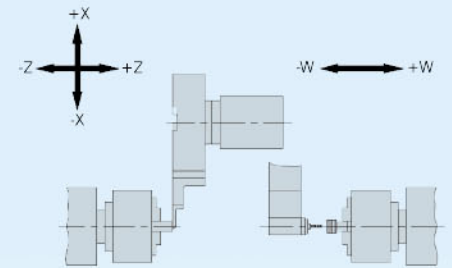
SL-50/60/65 FANUC AC α 15



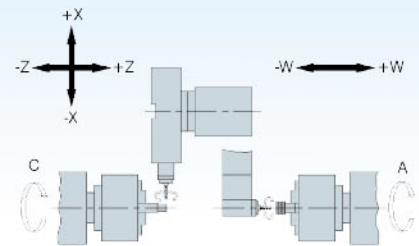
SL-50A/60A/65A/70A/80A/100A FANUC AC α 22

INCREASE YOUR PROFIT WITH JOHNFORD

➔ Sub-Spindle Series (SL-35/50/60/50A/60A/70A/80A/100A-2S)



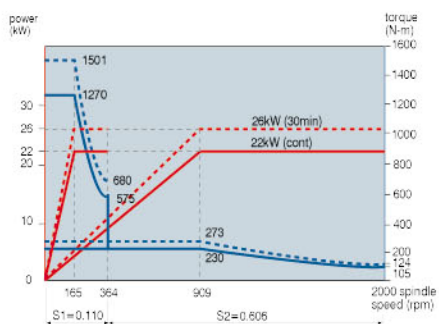
2S Series



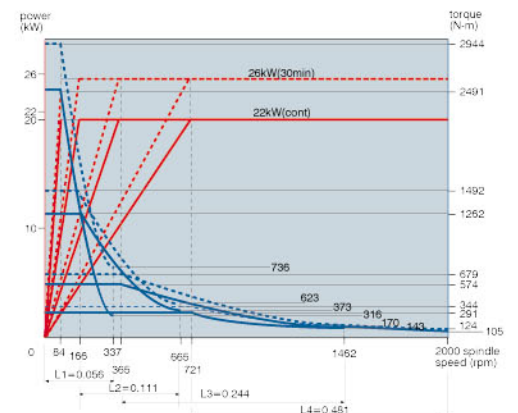
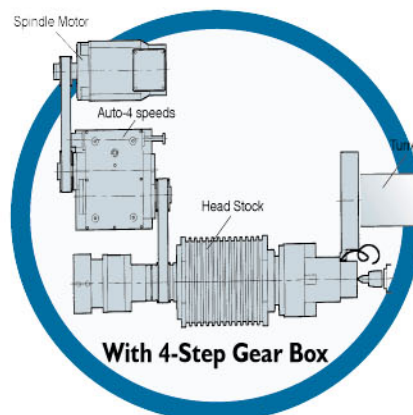
2S+C-Axis Series



I20



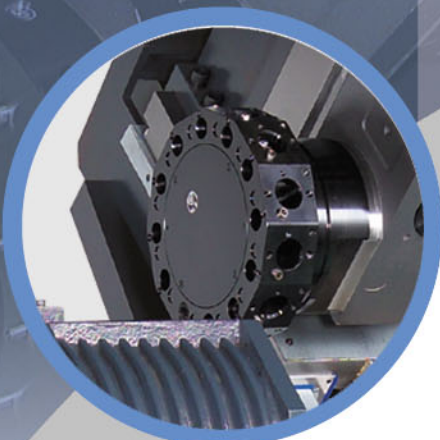
SL-50B/60B/65B FANUC AC α 22



SL-70B/80B/100B FANUC AC α 22

Advanced Structure

* This construction is only for SL-35/50/60/65/70/80/100/120



← Turrets

- High stiffness and accuracy (positioning $\pm 3''$ / repeatability $\pm 1''$)
- High loading capacity:
 1. $\uparrow$ 369 kgf-m $\rightarrow$ 410 kgf-m $\leftarrow$ 174 kgf-m for CLT-80
 2. $\uparrow$ 600 kgf-m $\rightarrow$ 1008 kgf-m $\leftarrow$ 420 kgf-m for CLT-100
 3. $\uparrow$ 1535 kgf-m $\rightarrow$ 1646 kgf-m $\leftarrow$ 809 kgf-m for CLT-160
- Clamping forces :
 1. 2530 kg for CLT-80
 2. 3400 kg for CLT-100 / 160

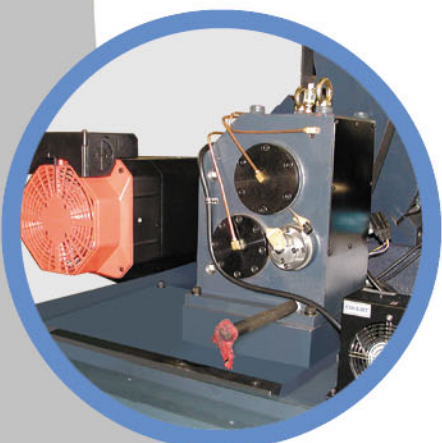


←

High precision spindle is the most suitable to do heavy cutting with rigid structure. It has great power exceeding the turning machines of the same grade in the industry.

Bar capacity:

- $\phi 42$ mm ($\phi 1.7''$) / A2-5
- $\phi 51$ mm ($\phi 2''$) / A2-6
- $\phi 76.5$ mm ($\phi 3''$) / A2-8
- $\phi 91$ mm ($\phi 3.6''$) / A2-8
- $\phi 102$ mm ($\phi 4''$) / A2-11 (Opt.)
- $\phi 116$ mm ($\phi 4.6''$) / A2-11



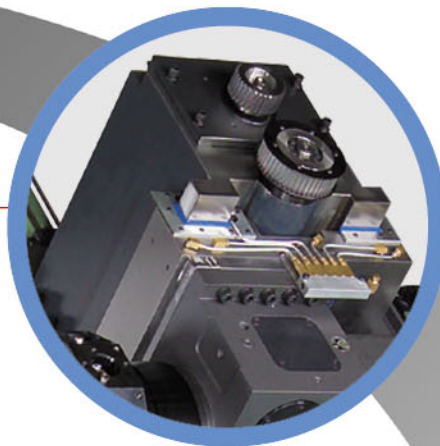
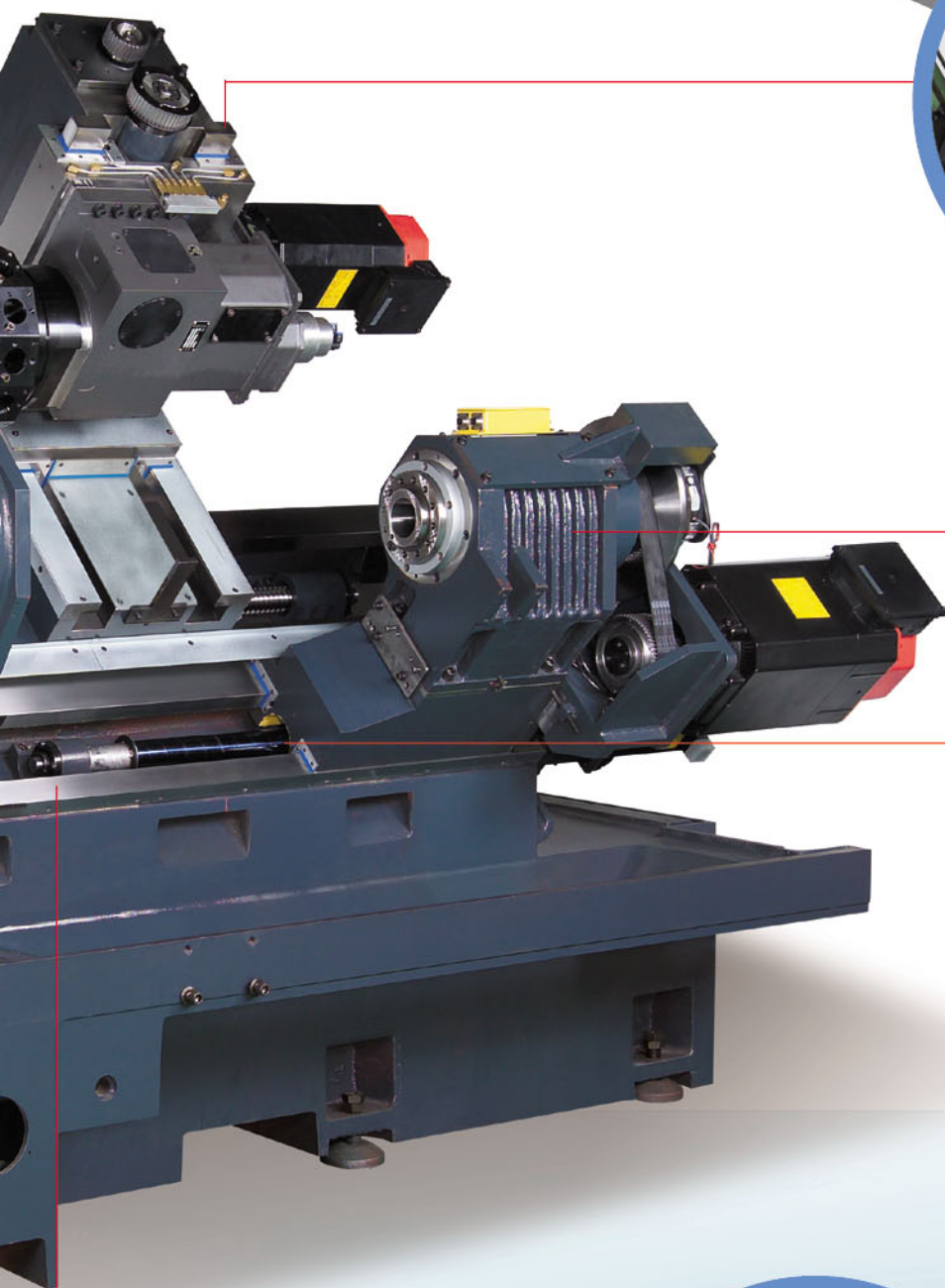
↑

The speed change gear box can give high torque output for cutting. It handles heavy duty cutting with ease and offer proper speed range for light and medium cutting as well. On the models of SL-20/30/35/40/40L, the gear box is optional. The ZF gear box is also optional for your choice.

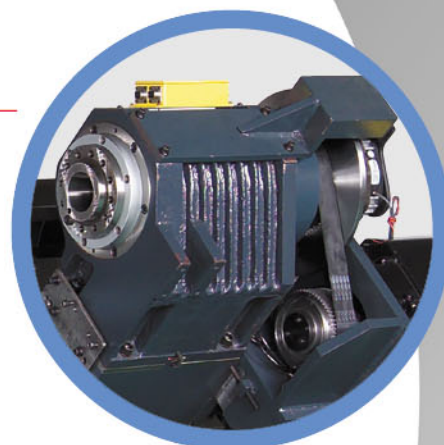


↑

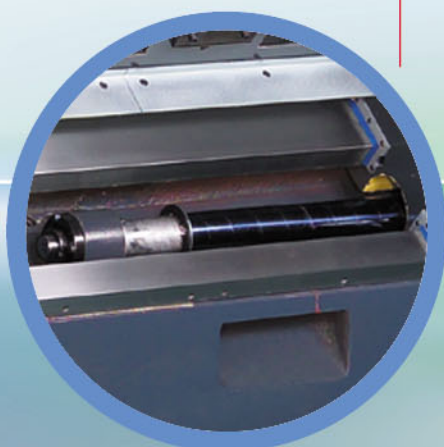
The bed of machine is made from high quality Meehanite cast iron, one piece cast and scientifically constructed for high stability, rigidity, and accuracy.



↑ The optional Y axis with C axis can provide you flexible turning operations to make the special parts.



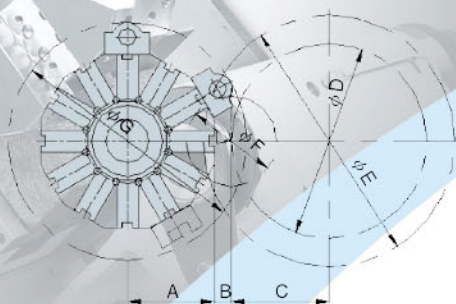
↑ There are two types of tailstocks used on the SL machines, hydraulic tailstock and programmable hydraulic tailstock. The hydraulic tailstock is standard for SL-20/30/40/40L and the programmable hydraulic tailstock is standard for SL-35/50/60/65/70/80/100/120. Both of the tailstocks have larger tailstock quill diameter and taper, and the rotary quill is optional. The quill travel on the programmable hydraulic tailstock is controlled with limit switch.



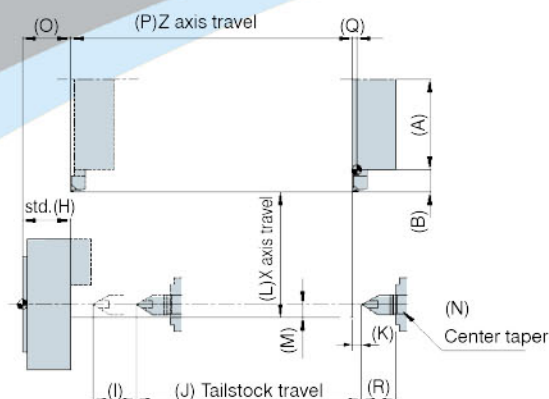
← High rigid and accurate ballscrews are $\phi 28$ mm ($\phi 1.1$ ") and $\phi 40$ mm ($\phi 1.6$ ") for X axis and $\phi 40$ mm ($\phi 1.6$ ") and $\phi 50$ mm ($\phi 2$ ") for Z axis. Large diameter of ballscrew is $\phi 40$ mm ($\phi 1.6$ ") for the optional Y axis. They are pretensioned to eliminate thermal growth.

↑ All sideways are hardened, precision ground coated with TURCITE-B plus master scraping, ensuring smoothness, accuracy and durability.

12-Angle Turret Working Capacity/Range



See the specification.

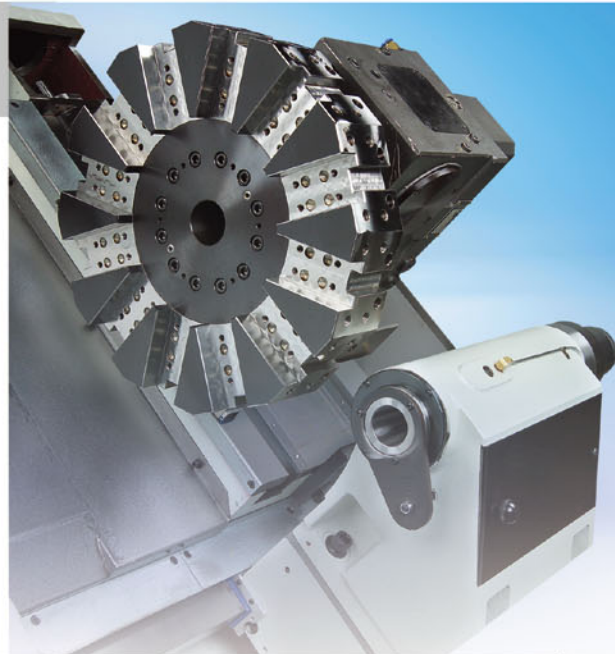
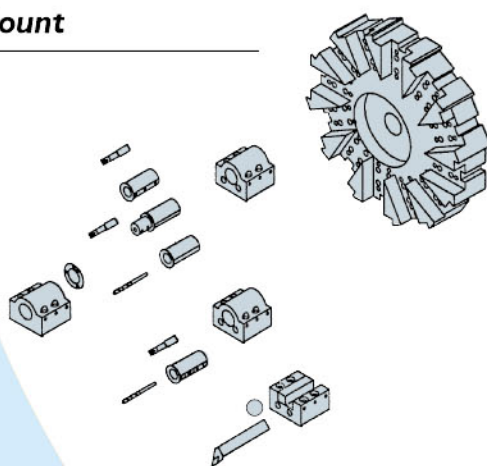


Unit: mm

Model	Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
SL-20				165	330	400			91		500		180			91	600		
SL-30				175	350		165	460	103	60	320		190	15	MT.4	103	400		68
SL-35	170	35									500		240				600		
SL-40											900						1000		
SL-40L											530						650		
SL-50				225	450	580			113		900	10	250			113	1040	10	
SL-60	210	40					209	550		100	1300						1500		
SL-65											1200						1550		
SL-70											1700			25	MT.5		2000		90
SL-80											2200		295			122	2500		
SL-100	234	36	270	540	700	246	658	122	125		2700						3000		
SL-120																			

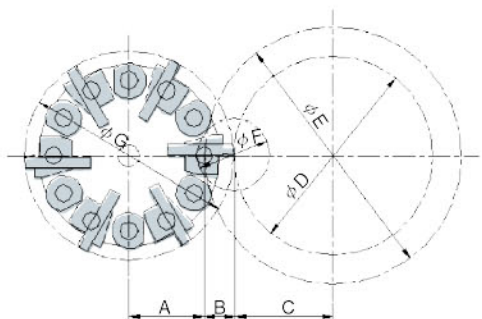
Tool

Direct Mount

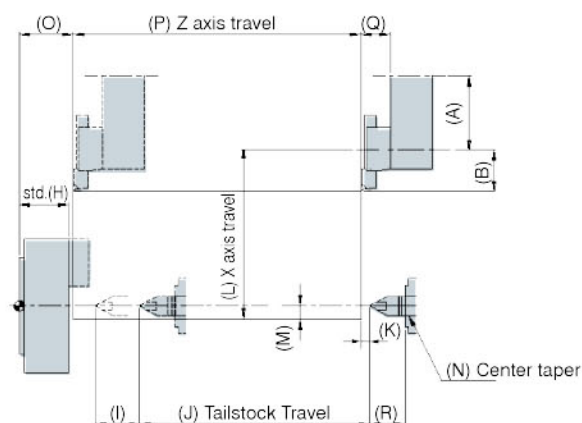


Tool	Model	SL-20 / 30 / 35 / 40 / 40L	SL-50 / 60 / 65	SL-70 / 80 / 100 / 120
Bore		$\phi 8, \phi 10, \phi 12, \phi 16$ $\phi 20, \phi 25, \phi 32$	$\phi 8, \phi 10, \phi 12, \phi 16$ $\phi 20, \phi 25, \phi 32, \phi 40$	$\phi 12, \phi 16, \phi 20, \phi 25$ $\phi 30, \phi 32, \phi 40, \phi 50$
Outerdia		25, 20 (Opt.)	25	32
End		25, 20 (Opt.)	25	32
Tap		$\phi 16$	$\phi 20$	$\phi 32$
Drill		MT#2, #3	MT#2, #3, #4	MT#2, #3, #4, #5

12-VDI Turret Working Capacity/Range



See the specification.



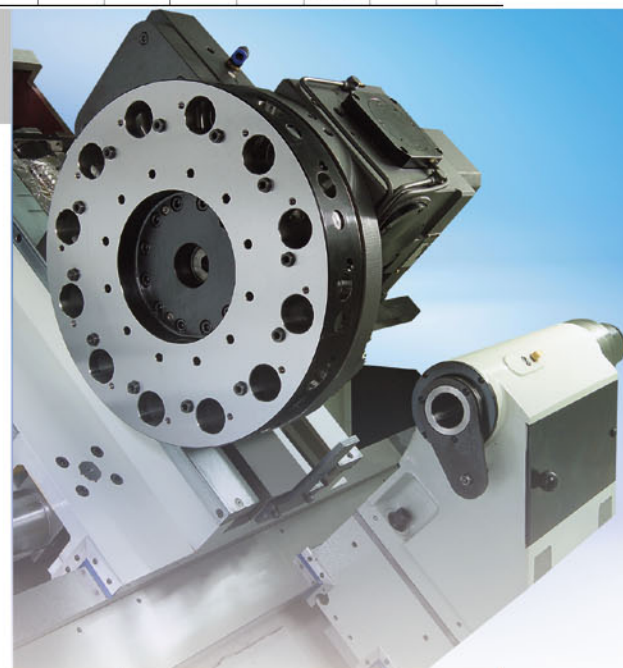
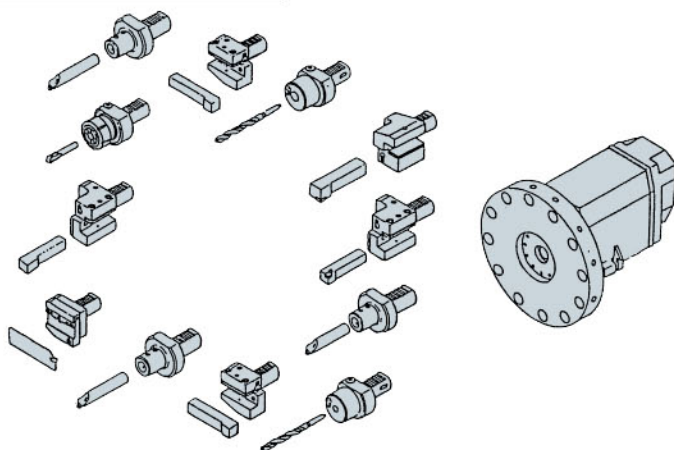
*When the machine is equipped with the optional Y-axis function, the Z-axis travel (P) and the tailstock travel (J) are less 100 mm than the specifications on the table.

Unit: mm

Model	Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
SL-20				125	250	400			91		500		180			91	600		
SL-30																			
SL-35	133	45		135	270		161	460	103	60	320		190		MT.4	103	400	45	68
SL-40											500						600		
SL-40L											900		240				1000		
SL-50				185	370	580			113		530						650		
SL-60	170	55					154	620		100	900	10	250	10		113	1040	55	
SL-65											1300						1500		
SL-70											1200						1550		
SL-80											1700				MT.5		2000		
SL-100	200	64	221	442	700	224	685	122	125		2200		295			122	2500	67	90
SL-120											2700						3000		

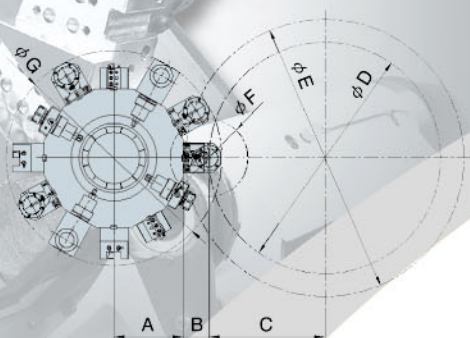
Tool

VDI (Opt.)

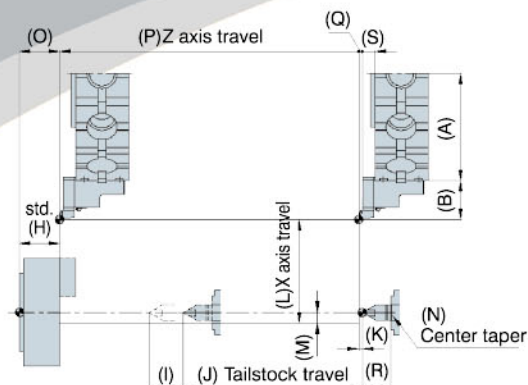


Tool	Model	SL-20 / 30 / 35 / 40 / 40L	SL-50 / 60 / 65	SL-70 / 80 / 100 / 120
Bore		$\phi 8, \phi 10, \phi 12, \phi 16$ $\phi 20, \phi 25, \phi 32$	$\phi 8, \phi 10, \phi 12, \phi 16$ $\phi 20, \phi 25, \phi 32, \phi 40$	$\phi 12, \phi 16, \phi 20, \phi 25$ $\phi 30, \phi 32, \phi 40, \phi 50$
Outerdia		☐ 25	☐ 20, ☐ 25	☐ 25, ☐ 32
End		☐ 25	☐ 20, ☐ 25	☐ 25, ☐ 32
Tap		$\phi 16$	$\phi 20$	$\phi 32$
Drill		MT#1, #2, #3	MT#2, #3, #4	MT#2, #3, #4, #5

BMT Turret Working Capacity/Range



See the specification.

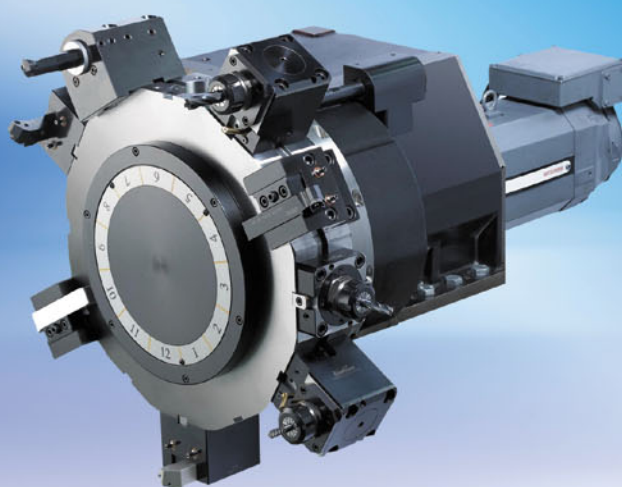
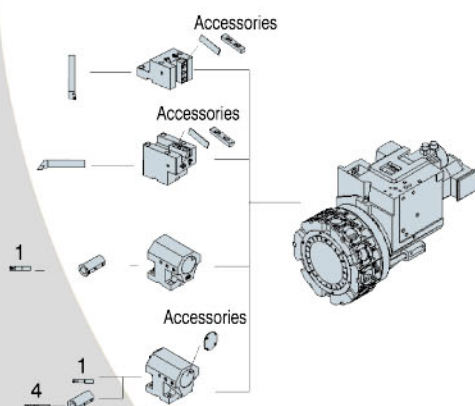


Unit: mm

Model	Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
SL-20				125	250	400			91		350		135			91	450			
SL-30				135	270		200	610	103	60	170		150		MT.4	103	250		68	44
SL-35	190	60									350		200				450			
SL-40											750						850			
SL-40L											430	10		10		113	550	10		
SL-50				185	370	580			113		800		230				940			31
SL-60	190	72					210	605		100	1200						1400			
SL-65											1100						1450			
SL-70											1600						1900		90	
SL-80											2100		231			122	2400			33
SL-100	230	125	221	442	700	290	815	122	125		2600						2900			
SL-120																				

Tool

Direct Mount



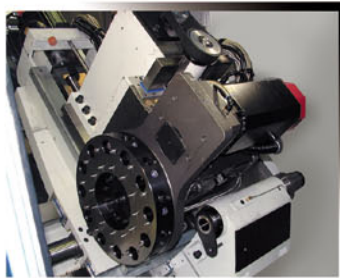
Tool	Model	SL-20/30/40/40L	SL-50/60/65	SL-70/80/100/120
Bore		φ 6, φ 10, φ 12, φ 16, φ 20, φ 25	φ 6, φ 10, φ 12, φ 16, φ 20, φ 25, φ 32	φ 12, φ 16, φ 20, φ 25, φ 32, φ 40, φ 50
Outer dia		□ 25	□ 25	□ 32
End		□ 25	□ 25	□ 32
Drill		MT#2, #3	MT#2, #3	MT#2, #3, #4, #5

Tool	Model	SL-20/30/40/40L+C	SL-50/60/65+C	SL-70/80/100/120+C
Power turret model		BMT 55 / ER 25	BMT 65 / ER 32	BMT 75 / ER 40
Max. speed of turret		4000 rpm	4000 rpm	3000 rpm
Twist drilling		18 x 0.20	20 x 0.21	26 x 0.16
Slot milling		20 x 10 x 110	24 x 12 x 120	30 x 15 x 115
Tapping		M16 x 2.0	M20 x 2.5	M22 x 2.5
Toolholder shaft size		φ 55	φ 65	φ 75
Motor horsepower		AC 3.7 / 5.5 kW	AC 3.7 / 5.5 kW	AC 5.7 / 7.5 kW

Power Turret with C-Axis/C+Y-Axis Function



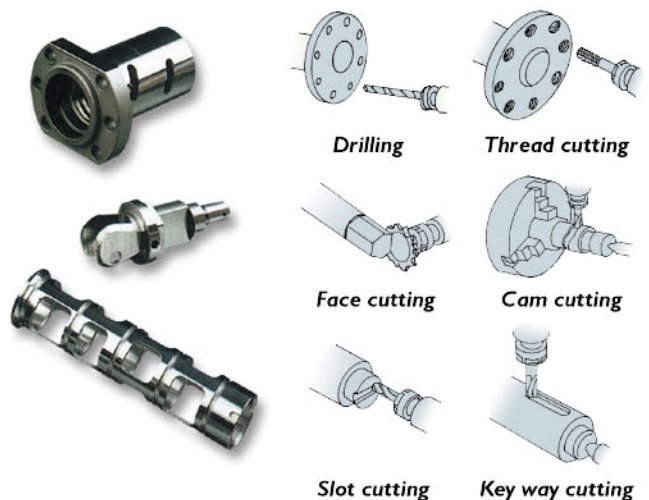
Power Turret with C-Axis



Power Turret with C+Y-Axis

C-axis or C+Y-axis provides flexible turning performance for handling cam or special profiled parts that need milling / drilling/ tapping operations. 0.001 degree indexing allows accurate circular positioning.

Examples for Machining with Live Tools



Specifications

Item	Model	SL-20 / 30 / 35 / 40 / +C	SL-50 / 60 / 65 / +C	SL-70 / 80 / 100 / 120 +C
Power turret model (* for Y-axis)		TBMA 160 TBYA 160*	TBMA 200 TBYA 200*	TBMA 250 TBYA 250*
Max. speed of turret		4800 rpm	3800 rpm	3276 rpm
Twist drilling	$d \times a$ (mm)x(mm/μ)	12 x 0.20	20 x 0.20	22 x 0.20
Slot milling	$d \times P \times a$ (mm)x(mm)x(mm/min)	20 x 10 x 40	25 x 14 x 40	25 x 20 x 40
Tapping	$d \times p$ (mm)x(mm)	M8 x 1.25	M16 x 2	M18 x 2
Toolholder shaft size		φ 30	φ 40	φ 50
Motor horsepower		AC 3.7 / 2.2 kW	AC 5.5 / 3.7 kW	AC 5.5 / 3.7 kW

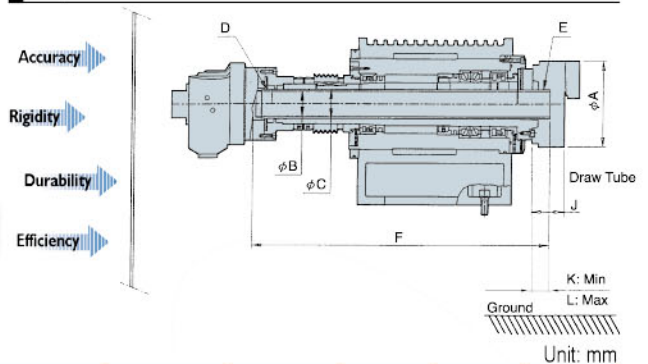
High Performance Spindles

Spindle

The spindle is mounted on precision-double-row roller bearings in conjunction with angular contact ball bearings, providing highest rigidity and accuracy. The spindle is manufactured from alloy steel, heat treated and precision ground for maximum uniformity and durability. The quill inner and outer lining is precision ground for fit with the spindle, thus ensuring extreme concentricity and accuracy of turned parts, and spindle service life is greatly extended.



Spindle Construction

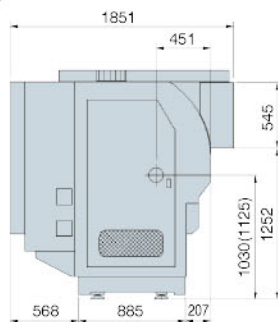


Model	Dimension	φ A	φ B	φ C	D	E	F	J	K	L
SL-20		φ 165	φ 42	φ 55	M55 x P2.0	M55 x P2.0	426	91	32	54
SL-30 / 35		φ 210	φ 51	φ 65	M60 x P1.5	M60 x P2.0	665	103	32	54
SL-40 / 40L		φ 210	φ 76.5	φ 86	M85 x P2.0	M85 x P2.0	677	115	32.5	57.5
SL-50 / 60 / 65		φ 254	φ 76.5	φ 86	M87 x P2.0	M85 x P2.0	871.5	113	32.5	51.5
SL-50A / 60A / 65A / 70A / 80A / 100A / 120A		φ 304	φ 91	φ 115	M100 x P2.0	M100 x P2.0	1071	122	31	54
SL-50A / 60A / 65A / 70A / 80A / 100A / 120A (Opt.)		φ 315	φ 102	φ 115	M130 x P2.0	M115 x P2.0	1118	134	47	70
SL-50B / 60B / 65B / 70B / 80B / 100B / 120B		φ 381	φ 116	φ 132.5	M130 x P2.0	M130 x P2.0	1084	149	49	72

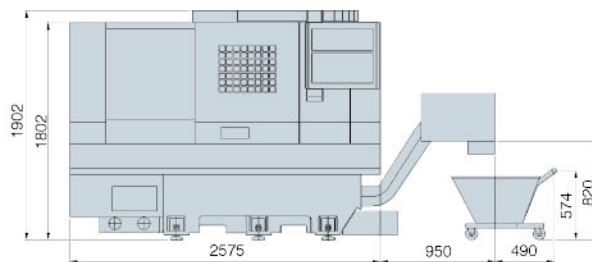
Dimensions

SL-20 / 30 / 40

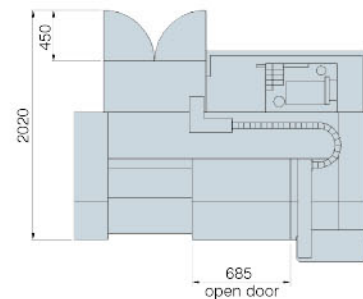
() For SL-40



Side View

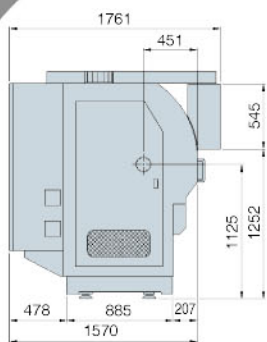


Front View

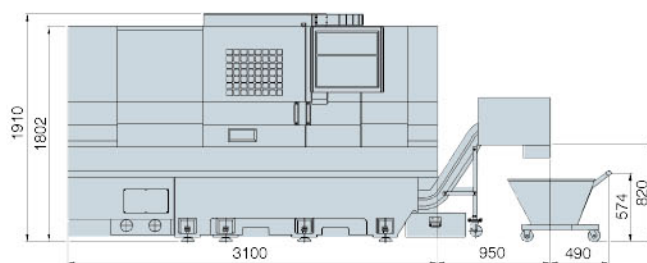


Top View (floor space required)

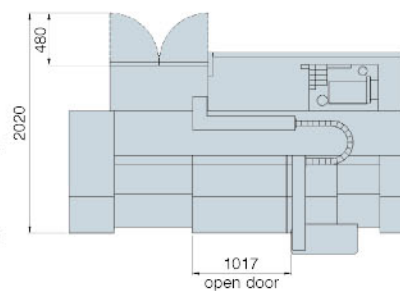
SL-40L



Side View

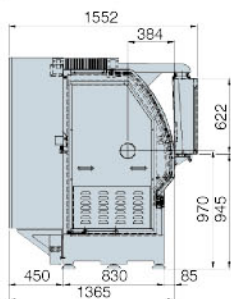


Front View

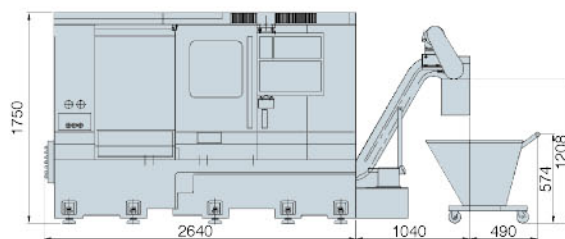


Top View (floor space required)

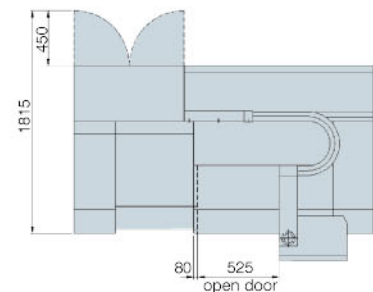
SL-35



Side View



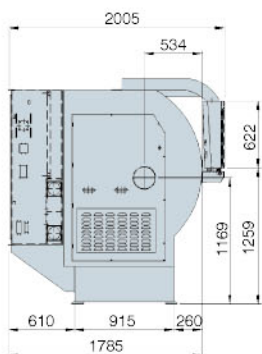
Front View



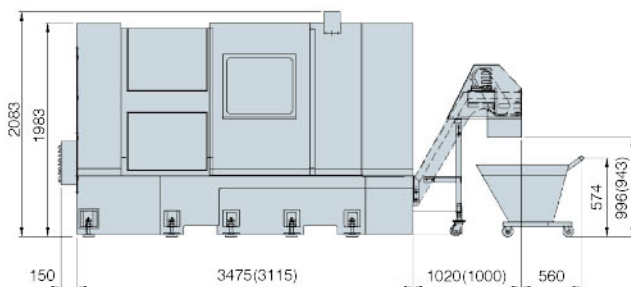
Top View (floor space required)

SL-50 / 50A / 50B / 60 / 60A / 60B

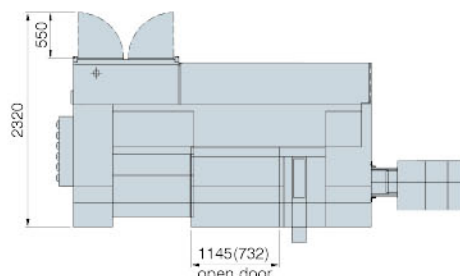
() For SL-50 / 50A / 50B



Side View

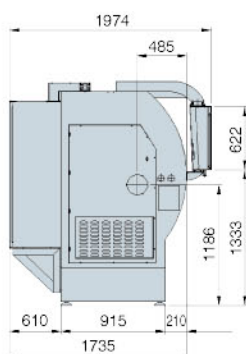


Front View

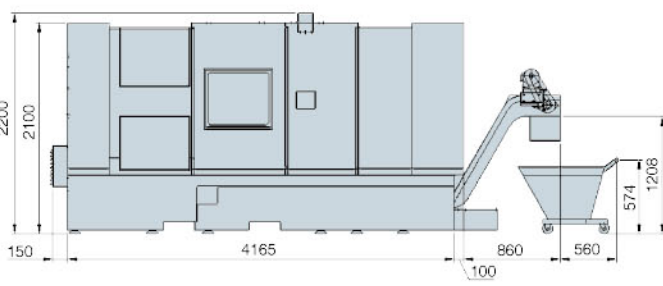


Top View (floor space required)

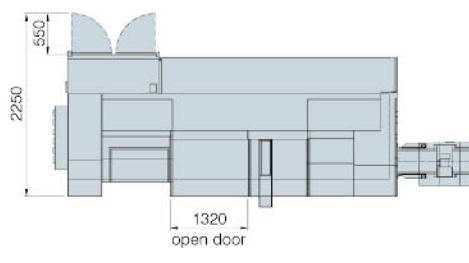
SL-65 / 65A / 65B



Side View



Front View



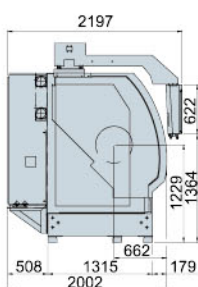
Top View (floor space required)

SL-70A / 80A / 100A / 120A / 70B / 80B / 100B / 120B

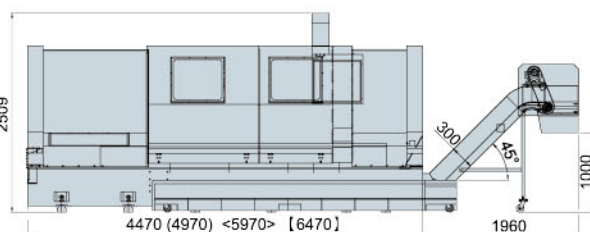
() For SL-80A / 80B

< > For SL-100A / 100B

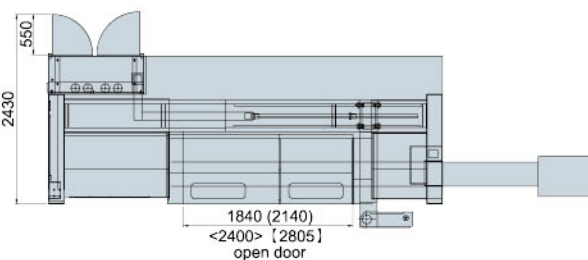
[] for SL-120A / 120B



Side View



Front View



Top View (floor space required)

Specifications

Model		SL-20	SL-30	SL-35	SL-40	SL-40L	SL-50	SL-60	SL-65	SL-50A	SL-60A	SL-65A	
Item													
Swing over bed (mm)		φ 400			φ 580								
Swing over cross slide (mm)		φ 330		φ 350	φ 450								
Chuck size (inch)		6	8		10					12			
Bar capacity (mm)		φ 42	φ 51		φ 76.5					φ 91 / φ 102 (Opt.)			
Spindle nose		A2-5	A2-6		A2-8					A2-8 / A2-11 (Opt.)			
Spindle bore (mm)		φ 55	φ 65		φ 86					φ 115			
Spindle transmission		One step					2 Step Auto						
Spindle speed (rpm)		6000	4500		4000		3500			3000 / 2800 (Opt.)			
Spindle motor (kW)		5.5 / 7.5	11 / 15				15 / 18.5			22 / 26			
Spindle bearing diameter (mm)		φ 90	φ 100		φ 120		φ 130			φ 160			
No. of tools		12											
Cross travel (X-axis) (mm)		180		190	240		250						
Y-axis travel (mm)		—		±40									
Longitudinal travel(Z-axis)(mm) (forY-axis)		600		400 (300)	600 (500)	1000 (900)	650 (550)	1040 (940)	1500 (1400)	650 (550)	1040 (940)	1500 (1400)	
Rapid traverse (X/Y/Z) (m/min)		24 / — / 24		24 / 10 / 24		20 / 10 / 20		15 / 10 / 18					
Tailstock travel (mm) (forY-axis)		500		320		500 (400)	900 (800)	530 (430)	900 (800)	1300 (1200)	530 (430)	900 (800)	1300 (1200)
Tailstock quill travel (mm)		60					100						
Tailstock quill diameter (mm)		φ 60					φ 85						
Tailstock spindle taper	Fixed	MT#4					MT#5						
	Rotary	MT#3 (Opt.)					MT#4 (Opt.)						
Servo motor (X-axis) (kW)		1.6					3 / 4 (forY-axis)						
Servo motor (Y-axis) (kW)		—		1.6									
Servo motor (Z-axis) (kW)		1.6				3		4					
Power turret motor (Y-axis)(kW)		—		3.7 / 5.5									
Bed Inclination / Saddle Inclination(*)		30° (*)		45°		30° (*)		45°					
Weight (kg)		3800	4000	4200	4500	5500	6500	8500	10500	7000	9000	11000	
Machine	W x H	1851 x 1862		1552x1710		1851 x 1862		2320 x 2060	2320 x 2060	2250 x 2160	2320 x 2060	2320 x 2060	2250 x 2160
dimensions (mm)	L	3525		3680		3525	4050	4265	4645	5275	4265	4645	5275

■ All data subject to change without notice.

■ All the specifications are listed with the FANUC CNC system and 12-angle turret.

Standard Accessories:

- Coolant system
- Splash guard
- Through hole 3-jaw chuck
- Programmable hydraulic tailstock (for SL-35/50/65/70/80/100/120)
- Hydraulic tailstock quill (for SL-20/30/40/40L)
- Chain type chip conveyor
- Tool box and various manuals
- Tool holders (direct mounting type)
- Auto lubrication with alarm
- Halogen working lamp
- Type of guide ways: box ways
- FANUC 0iTD controller

Model Item		SL-70A	SL-80A	SL-100A	SL-120A	SL-50B	SL-60B	SL-65B	SL-70B	SL-80B	SL-100B	SL-120B
Swing over bed (mm)		ϕ 700				ϕ 580			ϕ 700			
Swing over cross slide (mm)		ϕ 540				ϕ 450			ϕ 540			
Chuck size (inch)		12				15						
Bar capacity (mm)		ϕ 91 / ϕ 102 (Opt.)				ϕ 116						
Spindle nose		A2-8 / A2-11 (Opt.)				A2-11						
Spindle bore (mm)		ϕ 115				ϕ 132.5						
Spindle transmission		2 Step Auto							4 step			
Spindle speed (rpm)		3000 / 2800 (Opt.)				2000						
Spindle motor (kW)		22 / 26										
Spindle bearing diameter (mm)		ϕ 160				ϕ 180						
No. of tools		12										
Cross travel (X-axis) (mm)		295				250			295			
Y-axis travel (mm)		±50				±40			±50			
Longitudinal travel(Z-axis)(mm) (forY-axis)		1550 (1450)	2000 (1900)	2500 (2400)	3000 (2900)	650 (550)	1040 (940)	1500 (1400)	1550 (1450)	2000 (1900)	2500 (2400)	3000 (2900)
Rapid traverse (X/Y/Z) (m/min)		12 / 10 / 15				15 / 10 / 18			12 / 10 / 15			
Tailstock travel (mm) (forY-axis)		1200 (1100)	1700 (1600)	2200 (2100)	2700 (2600)	530 (430)	900 (800)	1300 (1200)	1200 (1100)	1700 (1600)	2200 (2100)	2700 (2600)
Tailstock quill travel (mm)		125				100			125			
Tailstock quill diameter (mm)		ϕ 125				ϕ 85			ϕ 125			
Tailstock	Fixed	MT#5				MT#5			MT#5			
spindle taper	Rotary	MT#5 (Opt.)				MT#4 (Opt.)			MT#5 (Opt.)			
Servo motor (X-axis) (kW)		3 / 4 (for Y-axis)										
Servo motor (Y-axis) (kW)		3.8				1.6			3.8			
Servo motor (Z-axis) (kW)		4										
Power turret motor (Y-axis)(kW)		3.7 / 5.5										
Bed Inclination / Saddle Inclination ^(*)		45°										
Weight (kg)		14000	15000	16000	17000	7500	9500	11500	14000	15000	16000	17000
Machine	W x H	2430 x 2510				2320 x 2060	2320 x 2060	2250 x 2510	2430 x 2510			
dimensions (mm)	L	5485	6930	6985	7485	4265	4645	5275	5485	6930	6985	7485

- All data subject to change without notice.
- All the specifications are listed with the FANUC CNC system and 12-angle turret.

Optional Accessories:

1. C-axis (C.S axis with angle encoder but no gearbox / C.F axis with gear box)
7. Bar feeder interface (or bar feeder)
2. C+Y-axis
8. 2 Step auto gearbox (SL-20/30/35/40/40L)
3. Contact tool setting system (Renishaw TS20 or BLUM NT-A2/NT-A3)
9. Rotary tailstock
4. Parts catcher
10. Angle encoder for C-axis
5. Tool holders (VDI type)
-
6. Programmable hydraulic tailstock (for SL-20/30/40/40L)

Model Item		Sub-Spindle							
		SL-35-2S	SL-50-2S	SL-60-2S	SL-50A-2S	SL-60A-2S	SL-70A-2S	SL-80A-2S	SL-100A-2S
Swing over bed (mm)		φ 400	φ 580				φ 700		
Swing over cross slide (mm)		φ 280	φ 450 / φ 380 (Y-axis)				φ 540		
Chuck size (inch)		8	10		12				
Bar capacity (mm)		φ 51	φ 76.5		φ 91 / φ 102 (Opt.)				
Spindle nose		A2-6	A2-8		A2-8 / A2-11 (Opt.)				
Spindle bore (mm)		φ 66	φ 86		φ 115				
Spindle transmission		One step			2 Step Auto				
Spindle speed (rpm)		4500	3500		3000 / 2800 (Opt.)				
Spindle motor (kW)		9 / 11	15 / 18.5		22 / 26				
Spindle bearing diameter (mm)		φ 100	φ 130		φ 160				
Sub-spindle chuck size (inch)		6	8						
Sub-spindle bar capacity (mm)		φ 42	φ 51						
Sub-spindle nose		A2-5	A2-6						
Sub-spindle bore (mm)		φ 55	φ 66						
Sub-spindle speed step		One step							
Sub-spindle speed (rpm)		6000	4500						
Sub-spindle motor (kW)		5.5 / 7.5	11 / 15						
Sub-spindle bearing diameter (mm)		φ 85	φ 100						
No. of tools		12							
Cross travel (X-axis) (mm)		155	250				295		
Y-axis travel		—	±40				±50		
Longitudinal travel (Z ₁ /Z ₂ -axis) (mm)		400	500	900	500	900	1400	1800	2300
Rapid traverse (X ₁ / Y / Z ₁ / Z ₂)(m/min)		16 / — / 20 / 24	15 / 10 / 18 / 18				12 / 10 / 15 / 15		
Servo motor (X-axis) (kW)		1.6	3 / 4 (for Y-axis)						
Servo motor (Y-axis) (kW)		—	1.6				3.8		
Servo motor (Z ₁ /Z ₂ -axis) (kW)		1.6 / 3	4.0						
Power turret motor (Y-axis) (kW)		—	3.7 / 5.5						
Bed Inclination		45°							
Weight (kg)		5000	6500	7800	6500	7800	14000	14500	15000
Machine dimensions (mm)	W x H	1670 x 1750	2100 x 2120				2520 x 2200		
	L	3933	4400	5210	4675	5540	5485	6930	6485

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■ All the specifications are listed with the FANUC CNC system and 12-angle turret.

CNC Control Specs



■ CNC system type

O: Std. △: Opt. -: Nil

Type	Model	SL-20/30/35/40/40L/50/60/65/70/80/100/120
Fanuc 0i-TD		○
Fanuc 31iB		△
Siemens 840D		△
Siemens 828D		△

■ Fanuc specifications

O: Std. △: Opt. -: Nil

	Item	Specifications	0iTD	31iB
Display unit	8.4" color LCD		○	-
	10.4" color LCD		△	○
	Data Server with 2GB CF card		△	△
Function	NC program memory	1280M (512KB)	○	○
	Conversational programming	Manual guide 0i 0iTD	○	-
	with graphic function	Manual guide i 31iB / 0iTD (10.4" LCD)	△	○
	No. of tool offset sets		64	99
	No. of variable command sets		500	500
	Work coordinate system	G54~G59	○	○



■ Siemens specifications

O: Std. △: Opt. -: Nil

	Item	Specifications	828D	840D
Operation Panel	10.4" color LCD		○	○
	15.1" color LCD		-	△
	Machine Panel MCP483C		○	○
	TCU without hard disk	CF card	○	○
	PCU 50 with hard disk		-	△
	Ethernet		○	○
Function	ShopTurn programming		△	△
	Automatic residual material detection		△	△
	Transmit / Peripheral surface transformation		△	△
	Measuring cycles for drilling/milling and turning		△	△





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