

VMT-X 200 / X400

Multi-Tasking Milling & Turning center

- Turning & Milling in one set-up
- Multi-tasking machinery with twin built-in spindles and swivel head with built-in milling spindle
- Y-axis travel
260 mm (X200)
420 mm (X400)
- Maximum turning dimension:
Ø500 x 1075 mm (X200)
Ø720 x 2100 mm (X400)
- Roller geared B-axis swivel head for high rotating speed with high rigidity
- Turning spindle 4200 rpm with 8" chuck (X200) / 3000 rpm with 12" chuck (X400)
- Milling spindle 12000 rpm with HSK-T63 tooling
- ATC 40 tools (X200) / 60 tools (X400)



VMT-200 Multi-Tasking Milling & Turning Center

- Y-axis travel 260 mm (10.2")
- Max. turning dimension Ø500 x 1075 mm (Ø19.6" x 42.3")
- Roller geared B-axis swivel head for high rotating speed with high rigidity
- Turning spindle 4200 rpm / 8" chuck and milling spindle 12000 rpm / HSK-T63 implement 4+1 axis machining in one set up

Capacity (X/Y/Z)

Travels

- 635 / 260 / 1170 mm
- 25" / 10.2" / 46"

ATC-40 tools

- 2.0 (Tool-Tool)
- 6.0 (Chip-Chip)

Rapid feeds

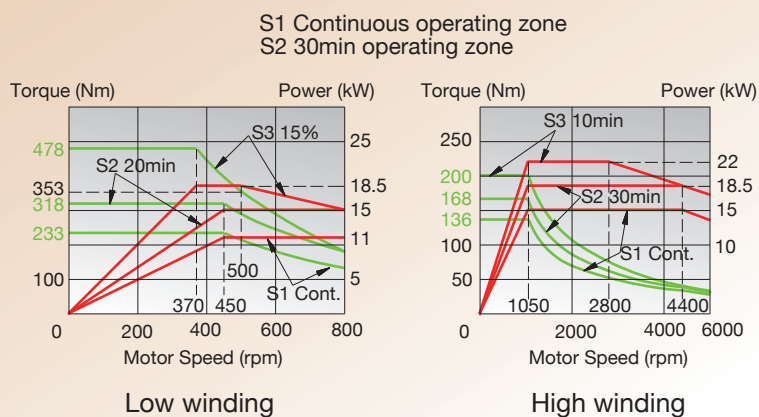
- 36 / 36 / 36 m/min
- 1417 / 1417 / 1417 IPM

Roller type guideways

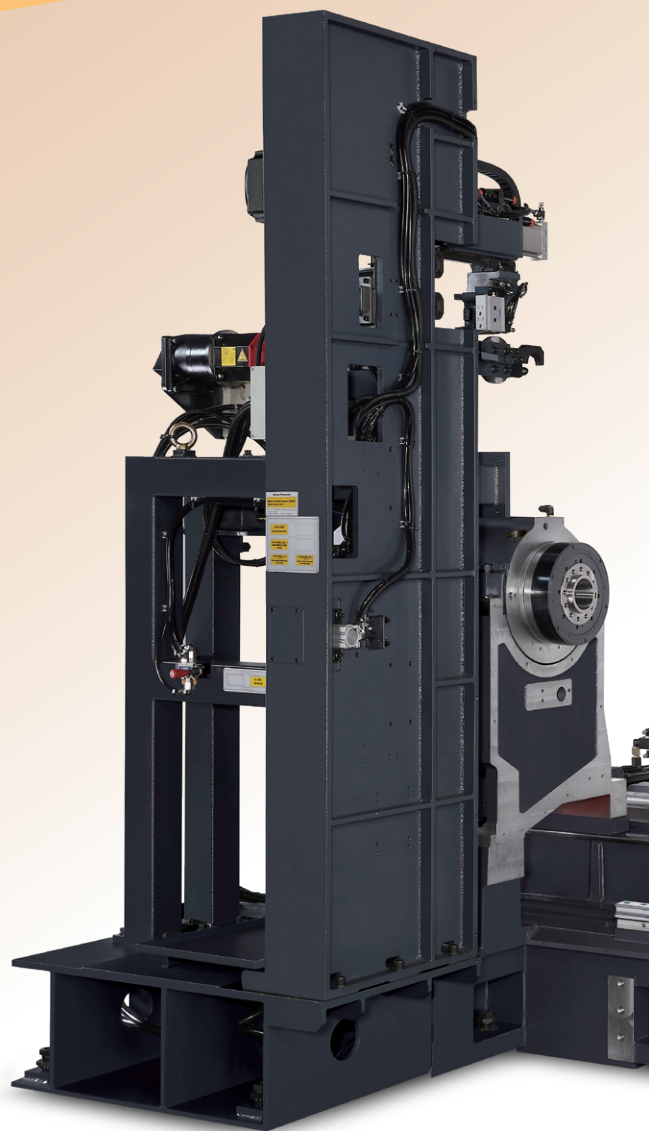
- 45 / 45 / 45 mm
- 1.8" / 1.8" / 1.8"

C-axis & Turning Spindle

- 8" chuck / 4200 rpm
- 15 kW (20 HP)
- Bar capacity: 52 mm (opt. 66 mm)

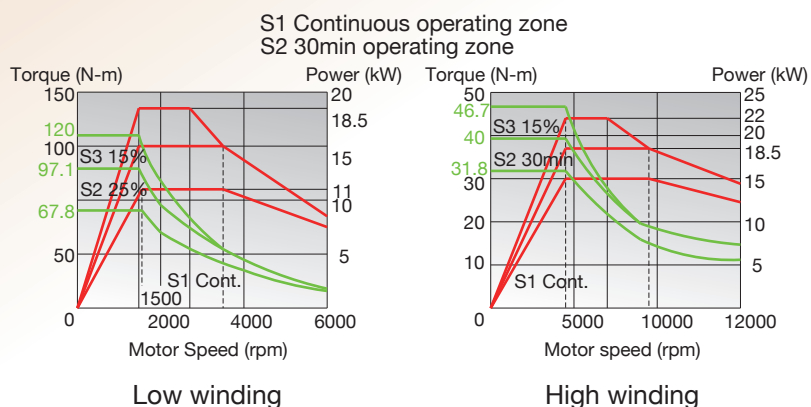
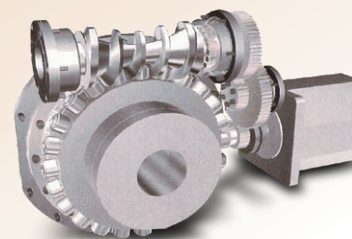


Fanuc Bil 180M/6000

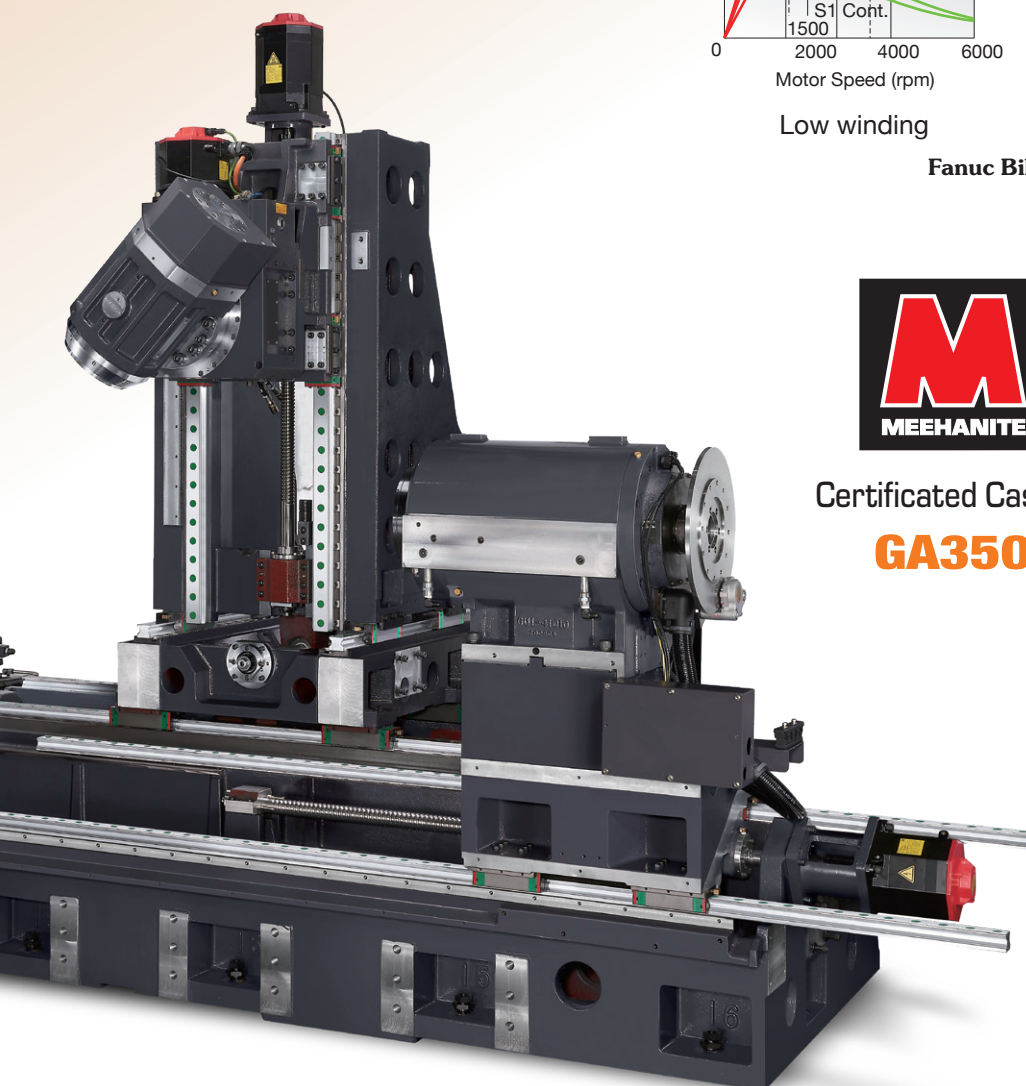


B-axis & Milling Spindle

- Roller cam mechanism
- 15 degree indexing for milling spindle (ready for multi-taking flash tool)
- 12000 rpm grease lubricated spindle for HSK-T63 tooling
- 22 kW (30 HP) (S3-25%)



Fanuc Bil 132S/15000

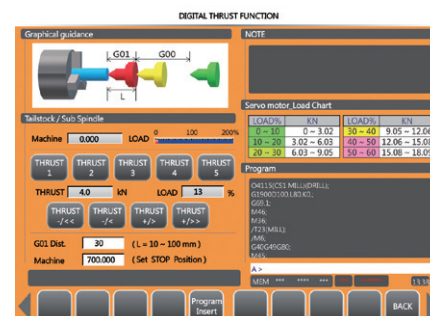


Certificated Casting

GA350

Digital Tailstock

- E-axis servo driven
- MT-4 with built-in bearings
- Available with the right spindle (optional) with the same output as the left spindle



VMT-X400 Milling & Turning Center

- Y-axis travel 420 mm (16.5")
- Max. turning dimension Ø720 x 2100 mm (Ø28.3" x 82.6")
- Roller geared B-axis swivel head for high rotating speed with high rigidity
- Turning spindle 3000 rpm / 12" chuck and milling spindle 12000 rpm / HSK-T63 implement 4+1 axis machining in one set up

Capacity (X/Y/Z)

Travels

- 840 / 420 / 2100 mm
- 33" / 16.5" / 82.6"

ATC-60 tools

- 2.2 (Tool-tool)
- 7.2 (Chip-chip)

Rapid feeds

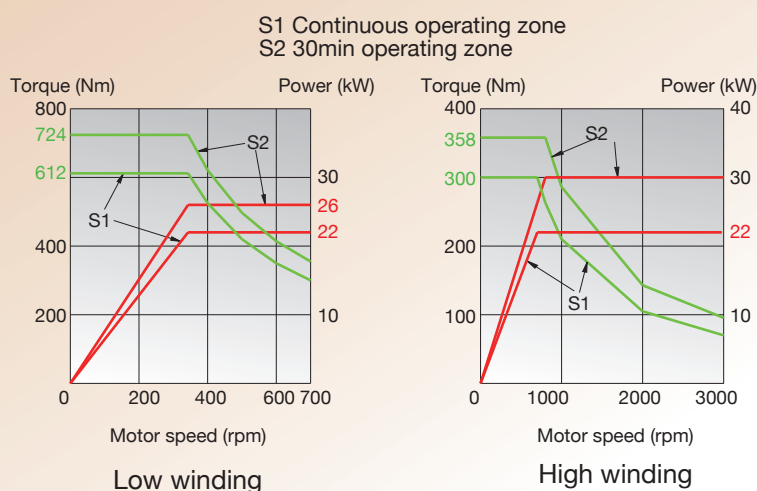
- 36 / 36 / 36 m/min
- 14717 / 1417 / 1417 IPM

Roller type guideways

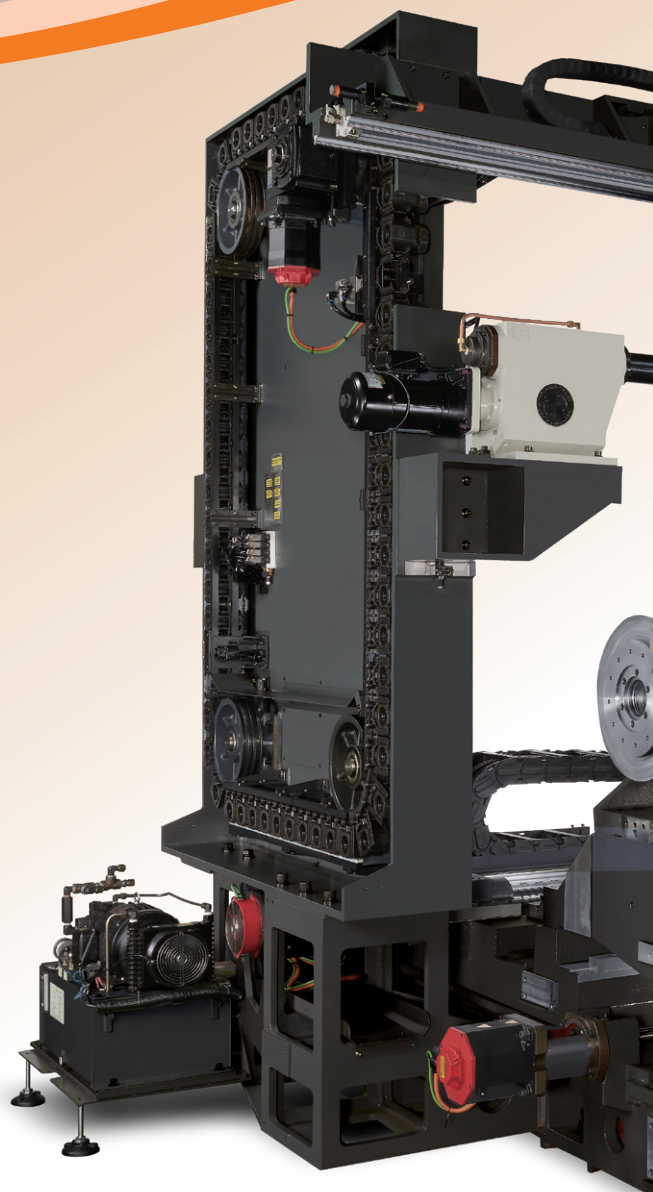
- 55 / 45 / 55 mm
- 2.2" / 1.8" / 2.2"

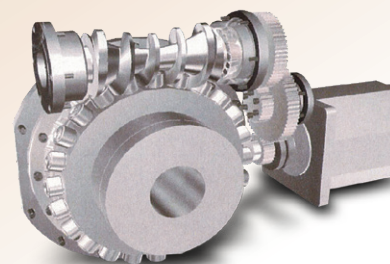
C-axis & Turning Spindle

- Built-in spindle
- 12" chuck / 3000 rpm
- 30 kW (40 HP)
- Bar capacity 91 mm (opt. 105 mm)



Fanuc Bil 250S

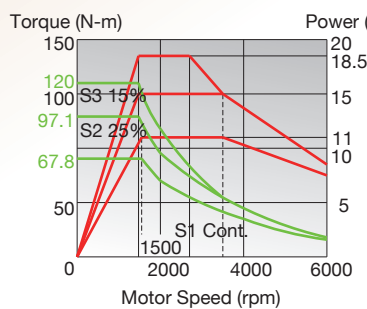




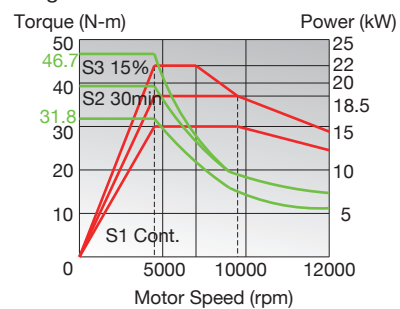
B-axis & Milling Spindle

- Roller cam mechanism
- 15 degree indexing for milling spindle (ready for multi-taking flash tool)
- 12000 rpm grease lubricated spindle for HSK-T63 tooling
- 22 kW (30 HP, S3-25%)

S1 Continuous operating zone
S2 30min operating zone



Low winding



High winding

Fanuc Bil 132S/15000



Certificated Casting

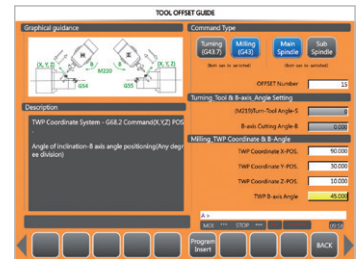
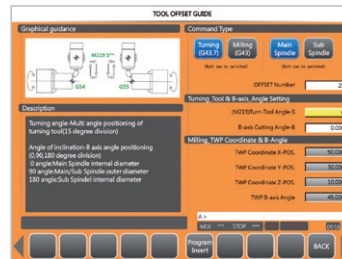
GA350

Digital Tailstock

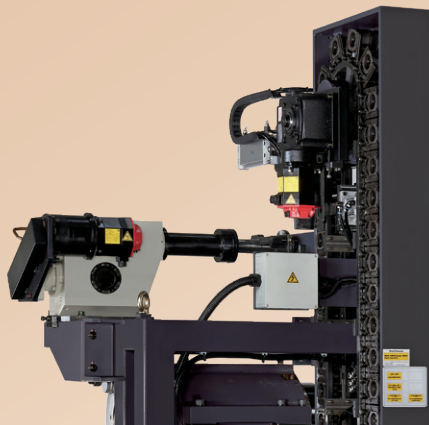
- E-axis servo driven
- MT-4 with built-in bearings
- Available with the right spindle (optional) with the same output as the left spindle

Standard accessories

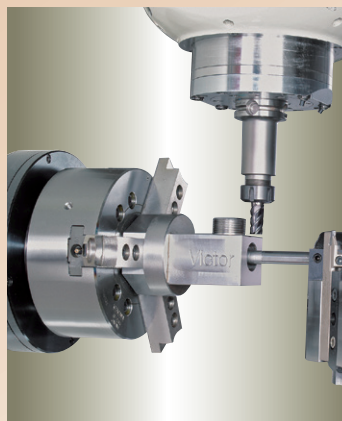
Fanuc Oi-TF Plus (15", type-O) control with Touch Panel + MGI + AICC (40 blocks) + Victor's GUI + Fanuc's GUI (iHMI)



Victor's GUI with guidance



ATC - 40 tools



Hydraulic chuck



Chip conveyor



Lube Hybrid Lubrication



ATP





Optional accessories



Fanuc iHMI



Hydraulic steady rest



Extra CTS tank with 14~70 bar coolants and filtration system



Subspindle

Machine Specification

Items	Unit	VMT-X200	VMT-X400
Capacity	Swing over bed	mm	660
	Between centers	mm	1376
	Max. turning length	mm	1075
	Max. turning diameter	mm	500 (tool length 70)
Travels	X1-axis (upper tool spindle)	mm	635 (+510 / -125)
	Z1-axis (upper tool spindle)	mm	1170 (95 + 1075)
	Y-axis (upper tool spindle only)	mm	260 (± 130)
	B-axis	deg.	240 (-30~+ 210)
	E-axis (tailstock / sub-spindle)	mm	1080
	X1 / Z1 / Y/E/B-axis feed	m/min	36 / 36 / 36 / 24 / (30 rpm)
Axis feed	X1/Z1/Y/E/B axis motor power	kW	5.5 / 7 / 4 / 2.5 / 3
	Ball screw dia. x pitch	mm	X1: 40 x P10, Z1/Y/E: 40 x P12
Main spindle	1 st spindle nose (chuck)	inch	A2-6 (8")
	1 st spindle speed	rpm	4200 (opt. 5000)
	1 st spindle motor power (cont./30 min/15%)	kW	15 / 18.5 / 22 (high winding)
	Spindle bore	mm	76
	Bearing inside diameter	mm	110
	Bar capacity	mm	52 (opt. 66)
Subspindle	2 nd spindle nose (chuck)	inch	A2-6 (8")
	2 nd spindle speed	rpm	4200 (opt. 5000)
	2 nd spindle motor power (cont./30 min/15%)	kW	15 / 18.5 / 22 (high winding)
	Spindle bore	mm	62 (opt. 76)
	Bearing inside diameter	mm	100 (opt. 110)
	Bar capacity	mm	52 (opt. 66)
Upper milling spindle (B-axis milling head)	Turret type	rpm	Milling head with ATC
	Continuous indexing resolution	deg.	0.001 (by roller gear)
	Max. speed	rpm	12000
ATC & tool magazine	Milling motor power (cont./30min/25%)	kW	15 / 18.5 / 22 (high winding)
	Tool specification	-	HSK-T63
	Tool capacity	-	40
	Tool selection	-	Fixed tool pot number
	Max. tool diameter (w/t adjacent tool)	mm	95 (125)
	Max. tool length	mm	300
	Max. tool weight	kg	7
Tailstock	Tool exchange time	sec.	2.0 (T-T), 6.0 (C-C)
	Quill diameter	mm	NA (digital)
	Quill stroke	mm	NA (digital)
	Quill taper		MT-4 (live)
Machine	Controller	Fanuc	0i-TF Plus (15", type 0)
	Tank capacity	L.	300
	Floor requirement (incl. chip conveyor)	mm	5437 x 3034 x 2906
	Power requirement	kVA	57 (74)
	Net weight	kg	12000

Standard accessories

- Fanuc 0i-TF PLUS (15", type 0) control with iHMI + AICC + MGI
- Hydraulic chuck with soft jaws
- Chip conveyor with cart
- Automatic Tool Presetter (ATP by Renishaw®) for milling spindle
- Coolant flush to the bottom of Z-axis covers
- Coolants through milling spindle for high pressure turning (7 bars/60Hz)
- Coolants Through Spindle (milling spindle) with Walrus pump
- Digital tailstock
- LHL (Lube Hybrid Lubrication) system
- Spindle oil cooler
- Fully enclosed splash guarding
- Hand-wheel (Pulse generator)
- 3 step warning light
- Handy air gun

Optional accessories

- Subspindle
- KITAGAWA® hydraulic chuck
- Hard jaws
- Coolant Through Spindle (CTS)
- Steady rest
- High pressure coolants
- Bar feeder interface
- Robotic parts catcher
- Hand-wheel (remote MPG)
- Air blow system
- Auto door
- Fanuc manuals
- Fanuc 31i-B5 Plus control for 5-axis simultaneous machining
- Test bar for accuracy calibration
- Coolant gun

VICTOR Taichung's FANUC Oi-TF Plus (15", Type-0) Control Specification



STANDARD:

ITEM	SPECIFICATION	DESCRIPTION
Control System:		
1.	Controlled axes	6 Axes (X, Z, C, Y, B, E)
2.	Simultaneous controlled axes	4 Axes
3.	Least input increment	0.001mm
4.	Least command increment	0.0005mm (X) / 0.001mm (Z, C, Y, B, E)
5.	Command system	Incremental / Absolute
6.	HRV Control	HRV3+
7.	Unexpected disturbance torque detection (AIR-BAG)	Std.
8.	Backlash compensation	Std.
9.	Stored pitch error compensation	Std.

Operation & Program Input:

1.	Input / Output interface	RS-232, PCMCIA Card, USB
2.	Tool offset	128 sets
3.	Sequence number	N5-Digit
4.	Program number	O8-Digit
5.	Program name	31-characters
6.	M code function	M3-digit
7.	S code function	S5-digit
8.	T code function	T2-digit
9.	Positioning	G00
10.	Linear interpolation	G01
11.	Circular interpolation	G02, G03
12.	Programmable data input	G10

Feed Function:

1.	Manual handle feed rate	X1, X10, X100
2.	Rapid traverse rate	F0, 25%, 50%, 100%
3.	Cutting feed rate	0~150%
4.	Spindle override	50~120%
5.	Feed per Minute / Revolution	G98 / G99

Edit Operation:

1.	Part Program Storage Length (in total)	5120m / 2MB
2.	Number of Registerable programs (in total)	1000
3.	Part Program Editing	Std.
4.	Memory card program (63 programs)	Std.

OPTIONS:

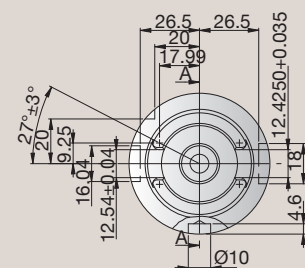
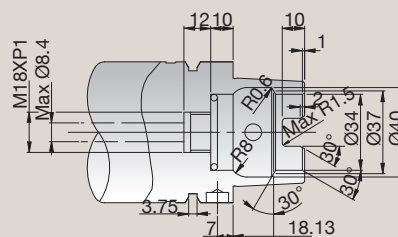
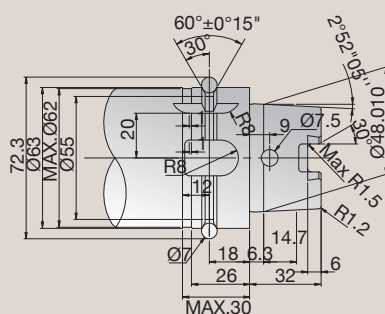
ITEM	SPECIFICATION	DESCRIPTION
With hardware included:		
1.	Tool life management	☐
2.	Program restart	☐
3.	Data server (with PCB and CF card 1GB)	☐
4.	Ethernet/IP (to be linked to robot)	☐
5.	PROFIBUS-DP (to be linked to robot)	☐
6.	CC-Link (to be linked to robot)	☐
7.	Fast Ethernet (required for SCADA Web with additional RJ45 port)	☐

Without hardware included:

8.	Circular thread cutting	☐
9.	AICC-2 (G5.1 Q1, 200 blocks)	☐
10.	Helical interpolation	☐
11.	Arbitrary speed threading	☐
12.	Hob machining package	☐
13.	Oscillation cutting	☐
14.	Memory card program entry count (Max. 1000)	☐

Tool Shank

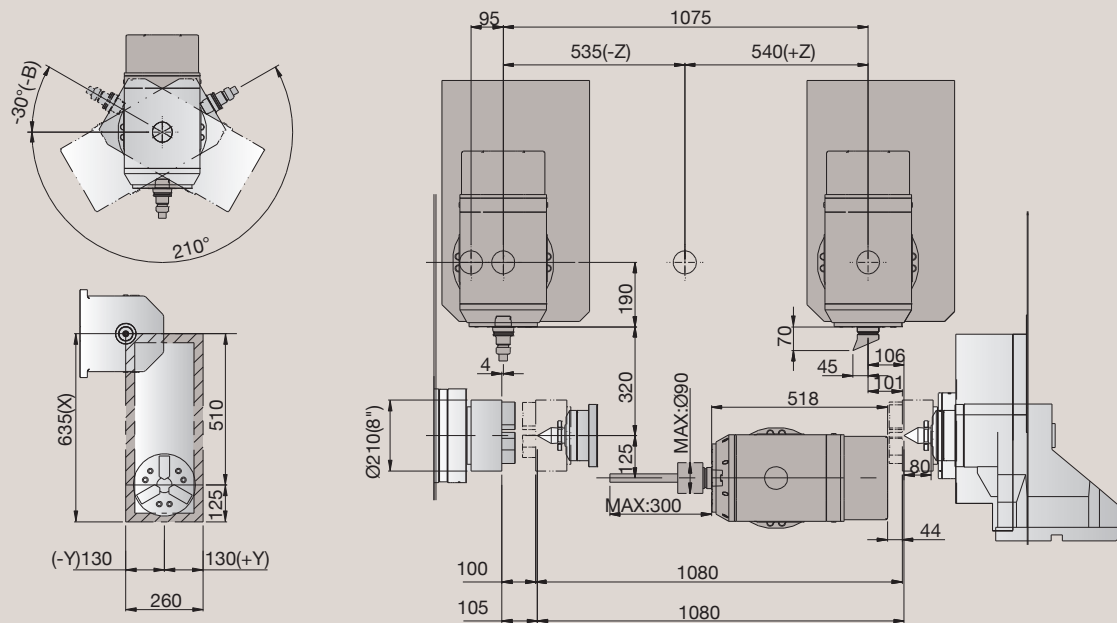
HSK-T63



Unit: mm

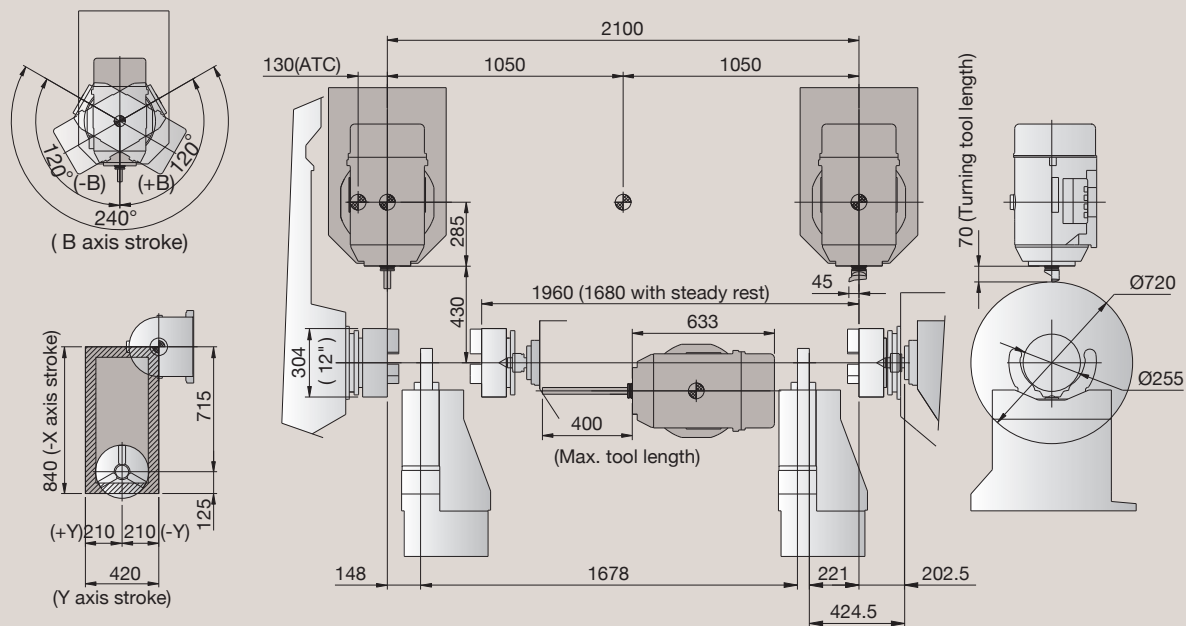
Machining Range

VMT-X200



Unit: mm

VMT-X400

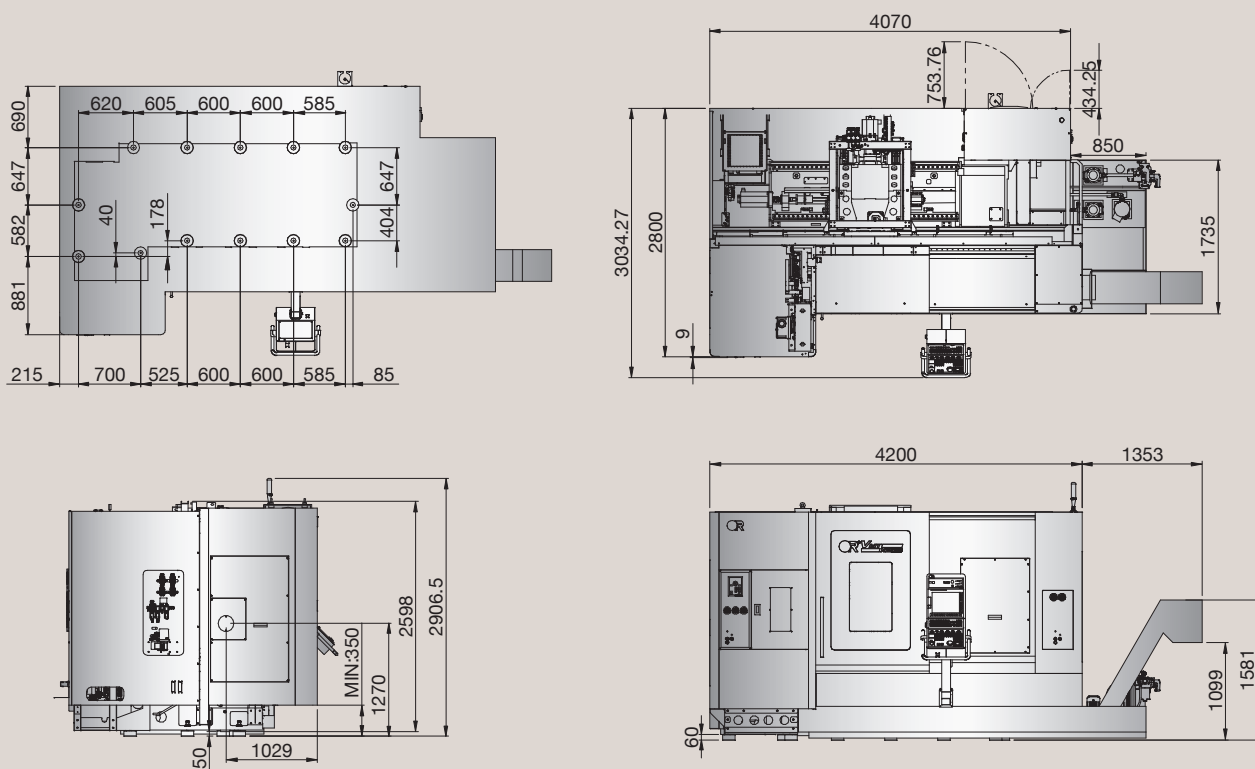


Unit: mm

Machine Layout

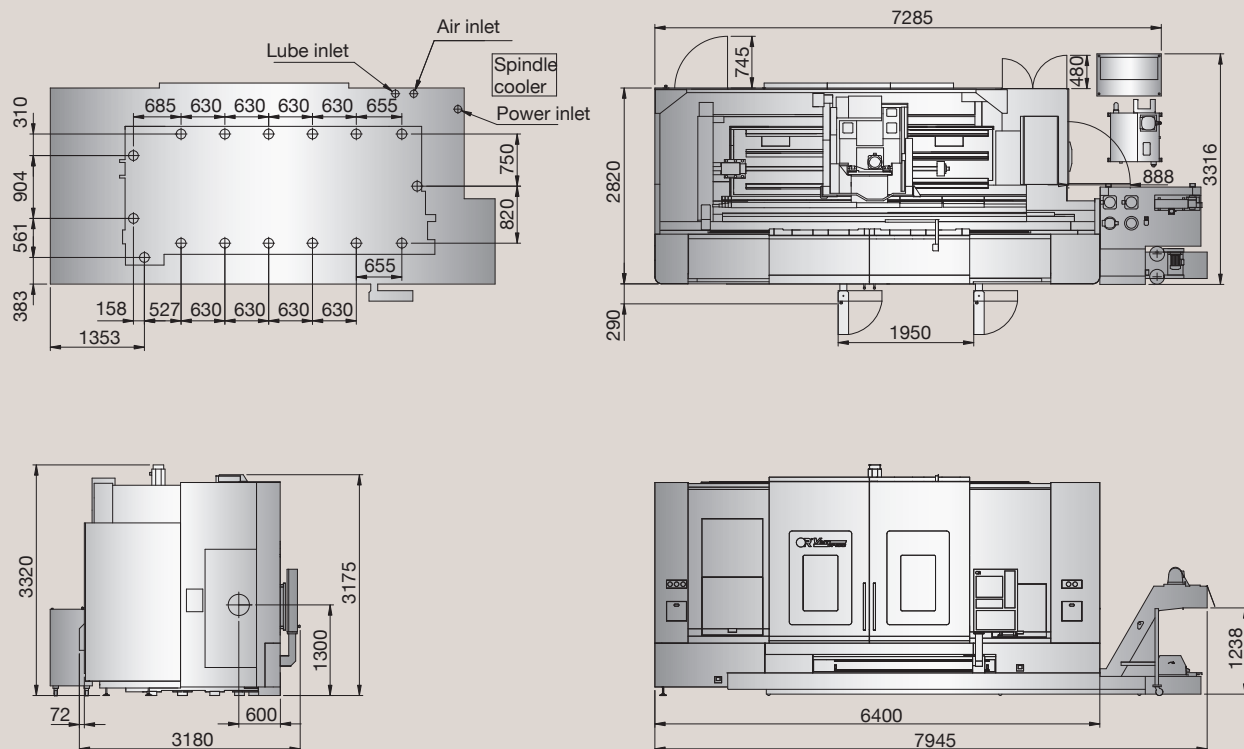


VMT-X200



Unit: mm

VMT-X400



Unit: mm

Worldwide Subsidiaries



ONWARD RISE

To ensure the return on investment, Victor Taichung has invested considerably in setting up a distribution network in terms of global vision local touch for our sales and service supports worldwide. Besides the qualified exclusive agents around the world, Victor Taichung has 7 overseas subsidiaries to provide our customers efficient after-sales service and technical supports.



 **VICTOR TAICHUNG** profile:
Sales turnover: USD 156 mil's (in 2020)*
No. of employees: 796
*Exchange rate: 1 USD=28.5 TWD.



THE VICTOR-TAICHUNG COMPANIES

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HTL



VTL



VMC



HMC



XMT



PIM