

VMT- X200 / X260 X360 / 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/X260)
420 mm (X360/X400)
- Maximum turning dimension:
Ø500 x 1075 mm (X200/X260)
Ø720 x 2100 mm (X360/X400)
- Roller geared B-axis swivel head for high rotating speed with high rigidity
- Turning spindle with 8" / 10" chuck for X200/X260,
12" / 15" chuck for X360/X400
- Milling spindle 12000 rpm with HSK-T63 tooling
- ATC 40 tools (X200/X260) / 60 tools (X360/X400)



VMT-X200/X260 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 with 8" chuck for X200, 10" chuck for X260
- Milling spindle 12000 rpm / HSK-T63 implements 4+1 axis machining in one set up

Capacity (X/Y/Z)

Travels

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

Rapid feeds

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

ATC-40 tools

- 3.3 sec. (Tool-Tool)
- 7.5 sec. (Chip-Chip)

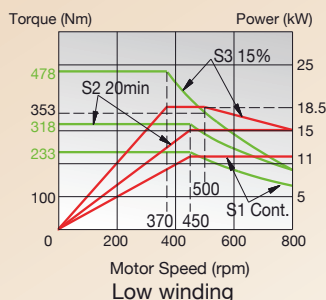
Roller type guideways

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

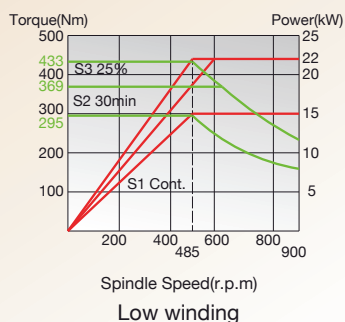
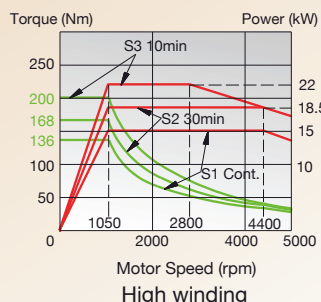
C-axis & Turning Spindle

- 8" chuck / 4200 rpm (X200)
- 15 kW (twin spindles)
- Bar capacity 52 mm (opt. 66 mm)
- 10" chuck / 3500 rpm (X260)
- 22 kW + 15 kW (subspindle, 8" chuck)
- Bar capacity 75 mm (subspindle: 66 mm)

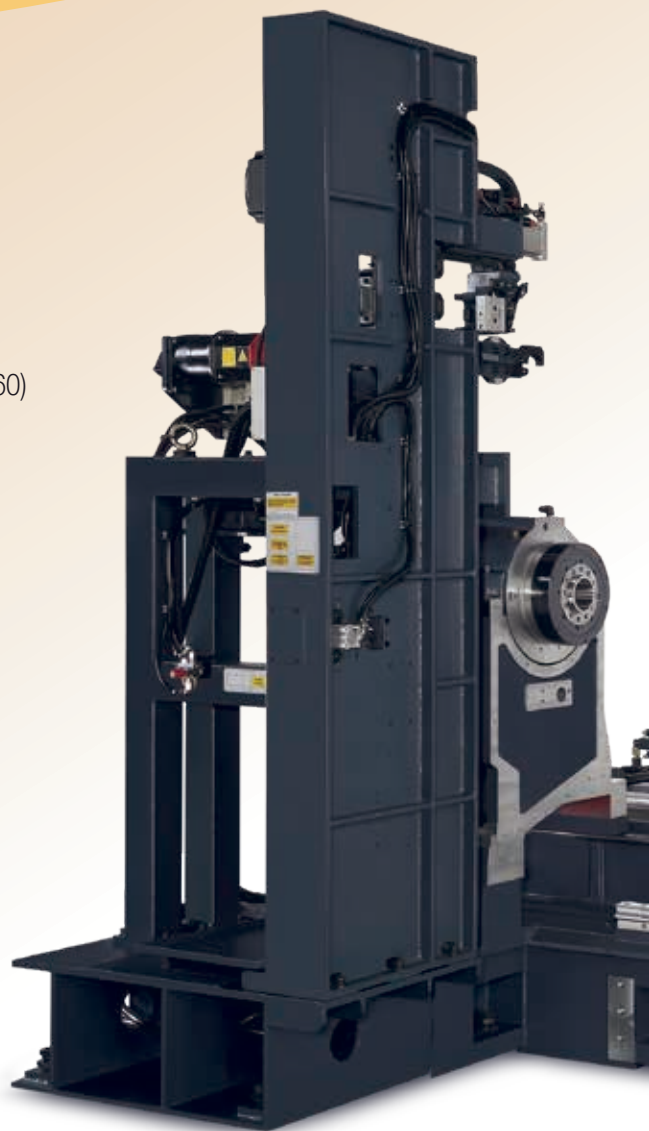
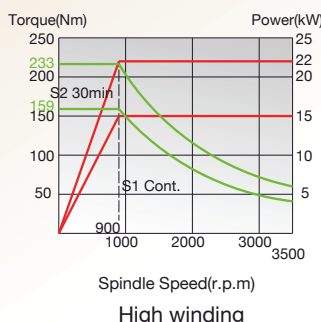
S1 Continuous operating zone
S2 30min operating zone



Fanuc Bil 180M/6000 (X200)



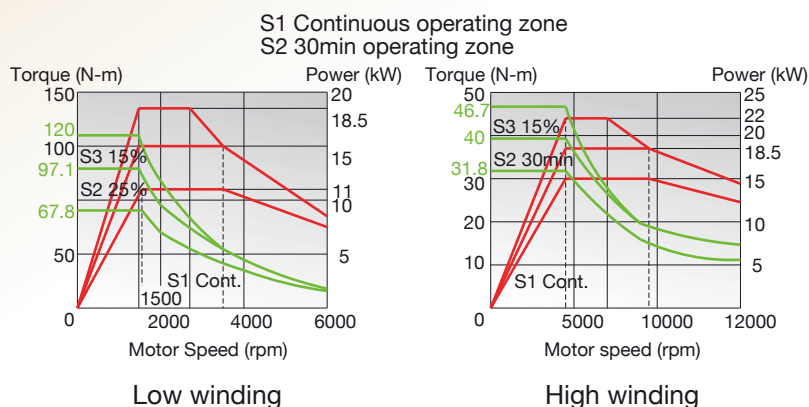
Fanuc Bil 200M/6000 (X260)



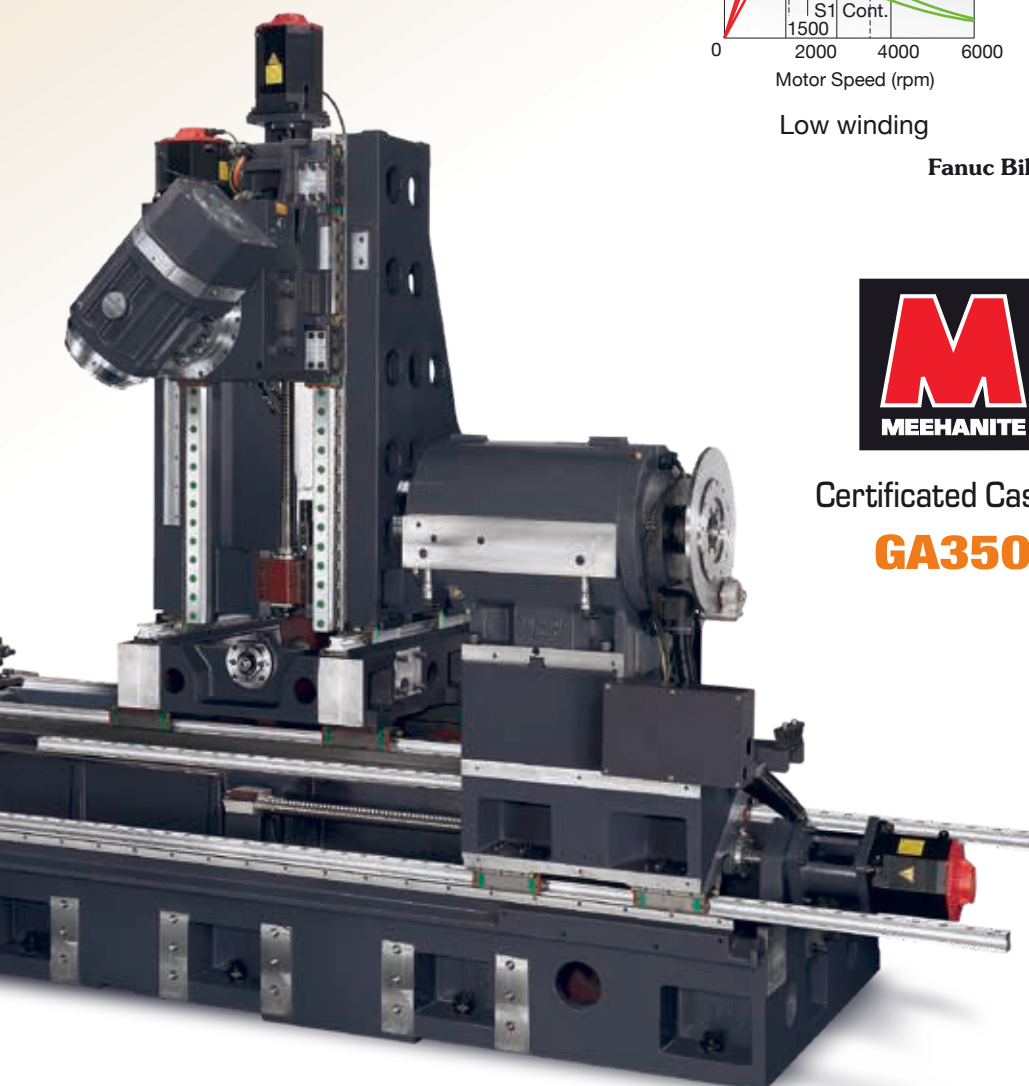


B-axis & Milling Spindle

- 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-5 with built-in bearings
- Available with the right spindle (optional)



VMT-X360/X400 Multi-tasking 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 with 12" chuck for X360, 15" chuck for X400
- Milling spindle 12000 rpm / HSK-T63 implements 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

- 3.3 sec. (Tool-Tool)
- 8.5 sec. (Chip-Chip)

Rapid feeds

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

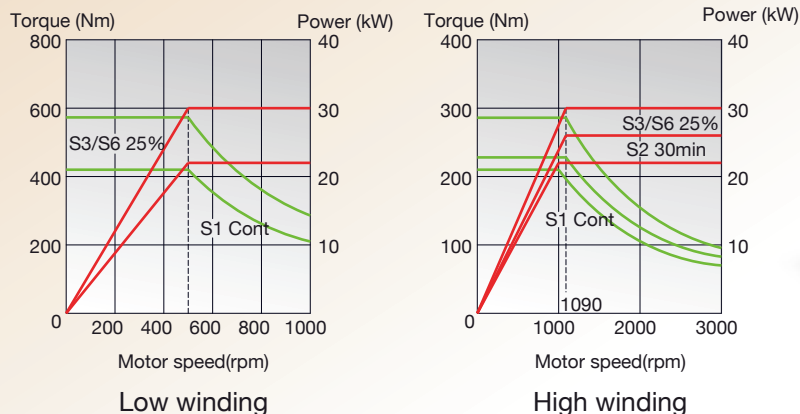
Roller type guideways

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

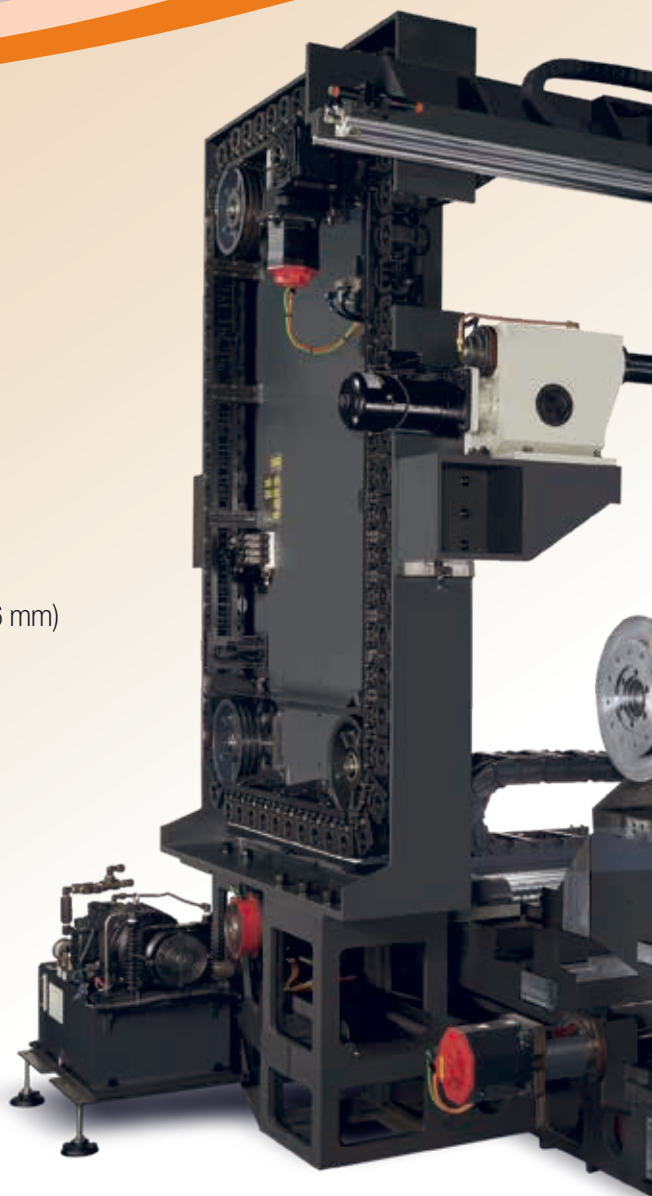
C-axis & Turning Spindle

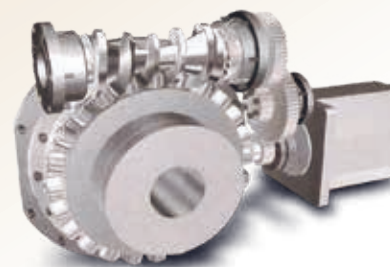
- 12" chuck / 3000 rpm (X360)
- 30 kW (twin spindles)
- Bar capacity 91 mm (opt. 106 mm)
- 15" chuck / 2500 rpm (X400)
- 30 kW (twin spindles)
- Bar capacity 91 mm (opt. 106 mm)

S1 Continuous operating zone
S2 30min operating zone



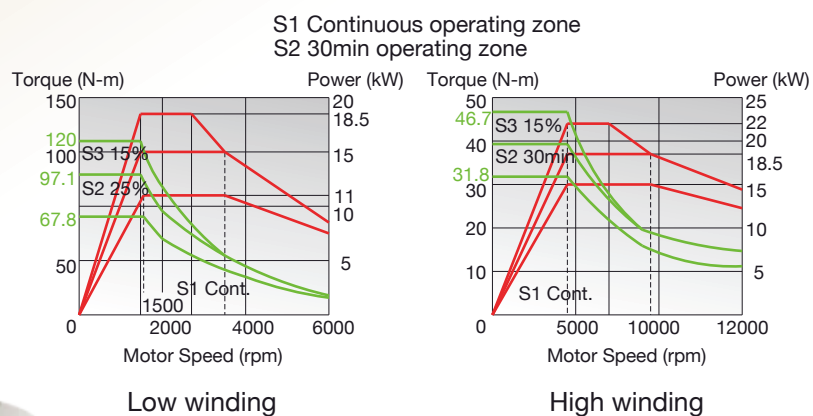
Fanuc Bil 250S





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%)



Fanuc Bil 132S/15000



Certificated Casting

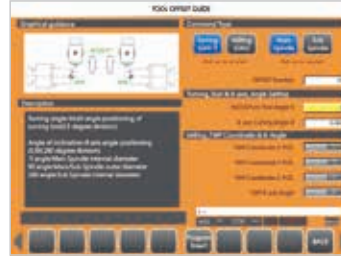
GA350

Digital Tailstock

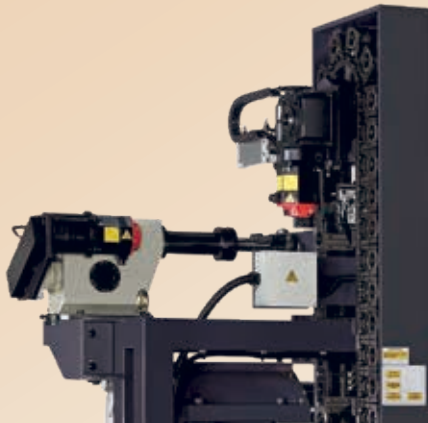
- E-axis servo driven
- MT-5 with built-in bearings
- Available with the right spindle (optional) with the same output as the left spindle

Standard accessories

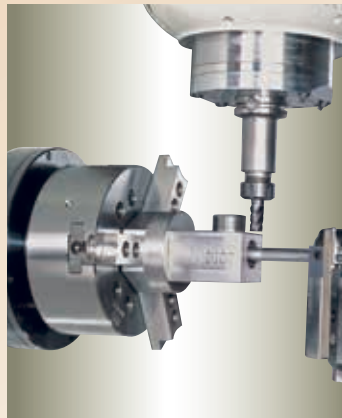
Fanuc Oi-TF Plus (15", type-O) control with Touch Panel + MGI + AICC (40 blocks) + Victor's GUI + Fanuc's GUI (iHMI)



Victor's GUI with guidance



ATC (Auto Tool Changer)



Hydraulic chuck



Chip conveyor



Lube Hybrid Lubrication



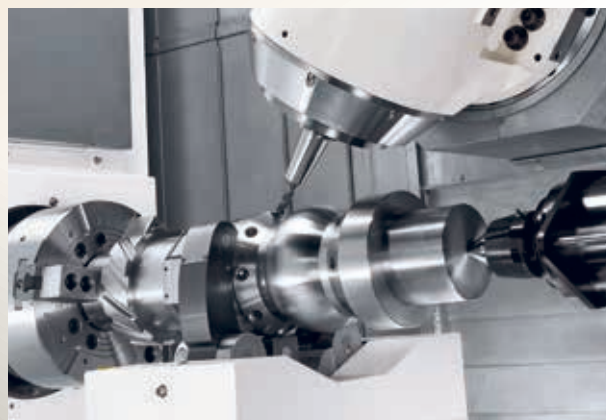
ATP



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-X260	VMT-X360 VMT-X400
Capacity	Swing over bed	mm	660	1120
	Between centers	mm	1376	2148
	Max. turning length	mm	1075	2100
	Max. turning diameter	mm	500 (tool length 70)	720 (tool length 70)
Travels	X1-axis (upper tool spindle)	mm	635 (+510 / -125)	840 (+715 / -125)
	Z1-axis (upper tool spindle)	mm	1170 (95 + 1075)	2230 (130 + 2100)
	Y-axis (upper tool spindle only)	mm	260 (± 130)	420 (± 210)
	B-axis	deg.	240 (-30~+ 210)	240 (-30~+210)
	E-axis (tailstock / sub-spindle)	mm	1080	1960
Axis feed	X1 / Z1 / Y / E / B-axis feed	m/min	36 / 36 / 36 / 24 / (30 rpm)	36 / 36 / 36 / 24 / (30 rpm)
	X1 / Z1 / Y / E / B-axis motor power	kW	5.5 / 7 / 4 / 2.5 / 3	9 / 9 / 7 / 2.5 / 4
	Ball screw dia. x pitch	mm	X1: 40 x P10, Z1/Y/E: 40 x P12	X1/Y: 45 x P16, Z1: 55 x P20, E: 45 x P16
Main spindle	1 st spindle nose (chuck)	inch	A2-6 (8") A2-8 (10")	A2-11 (12") A2-11 (15", opt. 18")
	1 st spindle speed	rpm	4200 (opt. 5000) 3500	3000 2500
	1 st spindle motor power (cont. / 30 min / 15%)	kW	15 / 18.5 / 22 (high winding) 15 / 22 / - (high winding)	22 / 26 / 30 (high winding)
	Spindle bore	mm	76 86	116
	Bearing inside diameter	mm	110 130	160
	Bar capacity	mm	52 (opt. 66) 75 (opt. 77)	91 (opt. 106)
	Bar capacity	mm	52 (opt. 66) 66	91 (opt. 106)
Subspindle	2 nd spindle nose (chuck)	inch	A2-6 (8") A2-6 (8")	A2-11 (12") A2-11 (15", opt. 18")
	2 nd spindle speed	rpm	4200 (opt. 5000) 4000	3000 2500
	2 nd spindle motor power (cont. / 30 min / 15%)	kW	15 / 18.5 / 22 (high winding)	22 / 26 / 30 (high winding)
	Spindle bore	mm	62 (opt. 76) 76	116
	Bearing inside diameter	mm	100 (opt. 110) 110	160
	Bar capacity	mm	52 (opt. 66) 66	91 (opt. 106)
Upper milling spindle (B-axis milling head)	Turret type	rpm	Milling head with ATC	Milling head with ATC
	Continuous indexing resolution	deg.	0.001 (by roller gear)	0.001 (by roller gear)
	Max. speed	rpm	12000	12000
ATC & tool magazine	Milling motor power (cont. / 30min / 25%)	kW	15 / 18.5 / 22 (high winding)	15 / 18.5 / 22 (high winding)
	Tool specification	-	HSK-T63	HSK-T63
	Tool capacity	-	40 (opt. 48, 60)	60
	Tool selection	-	Fixed tool pot number	Fixed tool pot number
	Max. tool diameter (w/t adjacent tool)	mm	90 (125)	100 (150)
	Max. tool length	mm	300	400
	Max. tool weight	kg	7	7
	Tool exchange time	sec.	3.3 (T-T), 7.5 (C-C)	3.3 (T-T), 8.5 (C-C)
Tailstock	Quill diameter	mm	NA (digital)	NA (digital)
	Quill stroke	mm	NA (digital)	NA (digital)
	Quill taper		MT-5 (live)	MT-5 (live)
Machine	Controller	Fanuc	0i-TF Plus (15", type 0)	0i-TF Plus (15", type 0)
	Tank capacity	L.	300	750
	Floor requirement (incl. chip conveyor)	mm	5437 x 3034 x 2906	7945 x 3316 x 3320
	Power requirement	kVA	57 (74)	66 (90)
	Net weight	kg	12000 12500	23500 23600

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)
- 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
- Part catcher (X200/X260)
- 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

DESCRIPTION

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.

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

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

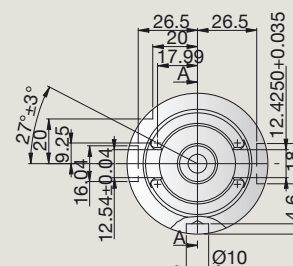
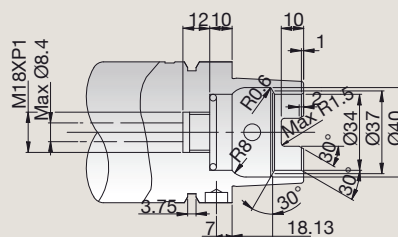
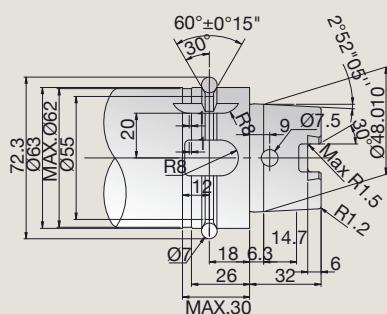
1.	Part Program Storage Length (in total)	5120m / 2MB
2.	Number of Registerable programs (in total)	1000
3.	Part Program Editing	Std.
4.	Memory card program (1000 programs)	Std.

DESCRIPTION

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)	☐

8.	Circular thread cutting	☐
9.	AICC-2 (G5.1 Q1, 200 blocks)	☐
10.	Helical interpolation	☐
11.	Arbitrary speed threading	☐
12.	Hob machining package	☐

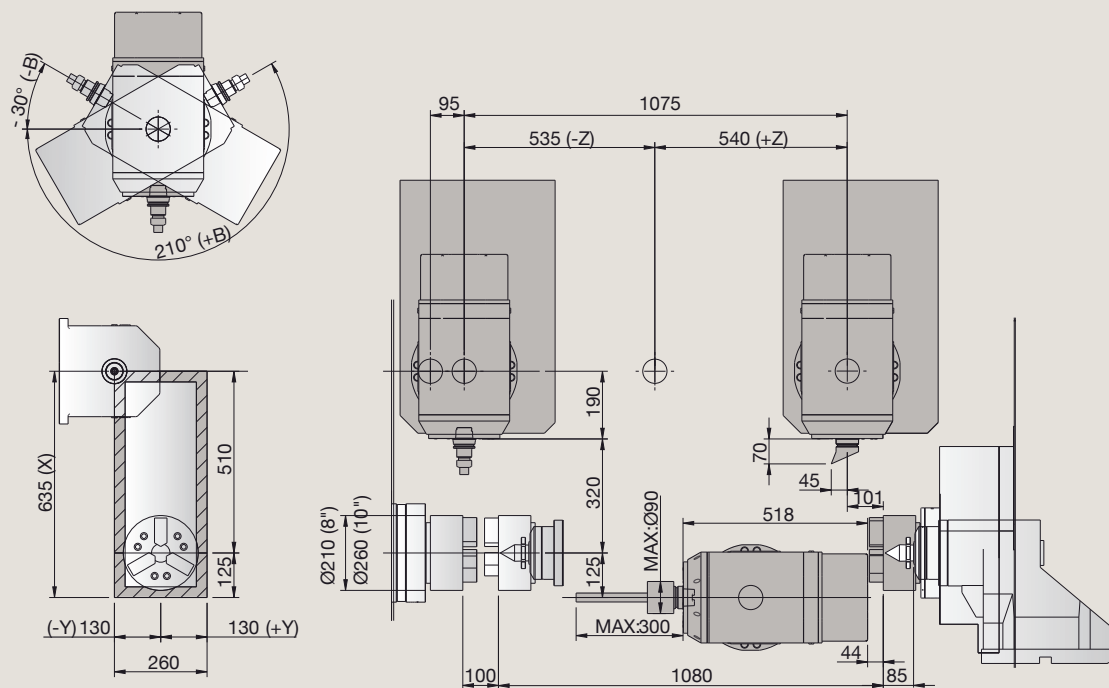
HSK-T63



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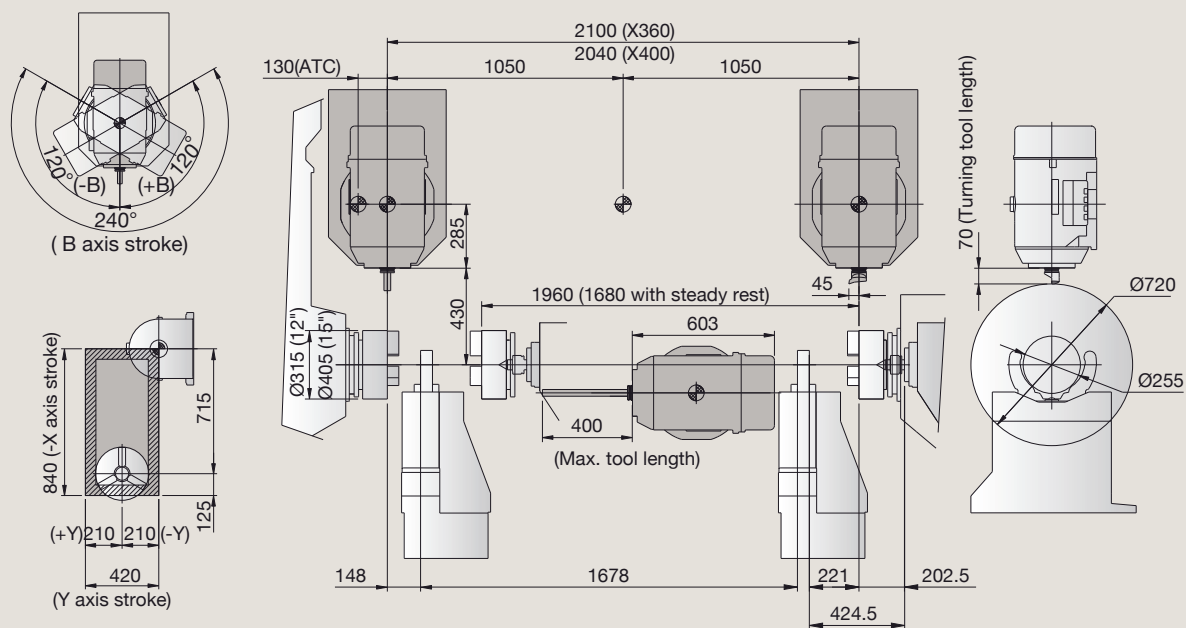
Machining Range

VMT-X200/X260



Unit: mm

VMT-X360/X400

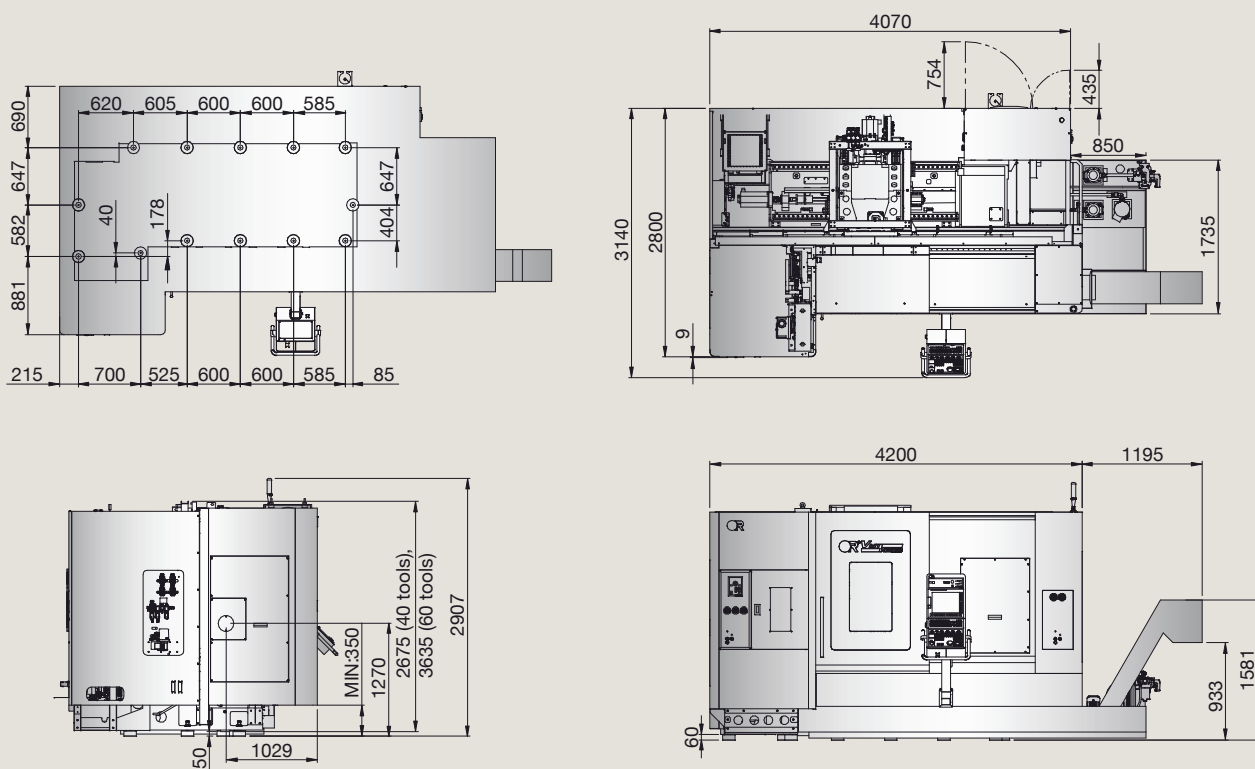


Unit: mm

Machine Layout

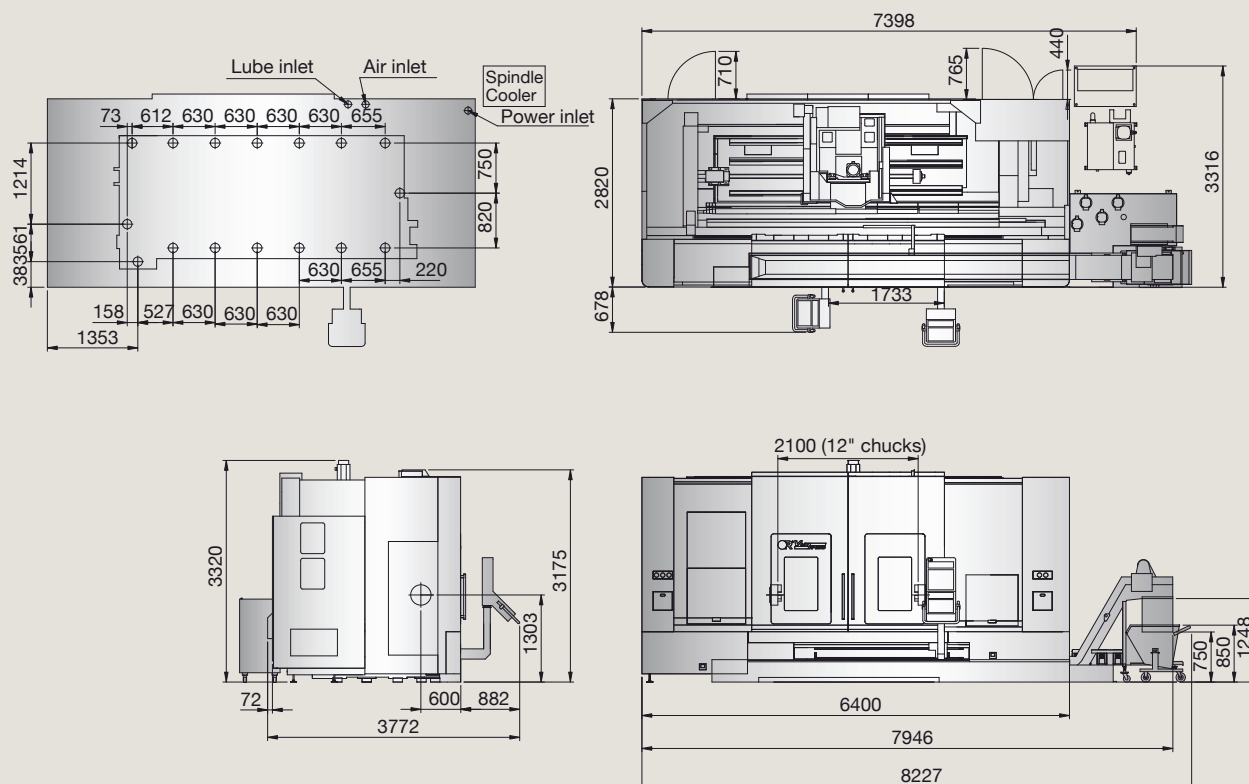


VMT-X200/X260



Unit: mm

VMT-X360/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 207 mil's (in 2021)*
No. of employees: 778
*Exchange rate: 1 USD=28 TWD.



THE VICTOR-TAICHUNG COMPANIES

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HTL



VTL



VMC



HMC



XMT



PIM