

TOOLROOM LATHES

NEW/DESIGN
Digital-Screw-Turning

**POPULAR LATHE MODELS
IN US AND EUROPE**

ESTABLISHED 1980

- Set spindle RPM and X,Y-axis feed rates with Independent Inverter motors. The best settings for surface finish and production rate can be easily found.
- Premium quality alloy tool steel bedway provides hardness and resistance to wear, helps maintain high precision over time, and ensures machine's longevity.
- A key innovation is that we have eliminated complicated gear box in favor of a servo driven system. Machine can be set to cut any threads and worm shafts from an easy-to-use touch screen panel.
- Instantly reverse direction without disengaging half nut, which greatly reduces cycle time. Threading efficiency is improved 10X.
- High precision spindle runout is within 0.0015mm. Quiet, low-vibration operation makes the machine ideal for different part diameters ranging from steel tubes to pin holes.



CTL-618e
High Speed/High Accuracy Toolroom Lathe

with Digital Threading Control replaces traditional threading gearbox

www.cyclematic.com



NEW/DESIGN



CHR-68e
Chucking Machine Eight-Station Turret
Toolroom Chucking Machine with Digital Threading 8-station indexing turret for quicky changing tools

NEW/DESIGN



CT-III8CNC
CNC Toolroom Lathe
With Two Functions
(Gang-Turning Center-Turning)



CTS-27EVS
Second operation Lathe
(Six-Station Turret)
Tool Holder Boring on machine



CP-27EVS
HIGH PERFORMANCE
FINISHING LATHE
perfect companion for CNC machines.
Compact machine. Proven design.
Superior surface finish.

CYCLEMATIC

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SPECIFICATIONS

MODEL	CT-III8CNC		CT-606CNC	
Maximum Swing	280 mm		200 mm	
Maximum Turning Diameter	Φ 150 mm (Φ 6")		Φ 150 mm (Φ 6")	
Distance Between Centers	457 mm		No tailstock	
Bar Stock Diameter (5C collet)	Φ 27 mm (Φ 1-1/16")		Φ 27 mm (Φ 1-1/16")	
Hole Through Spindle	Φ 31.75 mm (Φ 1-1/4")		Φ 31.75 mm (Φ 1-1/4")	
CNC Controller	FANUC (STANDARD)		FANUC (STANDARD)	
Spindle Speeds (Variable)	50~4000 R.P.M. (3HP)	50~6000 RPM (5HP)	50~4000 R.P.M. (3HP)	50~6000 R.P.M. (5HP)
Spindle Nose I.D./O.D.	5C (10°) / 4°XTaper		5C (10°) / 4°XTapern	5C (10°) / Φ 55.5 mm-10TPI
Chuck Diameter	Φ 150 mm (Φ 6")		Φ 150 mm (Φ 6")	
Maximum X-axis Travel	155 mm		200 mm	
Maximum Z-axis Travel	340 mm		150 mm	
Rapid Traverse	20 M/min		20 M/min	
Inverter Spindle Motor	3 HP	5HP	3 HP	5HP
X,Z-Axis Servo Motor	X: β 2 Z: β 2		X: β 2 Z: β 2	
Coolant Pump	1/4 HP		1/4 HP	
Tailstock Spindle Taper	MT No.2		No tailstock	
Tailstock Spindle Travel	95 mm		No tailstock	
Machine Dimensions (LxWxH)	2050x1000x1650 mm (81"x40"x65")		2050x1000x1650 mm (81"x40"x65")	
Machine Weight	1200kgs (2640 lbs.)		1100 kgs (2400 lbs.)	

MODEL	CTL-618 ^e CTL-618EVS	CTS-27EVS CTL-27EVS	CHR-68 ^e CHR-68EVS	CP-27EVS	
Spindle Capacity	With Chuck	150 mm (6")	150 mm (6")	150 mm (6")	127 mm (5")
	With Expanding Collets	76 mm (3")	76 mm (3")	76 mm (3")	76 mm (3")
	With Round 5C Collets	27 mm (1-1/16")	27 mm (1-1/16")	27 mm (1-1/16")	27 mm (1-1/16")
	With Hexagon 5C Collets	22 mm (7/8")	22 mm (7/8")	22 mm (7/8")	22 mm (7/8")
	With Square 5C Collets	19 mm (3/4")	19 mm (3/4")	19 mm (3/4")	19 mm (3/4")
	With Step Chucks	27~152 mm (1-1/16"-6")	27~152 mm (1-1/16"-6")	27~152mm (1-1/16"-6")	27~152 mm (1-1/16"-6")
Spindle Nose Diameter	Φ 55.5 mm		Φ 55.5 mm	Φ 55.5 mm	
Spindle Nose I.D./O.D.	5C (10°) / 4° Taper	5C (10°) / 4°Taper	5C (10°) / 4° Taper 5C (10°) / Φ 55.5 mm-10TPI	5C (10°) / 4° Taper	
Spindle Speeds (Variable)	50-4000 R.P.M.		50-4000 R.P.M.	50-4000 R.P.M.	
Inverter Spindle Motor	3 HP		3 HP	1 HP	
Hole Through Spindle	31.75 mm (1-1/4")		31.75 mm (1-1/4")	31.75 mm (1-1/4")	
Bar Stock Diameter (5C collet)	Φ 27 mm (Φ 1-1/16")		Φ 27 mm (Φ 1-1/16")	Φ 27 mm (Φ 1-1/16")	
Distance Between Centers	457 mm	380 mm (CTL-27EVS)	No tailstock	No tailstock	
Swing Over Bed	280 mm	229 mm	330 mm	229 mm	
Swing Over Carriage	230 mm	-	-	-	
Swing Over Cross Slide	152 mm	-	-	-	
Carriage Power Feed Range (Variable)	5~102 mm/min	-	6~250 mm/min	-	
Cross Slide Power Feed Range (Variable)	8~178 mm/min	-	9~160 mm /min	-	
Cross Slide Travel	152 mm	95 mm	114mm	-	
Quick-action Compound Slide Travel	2.5 mm	-	-	-	
Compound Slide Travel	76 mm	X:114 mm Z:140 mm	-	Optional X:114 mm Z:140 mm	
Coolant Pump	1/8 HP, 220V, 3PH	1/8 HP, 220V, 3PH	1/8 HP, 220V, 3PH	Optional	
Feed Inverter Motor	1/2HP	-	1/2HP	-	
Tailstock Spindle Travel	95 mm	95mm	No tailstock	No tailstock	
Range of Threads	0.2-6.35 mm (120~4TPI)	-	0.2-6.35 mm (120~4TPI)	-	
Net Weight (Approx)	1000 kgs (2200 lbs.)	450kgs (990 lbs.)	1000 kgs (2200 lbs.)	300 kgs (660 lbs.)	
Gross Weight (Approx)	1050 kgs (2310 lbs.)	620 kgs (1364 lbs.)	1020 kgs (2320 lbs.)	370 kgs (820 lbs.)	
Machine Dimensions (LxWxH)	1850x750x1700 mm (73"x30"x67")	1750x700x1600 mm (69"x28"x63")	1850x750x1700 mm (73"x30"x67")	900x900x1400 mm (36"x36"x55")	

★ Duo to the continuing innovations, product dimensions subject to change without further notice. ★