

ET XL Series

Extra Large Capacity Turning



ET-50

FRYER

MACHINE SYSTEMS[®]

Precision Built Solutions[™]

Fryer Machine's ET-XL Series Lathes provide the ultimate in performance for your large part machining needs. These wide bed (30") heavy duty engine lathes provide incredible capacity to handle the toughest jobs you have. Designed as the heaviest machines in its class, these machines feature centers distances up to 240" and spindle bores up to 16". Innovative features like live tooling, C axis, Y axis, automatic chucks and auto steady rests allow you to customize the machine to best suit your application. The standard Touch 2200 control features automated set-up and both easy conversational and industry-standard G Code programming. Also featured are thread repair, milling cycles, dual handwheels and incredible reliability.

The Best Components Make the Best Machine

- Heavy duty 50 HP high torque spindle
- Meehanite SP-100 castings have twice the strength of gray iron
- 30" wide bed with center mounted ballscrew
- Standard 6" spindle bore
- C3 grade accuracy double nut ball screws
- Three speed autoshift geared headstock
- Heavy duty hydraulic tailstock
- Digital servo motors and drives with absolute encoders
- Full manual mode with 2 handwheels
- Thread repair cycle
- One button fast setup - simplifies setup process
- 3D Solid model graphics



ET-65

Accessories to Fit Your Needs



Live Tool Turret

Fryer's high capacity VDI turrets are available in 30, 40, and 50 VDI sizes. These turrets include 10 & 20 HP live tool spindle motors with rigid tap and surface transformation feature to provide added rigidity for the most demanding applications. Full milling cycles such as pocketing and contouring are easily programmed using the conversational menus.

Y Axis

Fryer also offers Y axis turrets in several different sizes up to 5.1" of travel.

Steady & Follow Rests

Fryer offers a large range of hydraulic and mechanical roller type steady rests. Our hydraulic follow rests feature spherical rollers for continuous supported cutting.



Big Bores

Fryer XL series are available in the following bore sizes: 6", 9", 12" and 16". All spindles feature bolt-on style A series noses in different sizes to match the bore size.

Grinding Spindle

The ET Series is available with both ID and OD grinding spindles. These spindles, available in a variety of sizes and horsepower, allow for versatile turning and grinding on the same machine. The package includes dressing fixtures and dressing cycles that make this spindle adaptable to all your grinding needs.



	ET XL SPECIFICATIONS	ET-50	ET-65	ET-80	
MACHINE CAPACITY	Swing Over Bed	50"	65"	80"	
	Swing Over Cross Slide	35"	50"	65"	
	Center Height	25"	32"	40"	
	Distance Between Centers		60"		
	Optional Distance Between Centers		80", 120", 160", 200", 240", 280"		
	Width of Bed		30"		
	Width of Cross Slide		13.5"		
	Cross Slide Travel (X)		27"		
	Longitudinal Travel (Z)		67"		
	Optional Travel (Z)		87", 126", 165", 205", 244", 284"		
	Ball Screw Size		3.00" Z - 1.625" X		
	Max Part Weight (with tailstock)		15,000 lbs.		
Max Part Weight (with S/R and T/S)		20,000 lbs.			
SPINDLE	Spindle Nose		A2-11 (A2-15, A2-20, A2-28)		
	Spindle Bore		6.10" (9", 12", 16")		
	Spindle Motor HP (Peak)		50 HP		
	Spindle Speed (RPM)		3 - 750 (600, 375, 300)		
	Spindle Torque (Peak)		19,700 ft/lbs. @ 30 RPM		
	Speed Ranges		Low: 3 - 30		
			Medium: 31 - 150		
			High 151 - 750		
Speed Selection		Automatic			
TAILSTOCK	Quill Travel		12.0" Hydraulic Motor - 9 IPM		
	Quill Diameter		6.50"		
	Quill Taper Hole		MT-6		
	Tailstock Body Movement		Electric Motor with Rack & Pinion		
PERFORMANCE	Positioning Accuracy		+/- 0.0002"		
	Positioning Repeatability		+/- 0.0001"		
	Resolution		+/- 0.00010"		
	Rapid Traverse (X, Z)		400 IPM		
	Servo Type		AC Digital Brushless		
Axis Thrust (Peak)		8,894 lbs. X; 12,720 lbs. Z			
GENERAL INFORMATION	Air Pressure Requirements		90 PSI; 5 CFM		
	Coolant Capacity		70 Gallons		
	Coolant Flow		4 Gal/Min		
	Power Requirements		150 AMP		
	Voltage Requirements		400-500 VAC (200 VAC not available)		
	Shipping Dimensions* (WxDxH)	145" (60), 206" (120), 245" (160), 285" (200), 325" (240) x 70" x 75"			
	Operating Dimensions (WxDxH)	145" (60), 206" (120), 245" (160), 285" (200), 325" (240) x 70" x 75"			
	Machine Weight		26,500 lbs.	28,500 lbs.	30,500 lbs.
		80"	28,500 lbs.	30,500 lbs.	32,500 lbs.
		120"	32,000 lbs.	34,700 lbs.	36,700 lbs.
		160"	35,500 lbs.	37,800 lbs.	39,800 lbs.
200"		39,000 lbs.	41,100 lbs.	43,100 lbs.	
240"		42,500 lbs.	44,800 lbs.	46,800 lbs.	
280"	46,100 lbs.	48,400 lbs.	50,800 lbs.		