

TORNADO

CNC Turning Centre



Why TORNADO?

- Constructed from high quality meehanite cast iron ensures rigidity and accuracy
- Digital FEA (Finite Element Analysis) scientifically demonstrates rigid structure and improves dynamic accuracy
- Fitted with 15" Fanuc Oi-TF Plus control ensures ease of operation and allows the operator to quickly set and program each new component quickly and efficiently
- Backed by a team of factory trained service engineers throughout the UK ensures your machine can be fully maintained

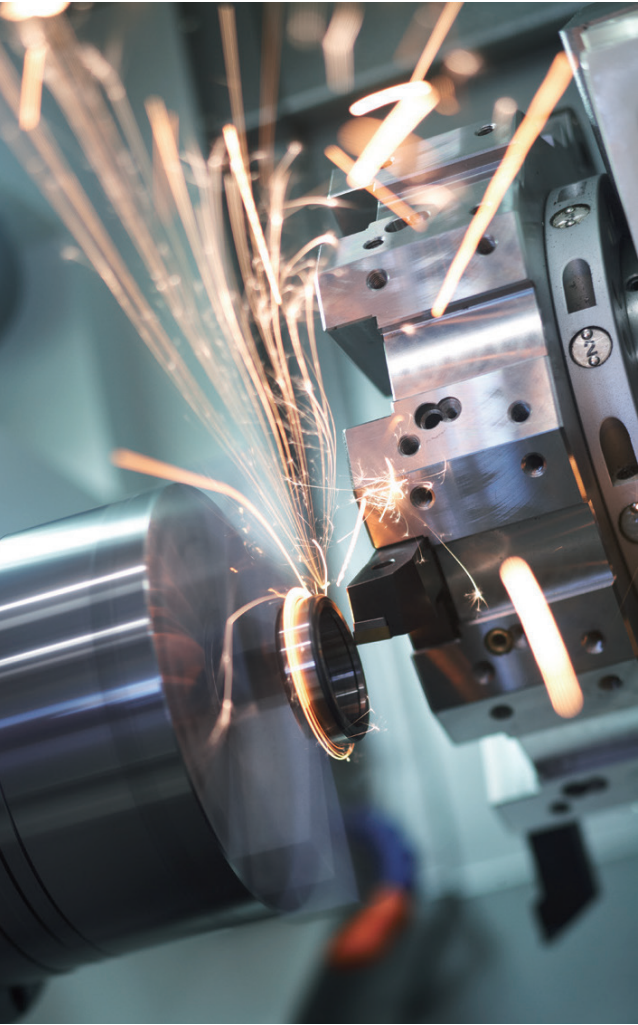
Standard Features

- VDi Turret
- Fanuc Oi-TF Plus 15" screen with Manual Guide i
- Swarf Conveyor
- Parts Catcher (except SL40 range)
- Renishaw Tool Setter
- 20 Bar Coolant
- Status Light
- Power Chuck

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Specification



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		Tornado SL 2-Axis Turning Centre				Tornado SL 3-Axis Turning Centre			
		SL25	SL30	SL35	SL40	SL25MC	SL30MC	SL35MC	SL40MC
			SL30L	SL35L	SL40L		SL30LMC	SL35LMC	SL40LMC
CONTROL SYSTEM		FANUC Oi-TF Plus 15"							
CAPACITIES									
Max. Swing Over Bed & Front Cover	mm/inch	530 / 20.9	600 / 23.6	650 / 25.6	750 / 29.5	530 / 20.9	600 / 23.6	650 / 25.6	750 / 29.5
Max. Over Cross Slide	mm/inch	350 / 13.8	400 / 15.7	450 / 17.7	550 / 21.7	350 / 13.8	400 / 15.7	450 / 17.7	550 / 21.7
Max. Cutting Diameter	mm/inch	350 / 13.8	400 / 15.7	450 / 17.7	550 / 21.7	280 / 11	330 / 13	360 / 14.2	550 / 21.7
Max. Cutting Length	mm/inch	400 / 15.7	600/ 23.6 1000 / 39.4	600/ 23.6 1000 / 39.4	950/37.4 1500 / 59	380 / 15	540 / 21.26 940/37	540 / 21.26 940/37	830/32.7 1380/54.3
Chuck Size	inch	8"	8" STD 10" OPT	10" STD 12" OPT	15" STD 18" OPT	8*	8" STD 10" OPT	10" STD 12" OPT	15" STD 18" OPT
Draw Tube Bore	mm/inch	52/2	65/2.6	78/3.1	103/4.1	52/2	65/ 2.6	78/3.1	103/4.1
SPINDLE									
Max.Speed	rpm	5000	4500	3500	2500	5000	4500	3500	2500
Spindle Motor Output (Peak)	kw	11	15	18.5	37	11	15	18.5	37
Spindle Torque (Peak)	N-m	202	305	727	2944 (gear box)	202	305	727	2944 (gear box)
Spindle Nose	-	A2-6	A2-6	A2-8	A2-11	A2-6	A2-6	A2-8	A2-11
TRAVELS / FEEDRATES									
X Axis Travels	mm/inch	195+15/7.7+0.5	220+20 / 8.6+0.8	235+20 / 9.2+0.8	285+25/11.2+1	195+5/7.6+0.2	220+5/8.6+0.2	235+5/9.2+0.2	285+25/11.2+1
Z Axis Travels	mm/inch	435 / 17,1	610/24 1010 / 39.8	630/ 24.8 1025 / 40.4	975/38.4 1520 / 58.9	435 / 17.1	600/ 23.6 1000 / 39.4	600 / 23.6 1000/39.4	900 / 35.4 1450 / 57.1
Rapid Feed X/Z	"m/min ipm"	36/1417	36 / 1417	36 / 1417	30/1181 36 / 1417	36/1417	36/1417	36 / 1417	30 / 1181 36 / 1417
Cutting Feed X/Z	"m/min ipm"	10 / 394	10 / 394	10 / 394	10/394	10 / 394	10 / 394	10/394	10 / 394
VDi TURRET (BMT on SL40MC series)									
Number of Tools	station	12	12	12	12	12	12	12	12
O.D Tool Size	mm/inch	20/0.79	25 / 0.98	25/0.98	32 / 1.26	20/0.79	25 / 0.98	25/0.98	BMT65
Boring Bar Shank	mm/inch	32/1.26	40 / 1.57	40 / 1.57	50 / 1.97	ER25	ER32	ER32	ER40
Motor of Power Turret	kw/HP	-	-	-	-	3.7/5.5	3.5 / 5.5	3.5 / 5.5	5.5/7
Max. Speed of Power Tooling	rpm	-	-	-	-	5000	4000	4000	4000
Tool Exchange (Neighbor Tool)	sec.	0.35	0.35	0.35	0.5	0.52	0.52	0.52	0.57
TAILSTOCK									
Quill Travel	mm/inch	100 / 3.9 (OPT)	100 / 3.9	100 / 3.9	100 / 3.9	100 (OPT)	100 / 3.9	100 / 3.9	100 / 3.9
Tailstock Travel	mm/inch	410 / 16.1 (OPT)	610/24 1010 / 31.7	630/24.8 102.5 / 40.3	975 / 38.4 1550 / 61	410 / 16.1 (OPT)	570 970	570 970	900 / 35.4 1450/57.1
Quill Taper	-	-	MT4	MT4	MT5	MTA (OPT)	MT4	MT4	MT5
ACCURACY									
Positioning	mm/inch	0.01 / 0.0039	0.01 / 0.0039	0.01 / 0.0039	0.01 / 0.0039	0.01 / 0.0039	0.01 / 0.0039	0.01 / 0.0039	0.01 / 0.0039
Repeatability	mm/inch	±0.003/±0.0012	±0.003/±0.0012	±0.003/±0.0012	±0.003/±0.0012	±0.003/±0.0012	±0.003/±0.0012	±0.003/±0.0012	±0.003/±0.0012
GENERAL									
Tank Capacity	litres/gal	160 / 42	240 / 52.8	270 / 59.4	280 / 61.6	160 / 42	240 / 52.8	270 / 59.4	280 / 61.6
Chip Disposal	-	Conveyor	Conveyor	Conveyor	Conveyor	Conveyor	Conveyor	Conveyor	Conveyor
Power Requirement	KVA	25	28	30	35	30	30	30	35
Floor Space (W x L)	mm/inch²	2450 x 1500 / 97 x 59	2930 x 1745 / 115.3 x 69	3050 x 1844 / 120 x 73	3900 x 2165 / 154x 85	2450 x 1500 / 97 x 59	2930 x 1745 / 115.3 x 69	3050 x 1844 / 120 x 73	3050 x 2165 / 153.5 x 85
Weight	kgs/lb	4000 / 8378	5600 / 10582 6500 / 14330	5600 / 12346 6500 / 14330	6700 / 19842 7700 / 16975	4000 / 8378	5600 / 11023	5800 / 12787	6700 / 19842