

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

C-axis & Turning Spindle

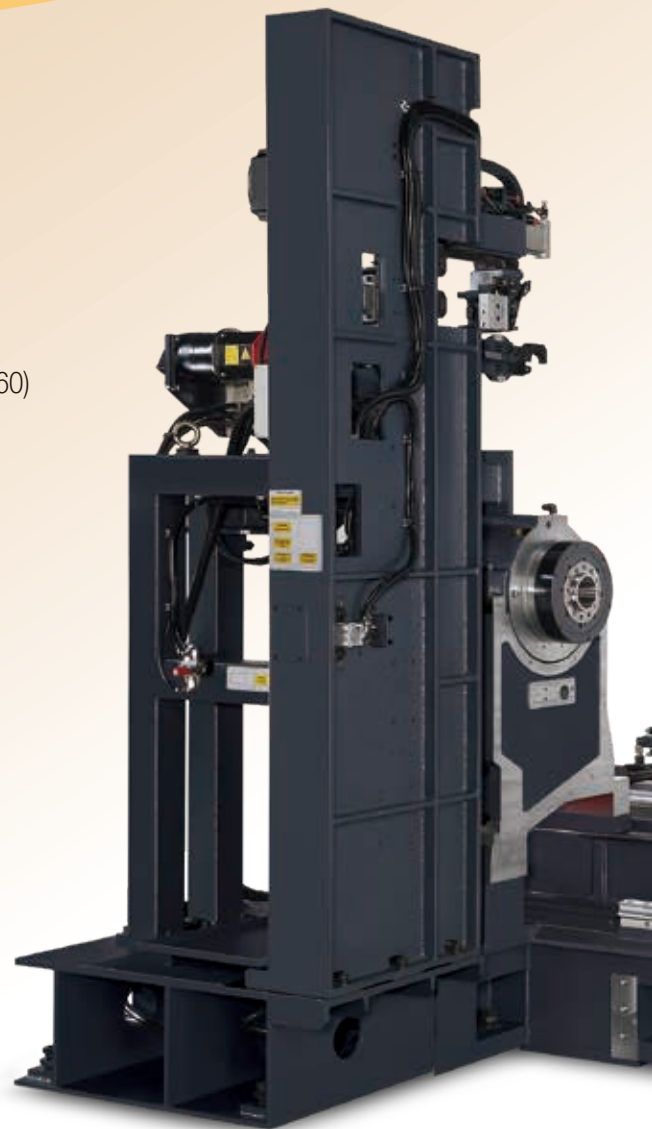
- 8" chuck / 4200 rpm (X200)
- 15 kW (twin spindles)
- Bar capacity 52 mm (opt. 66 mm)
- 10" chuck / 3500 rpm (X260)
- 22 kW + 15 kW (subspindle, 8" chuck)
- Bar capacity 75 mm (subspindle: 66 mm)

ATC-40 tools

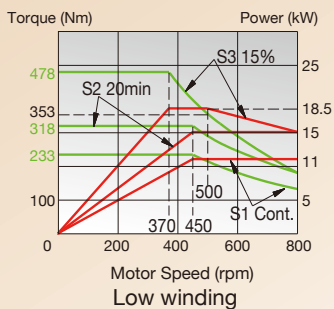
- 3.3 sec. (Tool-Tool)
- 7.5 sec. (Chip-Chip)

Roller type guideways

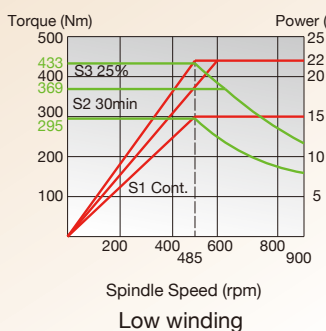
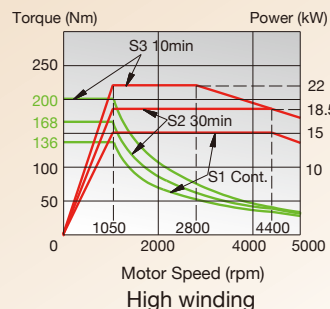
- 45 / 45 / 45 mm
- 1.8" / 1.8" / 1.8"



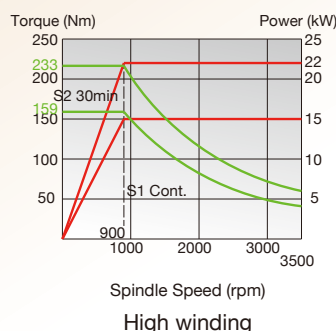
S1 Continuous operating zone
S2 30min operating zone



Fanuc Bil 180M/6000 (X200)



Fanuc Bil 200M/6000 (X260)



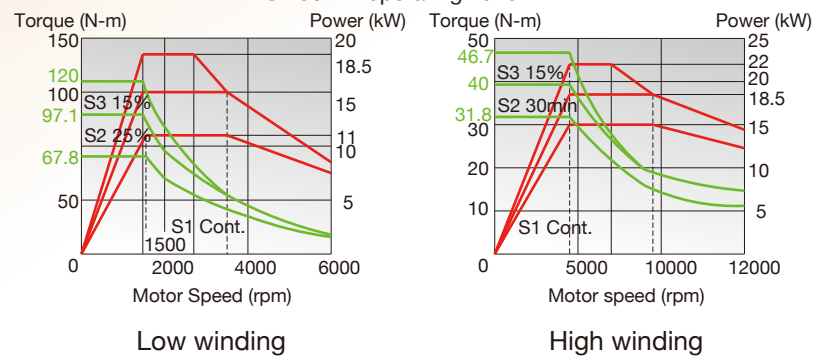


B-axis & Milling Spindle

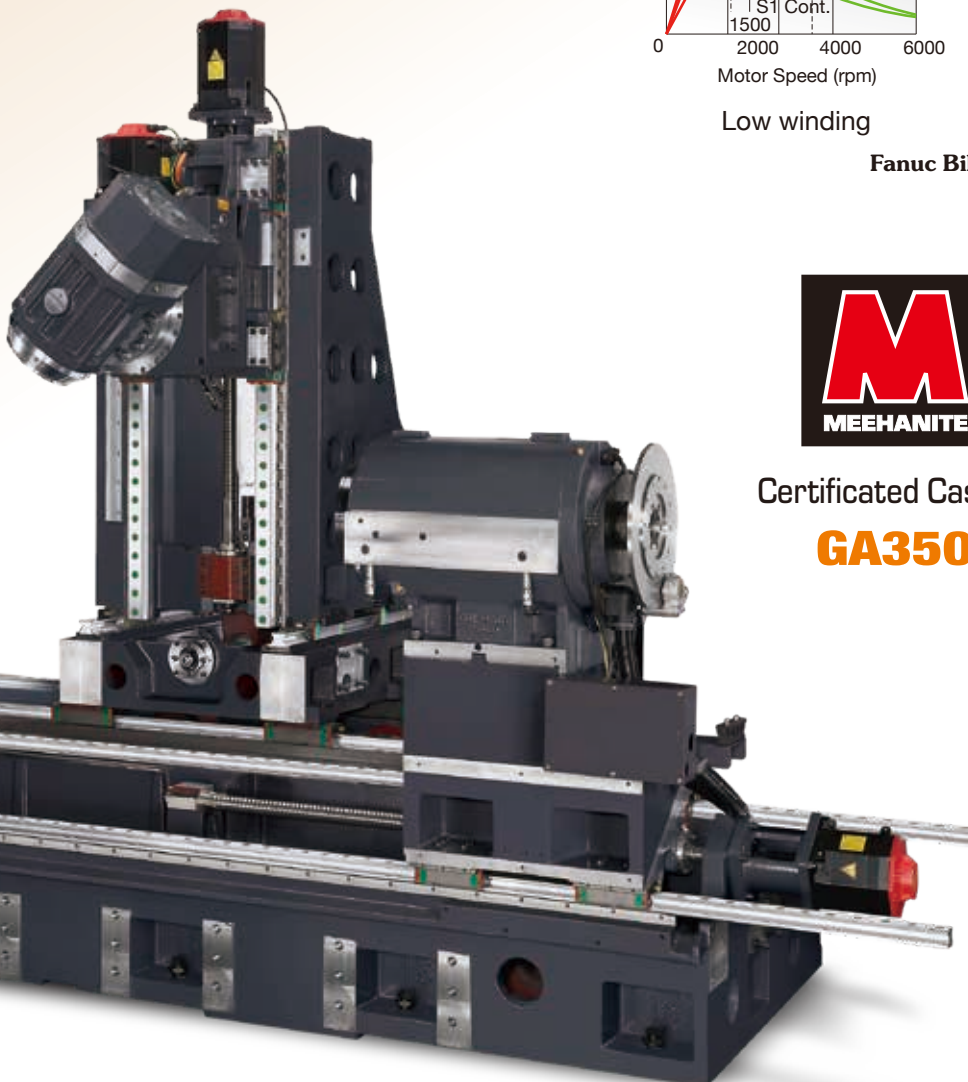
- Roller cam mechanism
- 15 degree indexing for milling spindle (ready for multi-taking flash tool)
- 12000 rpm grease lubricated spindle for HSK-T63 tooling
- 22 kW (30 HP) (S3-25%)



S1 Continuous operating zone
S2 30min operating zone



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

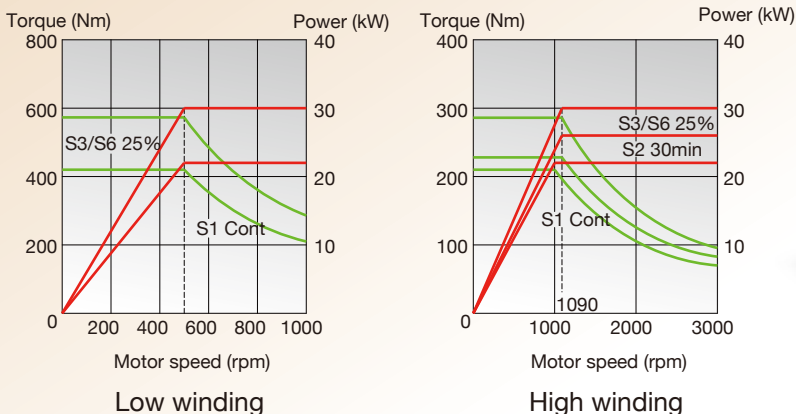
Roller type guideways

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

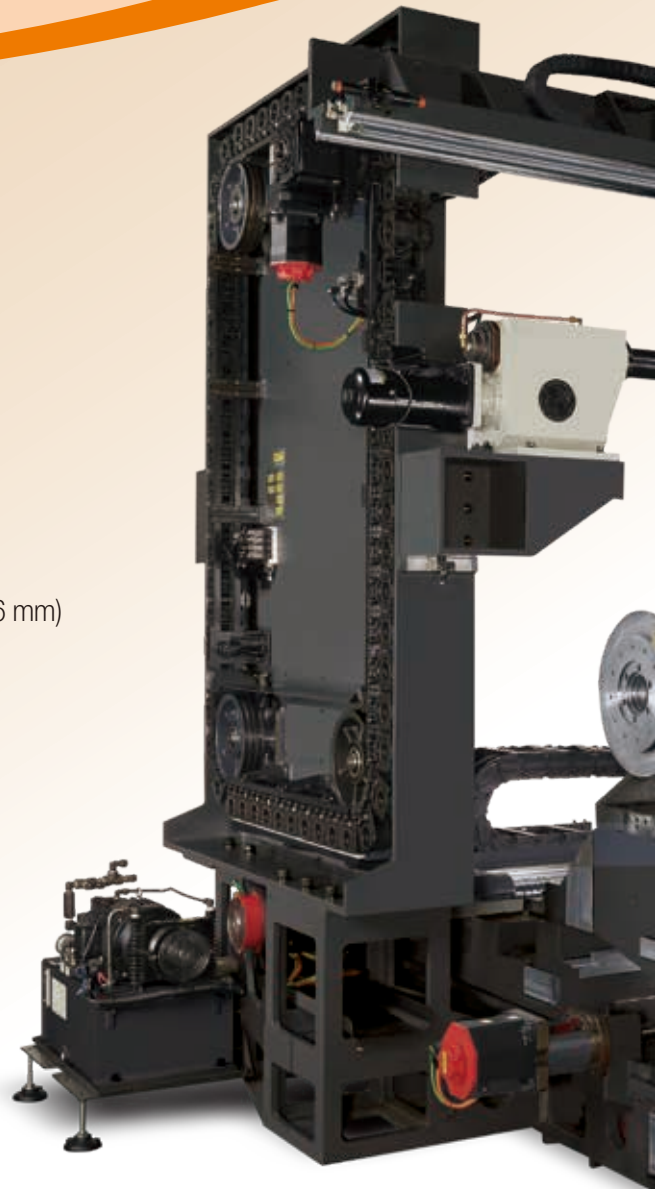
C-axis & Turning Spindle

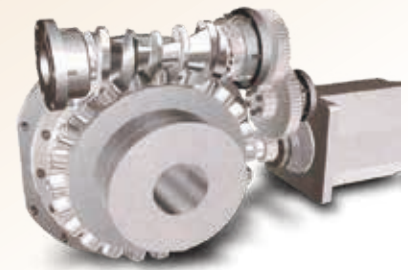
- 12" chuck / 3000 rpm (X360)
- 30 kW (twin spindles)
- Bar capacity 91 mm (opt. 106 mm)
- 15" chuck / 2500 rpm (X400)
- 30 kW (twin spindles)
- Bar capacity 91 mm (opt. 106 mm)

S1 Continuous operating zone
S2 30min operating zone



Fanuc Bil 250S

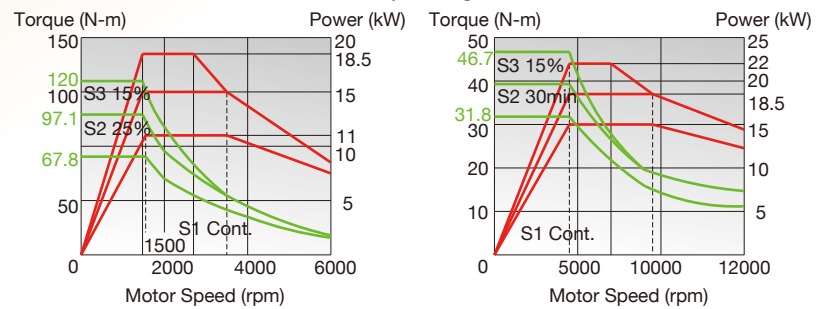




B-axis & Milling Spindle

- 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%)

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-5 with built-in bearings
- Available with the right spindle (optional) with the same output as the left spindle

Standard accessories

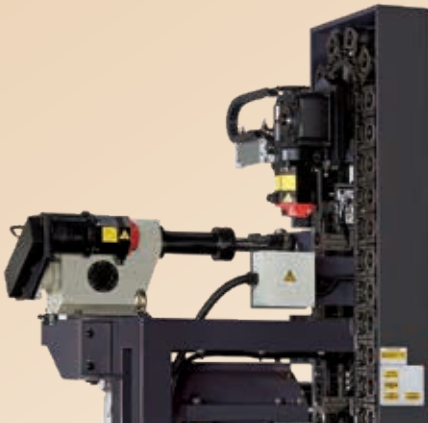
Fanuc Oi-TF Plus (15", type-O) control with Touch Panel + MGI + AICC (40 blocks) + Victor's GUI + Fanuc's GUI (iHMI)



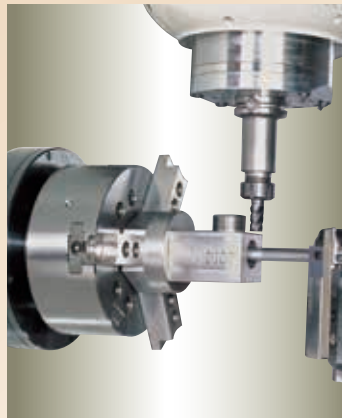
Victor's GUI with guidance



Fanuc iHMI



ATC (Auto Tool Changer)



Hydraulic chuck



Chip conveyor



Lube Hybrid Lubrication



ATP



Optional accessories



Siemens SINUMERIK ONE (19") for full 5-axis control



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 | 1120 |
| | Between centers | mm | 2148 |
| | Max. turning length | mm | 2100 |
| | Max. turning diameter | mm | 720 (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 / 5.5 / 3.55 / 3.05 / 3.55 [Siemens] |
| | 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") A2-8 (10") |
| | 1 st spindle speed | rpm | 4200 (opt. 5000) 3500 |
| | 1 st spindle motor power (cont. / 30 min / 15%) | kW | 15 / 18.5 / 22 [Fanuc], 22 / 26.4 / 36.3 [Siemens] |
| | Spindle bore | mm | 76 86 |
| | Bearing inside diameter | mm | 110 130 |
| | Bar capacity | mm | 52 (opt. 66) 75 (opt. 77) |
| | 2 nd spindle nose (chuck) | inch | A2-6 (8") A2-6 (8"), opt. A2-8 (10") |
| Subspindle | 2 nd spindle speed | rpm | 4200 (opt. 5000) 4000 (opt. 3500) |
| | 2 nd spindle motor power (cont. / 30 min / 15%) | kW | 15 / 18.5 / 22 [Fanuc], 22 / 26.4 / 36.3 [Siemens] |
| | Spindle bore | mm | 62 (opt. 76) 76 (opt. 86) |
| | Bearing inside diameter | mm | 100 (opt. 110) 110 (opt. 130) |
| | Bar capacity | mm | 52 (opt. 66) 66 (opt. 75) |
| | Upper milling spindle (B-axis milling head) | rpm | Milling head with ATC |
| Continuous indexing resolution | deg. | 0.001 (by roller gear) | |
| Max. speed | rpm | 12000 | |
| Milling motor power (cont. / 30min / 25%) | kW | 15 / 18.5 / 22 (Fanuc) 11 / 15 / 18.5 (Siemens) | |
| ATC & tool magazine | Tool specification | - | HSK-T63 |
| | Tool capacity | - | 40 (opt. 48, 60) |
| | Tool selection | - | Fixed tool pot number |
| | Max. tool diameter (w/t adjacent tool) | mm | 90 (125) |
| | Max. tool length | mm | 300 |
| | Max. tool weight | kg | 7 |
| Tailstock | Tool exchange time | sec. | 3.3 (T-T), 7.5 (C-C) |
| | Quill diameter | mm | NA (digital) |
| | Quill stroke | mm | NA (digital) |
| | Quill taper | mm | MT-5 (live) |
| Machine | Controller | Fanuc | [Fanuc] Oi-TF Plus (15", type 0) [Siemens] SINUMERIK ONE (19") |
| | Tank capacity | L. | 300 |
| | Floor requirement (incl. chip conveyor) | mm | 5437 x 3034 x 2906 |
| | Power requirement | kVA | 57 (74 with subspindle) [Fanuc] 61 (86 with subspindle) [Siemens] |
| | Net weight | kg | 12000 12500 |

Standard accessories

- Fanuc Oi-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
- Siemens ONE (19") control

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 |

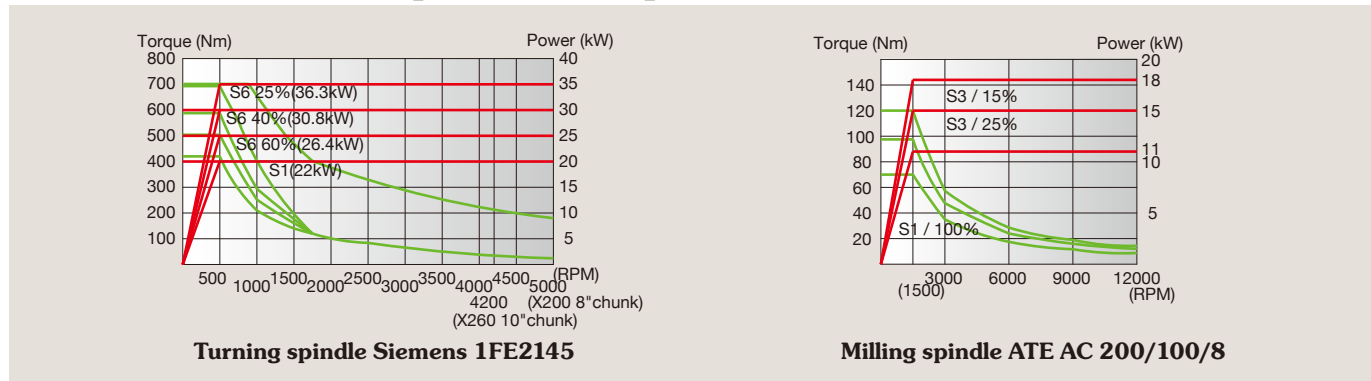
Edit Operation:

| | | |
|----|--|-------------|
| 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 (1000 programs) | Std. |

OPTIONS:

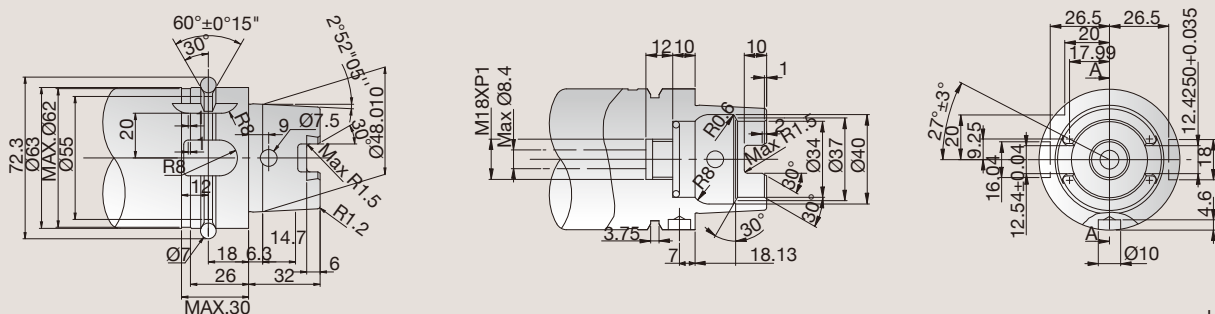
| ITEM | SPECIFICATION | DESCRIPTION |
|-----------------------------------|--|--------------------------|
| With hardware included: | | |
| 1. | Tool life management | <input type="checkbox"/> |
| 2. | Program restart | <input type="checkbox"/> |
| 3. | Data server (with PCB and CF card 1GB) | <input type="checkbox"/> |
| 4. | Ethernet/IP (to be linked to robot) | <input type="checkbox"/> |
| 5. | PROFIBUS-DP (to be linked to robot) | <input type="checkbox"/> |
| 6. | CC-Link (to be linked to robot) | <input type="checkbox"/> |
| 7. | Fast Ethernet (required for SCADA Web with additional RJ45 port) | <input type="checkbox"/> |
| Without hardware included: | | |
| 8. | Circular thread cutting | <input type="checkbox"/> |
| 9. | AICC-2 (G5.1 Q1, 200 blocks) | <input type="checkbox"/> |
| 10. | Helical interpolation | <input type="checkbox"/> |
| 11. | Arbitrary speed threading | <input type="checkbox"/> |
| 12. | Hob machining package | <input type="checkbox"/> |

Vmt-X200/X260 Spindle Output with SINUMERIK ONE control



Tool Shank

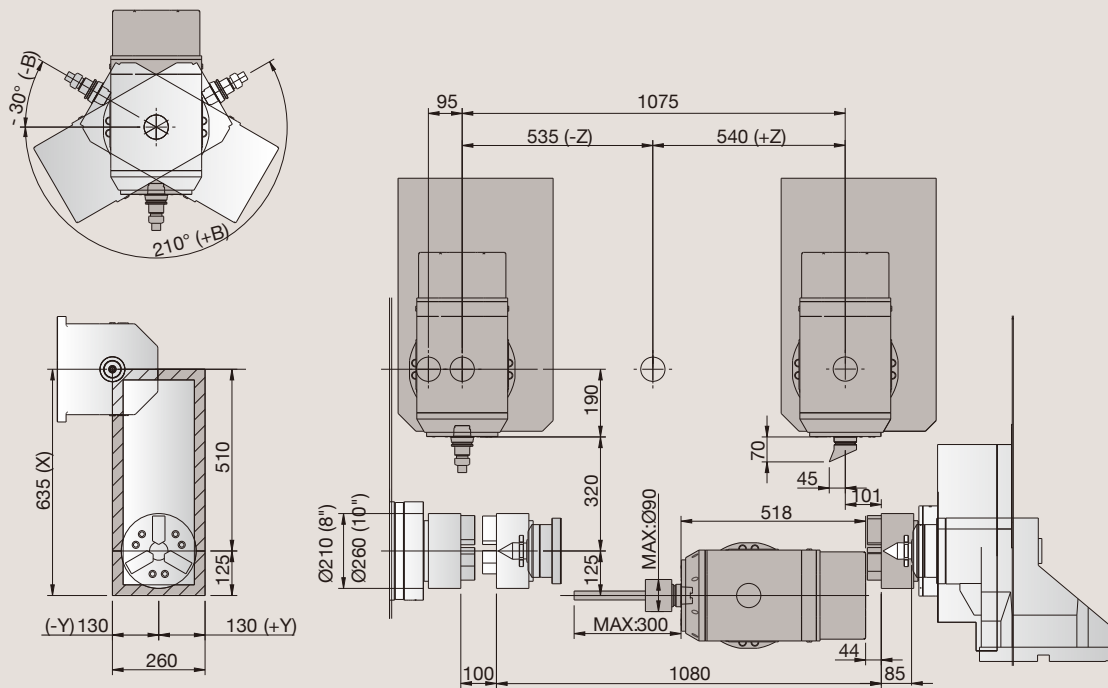
HSK-T63



Unit: mm

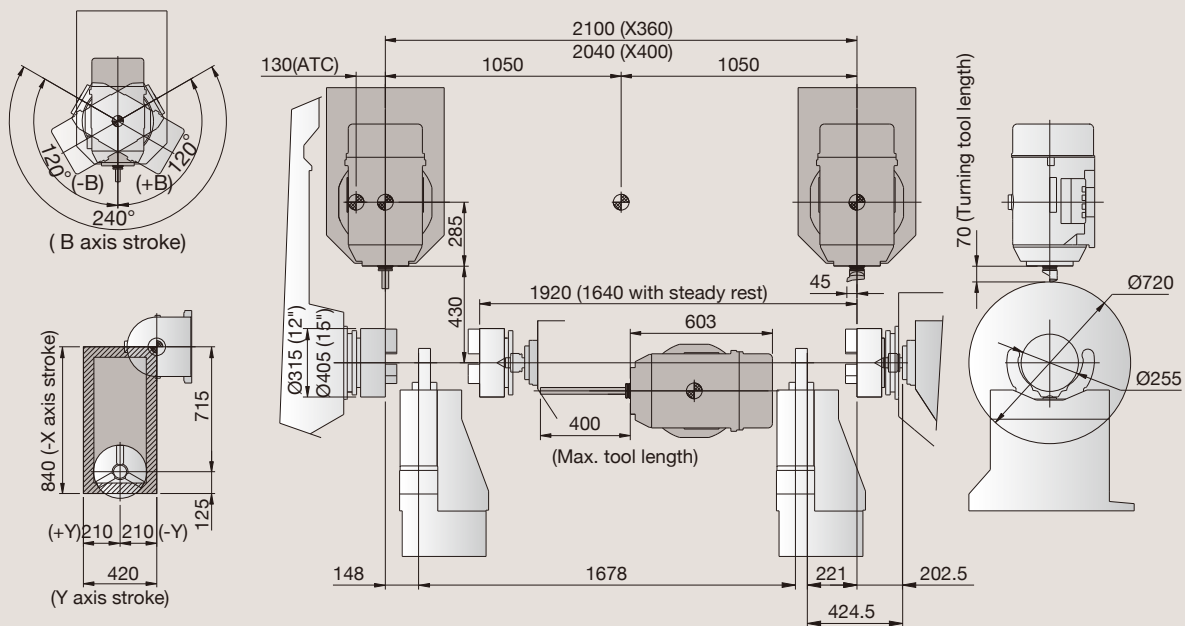
Machining Range

VMT-X200/X260



Unit: mm

VMT-X360/X400

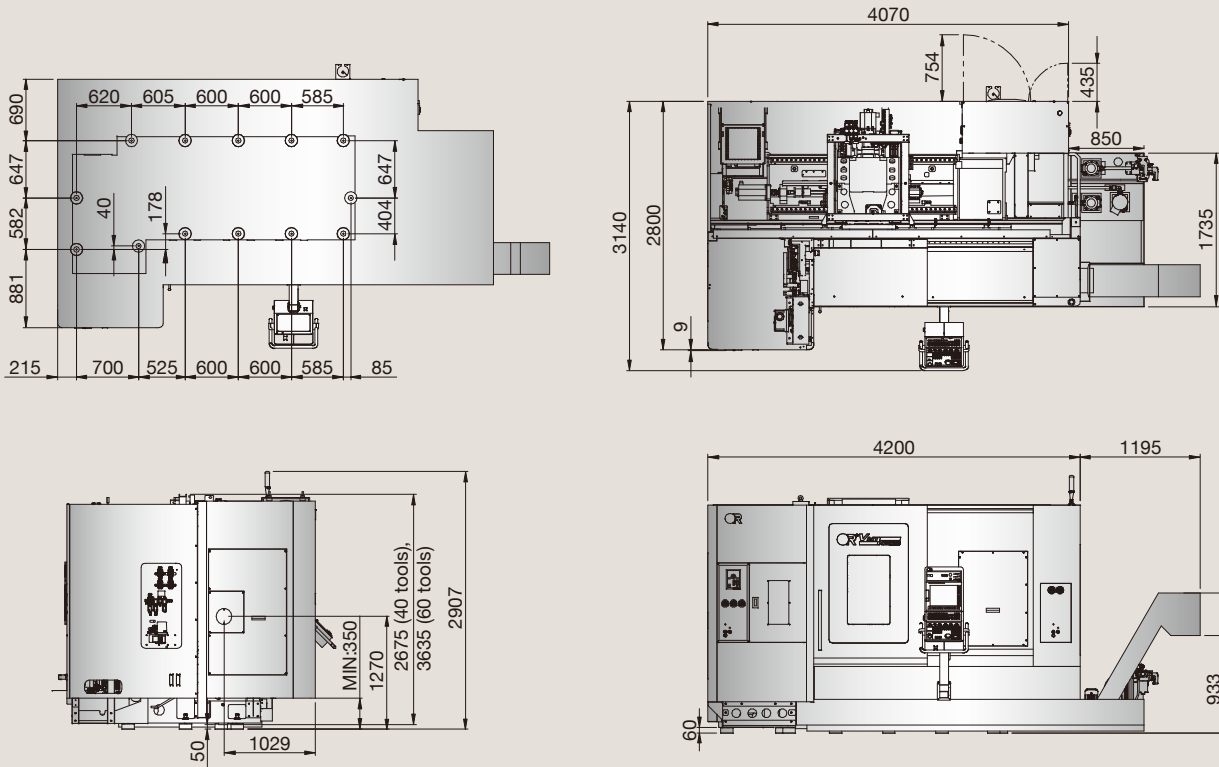


Unit: mm

Machine Layout

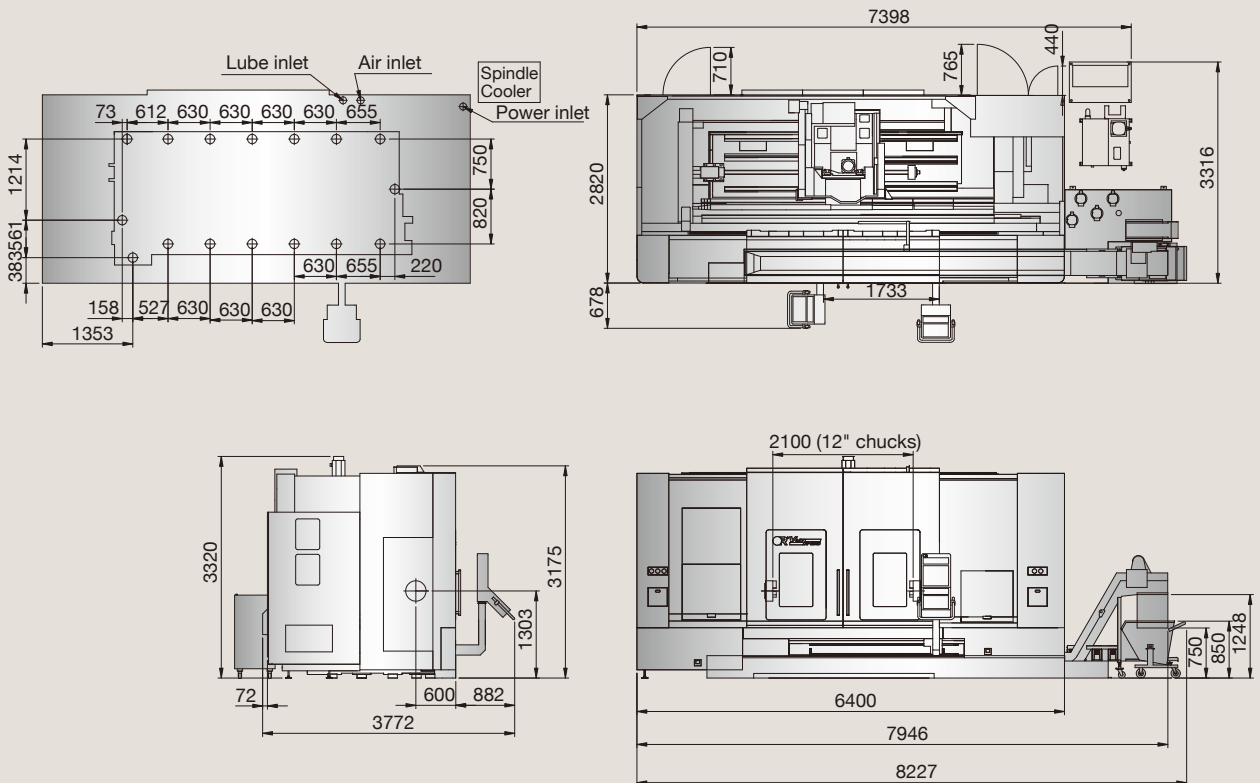


VMT-X200/X260



Unit: mm

VMT-X360/X400



Unit: mm



Worldwide Subsidiaries



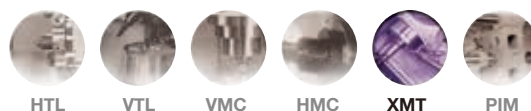
ONWARD RISE

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 190 mil's (in 2022)*
 No. of employees: 764
 *Exchange rate: 1 USD=30 TWD.
 

THE VICTOR-TAICHUNG COMPANIES



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 FAX : 886-4-23593389

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 FAX : 33-1-64772063

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- Victor GmbH
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