

TOOL ROOM MILLS

40 TAPER

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 – MILLSLIDE™

The unique MillSlide™ on the VK411 provides rigid, CNC programmable, Z-axis travel. By traversing the entire head up and down the MillSlide™ is more robust than competitors' quill-driven solutions. The optional Quill Scale integrates with the CNC feedback and you have a built in Z-axis DRO.



INCLUDED AT NO EXTRA COST

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
- ✓ 9000 Series Control

OPTIONS (AVAILABILITY VARIES BY FRAME)

- Enclosure top cover
- Chip auger
- Remote handwheel
- 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
- Offline DGI software
- Quill scale

INFORMATION ON THE 9000 SERIES CNC CONTROL



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SPECIFICATIONS	VK411	TRM3016	TRQ20	TRM20	TRM30	TRM30HT	RH33
TABLE							
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	1,500 lbs (680 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)
TRAVELS							
X-AXIS	33 in (838 mm)	30 in (760 mm)	40 in (1,016 mm)	40 in (1,016 mm)	60 in (1,524 mm)	60 in (1,524 mm)	78 in (2,000 mm)
Y-AXIS	14.25 in (362 mm)	16 in (406 mm)	20 in (508 mm)	20 in (508 mm)	30 in (762 mm)	30 in (762 mm)	33 in (840 mm)
Z-AXIS	QUILL: 5.83 in (148 mm) MILLSLIDE: 5.25 in (133 mm)	20 in (510 mm)	24 in (610 mm)	24 in (610 mm)	28 in (710 mm)	28 in (710 mm)	28 in (710 mm)
SPINDLE MOTOR							
SPINDLE POWER (MAXIMUM)	7.5 HP (5.5 kW)	15/10 HP (11/7.5 kW)	14.75/7.5 HP (11/5.5 kW)	20/15 HP (15/11 kW)	20/15 HP (15/11 kW)	25/15 HP (18/11 kW)	24/15 HP (18/11 kW) 2-SPEED DELTA/WYE
SPINDLE TORQUE (MAXIMUM)	204 ft-lbs (276 Nm)	67 ft-lbs (91 Nm)	259 ft-lbs (232 Nm)	75 ft-lbs (102 Nm)	75 ft-lbs (102 Nm)	155 ft-lbs (210 Nm)	155 ft-lbs (210 Nm)
SPINDLE							
SPINDLE TAPER	ISO. No. 40	BIG-PLUS® ISO. No. 40	ISO. No. 40	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)	6.3-29.9 in (160-760 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
TOOL CHANGER							
TOOL CAPACITY / TYPE	—	16 / CAROUSEL	—	24 / CAROUSEL (OPTIONAL TOOL CHANGER)	24 / CAROUSEL (OPTIONAL TOOL CHANGER)	24 / CAROUSEL (OPTIONAL TOOL CHANGER)	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)	11.8 in (300 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)
FURTHER DETAILS							
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)	111.3 in (2,826 mm)	107.5 in (2,730 mm)	102.75 in (2,610 mm)	108.9 in (2,766 mm)	108.9 in (2,766 mm)	108.9 in (2,766 mm)
FOOTPRINT: MAXIMUM SERVICE SPACE - (WIDTH x DEPTH)	117.95 x 110 in (2,996 x 2,802 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 174.7 in (4,498 x 4,436 mm)	177.1 x 174.7 in (4,498 x 4,436 mm)	236 x 173 in (5,996 x 4,394 mm)
FOOTPRINT: NOMINAL OPERATING - (WIDTH x DEPTH)	107 x 85 in (2,718 x 2,168 mm)	87.9 x 89.2 in (2,232 x 2,265 mm)	120.5 x 121.2 in (3,061 x 3,077 mm)	120.5 x 121.2 in (3,061 x 3,077 mm)	177.1 x 152.5 in (4,498 x 3,873 mm)	177.1 x 152.5 in (4,498 x 3,873 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)	6,393 lbs (2,900 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/45 Amps	15 KVA/50 Amps	24 KVA/80 Amps	27 KVA/90 Amps	22 KVA/40 Amps	26 KVA/65 Amps
VOLTAGE REQUIRED	208-240 Volts/ 3 Phase	208-240 Volts/ 3 Phase	200-240 VAC/60 Hz	200-240 VAC/60 Hz	200-240 VAC/60 Hz	200-240 VAC/60 Hz	208-240 Volts/ 3 Phase