

TRM3016

MILLTRONICS USA
LET'S INVENT

MACHINE SPECIFICATIONS

CAPACITY

Travels	30 x 16 x 20 in
Table Size	35.4 x 16 in (900 x 406 mm)
Allowable Table Load	992 lbs (450 kg)
T-Slot Size	.709 in on 3.94 in centers (18 mm on 100 mm centers)

SPINDLE

Spindle Nose to Table Minimum / Maximum	4 / 24 in (102 / 610 mm)
Column to Spindle Center	16.2 in (411 mm)
Spindle Taper	BIG PLUS® ISO No. 40
Spindle Speed	8,000 RPM
AC Spindle Motor	15/10 HP (11/7.5 kW)
Spindle Torque	67 ft-lbs (90 Nm)

AUTOMATIC TOOL CHANGER

Number of Tools	16 Carousel
Tool Shank	40 Taper
Pull Stud	MAS 60 DEGREE
Max. Tool Diameter	4 in (100 mm)
Max. Tool Length	11 in (280 mm)
Max. Tool Weight	10 lb (72 kg)

MOTION

X, Y, Z Axis Rapid Traverse Rate	700 IPM (17.8 m/minute)
Max. Cutting Feed Rate	500 IPM (10.1 m/minute)
Least Command Increment	0.0001 in (0.001 mm)
Positioning Accuracy	+/- 0.0003 in (+/- 0.0076 mm)
Axis Thrust Force X, Y, Z	XY=3,256/1,281 Z=3,390/1,361 lbs (XY=14.5/5.7 Z=15/6.0 kN)

GENERAL

Machine Height	110 in (2,564 mm)
Floor Space Required (W x D)	89.8 x 89.8 in (2,280 x 2,280 mm)
Machine Weight	6,835 lbs (3,100 kg)
Power Required	8.25 KVA
Voltage Required	200-240 VAC 50/60Hz

MACHINE FEATURES

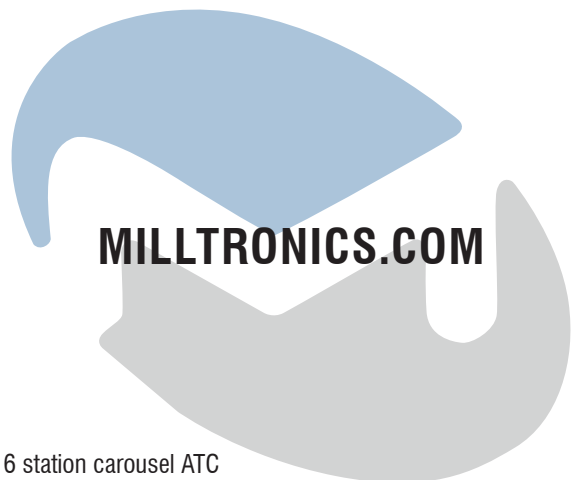
MACHINE STANDARDS

- Cast iron frame designed with Finite Element Analysis (FEA)
- The X, Y, / Z-axis are standard with heavy-duty 30/35 mm linear guide ways
- Linear motion guideways are wedge locked for max stiffness
- The guide ways are widely spaced (X: 240 mm, Y: 382 mm, Z: 334 mm) to eliminate table pitch and deformation
- Brushless Yaskawa AC servos – Sigma V
- Hiwin® fully ground pre-loaded precision ballscrews anchored on both ends
- 32 mm X and Y ballscrews, 40 mm Z axis
- AC spindle motor with Yaskawa drive
- Maintenance free cartridge spindle with permanently greased bearings

- 16 station carousel ATC
- Automatic metered lube
- Standard programmable flood coolant – 28 gallon tank
- Air and coolant washdown guns
- Work light
- Rigid tap
- Telescopic metal way covers
- Electric cabinet is well organized and labeled
- Standard cabinet heat exchanger
- Hour meter and auxiliary USB port
- “Drop down” door openings that allow long part pass through (also can be easily removed) – helps accommodate oversize parts



TRM3016 machine shown with options



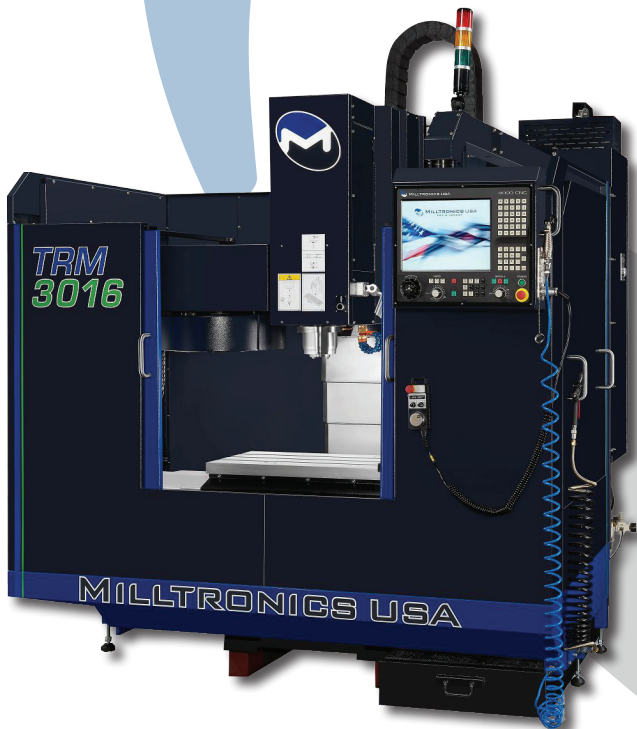
MACHINE OPTIONS

- Enclosure top cover
- Chip auger
- Remote jog
- Milltronics rotary tables
- Renishaw tool and part probes
- Programmable spray mist or air blast
- Auxiliary keyboard
- Extended warranty
- Factory start-up and on-site training
- Training at Milltronics (Waconia, MN)
- Printed manuals (PDF standard)
- Milltronics logo floor mat
- ChipBoss™ Trochoidal Milling Software
- Milltronics Shop View (MSV)
- Offline DGI software

SERIES 9000 CONTROL: THE NEW STANDARD

With conversational programming, on-screen help, intuitive menus, color graphics and prompted tool settings, the 9000 control helps new operators train faster and become more productive sooner. A Windows® based platform runs parts programmed conversationally or by tool paths generated by a CAM system.

- 120 GB solid state hard drive
- Windows Intel i5 Dual Core processor
- CPU with block processing speed of 3,000 BPS with enhanced jerk control and lookahead
- 15 in. color resistive touch screen (LED backlit)
1,024 x 768 resolution, driven by a high-end 600 Mhz graphics card featuring an on-board CPU and 1 GB video memory
- Auto DXF file import
- 3D part and wire frame tool path graphics plus solid modeling graphics
- Conversational, G&M code or CAD/CAM programming including coordinate rotation, scaling, mirror image, thread mill, engraving, helical interpolation, auto routines, user definable macros, trig assist, irregular pocket clearing and more
- Management software that allows editing of large program files at the machine
- MTConnect compliant
- Networking
- (2) USB Ports
- Mid-travel with tactile feedback keys
- Offline DGI software for programming and training (option)



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Specifications subject to change without notice. Optimum machine performance is dependent upon installation conditions at the facility. Some machines shown with options.

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