

FRYER

MACHINE SYSTEMS

The Toolroom Company



ET-TR Series

High Precision Toolroom Turning

Designed by toolmakers for toolmakers, the Fryer Easy Turn Series provides rugged construction and high accuracy in a compact toolroom lathe. The Easy Turn is easier to use than a conventional lathe yet offers the productivity of a CNC. Time consuming manual set-ups for threading, chamfers, and contours are eliminated by the Easy Turn's handle driven "Do One" cycles and electronic stops. Multi-mode operations allows, manual use, semi-auto use and full CNC operation. This flexibility is perfect for repair shops, tool and die, prototype and job shops alike.

Simplified Small Batch Turning

- Manual or CNC mode
- Easy to set up and operate
- 3D solid model graphics
- Best built toolroom lathe
- World class construction
- Perfect for prototype, repair, job shop & toolroom
- One piece base casting provides better rigidity
- Incredible accuracy
- Built to last decades
- A Two year warranty



ET-18



ET-21

Multi-Mode Operation

Manual Operation

- Manual handles for X and Z axis
- Electronic stops make manual positioning easy
- Create chamfers & taper cuts by turning one handle

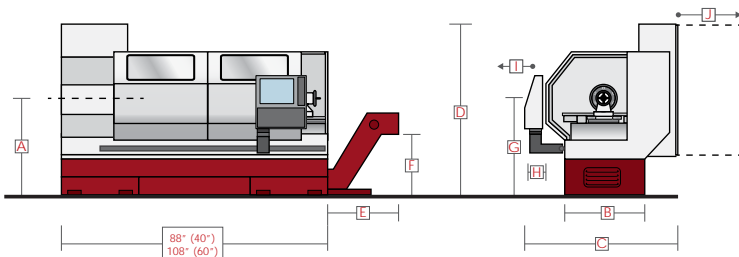
Full CNC Operation

- Simple menu system – no codes of any kind
- Reads standard G & M codes from CAD/CAM systems
- Geometry Creator calculates missing dimensions
- 3D part verification – solid model or wire frame
- Safe & fast Handwheel Run mode

Semi-CNC Operation

- Programmable power-feed function
- Simple “Go To” function for axis positioning
- “Do One” function allows you to easily cut threads, thread repair, chamfers, boring, drilling, & more

ET-TR SERIES SPECIFICATIONS		ET-16	ET-18	ET-21	ET-25
MACHINE CAPACITY	Swing Over Bed	16"	18"	21"	25"
	Swing Over Cross Slide	8.125"	9.125"	12"	16"
	Center Height	8.125"	9.125"	10.5"	12.6"
	Swing in Gap	N/A		N/A	
	Distance Between Centers	40" (60")		60" (80", 120")	
	Width of Bed	14"		14"	
	Width of Cross Slide	8.5"		8.5"	
	Cross Slide Travel (X)	10"		12"	12.5"
	Longitudinal Travel (Z)	37"		57"	
	Optional Travel (Z)	57"		80"	
	Ball Screw Size	1.625" Z - 1.00" X		1.625" Z - 1.00" X	
	Max Part Weight - Unsupported	500 lbs		800 lbs	
Max Part Weight - Supported w/ S/R	1,500 lbs	2,500 lbs	3,000 lbs		
SPINDLE	Spindle Nose	Camlock D1-6	Camlock D1-6 (D1-8)	Camlock D1-8 (A2-11)	
	Spindle Bore	2.05"	2.05" (3.4")	3.40" (4.01")	
	Spindle Nose Taper	MT - 6		Straight	
	Spindle Motor HP (Peak)	10 HP		15 HP	
	Spindle Speed (RPM)	100 - 3,000	50 - 2,500	50 - 2,000	50 - 2,000
	Speed Ranges	Low 50 - 350		Low 50 - 300	
		High 100 - 3,000	High 350 - 2,500	High 300 - 2,000	
	Speed Selection	Single Gear Range	Auto Shift	Auto Shift	
TAILSTOCK	Quill Travel	5.0"	5.0"	5.5"	5.5"
	Quill Diameter	2.5"			
	Quill Taper Hole	MT-5			
PERFORMANCE	Positioning Accuracy	+/- 0.0002"			
	Positioning Repeatability	+/- 0.0001"			
	Rapid Traverse (X,Z)	400 IPM			
	Servo Type	AC Digital Brushless			
	Axis Thrust (Peak)	3,058 lbs. X 3,504 lbs. Z			
GENERAL INFO	Air Requirements	90 PSI - 5 CFM			
	Coolant Capacity	10 Gallons			
	Coolant Flow	2 GPM			
	Power Requirements	40 AMP			
	Voltage Requirements	208-240 VAC 3 PHASE (380-500 VAC Optional)			
	Shipping Dimensions* (WxDxH)	86"x72"x68"	86"x72"x68"	106"x76"x68"	106"x76"x68"
	Operating Dimensions (WxDxH)	86"x74"x68"	86"x74"x68"	106"x78"x68"	106"x78"x68"
	Machine Weight	5,000 lbs.	6,500 lbs.	7,500 lbs.	8,500 lbs.
	60" 6,000 lbs.	60" 7,000 lbs.	40" 7,000 lbs.	40" 8,000 lbs.	



	ET-16	ET-18	ET-21	ET-25
Floor to Spindle Center (A)	44"	44"	45.5"	47.5"
Floor Depth (B)	27"	27"	27"	27"
Overall Depth (C)	74"	74"	78"	78"
Maximum Height (D)	68"	68"	68"	68"
Conveyor Protrusion (E)	30"	30"	30"	30"
Conveyor Height (F)	28"	28"	28"	28"
Floor to Console Height (G)	42.5"	42.5"	42.5"	42.5"
Console Depth (H)	9.5"	9.5"	9.5"	9.5"
Console Swing Radius (I)	16"	16"	16"	16"
Electrical Cabinet Swing Radius (J)	27"	27"	27"	27"

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 Specifications subject to change without prior notice.