

General Purpose Lathes with Live Tooling & Programmable C-Axis. >>

The TMM turning centers are true slant-bed lathes equipped with live tooling and a programmable C-axis. The TMM live tooling lathes are the perfect way to make small to medium lot sizes that require turning and secondary milling/drilling operations profitable. Save time with one setup and you won't lose accuracy due to re-fixturing.

TM8Mi



TM8MYi



TM10Mi



TM12Mi



SERIES OVERVIEW

- » All turret stations are live tooling stations.
- » Programmable C-Axis.
- » Standard tailstock mounted on heavy-duty box ways with live center.
- » 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		TM8Mi	TM8MYi	TM10Mi	TM12Mi
CAPACITY	DISTANCE BETWEEN CENTERS	23.5 in / 597 mm	23.5 in / 597 mm	29.3 in / 744 mm	39.6 in / 1,006 mm
	SWING OVER BED DIAMETER	20.7 in / 525 mm	19.29 in / 490 mm	22.9 in / 582 mm	26.8 in / 680 mm
	SWING OVER CROSS SLIDE DIAMETER	11.8 in / 300 mm	19.29 in / 490 mm	15.8 in / 402 mm	20.1 in / 510 mm
	MAXIMUM TURNING DIAMETER	10.1 in / 256 mm	12.6 in / 320 mm	11.6 in / 295 mm	14.2 in / 360 mm
	MAXIMUM TURNING LENGTH	19.57 in / 497 mm	14.77 in / 375 mm	29.1 in / 738 mm	36.9 in / 937 mm
	MAXIMUM BAR CAPACITY	2.5 in / 51 mm	2.5 in / 51 mm	3 in / 76 mm	4 in / 102 mm
TRAVEL	X-AXIS	7.8 in / 198 mm	8.07 in / 205 mm	9.8 in / 250 mm	12.0 in / 315 mm
	Y-AXIS	—	+/- 2.17 in / 55 mm	—	—
	Z-AXIS	21.7 in / 551 mm	21.65 in / 550 mm	31.1 in / 790 mm	40 in / 1,016 mm
MAIN SPINDLE	MAXIMUM SPEED HIGH GEAR	4,000 rpm	4,000 rpm	3,000 rpm	2,800 rpm
	SPINDLE POWER (30 MIN/CONTINUOUS)	17 hp (12.7 kW) / 15.3 hp (11.4 kW) @ 1112 rpm	17 hp (12.7 kW) / 15.5 hp (11.4 kW) @ 1112 rpm	40.63 hp (30.3 kW) / 32.72 hp (24.4 kW) @ 857 rpm	40.63 hp (30.3 kW) / 32.72 hp (24.4 kW) @ 600 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	108.56 ft. lbs (147.2 Nm) / 72.21 ft. lbs (97.9 Nm) @ 824 rpm	108.4 ft. lbs (147.0 Nm) / 72.4 ft. lbs (98.1 Nm) @ 824	259.36 ft. lbs (351.3 Nm) / 200.51 ft. lbs (271.17 Nm) @ 823 rpm	379.52 ft. lbs (502.3 Nm) / 286.44 ft. lbs (388.3 Nm) @ 576 rpm
	SPINDLE NOSE	A2-6	A2-6	A2-8	A2-11
	CHUCK DIAMETER	8.0 in / 210 mm	8.0 in / 210 mm	10.0 in / 260 mm	12 in / 305 mm
TURRET	TOOL TYPE	VDI 30	BMT 55	VDI 40	VDI 50
	TOOL CAPACITY	12 stations	12 stations	12 stations	12 stations
	TOOL SHANK	.75 x .75 in / 19 x 19 mm	1 x 1 in / 25 x 25 mm	1 x 1 in / 25 x 25 mm	1.26 x 1.26 in / 32 x 32 mm
	MAXIMUM BORING BAR DIAMETER	1.25 in / 32 mm	1.25 in / 32 mm	1.5 in / 40 mm	1.97 in / 50 mm
LIVE SPINDLE	MAXIMUM SPEED	5,000 rpm	5,000 rpm	5,000 rpm	4,000 rpm
	MAXIMUM TORQUE	21.6 ft. lbs / 24.3 Nm	27.9 ft. lbs / 37.8 Nm	34.75 ft. lbs / 47.1 Nm	49.96 ft. lbs / 63.7 Nm
	SPINDLE POWER	6.17 hp / 4.6 kW @ 1,500 rpm	16 hp / 11.9 kW	9.92 hp / 7.4 kW @ 1,500 rpm	13.41 hp / 10 kW @ 1,500 rpm
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 Y-AXIS	—	472 in / 12 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)	175.84 x 126.06 x 86.32 in / 4,466 x 3,202 x 2,193 mm	182.53 x 127.74 x 103.07 in / 4,636 x 3,245 x 2,618 mm	191.06 x 132.09 x 87.89 in / 4,853 x 3,355 x 2,233 mm	239 x 121.67 x 90.7 in 6,072 x 3,090 x 2,305 mm
	MACHINE WEIGHT	9,700 lb / 4,400 kg	9,899 lb / 4,490 kg	11,023 lb / 5,000 kg	16,535 lb / 7,496 kg