



	TRM-V	TM-1
Table	Bigger Table 13.5" x 50"	10.5" x 47"
Work Envelope	Bigger Travels X 31.5", Y 17", Z 22.5"	X 30", Y 12", Z 16"
Table Slots	4 Slots	3 Slots
Work Piece capacity	1400 lbs, place anywhere on table	1000 lbs max but requires evenly distributed load
Actual Machine Weight	4700 lbs	3300 lbs
Floor Space	90"W x 72"D x 97"H	96"W x 82"D x 105"H
Box Ways	Yes, Large bearing surfaces widely spaced	No, small linear rail that vibrates
Manual Quill	Yes, 5" manual quill travel	No quill, no quill travel, no manual quill
Operate as a 2 axis CNC	Yes, Included	No
Spindle Nose to Table	Large 25 inches	20 in.
Table Saddle	16" wide for smooth cuts	narrow saddle which vibrates
Rapid Traverse Speed	270 IPM	200 IPM
Hi and Low Range Spindle	Yes	No
Hi Torque at Low RPM	Yes	No
Has 6 WCS positions	Yes, Included	Costs an extra, \$4995
Wifi connection	Yes, Included	Costs an extra, \$1995
High Speed Machining	Yes, Included 2000 line lookahead@1200 blk/sec	Costs an extra, \$2795
SSD Hard drive	Yes, Included 120GB storage	Costs an extra \$1995 for 64 GB
Spare M functions	Yes, Included	Costs an extra, \$1495
User Definable Macros	Yes, Included	Costs an extra, \$2795
Coordinate System Rotation	\$220 manual or automatic	Costs \$1395
MPG Jog Handwheel	\$335	Costs \$1395
Part & Tool Probing	\$3140 (wired Centroid DP-4 & TT-2 probe)	Costs \$5495 (wireless third party)
Menu Driven Probing Cycles	Yes	Requires use of Macros
2D and 3D digitizing	\$4200	Not available
4th axis drive and wiring	\$620	\$2495
170 mm Rotary Table w/drive+motor	\$7125	\$10,366
Threadmilling Canned Cycle	Yes, Included	No
Offline Conversational	\$99, runs on a Windows PC	?
Four USB ports	Yes, Included	?
Touch Screen LCD display	Yes, Included	No
Windows 10 OS	Yes, Compatibility with 1000's of PC peripherals	No, ?
Uses Full Size PC keyboard	Yes, Included	No, expensive replacement
On site CNC Operator Training	\$750 plus Travel	?

Warranty:

One year standard warranty for parts, and technical support

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All specifications and features subject to change without notice.

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RGS Tool Room Mill -V  
Heavy Duty CNC Bed Mill  
w/CENTROID M400S CNC control



Outstanding workpiece capacity with support from a massive saddle

- ✓ Operate as Full 3-axis CNC or a 2-axis CNC with manual quill
- ✓ Powerful Dual Range 40 taper Spindle with Low-end Torque
- ✓ Large Work Capacity and 1400 lb Table Load
- ✓ Rigid Heavy Casting w/ Box Ways for Accuracy and Smooth cuts
- ✓ Easy to Operate Made-in-USA CENTROID CNC control



Column has wide Box Ways with an 11" span providing 22.5 inches of rigid Z axis travel

Z axis fully counter balanced with guide bar for smooth drilling, 3D surfacing, and rapid moves

Work Light

CNC Z axis with 5" Manual Quill

5HP 40 Taper Spindle

Auto Lubrication w/ low level warning

Heavy Duty cable tracks

High Quality Ballscrews supported at both ends

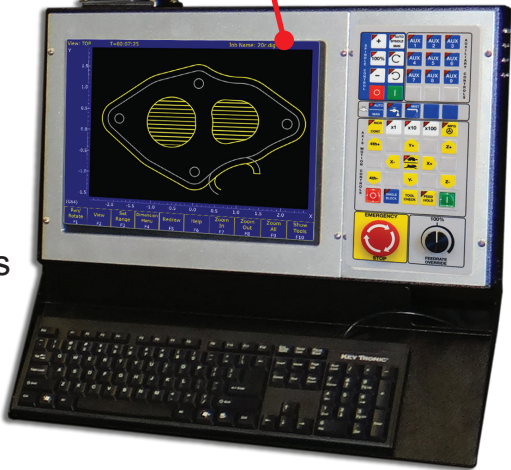
Auto Coolant w/ built-in sump and pump

CENTROID M400S Conversational CNC Control

Easy to Operate, Menu Driven Part and Tool Setups, Conversational Part Programming with Simple Fill-in-the-Blank menus, No G-codes necessary, Canned Cycles, Teach Mode, Threadmilling,

Hi/Low Range Spindle

Tilting Head, +/-90 degrees



Windows 10 OS w/ Remote support  
Touch Screen Color Display  
Wifi, LAN and 4 USB ports

13" x 50" Table, w/ 4 slots

4" wide box ways w/ large 16" saddle span providing large workpiece capacity

Ships from Curwensville PA

Fully Ribbed Heavy Duty 4700 lb Meehanite Cast Iron Frame

TRM-V Machine Specifications:

Table Size:	13" x 50" (330 x 1270mm) w/ 4 Slots
Longitudinal travel (X):	31.5" (800mm)
Cross travel (Y):	17" (431mm)
Vertical travel (Z):	22.5" (571mm)
Manual quill travel:	5" (152mm)
Spindle nose to table top:	25.5" (647mm)
Spindle center to column:	17" (431mm)
Maximum table load:	1400lbs (635kg) load can be anywhere on table
Spindle power:	5HP (3.72kW)
Spindle taper:	#40 NST
Spindle speed:	4200 RPM, 3 phase, 230 VAC
Hi Torque Low Range	6.5 times torque multiplier. Low range 70-460 RPM
Spindle Transmission	2 Speed Hi 600-3800 RPM Low 70-460 RPM
Rapid Traverse (X,Y,Z):	270 IPM
Resolution:	0.0002" (0.006mm)
Lubrication pump:	1/8 HP (94w) with level detection
Power requirement:	110 VAC (20 amp) + 220vac 3 Phase (1 Phase *opt)
Weight	4700 lbs (2131 kg)
Machine footprint:	122"W x 78"L x 117"H (3100 x 1981 x 2972mm)
Shipping footprint:	91"W x 84"L x 108"H (2312 x 2134 x 2744mm)
Shipping Weight:	Shipping weight approx 5000lbs (2267 kg)

TRM-V \*Optional Equipment

Single Phase 220 VAC power input
Power Draw Bar
Quill Scale with tie in to control (Z axis summing)
2D and 3D Digitizing
Auto Tool Height Measurement
4th Axis Rotary Tables
MPG Handwheel
Auto Part Zero and Dimensional Probing
Offline Conversational Programming
Unlimited G code file size
Programmable Spindle Speed

MPG Handwheel



Jog an axis with a MPG handwheel. Selectable x1, x10, x100 movement per increment. .0001" per increment is the finest increment. Great for touching off and setting up tools and part zero positions.

Part Probing and Digitizing



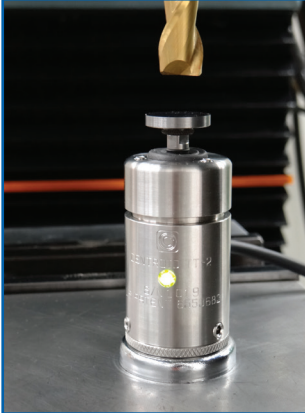
Quickly and accurately find zero points on a vise, fixture or part. Eliminate operator error when setting zero points, finding edges, or center locations of bosses or bores, slots and webs.

Rotary Table



Simultaneous 4th axis CNC Rotary tables for use with a Centroid CNC control. Program with CAD/CAM, G-code or Centroid's Intercon Conversational single axis moves or simultaneously with any other axis.

Auto Tool Height Measurement



Automatic Tool Height Measurement. An invaluable tool for a wide variety of CNC machines. Quickly, easily and accurately setup tool heights in the tool library with a push of a button