

CNC Lathes for General Purpose Turning. >>

The small footprint, large work cube, chip management system, and affordable price tag of our slant-bed CNC lathes make small-batch manufacturing profitable. The true 30° slant-bed cast design promotes larger turning capacity and better chip removal. The extra wide linear guideways are strategically spaced to provide excellent support to the cross slide for increased accuracy and improved surface finish.

TM6i



TM8i



TM10i



TM12i



SERIES OVERVIEW

- » One-piece, solid, cast-iron, machine base.
- » True 30° slant-bed casting design promotes:
 - » Increased rigidity
 - » Larger turning capacity
 - » Efficient chip removal
- » Strategic spacing between linear guideways for increased rigidity promotes:
 - » Increased accuracy
 - » Improved surface finish
- » Bi-directional servo turret decreases tool index time.
- » Robust control specifications (standard, not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically-designed control console with 19" LCD touch-screen.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Customer Favorite Lathe Control Features: Concurrent Programming, Recovery Restart, Estimated Run-Time, Advanced Verification Graphics.



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SPECIFICATIONS		TM6i	TM8i	TM10i	TM12i
CAPACITY	DISTANCE BETWEEN CENTERS	15.85 in / 402.5 mm	23.49 in / 597 mm	29.29 in / 744 mm	39.6 in / 1,006 mm
	SWING OVER BED DIAMETER	15.94 in / 405 mm	20.67 in / 525 mm	22.9 in / 582 mm	26.77 in / 680 mm
	SWING OVER CROSS SLIDE DIAMETER	9.45 in / 240 mm	11.8 in / 300 mm	15.8 in / 402 mm	20.1 in / 510 mm
	MAXIMUM TURNING DIAMETER	12.44 in / 316 mm	14 in / 356 mm	17.7 in / 450 mm	20.1 in / 510 mm
	MAXIMUM TURNING LENGTH	13.39 in / 340 mm	20.67 in / 525 mm	29.84 in / 758 mm	39.4 in / 1000 mm
	MAXIMUM BAR CAPACITY	1.75 in / 45 mm	2.5 in / 64 mm	3 in / 76 mm	4 in / 102 mm
TRAVEL	X-AXIS	7 in / 178 mm	8 in / 203 mm	9.8 in / 250 mm	12 in / 305 mm
	Z-AXIS	14 in / 356 mm	21.65 in / 550 mm	31.1 in / 790 mm	40 in / 1,016 mm
MAIN SPINDLE	MAXIMUM SPEED HIGH GEAR	6,000 rpm	4,000 rpm	3,000 rpm	2,800 rpm
	SPINDLE POWER (30 MIN/CONTINUOUS)	15.42 hp [11.5 kW] / 10.06 hp [7.5 kW] @ 1090 rpm	25.48 hp [19 kW] / 20.12 hp [15 kW] @ 1000 rpm	24.81 hp [18.5 kW] / 20.12 HP [15 kW] @ 600 rpm	53.64 hp [40 kW] / 40.23 hp [30 kW] @ 868 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	74.3 ft. lbs [100.7 Nm] / 48.45 ft. lbs [65.7 Nm] @ 1090 rpm	133.83 ft. lbs [100.7 Nm] / 105.65 ft. lbs [43.2 Nm] @ 1000 rpm	217.61 ft. lbs [295.9 Nm] / 176.44 ft. lbs [239.2 Nm] @ 600 rpm	324.49 ft. lbs [439.9 Nm] / 243.37 ft. lbs [329.9 Nm] @ 868 rpm
	SPINDLE NOSE	A2-5	A2-6	A2-8	A2-11
	CHUCK DIAMETER	6.0 in / 170 mm	8.2 in / 210 mm	10.0 in / 260 mm	12.0 in / 315 mm
TURRET	TOOL TYPE	Slotted Disc	Slotted Disc	Slotted Disc	Slotted Disc
	TOOL CAPACITY	12 stations	12 stations	12 stations	12 stations
	TOOL SHANK	.75 x .75 in / 20 x 20 mm	1 x 1 in / 25 x 25 mm	1 x 1 in / 25 x 25 mm	1 x 1 in / 25 x 25 mm
	MAXIMUM BORING BAR DIAMETER	1.25 in / 32 mm	1.5 in / 40 mm	1.5 in / 40 mm	1.5 in / 40 mm
FEEDRATE	RAPID TRAVERSE X-AXIS	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min
	RAPID TRAVERSE Z-AXIS	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min	1,181 in / 30 m per min
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	148.08 x 114.96 x 84.41 in / 3,761 x 2,920 x 2,144 mm	170.7 x 122.6 x 86.32 in / 4,336 x 3,114 x 2,193 mm	192.15 x 112.36 x 87.89 in / 4,881 x 2,854 x 2,233 mm	238.98 x 141.4 x 90.73 in / 6,070 x 3,592 x 2,305 mm
	MACHINE WEIGHT	7,121 lb / 3,180 kg	8,885 lb / 4,030 kg	11,054 lb / 5,014 kg	16,535 lb / 6,686 kg