

*First machine for CNC Turning*

# VTURN F20/F26



Victor Taichung – an established ISO 9001, 14001 & 45001 company



# Vturn-F20/F26

## Your First CNC Lathe with Fantastic Performance

- Genuine 30° slant bed in one piece with box slideways
- Shortened belt driven spindle for lower noise and heats
- Z-axis ball screw diameter 40mm
- 8" / 10" chuck for Vturn-F20/F26
- Programmable tailstock and chip conveyor included



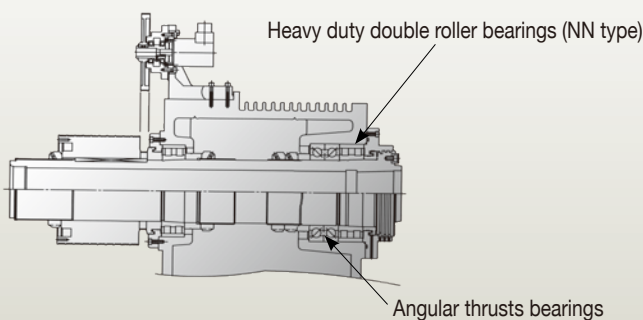
### 3-jaw Power chuck

- Renowned reliability chuck is foot operated for safety and easy operation.



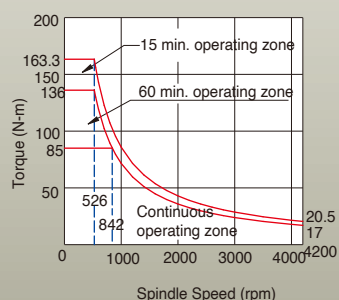
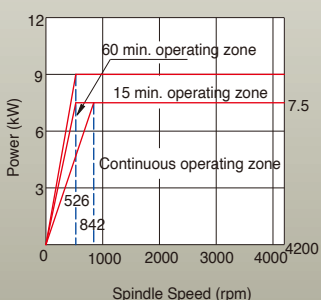
### High rigidity & high precision spindle

- Encased in well ribbed headstock for maximum heat dissipation.
- Angular thrust bearings absorb axial cutting force and NN-type roller bearings facilitate heavy cutting.

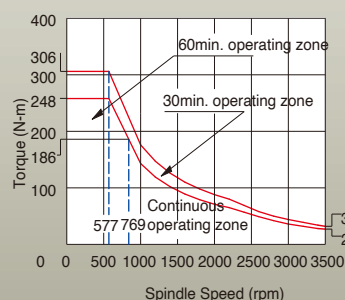
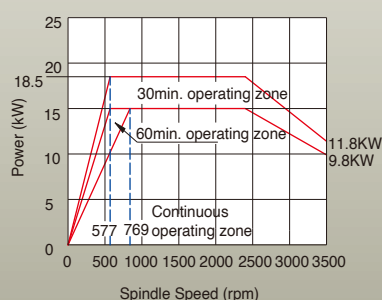


### Spindle Output Diagram

Vturn-F20

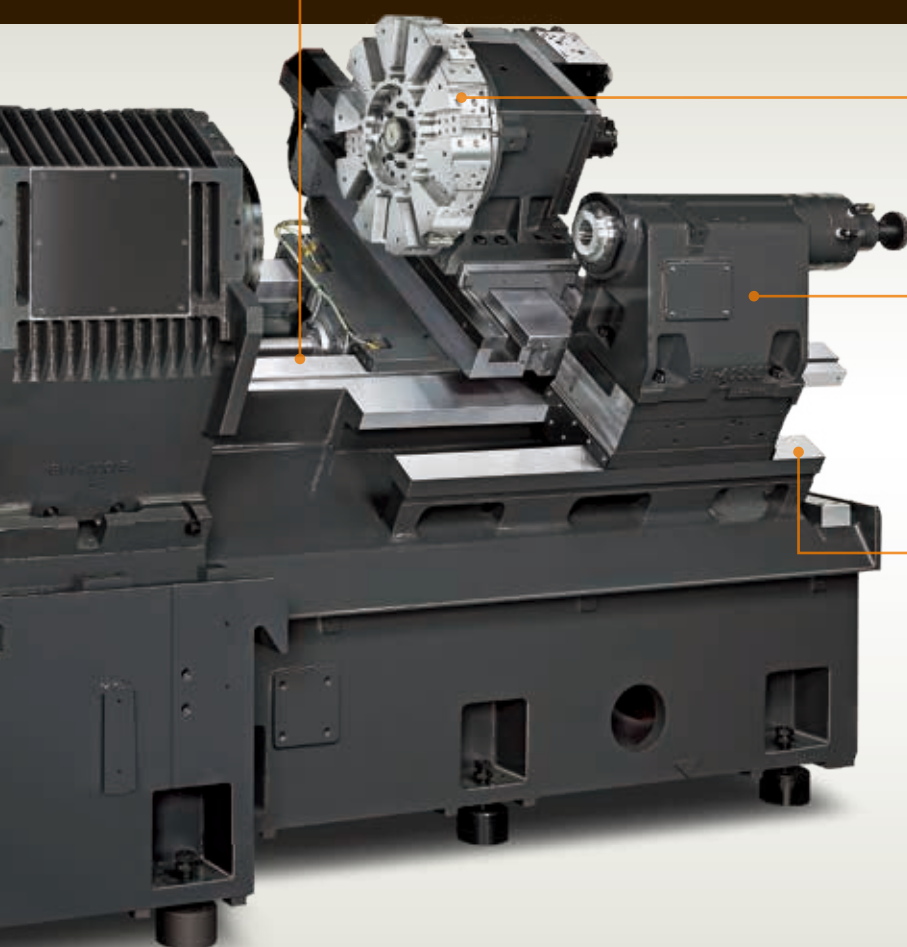


Vturn-F26





## Certificated Casting GA350



### • Hardened Box Slideways (X/Z)

- 55/70 mm for Vturn-F20
- 64/80 mm for Vturn-F26
- Victor Taichung's own casting

### • Victor Taichung's own turret

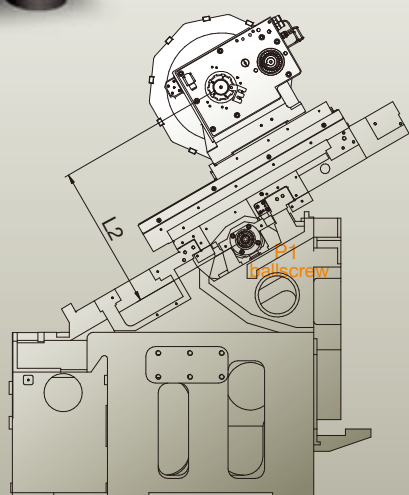
- Hydraulic clamping for high rigidity
- Coupling inside for high indexing accuracy

### • Programmable Tailstock

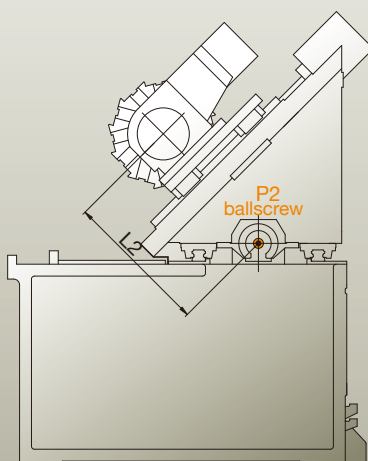
- Smooth tow-along action by turret and programmable by M-code control.
- MT-4 (F20) / MT-5 (F26) without built-in bearing.

### • Genuine 30° slant bed

- Vturn-F20/F26 lathes have the Z-axis ballscrew mounted on the slant bed (P1) instead of machine base (P2) to minimize the distance from ballscrew to the tool insert and thus upgrades the turret and carriage stiffness.
- Shortened belt design reduces vibration for longer service life on spindle.



Genuine



Fake

### Conventional design with long belts



# Standard and Options

- Fanuc 0i-TF Plus (type-3) control with 10.4" screen
- Programmable tailstock
- Coolant flush onto Z-axis covers
- Built-in LED light
- Pressure gauge in front
- Chip conveyor with front mounted coolant tank for easy clean-up



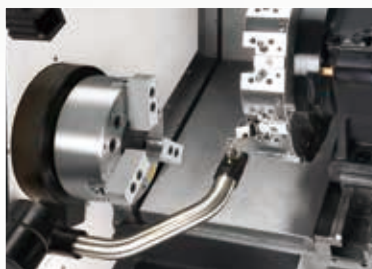
Chip conveyor (std.)



Coolant flush (std.)



Part catcher (opt.)



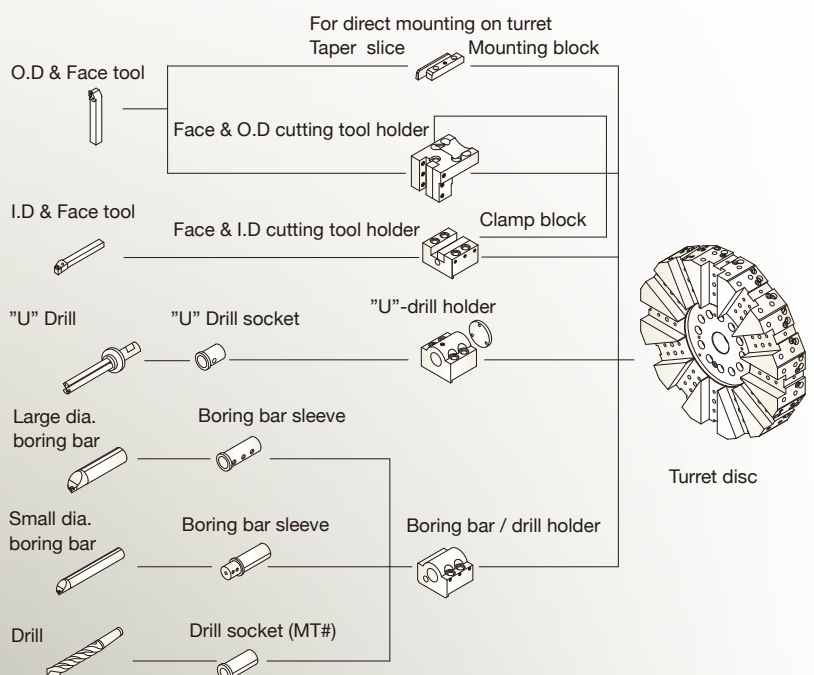
Tool presetter (opt.)



Oil skimmer (opt.)

## Tooling accessories (excl. BMT turret model)

| TOOLS \ MODEL                   | Vturn-F20      | Vturn-F26  |
|---------------------------------|----------------|------------|
| Tool shank for turret disk      | 25 mm (1")     | 25 mm (1") |
| Maximum boring bar dia.         | 40 mm (1 1/2") | 50 mm (2") |
| Face + OD cutting tool holder   | 1              | 1          |
| Face + I.D. cutting tool holder | 1              | 1          |
| <b>Boring bar holder</b>        |                |            |
| 40 mm (1 1/2")                  | 6              | 7          |
| 50 mm (2")                      | Opt.           | 1          |
| <b>Boring bar sleeve</b>        |                |            |
| 8 mm (5/16")                    | 1              | 1          |
| 10 mm (3/8")                    | 2              | 2          |
| 12 mm (1/2")                    | 2              | 2          |
| 16mm (5/8")                     | 2              | 2          |
| 20 mm (3/4")                    | 2              | 2          |
| 25 mm (1")                      | 2              | 2          |
| 32 mm (1 1/4")                  | 2              | 2          |
| 40 mm (1 1/2")                  | -              | -          |
| <b>Drill socket</b>             |                |            |
| MT1                             | 1              | Opt.       |
| MT2                             | 1              | 1          |
| MT3                             | 1              | 1          |
| MT4                             | Opt.           | 1          |
| <b>U drill socket</b>           |                |            |
| 20 mm                           | Opt.           | Opt.       |
| 25 mm (1")                      | 1              | 1          |
| 32 mm (1 1/4")                  | 1              | 1          |
| 40 mm (1 1/2")                  | -              | -          |





# Machine Specifications

| Item \ Model                     | unit   | Vturn-F20                  | Vturn-F26/60<br>Vturn-F26/110            |
|----------------------------------|--------|----------------------------|------------------------------------------|
| <b>CAPACITY</b>                  |        |                            |                                          |
| Swing over bed                   | mm     | 600                        | 600                                      |
| Std. turning dia.                | mm     | 230                        | 350                                      |
| Max. turning dia.                | mm     | 320                        | 430                                      |
| Swing over carriage              | mm     | 430                        | 480                                      |
| Center distance                  | mm     | 640                        | 640<br>1130                              |
| <b>AXIS FEEDS</b>                |        |                            |                                          |
| X axis travel                    | mm     | 160+20                     | 215+25                                   |
| Z axis travel                    | mm     | 600                        | 610<br>1100                              |
| Rapid feed - X/Z axis            | m/min  | 15 / 20                    | 15 / 20                                  |
| Feed motor - X/Z axis            | kW     | 1.8 / 2.5                  | 1.8 / 3                                  |
| Cutting federate                 | mm/min | 0~1260                     | 0~1260                                   |
| Ball screw dia x pitch           | mm     | 32 x P6 (X)<br>40 x P8 (Z) | 32 x P6 (X)<br>40 x P8 (Z)               |
| <b>SPINDLE</b>                   |        |                            |                                          |
| Spindle nose (chuck)             | inch   | A2-6 (8")                  | A2-8 (10")                               |
| Max. spindle speed               | rpm    | 4200 (opt. 3500)           | 3500 (opt. 2500)                         |
| Spindle motor power (cont/30min) | kW     | 7.5 / 9.0                  | 15 / 18.5                                |
| Bearing inside dia.              | mm     | 100                        | 130                                      |
| Spindle bore                     | mm     | 62                         | 87                                       |
| Hole through draw bar            | mm     | 52                         | 75                                       |
| <b>TURRET</b>                    |        |                            |                                          |
| No. of tools                     | no.    | 12                         | 10 (opt. 12)                             |
| Tool shank size                  | mm     | 25                         | 25                                       |
| Max. boring bar dia.             | mm     | 40                         | 50                                       |
| Exchange time (T-T)              | sec    | 1                          | 1                                        |
| <b>TAILSTOCK</b>                 |        |                            |                                          |
| Quill dia.                       | mm     | 75                         | 110                                      |
| Quill stroke                     | mm     | 80                         | 100                                      |
| Quill taper                      | mm     | MT#4                       | MT#5                                     |
| <b>MACHINE</b>                   |        |                            |                                          |
| CNC controller                   |        | 0i-TF Plus (10.4")         | 0i-TF Plus (10.4")                       |
| Tank capacity                    | L.     | 220                        | 330<br>380                               |
| Power requirement                | kVA    | 19                         | 27                                       |
| Machine dimension                | mm     | 3536 x 1768 x 1808         | 4017 x 1848 x 1819<br>4667 x 1848 x 1819 |
| Machine weight                   | kg     | 4450                       | 5650<br>6250                             |

\*Machine and controller specifications are subject to change without notice.

## Standard Accessories:

- 3-jaw Power chuck with soft jaws
- Programmable tailstock
- Chip conveyor with cart
- Automatic forced lubrication
- Fully enclosed splash guarding
- Tool holders
- 3 step warning light
- FANUC manuals by CD ROM

## Optional Accessories:

- Manual tool presetter (Renishaw)
- Higher pressure coolants (3.3 bars/50Hz, 4.7 bars/60Hz)
- Air conditioner for electrical cabinet
- Part catcher
- Bar feeder interface
- Auto door
- Fanuc manuals
- Kitagawa chuck
- Hard jaws
- Tailstock center
- CE marked components

# Machine Color Option



 Standard

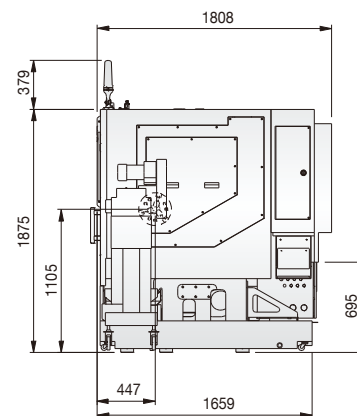
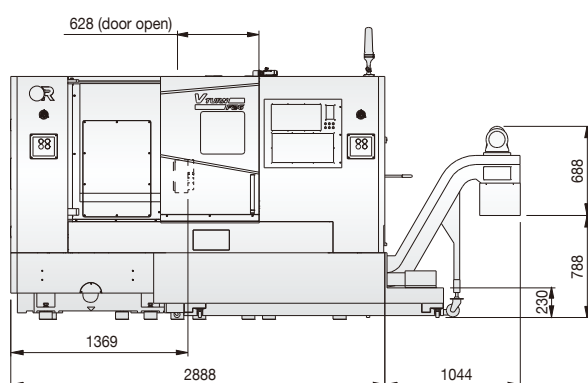
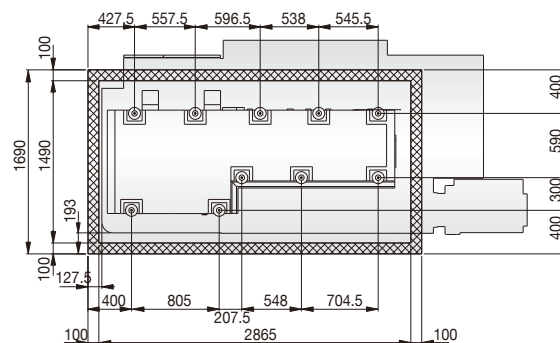
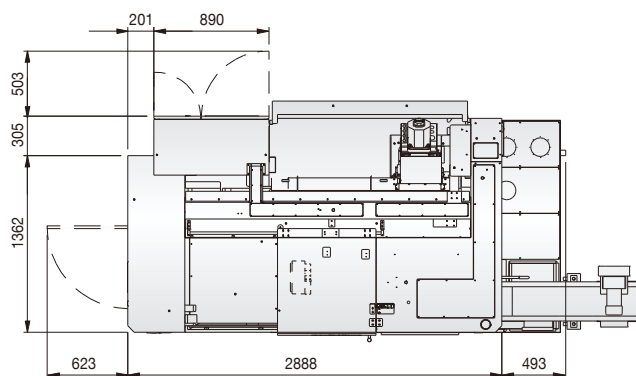


RAL-7024



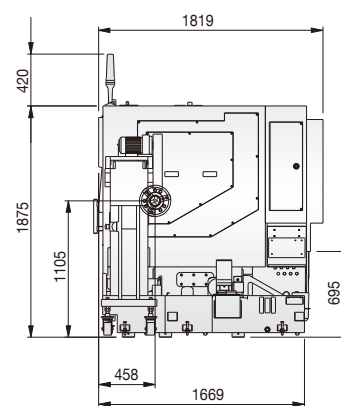
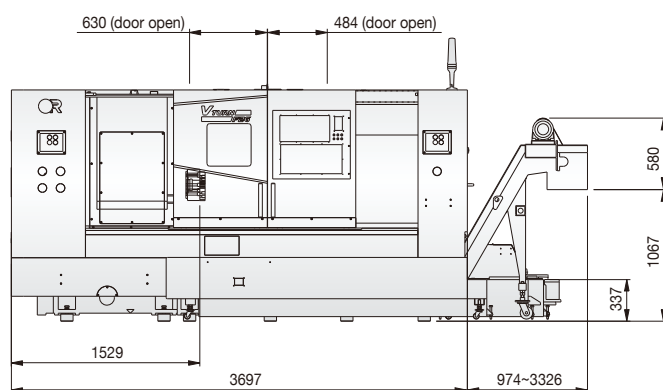
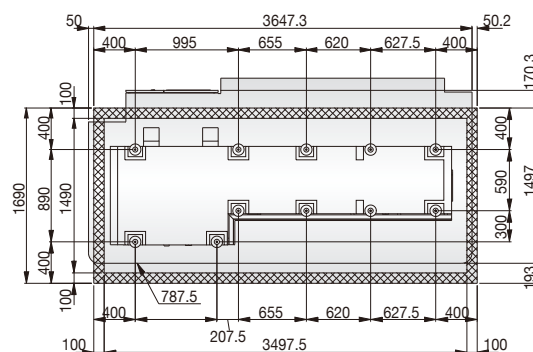
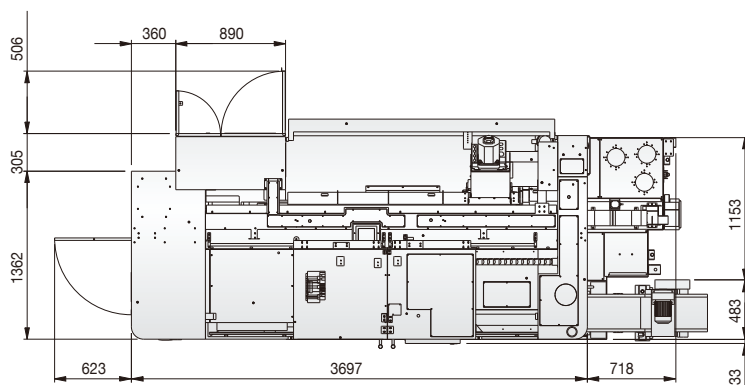
# Machine Layout

## Vturn-F26/60



Unit: mm

## Vturn-F26/110



Unit: mm

# VICTOR Taichung's FANUC Oi-TF Plus 10.4" Control (Type 3) Specifications

## Standard

### ITEM\SPECIFICATION

### DESCRIPTION

#### Controlled Axes:

|                                                      |                            |
|------------------------------------------------------|----------------------------|
| 1. Controlled axes                                   | 2 Axes (X, Z)              |
| 2. Simultaneous controlled axes                      | 2 Axes                     |
| 3. Least input increment                             | 0.001mm                    |
| 4. Least command increment                           | 0.0005mm (X) / 0.001mm (Z) |
| 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                       | 99 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                   | S4-digit                        |
| 8. T code function                   | T4-digit                        |
| 9. Positioning                       | G00                             |
| 10. Linear interpolation             | G01                             |
| 11. Circular interpolation           | G02, G03                        |
| 12. Programmable data input          | G10                             |
| 13. Plane selection                  | G17~G19                         |
| 14. Inch / Metric conversion         | G20 / G21                       |
| 15. Reference position return        | G28, G30                        |
| 16. Thread cutting                   | G32, G34                        |
| 17. Threading retract                | Std.                            |
| 18. Tool nose radius compensation    | G40~G42                         |
| 19. Work piece coordinate system     | G52~G59                         |
| 20. Macro, Sub program call          | G65, M98, M99 (10 folds nested) |
| 21. Multiple repetitive cycle I & II | G70~G76                         |
| 22. Canned cycle for drilling        | G80~G89                         |

|                              |               |
|------------------------------|---------------|
| 23. Canned cycles            | G90, G92, G94 |
| 24. Program stop / end       | M00~M02 / M30 |
| 25. Rigid tapping (Spindle)  | M29           |
| 26. Manual Guide i           | Std.          |
| 27. Optional blocks skip 2-9 | Std.          |

#### 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 entry count extension (Max. 1000) | Std.        |

## Options

#### 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 (G35, G36) | <input type="checkbox"/> |
| 9. AICC-1 (G5.1 Q1, 40 blocks)        | <input type="checkbox"/> |
| 10. AICC-2 (G5.1 Q1, 200 blocks)      | <input type="checkbox"/> |



**Vturn-A200YSCM**



**Vcenter-P106**



**VMT-X260**



**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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HTL



VTL



VMC



HMC



XMT



PIM



was also marketed under the brand names **VICTOR** (outside North America) and **FORTUNE** GV3GE23EA