

# SL Series

*High Precision Slant*



SL-12

# **FRYER**

MACHINE SYSTEMS<sup>®</sup>

Precision Built Solutions™

The Fryer SL Series Slant Bed Lathes feature a true 45° slant bed and box ways for greater rigidity. An ultra precision spindle cartridge, C1 class double nut ballscrews and other premium components provide accuracy unmatched by any other lathe in this class. The Touch 2200 digital CNC is incredibly easy to use and features fast set-up and conversational programming. The SL series is the perfect choice for shops requiring high rigidity, accuracy and ease of use.

- 45 degree one piece slant bed
- Ultra precision world class construction
- P4 NN roller spindle bearings
- High precision hydraulic chuck
- Box way construction
- Certified Meehanite FC-30 castings
- Double nut C1 grade ballscrews
- High torque digital spindle and axis drives
- 1,200 IPM rapid traverse



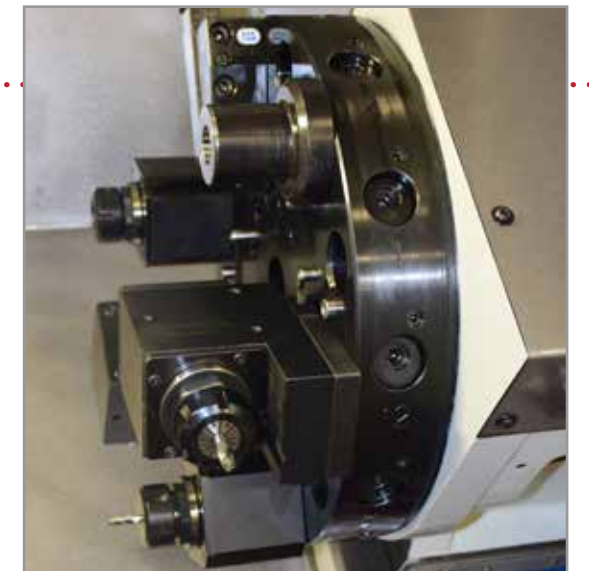
SL-10



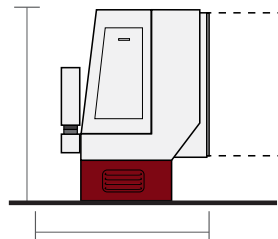
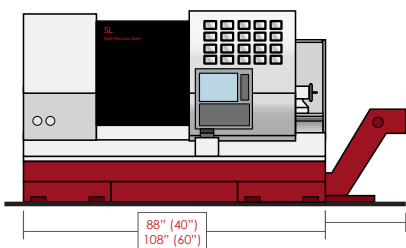
SL-8

## Live Tool Turret

The optional live tool turret features VDI-style tooling for ease of use in set-up. Fryer's live tool turrets are available in 30 and 40 VDI sizes. The 10 HP live tool spindle motor has low end power and rigid tapping. The CNC provides simple shop floor programming of complicated milling cycles like hex milling, engraving, pocketing and drilling. Fryer also offers Y axis turrets in several different sizes up to 5.1" of travel.



SL SERIES SPECIFICATIONS		SL-6	SL-8	SL-10	SL-12
MACHINE CAPACITY	Swing Over Bed	14"	20"	24"	28"
	Max Turning Diameter	12"	12"	14"	18"
	Working Length	9.0"	16" (24")	24" (40")	24" (40", 60", 80")
	Distance Between Centers	N/A	19" (27")	27"	27" (43")
	Cross Side Travel (X)	7.5"	7.5"	8.5"	11"
	Longitudinal Travel (Z)	9.5"	16" (24")	24"	24" (40")
	Number of Turret Positions	8	12	12	12
	Turret Tooling Size	0.75" BOT (VDI-30)	1" BOT (VDI-30, BMT-45)		1" BOT (VDI-40, BMT-55)
Turret Index Time (1 Tool)	1 sec.				
SPINDLE	Spindle Nose	A2-5	A2-6	A2-8	A2-8
	Spindle Bore	2.2"	2.4"	3.4" (4.17")	4.17" (6")
	Bar Capacity	1.75"	2.0"	3.0"	3.6"
	Hydraulic Chuck Size	6"	8" (10")	10" (12")	12" (15")
	Spindle Speed Max (RPM)	6,000 RPM	4,200 RPM	3,500 RPM	3,000 RPM
	Spindle HP (Peak)	20	30	40	40
TAIL-STOCK	Quill Travel	N/A	4.0"	4.0"	4.0"
	Quill Diameter	N/A	3.15"	3.15"	4.15"
	Quill Taper Hole	N/A	MT-4	MT-4	MT-5
PERFORMANCE	Positioning Accuracy	+/- 0.00010"			
	Positioning Repeatability	+/- 0.00005"			
	Rapid Traverse (X and Z)	1,200 IPM			
	Servo Type	AC Digital Brushless			
	Axis Thrust (Peak X and Z)	3,360 lbs.	6,360 lbs.	6,360 lbs.	10,732 lbs.
GENERAL INFO	Coolant Capacity	40 Gallons			
	Coolant Flow	2 Gal/Min			
	Power Requirements	40 AMP	40 AMP	80 AMP	80 AMP
	Voltage Requirements	430-500 VAC 3 Phase (205-245 VAC Optional)			
	Shipping Dimensions* (WxDxH)	70" x 50" x 60"	90" x 69" x 70"	108" x 69" x 70"	128" x 69" x 70"
	Operating Dimensions (WxDxH)	70" x 50" x 60"	90" x 69" x 70"	90" x 69" x 70"	128" x 69" x 70"
	Machine Weight	5,500 lbs.	11,500 lbs.	14,500 lbs.	16,000 lbs.



	SL-6	SL-8	SL-10	SL-12
Overall Width (A)	70"	90"	108"	128"
Overall Depth (B)	50"	69"	69"	69"
Maximum Height (C)	60"	70"	70"	70"
Door Opening Width (D)	59"	34"	31"	59"
Side Door - Width x Height (E)	30 x 30"	27 x 34"	30 x 30"	30 x 30"
Side Door Swing (F)	N/A*	29.5"	N/A*	N/A*
Electrical Cabinet Swing (G)	38"	34"	38"	38"
Approximate Machine Weight (H)	5,500 lbs.	11,500 lbs.	14,500 lbs.	16,000 lbs.