

TORNADO CNC Turning Centre



Why TORNADO?

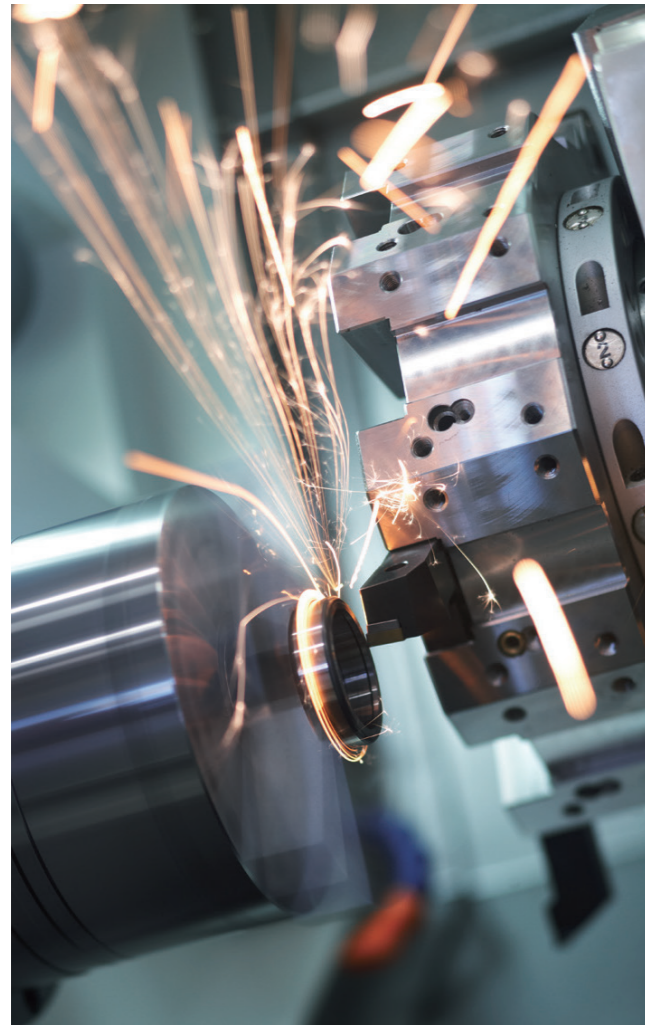
- Constructed from high quality meehanite cast iron ensures rigidity and accuracy
- Digital FEA (Finite Element Analysis) scientifically demonstrates rigid structure and improves dynamic accuracy
- Fitted with 15" Fanuc Oi-TF Plus control ensures ease of operation and allows the operator to quickly set 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



Specification



		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/inch ²	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

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