

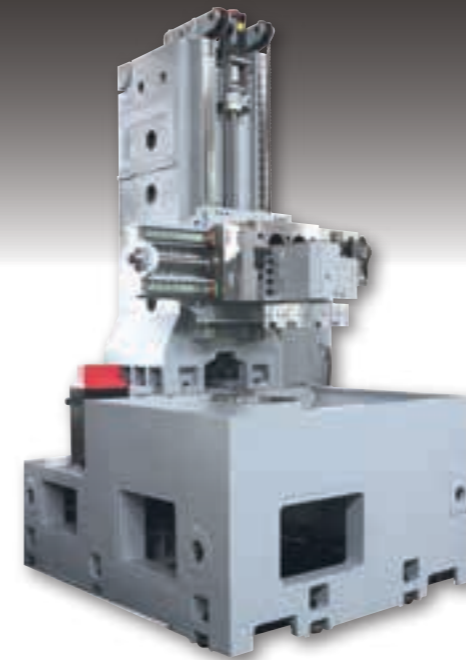
TAI TECH

**VERTIX Series
Extra Heavy Duty
CNC Vertical
Turning Centers**

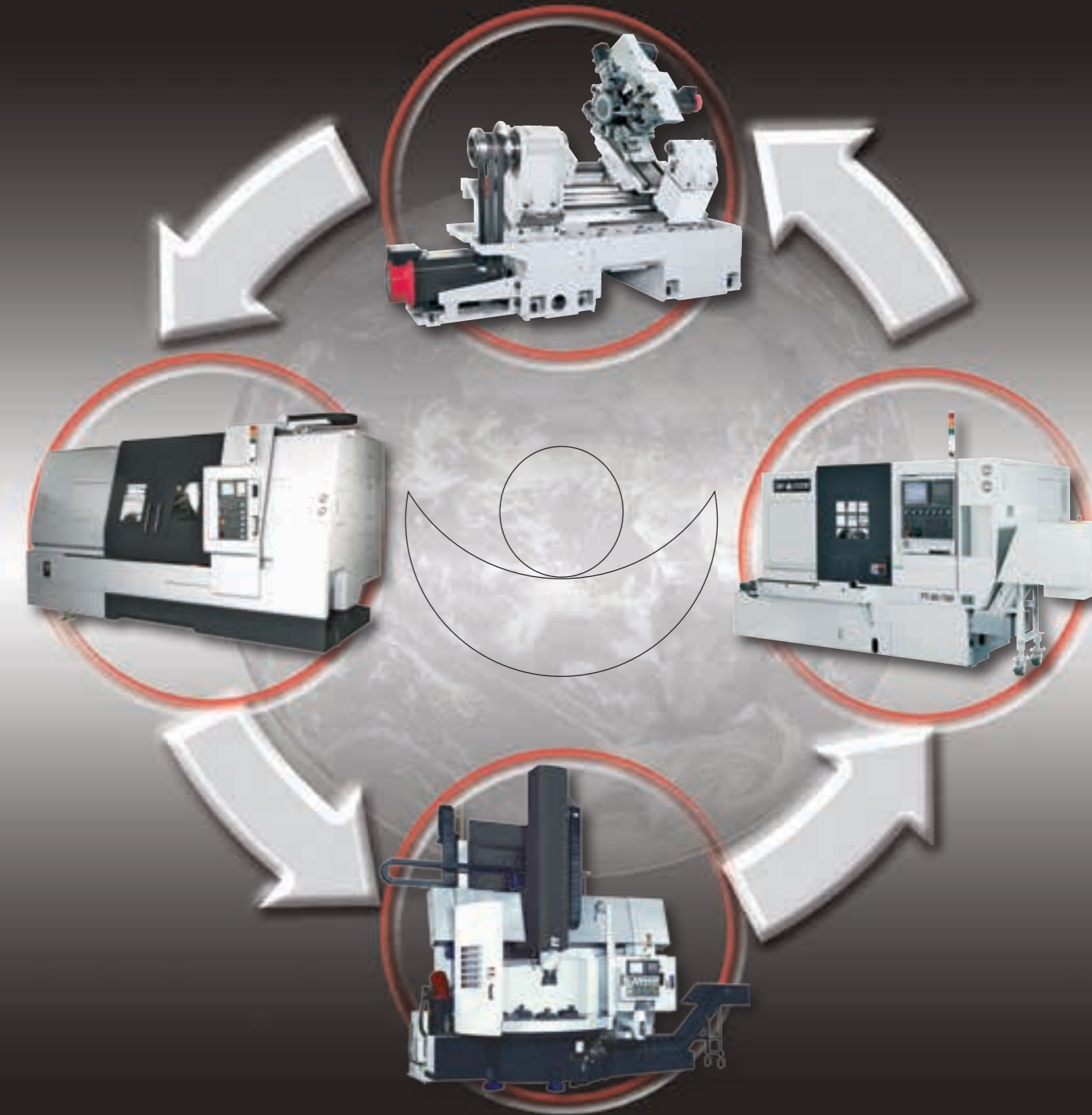
MODEL		VERTIX 1200 ATC	VERTIX 1600 ATC	VERTIX 2000 ATC
CNC CONTROLLER		FANUC 0i-T		
CAPACITIES				
Max swing	mm	1600	2000	2500
Max cutting diameter	mm	1500	1900	2400
Max cutting height	mm	1250	1600	1600
Platform diameter	mm	1250	1600	2000
Max admitted weight	Kg	9000	14000	21000
SPINDLE				
Spindle motor		FANUC α40i/6000	FANUC α40i/6000	FANUC α40i/6000
Max spindle motor torque	Nm	13160	22910	28310
Spindle motor power	KW	37/30	45/37	45/37
Gearbox speeds no.	no.	2	2	2
Spindle speeds	rpm	2-110 / 2-350	1-60 / 2-250	1-50 / 2-200
LIVE TOOLS (OPTION)				
Live tools motor		FANUC α12i/7000i	FANUC α12i/7000i	FANUC α12i/7000i
Live tools torque	Nm	150 Nm @ 750 rpm	200 Nm @ 750 rpm	200 Nm @ 750 rpm
Live tools motor power	KW	11/7,5	15/11	15/11
Max. speed of Live tools	rpm	50 - 2400	50 - 2250	50 - 2250
Max drilling capacity	mm	50	50	50
Max tapping capacity		M30	M30	M30
CF AXIS (OPTION)				
Rapid feed		800° / min	800° / min	800° / min
Min. programmable indexing angle	degrees	0,001°	0,001°	0,001°
Cf axis rotation speeds	rpm	3	3	3
Cf axis torque	Nm	5670/5670/7020	5670/5670/7020	5670/5670/7020
AXIS TRAVELS & RAPID FEEDS				
X/Z/W Axis max travels	mm	1900 - 900 - 800	2550 - 1000 - 800	2950 - 1000 - 800
X/Z Axis rapid feeds	m/min	12 - 10	12 - 10	12 - 10
X/Z Axis motor power	KW	FANUC α6i / 6 kW	FANUC α6i / 6 kW	FANUC α6i / 6 kW
MOBILE VERTICAL RAM SUPPORT				
Vertical travel	mm	800	800	800
Positions number		5	5	5
Position distances	mm	200	200	200
Locking system		4 Cylinders with hydraulic locking device and conic pins		
Locking force	kg	32000	32000	32000
ATC - AUTO TOOL CHANGE ATC+C				
Tools capacity	no.	12 (18)	12 (18)	12 (18)
Tool type attachment		BT-50 / ISO-50	BT-50 / ISO-50	BT-50 / ISO-50
Max tool length	mm	450	450	450
Max tool weight	kg	50	50	50
Tool change time (pot to pot)	sec	0.5	0.5	0.5
GENERAL DATA				
Installed power	KVA	60	60	60
Machine weight	kg	20000	28000	32000
Dimensions (LxWxH)	mm	4765 x 2785 x 5210	5190 x 3460 x 5875	5605 x 3980 x 5875

VERTIX Series CNC Vertical Turning Centers

MODEL		VERTIX 450	VERTIX 550	VERTIX 750
CNC CONTROLLER		FANUC 0i - T		
CAPACITIES				
Max swing	mm	600	750	850
Max cutting diameter	mm	450	550	750
Max cutting height	mm	400	500	600
SPINDLE				
Spindle speeds	rpm	2500	2000	1500
Spindle bearing diameter	mm	130	160	220
Spindle nose	ASA	A2-8"	A2-11"	A2-11"
Power chuck diameter	mm	305 (380)	380 (450)	600
AXIS TRAVELS				
X Axis	mm	-20/+230	-20/+275	-50/+485
Z Axis	mm	450	550	800
RAPID FEEDS				
X Axis rapid feed	m/min	20	20	20
Z Axis rapid feed	m/min	24	24	24
TOOL TURRET				
Type		BOLT-ON (BMT)		
Tools capacity	no.	8	8	12
Tools section	mm	25	25	25
Boring bar diameter	mm	40	40	40
MOTORS POWER				
Spindle motor	KW	18,5/15	18,5/15	22/18,5
X Axis motor	KW	3	3	4
Z Axis motor	KW	3	3	4
Hydraulic pump	KW	2,2	2,2	2,2
Cooling pump	KW	1,1	1,1	1,1
GENERAL DATA				
Installed power	KVA	35	45	50
Cooling tank capacity	litres	200	200	200
Hydraulic oil tank capacity	litres	7	7	7
Lubricant oil tank capacity	litres	4,2	4,2	4,2
Floor space	mm	1750 x 3000	1750 x 3000	3400 x 2400
Height	mm	2600	2600	4000
Machine weight	Kg	5000	5500	13500



**TECHNOLOGY and
AUTOMATION from
ITALY** 



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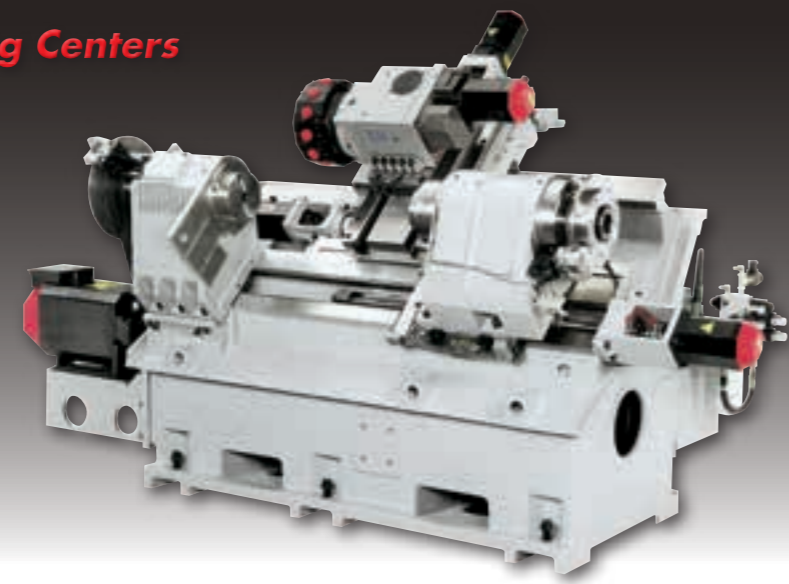


CNC lathes



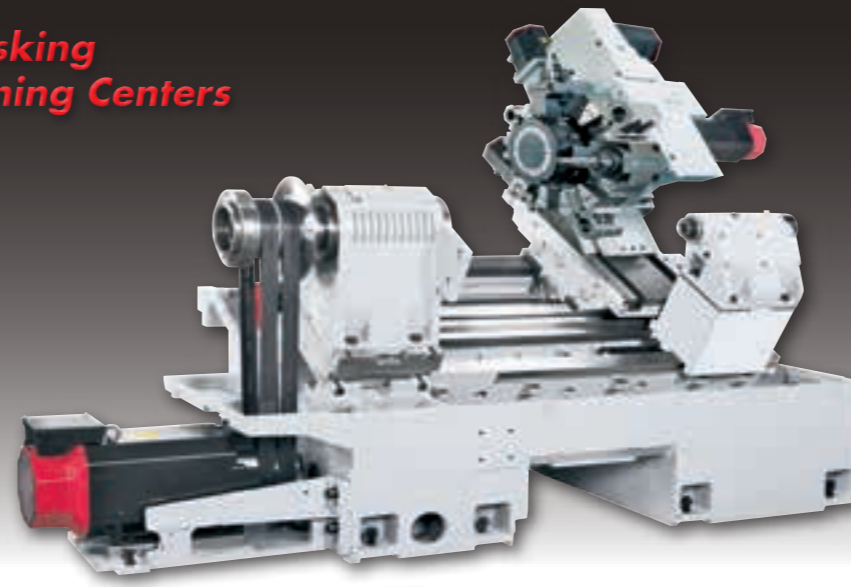
MODEL		ST-15 (MC)	ST-20 (MC)
CNC CONTROLLER		FANUC 0i-T	
CAPACITIES			
Swing over Z axis	mm	455	455
Swing over X axis	mm	260	260
Max turning diameter	mm	330	330
Max turning length	mm	300 / 600	300 / 600
SPINDLE			
Spindle nose	ASA	A2-5"	A2-6"
Power chuck diameter	mm	150	200
Spindle bearing diameter	mm	90	100
Spindle hole	mm	56	62
Spindle speeds	rpm	6000	4500
Spindle motor power	kW	11/15	11/15
Bar capacity	mm	45	52
AXIS TRAVELS			
Z Axis	mm	350 / 625	350 / 625
X Axis	mm	175	175
RAPID FEEDS			
Z/X Rapid feeds	m/min	20	20
TOOLS TURRET			
Tools number	stations	8 (12)	8 (12)
Tools section	mm	25 (20)	25 (20)
Boring bar diameter	mm	32	32
C Axis resolution	degrees	(0,015°)	(0,015°)
Max speed of live tools	rpm	(4000/5000)	(4000/5000)
Live tools power	kW	(3/3,7)	(3/3,7)
TAILSTOCK			
Tailstock body travel	mm	200 - 400	200 - 400
Tailstock quill travel	mm	80	80
Tailstock quill diameter	mm	70	70
Tailstock quill attachment	MT	4	4
Tailstock positioning		Manual (programmable)	
DIMENSIONS & WEIGHT			
Floor space	m	2.2 - 2.5 x 1.3	2.2 - 2.5 x 1.3
Height	m	1.6	1.6
Weight	kg	3000 - 4000	3500 - 4500

CNC Turning Centers



MODEL		TT-20 (MC)		TT-20 Y	TT-20 S (MC)	TT-20 YS
CNC CONTROLLER				FANUC 0i-T		FANUC 31i-T
CAPACITIES						
Swing over Z axis	mm	505	505	522	522	522
Swing over X axis	mm	318	318	318	318	318
Cutting Ø on main spindle	mm	350	350	320	350	350
Cutting Ø on subspindle	mm	—	—	260	286	286
Max turning length	mm	570 - 1000	570 - 1000	495 - 895	495 - 895	495 - 895
SPINDLE						
Spindle nose	ASA	A2-6"		A2-6"	A2-6"	A2-6"
Spindle bearing diameter	mm	100	110	100	110	100
Spindle hole	mm	62	76	62	76	62
Power chuck diameter	mm	200 (250)		200 (250)	200 (250)	200 (250)
Spindle speeds	rpm	4500	4000	4500	4000	4500
Spindle motor power	kW	11/15		11/15	11/15	11/15
Bar capacity	mm	52	65	52	65	52
SUB-SPINDLE						
Spindle nose	ASA	—		A2-5"	A2-5"	A2-5"
Spindle hole	mm	—		56	56	56
Power chuck diameter	mm	—		150	150	150
Spindle speeds	rpm	—		6000	6000	6000
Motor power	kW	—		5.5/7.5	5.5/7.5	5.5/7.5
Bar capacity	mm	—		45	45	45
AXIS TRAVELS						
Z Axis	mm	600 - 1025	600 - 1025	600 - 1025	600 - 1025	600 - 1025
Y Axis	mm	—		± 50	± 50	± 50
X Axis	mm	220	195	220	195	195
B Axis	mm	—		625 - 1025	625 - 1025	625 - 1025
RAPID FEEDS						
Z Axis rapid feed	m/min	20	20	20	20	20
Y Axis rapid feed	m/min	—		10	10	10
X Axis rapid feed	m/min	20	20	20	20	20
B Axis rapid feed	m/min	—		20	20	20
TOOLS TURRET						
Type		BOLT-ON (BMT/VDI)				
Tools number	stations	8 (10/12)	12	12	12	12
Tools section	mm	25	25	25	25	25
Boring bar diameter	mm	32	32	32	32	32
C Axis resolution	degrees	(0,015°)	0,015°	(0,015°)	(0,015°)	0,015°
Max speed of live tools	rpm	(4000/5000)	4000/5000	(4000/5000)	(4000/5000)	4000/5000
Live tools power	kW	(3/3,7)	3/3,7	(3/3,7)	(3/3,7)	3/3,7
TAILSTOCK						
Tailstock body travel	mm	545 - 945	545 - 945	—	—	—
Tailstock quill travel	mm	80	80	—	—	—
Tailstock quill diameter	mm	75	75	—	—	—
Tailstock quill attachment	MT	4	4	—	—	—
Tailstock positioning		Manual (Programmable)				
DIMENSIONS & WEIGHT						
Floor space	m	3,0 - 3,7 x 1,8	3,1 - 3,8 x 1,8	3,1 - 3,8 x 1,8	3,1 - 3,8 x 1,8	3,1 - 3,8 x 1,8
Height	m	1.7	1.7	1.7	1.7	1.7
Weight	kg	3700 - 5200	3800 - 5300	4000 - 4200	4200 - 4400	4200 - 4400

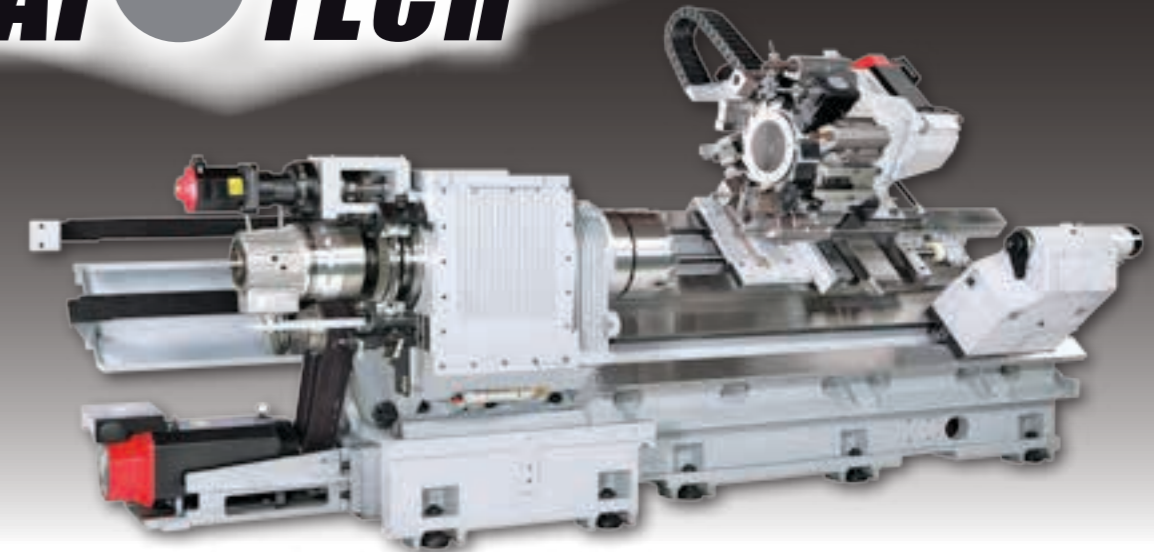
Multi-Tasking CNC Turning Centers



MODEL		TT-30 (MC)	TT-30 Y	TT-30 S (MC)	TT-30 YS
CNC CONTROLLER				FANUC 0i-T	FANUC 31i-T
CAPACITIES					
Swing over Z axis	mm	612	910	612	910
Swing over X axis	mm	388	720	388	720
Cutting Ø on main spindle	mm	500	470	420	450
Cutting Ø on subspindle	mm	—	—	375	375
Max turning length	mm	700 - 1200 - 2200	615 - 1145 - 2155	610 - 1140	315 - 1145
SPINDLE					
Spindle nose	ASA	A2-8"		A2-11"	A2-8"
Spindle bearing diameter	mm	130	140	160	130
Spindle hole	mm	86	101	116	86
Power chuck diameter	mm	250	305	380	250
Spindle speeds	rpm	3500	2700	2500	3500
Spindle motor power	kW	15/18,5 (18,5/22)			
Bar capacity	mm	75	90	105	75
SUB-SPINDLE					
Spindle nose	ASA	—		A2-5" (A2-6")	A2-5" (A2-6")
Spindle hole	mm	—		56 (75)	56 (75)
Power chuck diameter	mm	—		150 (200)	150 (200)
Spindle speeds	rpm	—		6000 (4500)	6000 (4500)
Motor power	kW	—		5.5/7.5	5.5/7.5
Bar capacity	mm	—		45 (65)	45 (65)
AXIS TRAVELS					
Z Axis	mm	750 - 1250 - 2250	750 - 1250 - 2250	750 - 1250	750 - 1250
Y Axis	mm	—		± 60	± 60
X Axis	mm	250 + 50	250 + 50	250 + 50	250 + 50
B Axis	mm	—		780 - 1280	660 - 1160
RAPID FEEDS					
Z Axis rapid feed	m/min	24	24	24	24
Y Axis rapid feed	m/min	—		10	10
X Axis rapid feed	m/min	20	20	20	20
B Axis rapid feed	m/min	—		24	24
TOOLS TURRET					
Type		BOLT-ON (BMT/VDI)			
Tools number	stations	12	12	12	12
Tools section	mm	25	25	25	25
Boring bar diameter	mm	40	40	40	40
C Axis resolution	degrees	(0,015°)	0,015°	(0,015°)	0,015°
Max speed of live tools	rpm	(4000/5000)	4000/5000	(4000/5000)	4000/5000
Live tools power	kW	(3/3,7)	3/3,7	(3/3,7)	3/3,7
TAILSTOCK					
Tailstock body travel	mm	540 - 1040 - 2040	540 - 1040 - 2040	—	—
Tailstock quill travel	mm	120	120	—	—
Tailstock quill diameter	mm	85	85	—	—
Tailstock quill attachment	MT	5	5	—	—
Tailstock positioning		Programmable	Programmable	—	—
DIMENSIONS & WEIGHT					
Floor space	m	3,0 - 3,6 - 5,1 x 1,8	3,0 - 4,1 - 5,6 x 2	3,5 - 4,1 x 2	3,6 - 4,1 x 2
Height	m	1.8	2.2	2.2	2.2
Weight	kg	5500 - 7000 - 9000	6000 - 7500 - 9500	6000 - 7500	6500 - 8000



Extra Heavy Duty CNC Turning Centers



MODEL		TT-350 (MC)		TT-400 (MC)		TT-600 (MC)	
CNC CONTROLLER				FANUC 0i-T			
CAPACITIES							
Swing over Z axis	mm	650		900		1030	
Swing over X axis	mm	550		745		950	
Max turning diameter	mm	420 - 550		680		900	
Max turning length	mm	800-1500-2200		1400-2100-3000-4000-5000		2100-3000-4000-5000	
SPINDLE							
Spindle nose	ASA	A2-8"	A2-11"	A2-11"	A2-15"	A2-11"	A2-15"
Spindle bearing diameter	mm	130	190	180	260	180	260
Power chuck diameter	mm	305 (380)	380 (450)	380 (450)	450 (535)	380 (450)	450 (535)
Spindle hole	mm	102	165	131	218	131	218
Spindle speeds	rpm	2500	1650	2200	1300	2200	1300
Spindle motor power	kW	26/22 (37/30)		37/30 (45/37)		37/30 (45/37)	
Mechanical gearbox		2 speeds		2 speeds		2 speeds	
Bar capacity	mm	90	115	115	203	115	203
AXIS TRAVELS							
Z Axis	mm	850-1600-2300		1500-2200-3100-4100-5100		2200-3100-4100-5100	
X Axis	mm	275		340 + 30		450 + 20	
RAPID FEEDS							
Z Axis rapid feed	m/min	20		24 - 16 - 11 - 6 - 6		16 - 11 - 6 - 6	
X Axis rapid feed	m/min	16		20		20	
AXIS MOTORS							
Z Axis motor power	kW	4,0		7,0		7,0	
X Axis motor power	kW	4,0		4,0		4,0	
TOOLS TURRET							
Type		BOLT-ON (BMT)		BOLT-ON (BMT)		BOLT-ON (BMT)	
Tools number	stations	10 - 12		12		12	
Tools section	mm	32 x 32		32 x 32		32 x 32	
Boring bar diameter	mm	50 - 60		50 - 60		60	
Index time next tool position	sec	0,3		0,6		0,6	
Index time 180° turret rotation	sec	1,5		2,1		2,1	
C Axis resolution	degrees	0,01°		0,01°		0,01°	
Max speed of live tools	rpm	3000 (4000)		3000 (4000)		3000 (4000)	
Live tools power	kW	7,5/5,5		11/7,5		11/7,5	
TAILSTOCK							
Tailstock quill travel	mm	100		150		150	
Tailstock quill diameter	mm	110		115 (160)		160	
Tailstock quill attachment	MT	5		5		6	
Tailstock positioning		Manual and/or CNC Programmable		CNC Programmable		CNC Programmable	
DIMENSIONS & WEIGHT							
Floor space	m	3.8 - 4.7 - 5.7 x 2.1		5,7 x 2,5 - 4,3 x 2,5 - 7,4 x 2,5		8,5 x 2,8 - 9,6 x 2,8	
Height	m	2,2		2,6		3,0	
Weight	kg	8500 - 10000 - 12000		13000 - 15000 - 18000 - 23000 - 26000		16000 - 20000 - 24000 - 27000	