

MACHINE SPECIFICATIONS *(Standard 40-Taper Machines)*

		VF-1 VF-1YT	VF-2 VF-2YT	VF-3 VF-3YT	VF-4	VF-5 VF-5XT	VF-6	VF-7	VF-8	VF-9	VF-10	VF-11	VF-12	VM-2	VM-3	VM-6	MDC		
Travels	X	20" 508 mm	30" 762 mm	40" 1 016 mm	50" 1 270 mm	50" 60" 1 270 mm 1 524 mm	64" 1 626 mm	84" 2 134 mm	64" 1 626 mm	84" 2 134 mm	120" 3 048 mm	120" 3 048 mm	150" 3 810 mm	30" 762 mm	40" 1 016 mm	64" 1 626 mm	20" 508 mm		
	Y	16" 20" 406 mm 508 mm	16" 20" 406 mm 508 mm	20" 26" 508 mm 660 mm	20" 508 mm	26" 660 mm	32" 813 mm	32" 813 mm	40" 1 016 mm	40" 1 016 mm	40" 1 016 mm	32" 813 mm	40" 1 016 mm	32" 813 mm	20" 508 mm	26" 660 mm	32" 813 mm	14" 356 mm	
	Z	20" 508 mm	20" 508 mm	25" 635 mm	25" 635 mm	25" 635 mm	30" 762 mm	30" 762 mm	30" 762 mm	30" 762 mm	30" 762 mm	30" 762 mm	30" 762 mm	30" 762 mm	20" 508 mm	25" 635 mm	30" 762 mm	20" 508 mm	
	Spindle Nose to Table	4 - 24" 102 - 610 mm	4 - 24" 102 - 610 mm	4 - 29" 102 - 737 mm	4 - 29" 102 - 737 mm	7 - 32" 178 - 813 mm	4 - 34" 102 - 864 mm	4 - 34" 102 - 864 mm	4 - 34" 102 - 864 mm	4 - 34" 102 - 864 mm	4 - 34" 102 - 864 mm	4 - 34" 102 - 864 mm	4 - 34" 102 - 864 mm	4 - 34" 102 - 864 mm	4 - 24" 102 - 610 mm	4 - 29" 102 - 737 mm	4 - 34" 102 - 864 mm	4 - 24" 102 - 610 mm	
Table	Length	26" 660 mm	36" 914 mm	48" 54" 1 219 mm 1 372 mm	52" 1 321 mm	52" 62" 1 321 mm 1 575 mm	64" 1 626 mm	84" 2 134 mm	64" 1 626 mm	84" 2 134 mm	120" 3 048 mm	120" 3 048 mm	120" 3 048 mm	36" 914 mm	54" 1 372 mm	64" 1 626 mm	20" 508 mm		
	Width	14" 18" 356 mm 457 mm	14" 18" 356 mm 457 mm	18" 25" 457 mm 635 mm	18" 457 mm	23" 584 mm	28" 711 mm	28" 711 mm	36" 914 mm	36" 914 mm	28" 711 mm	28" 711 mm	28" 711 mm	18" 457 mm	25" 635 mm	28" 711 mm	12.75" 324 mm		
	Max Weight on Table	3,000 lb 1 361 kg	3,000 lb 1 361 kg	3,500 lb 1 588 kg	3,500 lb 1 588 kg	4,000 lb 1 814 kg	4,000 lb 1 814 kg	4,000 lb 1 814 kg	4,000 lb 1 814 kg	4,000 lb 1 814 kg	4,000 lb 1 814 kg	4,000 lb 1 814 kg	4,000 lb 1 814 kg	4,000 lb 1 814 kg	3,000 lb 1 361 kg	4,000 lb 1 814 kg	4,000 lb 1 814 kg	700 lb per pallet 318 kg	
	T-Slot Width	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	3/4" 22 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	5/8" 16 mm	
	T-Slot Center Distance	4.92" 125 mm	4.92" 125 mm	3.15" 80 mm	3.15" 80 mm	3.15" 80 mm	4.92" 125 mm	4.92" 125 mm	4.92" 125 mm	4.92" 125 mm	4.92" 125 mm	4.92" 125 mm	4.92" 125 mm	4.92" 125 mm	4.375" 111 mm	3.973" 100 mm	4.92" 125 mm	4.92" 125 mm	
Spindle	Taper Size	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper	#40 Taper		
	Speed	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	7,500 max rpm	12,000 max rpm	12,000 max rpm	12,000 max rpm	7,500 max rpm	
	Drive System	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Direct Speed Belt Drive	Inline Direct Drive	Inline Direct Drive	Inline Direct Drive	Direct Speed Belt Drive	
	Max Torque Standard	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 1,400 102 Nm @ 1,400	75 ft-lb @ 2,100 102 Nm @ 2,100	75 ft-lb @ 2,100 102 Nm @ 2,100	75 ft-lb @ 2,100 102 Nm @ 2,100	75 ft-lb @ 1,400 102 Nm @ 1,400	
	with Optional Gearbox	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	250 ft-lb @ 450 339 Nm @ 450	-	-	-	-	
	Bearing Lubrication	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	Air/Oil Injection	
	Cooling	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	Liquid Cooled	
Spindle Motor Max Rating ¹	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	20 hp 14.9 kW	30 hp 22.4 kW	30 hp 22.4 kW	30 hp 22.4 kW	20 hp 14.9 kW		
Axis Motors	Max Thrust Rating	X	2,550 lb 11 343 N	2,550 lb 11 343 N	2,550 lb 11 343 N	2,550 lb 11 343 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	2,550 lb 11 343 N	
		Y	2,550 lb 11 343 N	2,550 lb 11 343 N	2,550 lb 11 343 N	2,550 lb 11 343 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	3,400 lb 15 124 N	2,550 lb 11 343 N
		Z	4,200 lb 18 683 N	4,200 lb 18 683 N	4,200 lb 18 683 N	4,200 lb 18 683 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N	5,600 lb 24 910 N
	Rapids	X	1,000 ipm 25.4 m/min	1,000 ipm 25.4 m/min	1,000 ipm 25.4 m/min	1,000 ipm 25.4 m/min	710 ipm 540 ipm 18.0 m/min 13.7 m/min	540 ipm 13.7 m/min	600 ipm 15.2 m/min	540 ipm 13.7 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	710 ipm 18.0 m/min	710 ipm 18.0 m/min	540 ipm 13.7 m/min	1,000 ipm 25.4 m/min	
		Y	1,000 ipm 25.4 m/min	1,000 ipm 25.4 m/min	1,000 ipm 710 ipm 25.4 m/min 18.0 m/min	1,000 ipm 25.4 m/min	710 ipm 18.0 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	710 ipm 18.0 m/min	710 ipm 18.0 m/min	600 ipm 15.2 m/min	1,000 ipm 25.4 m/min	
		Z	1,000 ipm 25.4 m/min	1,000 ipm 25.4 m/min	1,000 ipm 710 ipm 25.4 m/min 18.0 m/min	1,000 ipm 25.4 m/min	710 ipm 18.0 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	600 ipm 15.2 m/min	710 ipm 18.0 m/min	710 ipm 18.0 m/min	600 ipm 15.2 m/min	1,000 ipm 25.4 m/min	
Max Cutting	650 ipm 16.5 m/min	650 ipm 16.5 m/min	650 ipm 16.5 m/min	650 ipm 16.5 m/min	500 ipm 12.7 m/min	500 ipm 12.7 m/min	500 ipm 12.7 m/min	500 ipm 12.7 m/min	500 ipm 12.7 m/min	500 ipm 12.7 m/min	360 ipm 9.1 m/min	360 ipm 9.1 m/min	360 ipm 9.1 m/min	500 ipm 12.7 m/min	500 ipm 12.7 m/min	500 ipm 12.7 m/min	833 ipm 21.1 m/min		
Tool Changer	Capacity Standard (optional) ²	20 (24+1)	20 (24+1)	20 (24+1, 40+1)	20 (24+1, 40+1)	20 (24+1, 40+1)	24+1 (40+1)	24+1 (40+1)	24+1 (40+1)	24+1 (40+1)	24+1 (40+1)	24+1 (40+1)	24+1 (40+1)	24+1 (40+1)	24+1 (40+1)	24+1 (40+1)	24+1 (40+1)		
	Tool Type / Taper	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT or BT / 40	CT/40	CT/40	CT/40		
	Max Tool Diameter Standard (full / adjacent empty)	3.5" (full) 89 mm	3.5" (full) 89 mm	3.5" (full) 89 mm	3.5" (full) 89 mm	3.5" (full) 89 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm	3" / 6" 76 mm / 152 mm		
	Max Tool Weight	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	12 lb 5.4 kg	
	Changer Type Standard (Optional)	Carousel (SMTC)	Carousel (SMTC)	Carousel (SMTC)	Carousel (SMTC)	Carousel (SMTC)	SMTC	SMTC	SMTC	SMTC	SMTC	SMTC	SMTC	SMTC	SMTC	SMTC	SMTC	SMTC	
	Tool to Tool (optional)	4.2 sec (2.8)	4.2 sec (2.8)	4.2 sec (2.8)	4.2 sec (2.8)	4.2 sec (2.8)	2.8 sec	2.8 sec	2.8 sec	2.8 sec	2.8 sec	2.8 sec	2.8 sec	2.8 sec	2.8 sec	2.8 sec	2.8 sec	2.2 sec	
	Chip to Chip (optional)	4.5 sec (3.6)	4.5 sec (3.6)	4.5 sec (3.6)	4.5 sec (3.6)	4.5 sec (3.6)	3.6 sec	3.6 sec	3.6 sec	3.6 sec	3.6 sec	3.6 sec	3.6 sec	3.6 sec	3.6 sec	3.6 sec	3.6 sec	4.8 sec	
Accuracy	Positioning	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0003" ±0.008 mm	±0.0003" ±0.008 mm	±0.0003" ±0.008 mm	±0.0003" ±0.008 mm	±0.0003" ±0.008 mm	±0.0003" ±0.008 mm	±0.0003" ±0.008 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0003" ±0.008 mm	±0.0002" ±0.005 mm		
	Repeatability	±0.0001" ±0.003 mm	±0.0001" ±0.003 mm	±0.0001" ±0.003 mm	±0.0001" ±0.003 mm	±0.0001" ±0.003 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0002" ±0.005 mm	±0.0001" ±0.003 mm	±0.0001" ±0.003 mm	±0.0002" ±0.005 mm	±0.0001" ±0.003 mm		
Miscellaneous	Machine Weight	7,100 lb 7,400 lb 3 220 kg 3 357 kg	7,300 lb 7,500 lb 3 311 kg 3 402 kg	12,500 lb 14,000 lb 5 670 kg 6 350 kg	13,300 lb 6 033 kg	14,600 lb 15,150 lb 6 623 kg 6 872 kg	21,000 lb 9 526 kg	23,000 lb 10 433 kg	24,000 lb 10 886 kg	25,000 lb 11 340 kg	28,000 lb 12 701 kg	29,400 lb 13 336 kg	28,000 lb 12 701 kg	7500 lb 3 402 kg	14,000 lb 6 350 kg	21,000 lb 9 526 kg	14,000 lb 6 350 kg		
	Air Required	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	4 scfm, 100 psi 113 lpm, 6.9 bar	9 scfm, 100 psi 4.25 lpm, 6.9 bar		
	Power Required (min)	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	200 - 250 VAC 380 - 480 VAC	