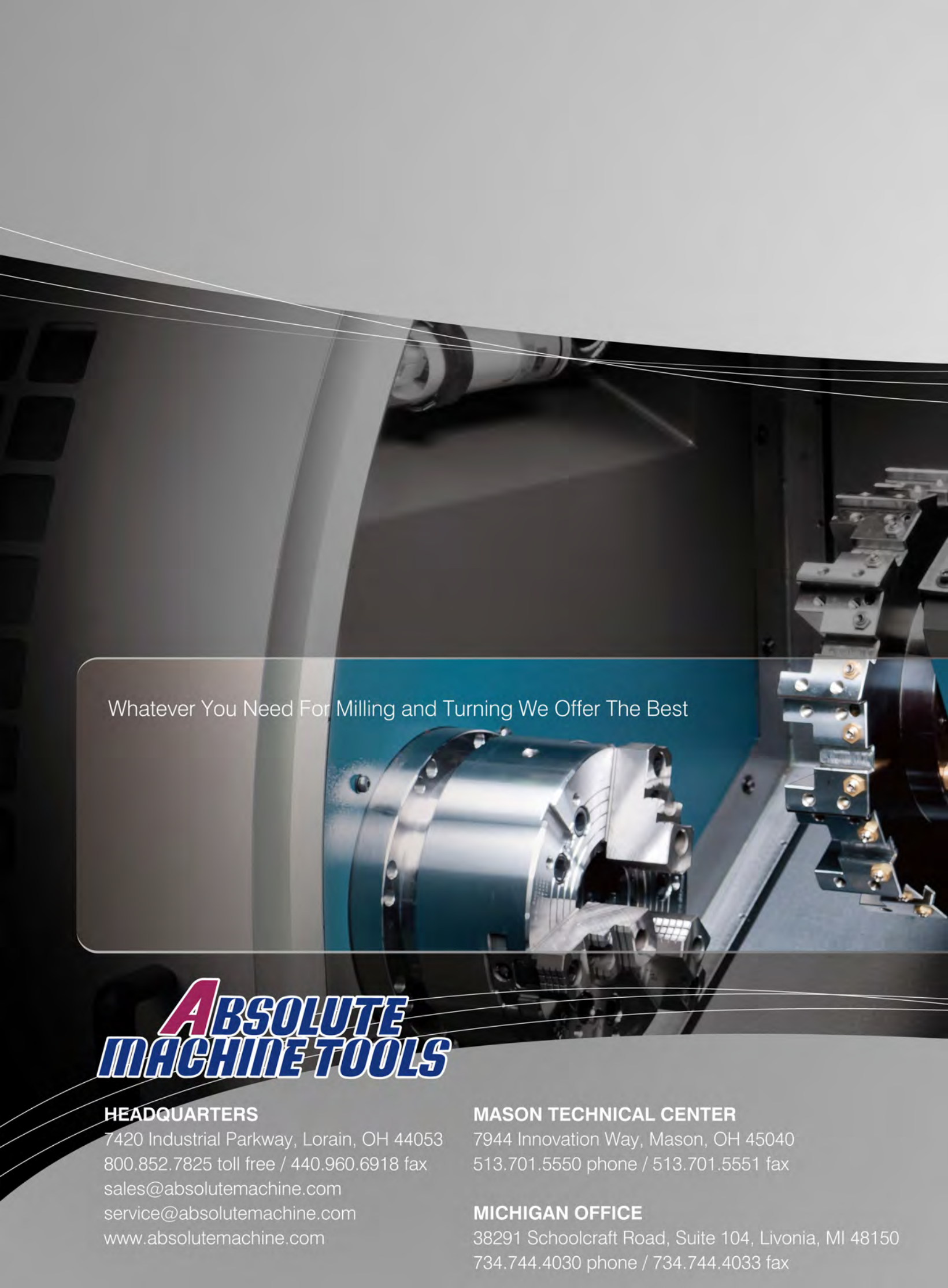




SL-300

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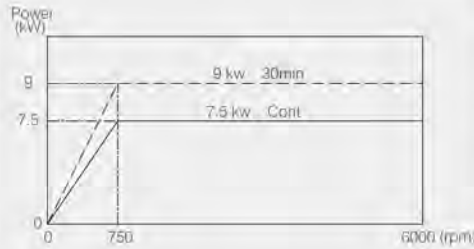
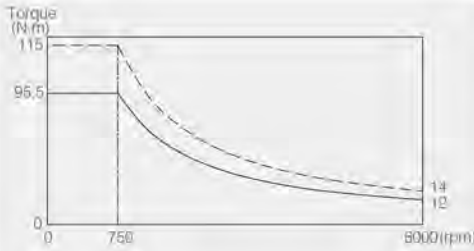
MASON TECHNICAL CENTER

7944 Innovation Way, Mason, OH 45040
513.701.5550 phone / 513.701.5551 fax

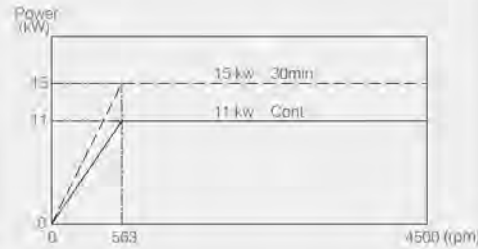
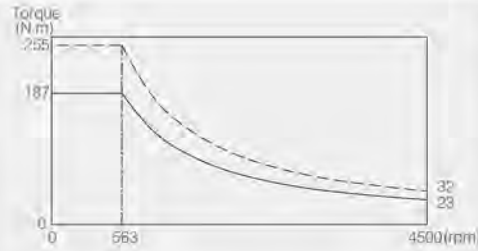
MICHIGAN OFFICE

38291 Schoolcraft Road, Suite 104, Livonia, MI 48150
734.744.4030 phone / 734.744.4033 fax

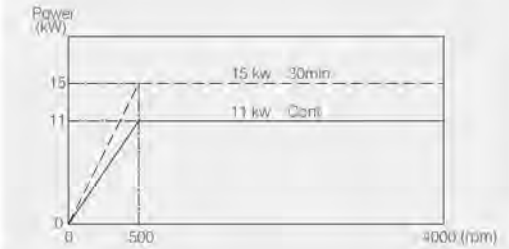
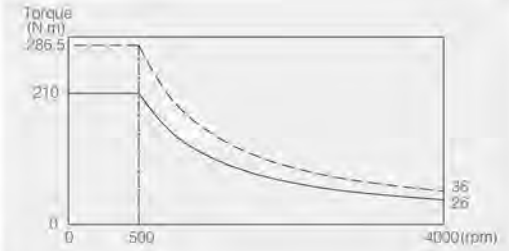
SL-300-I



SL-300-II

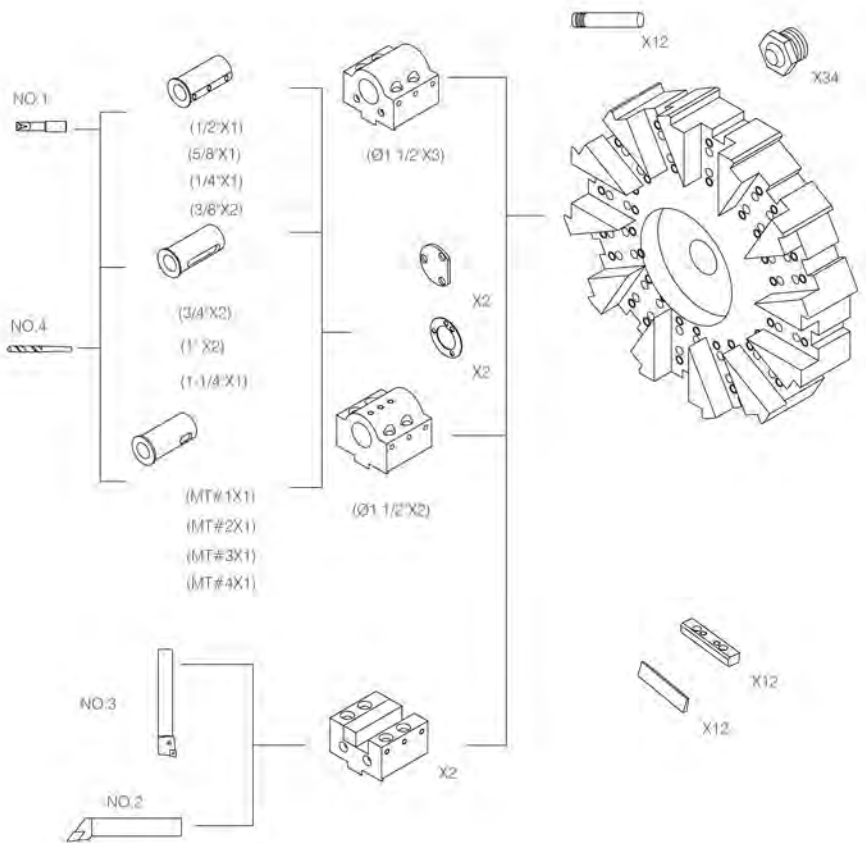
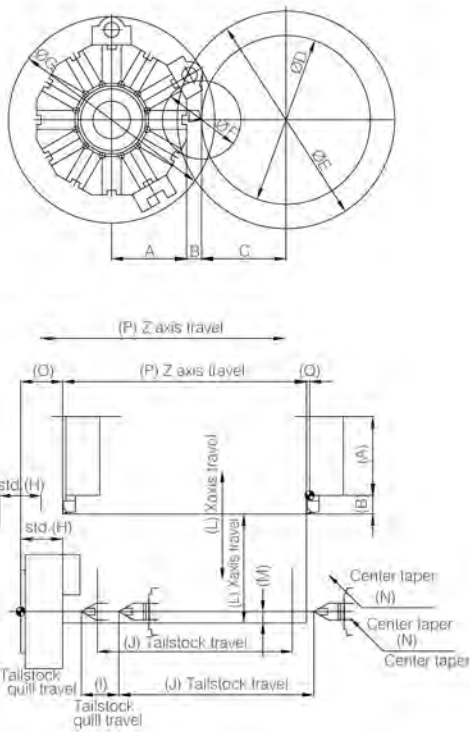


SL-300-III



Working Range / 12-Angle Turret

Accessory Kit for Turret



Mode / Item	A	B	C	D	E	F	G	H
SL-300			165	330	400			103
		170	35	6.5"	13"	15.7"	165	460
SL-300(opt.)	6.7"	1.4"	225	450	580	6.5"	18.1"	113
			8.9"	17.7"	22.8"			4.4"

Mode / Item	I	J	L	M	N	O	P	Q
SL-300			180			103		
	60	500	7.1"	15	MT4	4.1"	600	10
SL-300(opt.)	2.4"	19.7"	240	0.6"		113	23.6"	0.4"
			9.4"			4.4"		

NO.	Model Taper Tool	SL-300
1	Bore	1/4", 3/8", 1/2", 5/8", 3/4", 1", 1 1/4"
2	End	□ 1"
3	Outer dia	□ 1"
4	Drill	MT#1, #2, #3, #4

Specifications

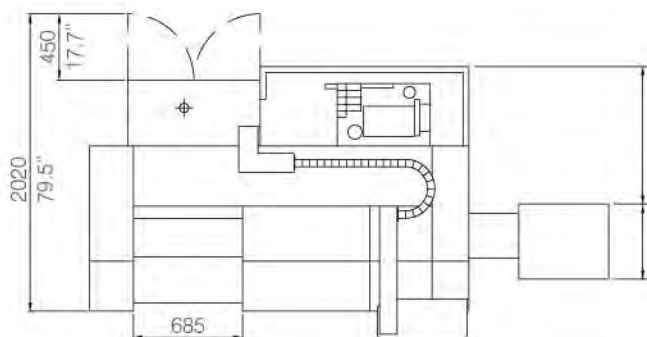
Model	SL-300-I	SL-300-II	SL-300-III
Swing over bed (inch)		Ø400 (Ø15.7")	
Swing over cross slide (inch)		Ø330 (Ø13")	
Chuck size	6"	8"	10"
Bar capacity (inch)	Ø42 (1.7")	Ø51 (2")	Ø76.5 (3")
Spindle nose	A2-5	A2-6	A2-8
Spindle bore (inch)	Ø55 (Ø2.2")	Ø65 (Ø2.6")	Ø86 (Ø3.4")
Spindle speed step		One Speed	
Spindle speed (rpm)	6000	4500	4000
Spindle motor (kW) (Hp)	7.5 / 9 (12)	11 / 15 (20)	11 / 15 (20)
Spindle bearing diameter (inch)	Ø90 (Ø3.5")	Ø100 (Ø3.9")	Ø120 (Ø4.7")
No. of tools		12	
Cross travel (X-axis) (inch)		180 (7.1")	
Y-axis travel (inch) (opt.)		±40 (±1.6")	
Longitudinal travel (Z-axis) (inch)		600 (23.6")	
Rapid traverse (X / Y / Z) (ipm)		24 / 10 / 24 (944 / 394 / 944)	
Tailstock travel (inch)		500 (19.7")	
Tailstock quill travel (inch)		60 (Ø2.4")	
Tailstock quill diameter (Inch)		Ø60 (Ø2.4")	
Tailstock	Fixed	MT#4	
Spindle taper	Rotary	MT#3 (Opt.)	
Servo motor (X-axis) (kW)		1.6	
Servo motor (Y-axis) (kW)		1.6	
Servo motor (Z-axis) (kW)		1.6	
Power turret motor (kW) (Hp)		3.7 / 5.5 (7.5)	
Inclination:Bed		30°	
Weight (b)	3800 (8360)	4000 (8800)	4500 (9900)
Machine dimensions (inch)	3525 (138.8") x 1851 (72.9") x 1902 (74.9")		
L x W x H			

STANDARD ACCESSORIES

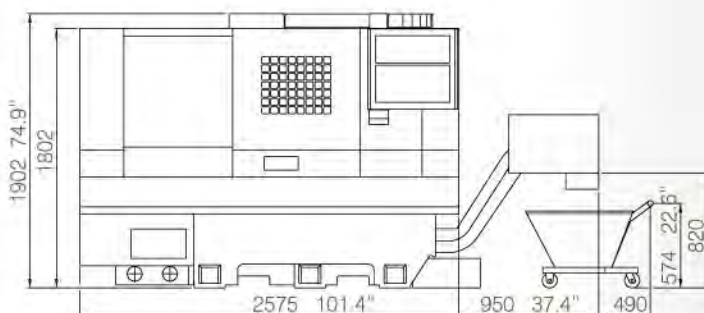
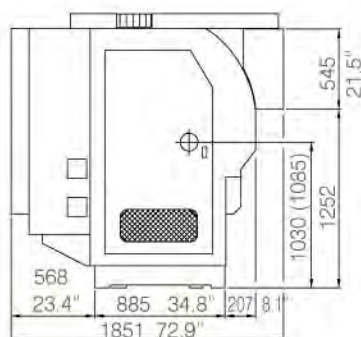
- Coolant system
- Splash guard
- Through hole 3-jaw chuck
- Hydraulic tailstock quill
- Chain type chip conveyor
- Tool box and various manuals
- Tool holders (direct mounting type)
- Auto lub. with alarm
- Halogen work lamp
- Manual Guide (0/T/D)

OPTIONAL ACCESSORIES

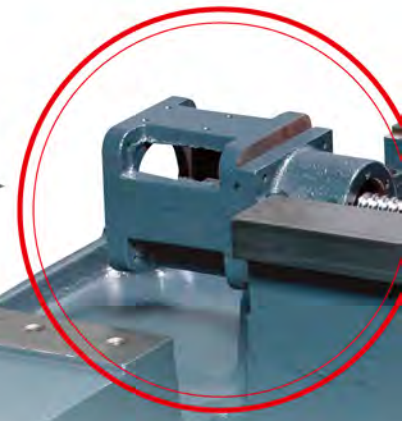
- Programmable hydraulic tailstock
- C-axis
- Y-axis
- Touch sensor (manual or Auto tool presetter)
- Parts catcher
- Tool holders (VDI type)
- Programmable hydraulic Rotary tailstock (MT#3)
- Bar feeder interface
- Bar feeder



Machine Dimensions



Motor seat and ball screw seat... **One Piece Structure**



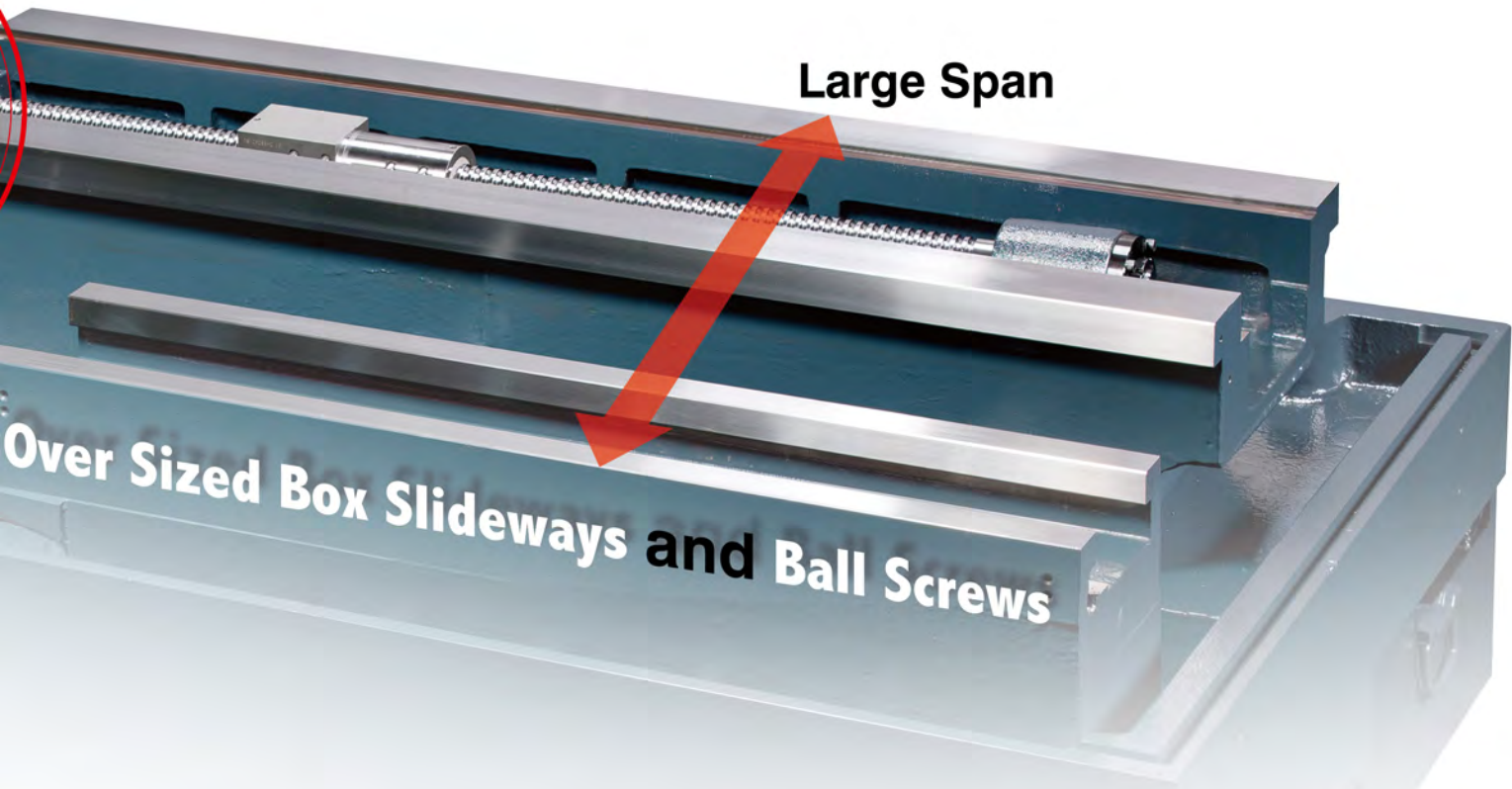
The rigid structure perfectly corresponds to the mechanical requirement of a high precision and high durability CNC lathe.

The machines' rigid hardened and ground box ways provide excellent finishes and longer tool life. The mating surfaces have hand scrapped Turcite B for smooth operation and vibration dampening.

Integrated Solution with **Ergonomics** and **Versatility**

The Johnford SL-300 with automatic bar feeding system is the integrated solution for optimum productivity. The user-oriented and state-of-the-art machine is designed especially for mass production of high precision small components; such as parts for medical equipment, opt-electronic parts, automobile parts, and other precision components.





Large Span

Over Sized Box Slideways and Ball Screws



JOHNFORD

SL-300

Quality is in the details

The 30-degree slant structure features optimum chip flow design. Machine main body is made from Meehanite cast iron. The ergonomic design offering the user a comfortable condition to operate the machine.



The tailstock with large diameter quill moves under the protection of limit switches. The built-in live center pin is available as an option.



External Position Encoder



The SL series offers standard 12-position turret. In addition, live-tooling turret with C axis is also available.

FANUC-0i T-D

Manual Guide *i* Conversational (std.)

MANUAL GUIDE /		DIST TO GO		SPINDLE		S1		O 1234	
ACTUAL POS. <ABS.>		G00		S	0	H	01234	T	0
X	0.0000	X	0.000	F	0	S	150 M 2		
Z	0.0000	Z	0.000	F	200.0000	F	600 18 40 54 80		
C	0.0000	C	0.000				696 99 69.1 13.1		
Y	0.0000	Y	0.000						

SIMULATE-ANIMATE		G1234		CHAR	
		<pre> 1 G1234 ; 2 G1500 D100. L80. K0. ; 3 T01 ; 4 G99 G96 S150 ; 5 M03 ; 6 G1120 P1. 03. H100. C0.5 D0.5 FB.3 E0.2 W0.2 K100. W1. U1. L2. H2. Z10. ; 7 M08 P0300 ; 8 G1125 P1. FB.2 L2. H2. Z10. ; 9 M08 P0300 ; 10 T0303 ; </pre>			



10.4" Color LCD

- Powerful "Fill-in-the-blank" shop floor programming
- Windows "Look and feel" graphical interface
- Minimize machine downtime with online programming capability
- Integrated and comprehensive tool management and probing cycles
- Realistic machining simulation 3-D solid model machining simulation is available
- User friendly operation soft key selection of comprehensive cycle library
- Ideal for small / medium sized job shops speciality parts



The combination of power and speed

Precision main spindle along with FANUC "P" type dual wound motor provides high torque during low speed range; and high power during high speed range.

	Ø A	Ø B	Ø C	D
SL-300-I	Ø 169 mm 6.7"	Ø 42 mm 1.7"	Ø 55 mm 2.2"	M55 x P2.0
SL-300-II	Ø 210 mm 8.3"	Ø 51 mm 2"	Ø 65 mm 2.5"	M60 x P2.0
SL-300-III	Ø 254 mm 10"	Ø 76.5 mm 3"	Ø 86 mm 2.6"	M87 x P2.0

	E	F	J	K	L
SL-300-I	M55 x P2.0	670.5 mm 26.4"	91 mm 3.6"	31.5 mm 1.2"	46.5 mm 1.8"
SL-300-II	M60 x P2.0	663 mm 26.1"	103 mm 4.1"	47 mm 1.9"	69 mm 2.7"
SL-300-III	M85 x P2.0	691.5 mm 27.22"	113 mm 4.4"	46.5 mm 1.8"	71.5 mm 2.8"

