

# ET Large Capacity

Large Capacity Turning



ET-30

# FRYER

MACHINE SYSTEMS<sup>®</sup>

Precision Built Solutions<sup>™</sup>

Heavy duty construction distinguishes the ET Large Capacity Series lathes. Designed for applications where high rigidity is required, these machines can be custom configured for your most demanding applications. Easy-to-use operator interface allows simple shop floor programming for one-off parts. High performance drives and motors combine with standard G-Code interface allowing production to run smoothly and efficiently.

## Heavy Duty Construction

- Meehanite SP-100 castings have twice the strength of gray iron
- Machine ways are induction hardened to 55RC & precision ground
- Turcite B anti-friction way and gib liners
- C3 grade accuracy double nut ball screws
- Precision built four-speed geared headstock
- Manual tailstock with graduated feed dial
- Full metal guarding with dual doors
- Digital servo motors and drives with absolute encoders
- Full manual mode with 2 handwheels
- Thread repair cycle
- One button fast setup - simplifies setup process



ET-40

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



ET-30

## Options

- Dorian toolpost
- 8 station automatic turret
- Live tool turret
- C axis contouring spindle axis
- Manual and hydraulic chucks
- Chip conveyor system
- Graphite cutting package
- VDI turrets in 30, 40 and 50 VDI sizes
- Y Axis turrets up to 5.1" of travel
- Hydraulic & mechanical roller type steady rests
- 4", 6", 9" spindle bores
- ID and OD grinding spindles
- 50 HP spindle motor

ET LARGE CAPACITY SPECS.		ET-30	ET-40
MACHINE CAPACITY	Swing Over Bed	30"	40"
	Swing Over Cross Slide	18"	28"
	Center Height	15"	20"
	Swing In Gap	N/A	N/A
	Distance Between Centers	60"	60"
	Optional Distance Between Centers	80", 120", 160"	80", 120", 160"
	Width of Bed	19"	19"
	Width of Cross Slide	11.0"	11.0"
	Cross Slide Travel (X)	16"	18"
	Longitudinal Travel (Z)	57"	57"
	Optional Travel (Z)	77", 117", 157"	77", 117", 157"
	Ball Screw Size	2.00" Z - 1.25" X	2.00" Z - 1.25" X
	Max Part Weight (Unsupported)	2,000 lbs.	2,000 lbs.
	Max Part Weight (Supported with S/R)	10,000 lbs.	10,000 lbs.
SPINDLE	Spindle Nose	Camlock D1-11 (A2-11, A2-15)	
	Spindle Bore	4.10" (6.1", 9.0")	
	Spindle Nose Taper	MT-8	
	Spindle Motor HP (Peak)	30 HP (50 HP)	
	Spindle Speed (RPM)	10 - 1,500 (1,000, 750)	
	Speed Ranges	Low 1: 10 - 100	
		Low 2: 100 - 200	
		Medium: 200 - 675	
Speed Selection	High 675 - 1,500		
TAILSTOCK	Speed Selection	Manual (Automatic)	
	Quill Travel	8.0"	
	Quill Diameter	4.1"	
PERFORMANCE	Quill Taper Hole	MT-6	
	Positioning Accuracy	+/- 0.0002"	
	Positioning Repeatability	+/- 0.0001"	
	Rapid Traverse (X, Z)	400 IPM	
	Servo Type	AC Digital Brushless	
GENERAL INFORMATION	Axis Thrust (Peak)	4,504 lbs. X; 8,700 lbs. Z	
	Air Pressure Requirements	90 PSI; 5 CFM	
	Coolant Capacity	28 Gallons	
	Coolant Flow	2 Gal/Min	
	Power Requirements	80 AMP	
	Voltage Requirements	205-245 VAC 3 PHASE (400-480 VAC Optional)	
	Shipping Dimensions* (WxDxH)	155" (60), 175" (80), 215" (120) x 82" x 78"	
	Operating Dimensions (WxDxH)	155" (60), 175" (80), 215" (120) x 82" x 78"	
Machine Weight	80"	15,000 lbs.	80" 16,500 lbs.
	120"	17,500 lbs.	120" 19,000 lbs.
	160"	20,500 lbs.	160" 22,000 lbs.
	200"	23,500 lbs.	200" 25,000 lbs.