

Performance Lathes with Y-Axis or Y-Axis and Sub-Spindle. >>

The TMXMY/S mill turn CNC lathes are true slant-bed lathes, with all-digital drives and motors and absolute encoders on all-linear axes. The addition of the Y-axis allows you to machine a pocket with straight walls and flat bottoms or perform off-center machining operations with just a click of a box.

TMX8MYi



TMX10MYi



TMX8MYSi



TMX10MYSi



SERIES OVERVIEW

- » Roller guideways on all axes:
 - » Less friction at higher speeds
 - » Easier and less expensive to replace than boxways
- » More Y-axis travel than competitive models (4.4 inches).
- » Large ballscrews minimize friction.
- » Strategic spacing between roller guideways for increased rigidity promotes:
 - » Increased accuracy
 - » Improved surface finish
- » Bi-directional servo turret decreases tool index time.
- » Fully programmable tailstock mounted on heavy-duty linear rails with live center – servo-driven.
- » Spindle chiller standard, not an option.
- » Chip conveyor standard, not an option.
- » LCD remote jog standard, not an option.
- » Oil skimmer standard, not an option.
- » True 30-degree slant-bed casting design promotes:
 - » Increased rigidity
 - » Larger turning capacity
 - » Efficient chip removal
- » 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 | | TMX8MYi | TMX10MYi | TMX8MYSi | TMX10MYSi |
|----------------|---|--|--|--|---|
| CAPACITY | DISTANCE BETWEEN CENTERS | 29.7 in / 754 mm | 33.6 in / 854 mm | 29.7 in / 754 mm | 32.5 in / 825.5 mm |
| | SWING OVER BED DIAMETER | 20 in / 508 mm | 22 in / 560 mm | 20 in / 508 mm | 22 in / 560 mm |
| | SWING OVER CROSS SLIDE DIAMETER | 20 in / 508 mm | 22 in / 560 mm | 20 in / 508 mm | 22 in / 560 mm |
| | MAXIMUM TURNING DIAMETER | 10.9 in / 336 mm | 12.4 in / 315 mm | 10.9 in / 277 mm | 12.4 in / 315 mm |
| | MAXIMUM TURNING LENGTH | 20.7 in / 527 mm | 24.7 in / 627 mm | 20.7 in / 527 mm | 24.7 in / 627 mm |
| | MAXIMUM BAR CAPACITY | 2.5 in / 64 mm | 3 in / 76 mm | 2.5 in / 64 mm | 3 in / 76 mm |
| TRAVEL | X-AXIS | 11.24 in / 286 mm | 12.0 in / 305 mm | 11.24 in / 285 mm | 12.0 in / 305 mm |
| | Z-AXIS | 22 in / 560 mm | 26.38 in / 670 mm | 22 in / 560 mm | 26.38 in / 670 mm |
| | Y-AXIS | +/- 2.2 in / 55 mm | +/- 2.2 in / 55 mm | +/- 2.2 in / 55 mm | +/- 2.16 in / 55 mm |
| | W-AXIS | 25.2 in / 640 mm | 29.1 in / 740 mm | 25.2 in / 640 mm | 29.1 in / 740 mm |
| MAIN SPINDLE | MAXIMUM SPEED | 4,500 rpm | 3,500 rpm | 4,500 rpm | 3,500 rpm |
| | SPINDLE POWER (30 MIN/CONTINUOUS) | 33.5 hp (25 kW) / 23.1 hp (16.6 kW) | 37.6 hp (28 kW) / 32.2 hp (24 kW) | 33.5 hp (25 kW) / 23.1 hp (17.2 kW) | 37.6 hp (28 kW) / 32.2 hp (24 kW) |
| | SPINDLE TORQUE (30 MIN/CONTINUOUS) | 176.1 ft. lbs (238.7 Nm) / 121.2 ft. lbs (164.2 Nm) | 197 ft. lbs (267.4 Nm) / 169.1 ft. lbs (229.2 Nm) | 176.1 ft. lbs (238.7 Nm) / 121.2 ft. lbs (164.2 Nm) | 197 ft. lbs (267.4 Nm) / 169.1 ft. lbs (229.2 Nm) |
| | SPINDLE POWER | 33.5 hp / 25 kW @ 1,000 rpm | 37.6 hp / 28 kW @ 1,000 rpm | 33.5 hp / 25 kW @ 1,000 rpm | 37.6 hp / 28 kW @ 1,000 rpm |
| | SPINDLE NOSE | A2-6 | A2-8 | A2-6 | A2-8 |
| | CHUCK DIAMETER | 8.27 in / 210 mm | 10.0 in / 254 mm | 8.27 in / 210 mm | 10 in / 254 mm |
| TURRET | TOOL TYPE | BMT65 / DIN 1809 | BMT65 / DIN 1809 | BMT65 / DIN 1809 | BMT65 / DIN 1809 |
| | TOOL CAPACITY | 12 stations | 12 stations | 12 stations | 12 stations |
| | TOOL SHANK | 1 x 1 in / 25 x 25 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 | 1.5 in / 40 mm | 1.5 in / 40 mm | 1.5 in / 40 mm | 1.5 in / 40 mm |
| SUB SPINDLE | MAXIMUM SPEED | – | – | 6,000 rpm | 6,000 rpm |
| | MAXIMUM TORQUE | – | – | 75.4 ft. lbs / 102.2 Nm | 75.4 ft. lbs / 102.2 Nm |
| | SPINDLE POWER | – | – | 20.1 hp / 15 kW @ 1,390 rpm | 20.1 hp / 15 kW @ 1,390 rpm |
| LIVE SPINDLE | MAXIMUM SPEED | 5,000 rpm | 5,000 rpm | 5,000 rpm | 5,000 rpm |
| | MAXIMUM TORQUE | 20.4 ft. lbs / 27.6 Nm | 20.4 ft. lbs / 27.6 Nm | 20.4 ft. lbs / 27.6 Nm | 20.4 ft. lbs / 27.6 Nm |
| | SPINDLE POWER | 8.5 hp / 6.4 kW @ 2,190 rpm | 8.5 hp / 6.4 kW @ 2,190 rpm | 8.5 hp / 6.4 kW @ 2,190 rpm | 8.5 hp / 6.4 kW @ 2,190 rpm |
| FEEDRATE | RAPID TRAVERSE X-AXIS | 945 in / 24 m per min | 945 in / 24 m per min | 945 in / 24 m per min | 945 in / 24 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 |
| | RAPID TRAVERSE Y-AXIS | 472 in / 12 m per min | 472 in / 12 m per min | 472 in / 12 m per min | 472 in / 12 m per min |
| | RAPID TRAVERSE W-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 |
| DIMENSIONS | MAXIMUM OPERATING FLOOR SPACE (W x D x H) | 211.34 x 137.56 x 105.24 in / 5,368 x 3,494 x 2,552 mm | 211.27 x 137.48 x 105.24 in / 5,366 x 3,492 x 2,552 mm | 217.29 x 137.56 x 105.24 in / 5,368 x 3,494 x 2,552 mm | 211.27 x 137.48 x 105.24 in. / 5,366 x 3,492 x 2,552 mm |
| | MACHINE WEIGHT | 16,500 lb / 7,500 kg | 15,984 lb / 7,250 kg | 16,500 lbs / 7,500 kg | 16,976 lb / 7,700 kg |