

**MILLTRONICS HAS A LONG HISTORY OF BUILDING TOOL ROOM MILLS** that can be run as manual, teach or full CNC with thousands of satisfied users. Popular in tool rooms, job shops, and tool & die, these machines are very flexible and can be used for a wide variety of different parts. We offer two types of quill machines in a traditional knee style (VK) as well as a bed type (TRQ). The rigid head (TRM) machines are available in four different sizes starting with a compact model that is 30 x 16 inches up to the largest that has 78 x 33 inches of travel. The TRM3016 is a tool room mill that offers large travels, speed, and power at a great price. The TRM3016 (pictured below) has drop down door openings for long part pass-through to help accommodate oversize parts.

**VK411**



**TRM3016**



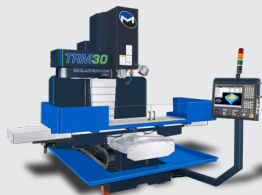
**TRQ20**



**TRM20**



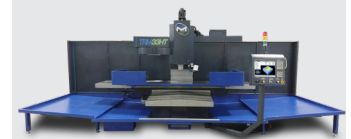
**TRM30**



**TRM30HT**



**TRM33HT**



## STANDARD FEATURES

- Solid box way construction (most models)
- X/Y axis metal way cover construction (most models)
- Auto lubrication
- ISO No. 40
- Spindle load meter
- Spindle air purge (excluding VK / TRQ models)
- Flood coolant
- Rigid tapping (excluding VK model)
- LCD hour meter
- One year warranty
- INSPIRE v11 Software\*

\* Some machines may ship with 9000 Series Control. Specifications subject to change without notice. Some machines shown with options.



**SCAN HERE** to learn more about tool room mills and other Milltronics machines.



SPECIFICATIONS	VK4II	TRM3016	TRQ20	TRM20	TRM30	TRM30HT	TRM33HT
<b>TABLE</b>							
TABLE WORKING SURFACE	54 x 12 in (1,370 x 305 mm)	35.4 x 16 in (900 x 406 mm)	54 x 16 in (1,372 x 406 mm)	54 x 16 in (1,372 x 406 mm)	73 x 24 in (1,853 x 610 mm)	73 x 24 in (1,853 x 610 mm)	86 x 32 in (2,185 x 810 mm)
TABLE T-SLOTS	.63 in (16 mm)	.71 (18 mm)	.63 in (16 mm)	.63 in (16 mm)	.71 in (18 mm)	.71 in (18 mm)	.71 in (18 mm)
MAXIMUM WEIGHT ON TABLE	1,324 lbs (600 kg)	992 lbs (450 kg)	1,323 lbs (600 kg)	1,323 lbs (600 kg)	2,866 lbs (1,300 kg)	2,866 lbs (1,300 kg)	3,960 lbs (1,800 kg)
<b>TRAVELS</b>							
X-AXIS	33 in (838 mm)	30 in (760 mm)	39.4 in (1,000 mm)	39.4 in (1,000 mm)	59.8 in (1,520 mm)	59.8 in (1,520 mm)	78 in (2,000 mm)
Y-AXIS	14.25 in (362 mm)	16 in (406 mm)	19.7 in (500 mm)	19.7 (500 mm)	29 in (740 mm)	29 in (740 mm)	33 in (840 mm)
Z-AXIS	QUILL: 5.83 in (148 mm) MILLSLIDE: 5.25 in (133 mm)	20 in (510 mm)	23.6 in (600 mm)	23.6 (600 mm)	28 in (710 mm)	28 in (710 mm)	28 in (710 mm)
<b>SPINDLE MOTOR</b>							
SPINDLE POWER (MAXIMUM)	14.75/7.5 HP (11/5.5 kW)	17/10 HP (13/7.5 kW)	12.5/7.5 HP (9/5.5 kW)	23/15 HP (17/11 kW)	23/15 HP (17/11 kW)	24/10 HP (18/7 kW)	24/10 HP (18/7 kW) 2-SPEED DELTA/WYE
SPINDLE TORQUE (MAXIMUM)	204 ft.-lbs (271 Nm)	54 ft.-lbs (73 Nm)	259 ft.-lbs (232 Nm)	75 ft.-lbs (102 Nm)		211 ft.-lbs (286 Nm)	250 ft.-lbs (339 Nm)
<b>SPINDLE</b>							
SPINDLE TAPER	ISO. No. 40	BIG-PLUS® ISO. No. 40	CT40	BIG-PLUS® ISO. No. 40	BIG-PLUS® ISO. No. 40	BIG-PLUS® ISO. No. 40	BIG-PLUS® ISO. No. 40
SPINDLE NOSE TO TABLE	1.75-23.25 in (45-591 mm)	4-24 in (101-610 mm)	7.1-30.7 in (180-780 mm)	3.94-27.5 in (100-700 mm)	3.94-31.89 in (100-810 mm)	3.94-31.89 in (100-810 mm)	4-32 in (100-810 mm)
SPINDLE SPEED (MAXIMUM)	4,000 RPM	8,000 RPM	4,000 RPM	8,000 RPM	8,000 RPM	8,000 RPM	8,000 RPM
<b>TOOL CHANGER</b>							
TOOL CAPACITY / TYPE	—	16 / CAROUSEL	—	24 / CAROUSEL	24 / CAROUSEL	24 / CAROUSEL	24 / CAROUSEL (OPTIONAL TOOL CHANGER)
TOOL SHANK	—	CT40	—	CT40	CT40	CT40	CT40
RETENTION KNOB	—	MAS 60	—	MAS 60	MAS 60	MAS 60	MAS 60
MAXIMUM TOOL DIAMETER	—	4 in (100 mm)	—	3.46 in (88 mm)	3.46 in (88 mm)	3.46 in (88 mm)	3.46 in (88 mm)
MAXIMUM TOOL LENGTH	—	11 in (280 mm)	—	11.8 in (300 mm)	11.8 in (300 mm)	11.8 in (300 mm)	10 in (250 mm)
MAXIMUM TOOL WEIGHT	—	10 lbs (4.5 kg)	—	15 lbs (7 kg)	15 lbs (7 kg)	15 lbs (7 kg)	15 lbs (7 kg)
<b>FURTHER DETAILS</b>							
X/Y/Z RAPID TRAVERSE RATE	300 IPM (7.62 m/min)	700 IPM (17.8 m/min)	500 IPM (12 m/min)	500 IPM (12 m/min)	500 IPM (12 m/min)	500 IPM (12 m/min)	800/600 IPM (20/15 m/min)
MACHINE HEIGHT	102.8 in (2,611 mm)	110 in (2,564 mm)	101 in (2,564 mm)	101 in (2,564 mm)	100 in (2,540 mm)	100 in (2,540 mm)	113 in (2,870 mm)
FOOTPRINT: MAXIMUM SERVICE SPACE - (WIDTH x DEPTH)	117.95 x 85 in (2,996 x 2,168 mm)	183.3 x 121.2 in (4,657 x 3,077 mm)	120.5 x 142 in (3,061 x 3,607 mm)	120.5 x 142 in (3,061 x 3,607 mm)	177.1 x 180 in (4,498 x 4,572 mm)	177.1 x 174.7 in (4,498 x 4,436 mm)	238 x 162 in (6,045 x 4,115 mm)
FOOTPRINT: NOMINAL OPERATING - (WIDTH x DEPTH)	107 x 85 in (2,718 x 2,168 mm)	90 x 90 in (2,280 x 2,280 mm)	115. x 123.0 in (2,921 x 3,124 mm)	115. x 123.0 in (2,921 x 3,124 mm)	174.0 x 180 in (4,420 x 4,572 mm)	174.0 x 180 in (4,420 x 4,572 mm)	236 x 140.4 in (5,996 x 3,567 mm)
MACHINE WEIGHT	4,400 lbs (2,000 kg)	6,835 lbs (3,100 kg)	5,953 lbs (2,700 kg)	6,393 lbs (2,900 kg)	11,023 lbs (5,000 kg)	11,023 lbs (5,000 kg)	15,000 lbs (6,800 kg)
POWER REQUIRED	13 KVA/32 Amps	18 KVA/21 Amps	15 KVA/36 Amps	25 KVA/61 Amps	28 KVA/58 Amps	23 KVA/27 Amps	26 KVA/65 Amps
VOLTAGE REQUIRED	208-240 Volts/ 3 Phase	480 Volts/ 3 Phase	200-240 VAC/ 60 Hz	200-240 VAC/ 60 Hz	200-240 VAC/ 60 Hz	480 Volts/ 3 Phase	480 Volts/ 3 Phase