

EVL series

CYCLONE CNC VERTICAL LATHE

A Product Combines Cutting Technology and Traditional Craftsmanship



MACHINE FEATURES

The EVL series Vertical Turning Lathe offers power, strength and speed to accomplish today's toughest machining applications. The maximum turning diameter is up to 2,500mm and loading weight is up to 21,000KG. The optional live tooling with full C axis function offers you more flexible machining capabilities to make more complex work piece in one machine.

Main Specifications

☑ Common Specifications () is for option

Description	Unit	EVL-12(M)	EVL-16(M)	EVL-20(M)	Unit	EVL-12(M)	EVL-16(M)	EVL-20(M)
Table Diameter	mm	1250	1600	2000	inch	49.21	63	78.74
Max. Swing	mm	1650	2000	2500	inch	64.96	78.74	98.43
Max. Turning Diameter	mm	1650	1900	2400	inch	64.96	74.8	94.5
Max. Turning Height	mm	1250	1600		inch	49.21	63	
Max. Mass Of Workpiece	Kgs	6000 (9000)	14000	21000	lbs	13200 (19800)	30800	46200
Max. Torque Of Table	N-m	10655	18790	23270	lbs-ft	7860	13860	17165
Max. Cutting Force	N	25000			lbs	5620		
X Axis Stroke	mm	L200~R975	L200~R1125	L250~R1380	inch	L7.87~R38.38	L7.87~R44.29	L9.84~54.33
Z Axis Stroke	mm	900	1000 (1200)		inch	35.43	39.37 (47.24)	
Ram Size	mm	230 × 240	240× 270		inch	9.05 × 9.45	9.45 × 10.63	
Min.I.D. For Ram Pass	mm	275	300		inch	10.82	11.81	
Max. Rapid Feed Rate X Axis	m/min	24			inch/min	0.95		
Max. Rapid Feed Rate Z Axis	m/min	24			inch/min	0.95		
Table Speed (2 Steps)	rpm	2~110, 2~300	1~60, 2~250	1~50, 2~200	rpm	2~110, 2~300	1~60, 2~250	1~50, 2~200
Crossrail Stroke	mm	800			inch	31.5		
Crossrail Step	mm × step	200 × 5			inch × step	7.87 × 5		
Tool Shank Size	mm	32 × 32			inch	1.25 × 1.25		
Table Main Motor	Kw	AC 37/30 (45/37)	AC 45/37		Kw	AC 37/30 (45/37)	45/37	
X, Z Axis Servo Motor		6						
Voltage / Power requirement		220/380/415/440 3 Phase VAC, 50/60Hz, 60 KVA				220/380/415/440 3 Phase VAC, 50/60Hz, 60 KVA		
Dimension (L×W×H)	mm	5400 × 2900 × 5375	5610 × 3720 × 5930	7080 × 4580 × 6090	inch	212.6 × 114.2 × 211.6	220.9 × 146.5 × 233.5	278.7 × 180.3 × 239.8
Mass of Machine	kg	20000	28000	42000	lbs	44000	61500	92400

☑ For EVL Series Specifications

ATC Magazine Capacity	tool	12		tool	12	
Max. Tool Length	mm	For Turning 450		inch	For Turning 17.72	
Max. Tool Weight	Kgs	50		lbs	110	

☑ For EVL (M) Series Specifications

ATC Magazine Capacity	Tool	18 (Turning : 9, Rotating : 9)		Tool	18 (Turning : 9, Rotating : 9)	
Max. Tool Weight	Kgs	50		lbs	110	
Max. Tool Length	mm	For Turning & Rotating 450		inch	For Turning & Rotating 17.72	
Max. Drill Diameter	mm	50 (Carbon Steel Workpiece)		inch	1.96 (Carbon Steel Workpiece)	
Max. Tap Diameter	mm	M30 (Carbon Steel Workpiece)		inch	1.18 (Carbon Steel Workpiece)	
Max. Torque for Drilling	N-m	196		lbs-ft	145	
Live Spindle Speed	rpm	2~2400	50~2250	rpm	2~2400	50~2250
Table Index Speed (C)	rpm	3		rpm	3	
Max. Rapid Feed Rate C Axis	rpm/min	20		rpm/min	20	
Live Spindle Motor	kW	11/7.5	15/11	HP	15/10	20/15
Cf Axis Servo Motor	kW	3		HP	4	
Spindle taper		BT-50			BT-50	

☑ Standard Accessories

Fanuc System 0i-TD or 0i-TF CNC Controller	12 Tools ATC for RAL, 18 Tools ATC for RAL (M)
Automatic Forced Lubrication System	4-Jaw Manual Chuck / Hydraulic Unit
AC Main Drive Motor for table	☑ Optional Accessories
Machine Cover (Semi-Opened)	Air Conditioner with heat exchange
Chip Conveyor System / Coolant Tank	Additional Tool Holders / CF - Axis Mechanism
Oil/Water Separator / High Pressure Pump	Auto Door / Linears Scale for X & Z Axis
Heat Exchanger for Electrical Cabinet	Tool Measuring Device & Tool Probe Device
Work Light & Signal Tower Light	Coolant Through Spindle / Oil Mist collector
Table Lubricant Oil Cooling Unit	Transformer / Automatic Voltage Regulator
Anchor Bolt & Tools and Tool Box	Hydraulic 4 Jaw Chuck / Table with 4 Asynchronous Jaws
One (1) Year Machine Warranty and Two (2) Year Control Warranty	CE Standard / Protective relays in electrical power systems.
Operation & Maintenance Manual & Spare Part List	Auto Tool Changer with CAT Holders



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Agent

#Specification and design characteristics are subject to change without prior notice.