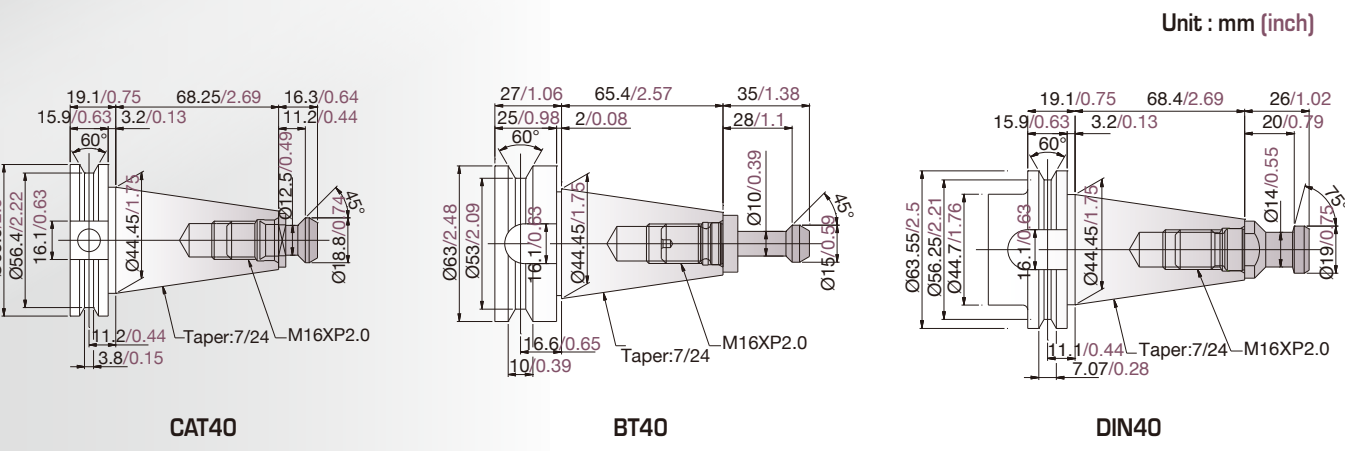
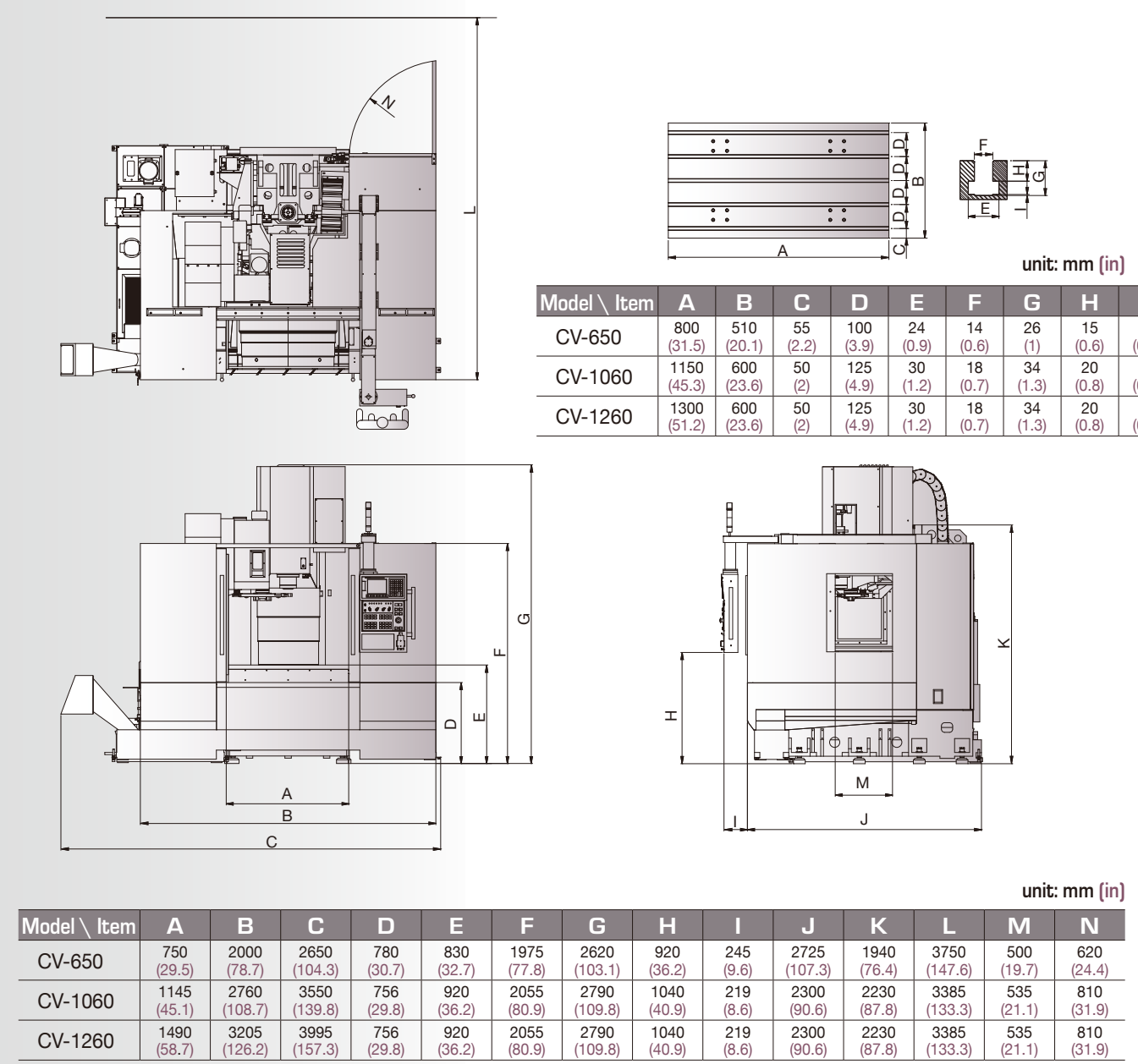


Tool Shank and Pull Stud Dimension



Machine Dimension and Space Requirement



\* WELE SUZHOU Factory overview



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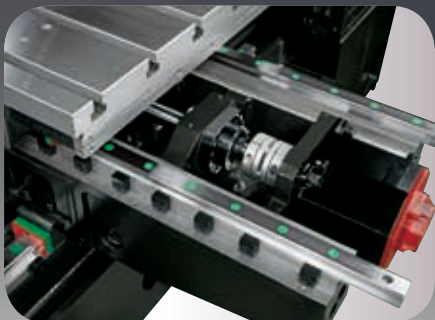
**CV series**  
Vertical Machining Center (Linear guideway)



18042801 Mac35 TEL:09-24733326

# CV series Linear guideway machining center

High speed and general machining purpose. CV machine is suitable for general parts machining.



Fine and rigid ball guideway with perfect feed system and performance



Friendly and convenient operator panel



Every major contact surfaces are scrapped to ensure the geometric accuracy in top level and satisfy customers' quality demand.

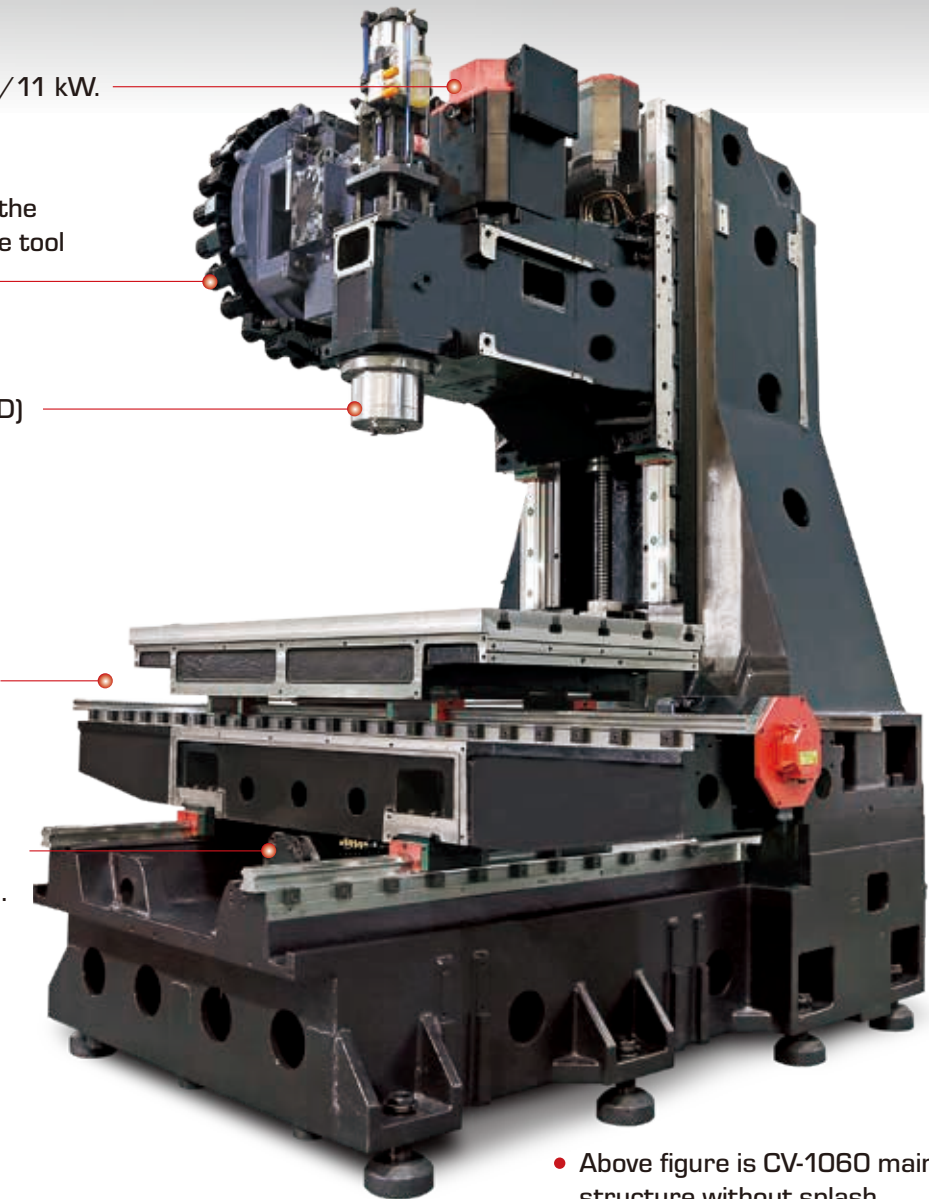
• Spindle motor output torque is 7.5/11 kW.

• 24 tools magazine positive load on the column which has well stability while tool exchange in progress.

• 10,000 rpm belt-driven spindle (STD)

• 3 axes uses linear ball way.  
X/Y/Z axial linear way size is  
CV-650: 30/ 35/ 35mm.  
CV-1060: 35/ 45/ 45mm.  
CV-1260: 35/ 45/ 45mm.

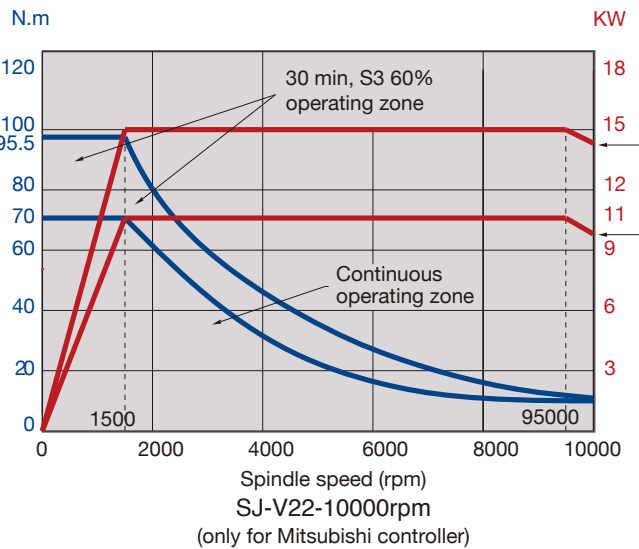
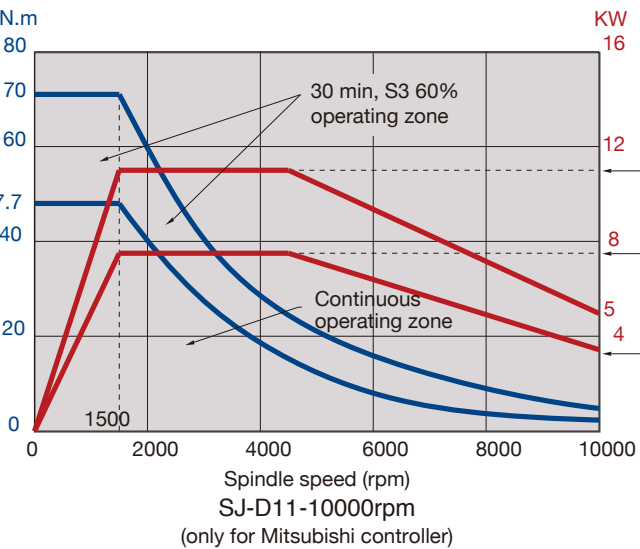
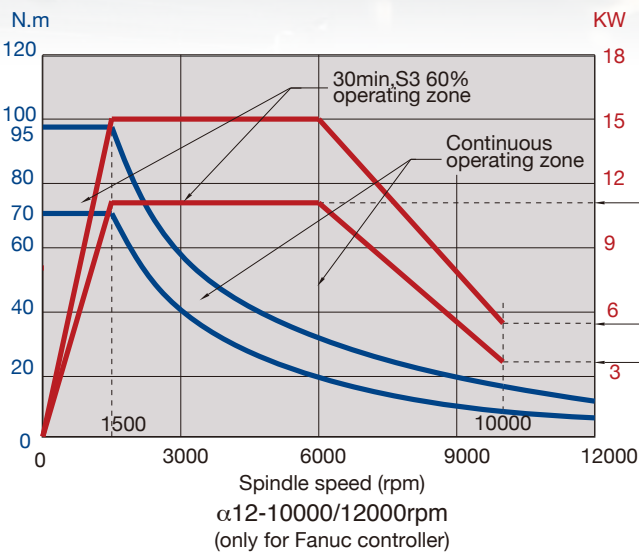
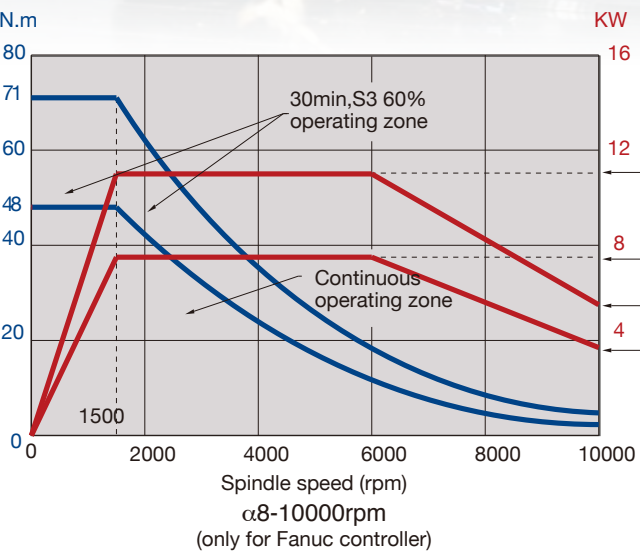
• 3 axes ball screw diameter :  
CV-650: X/Y is 32mm ; Z is 40mm.  
CV-1060: X/Y/Z is 40mm.  
CV-1260: X/Y/Z is 40mm.



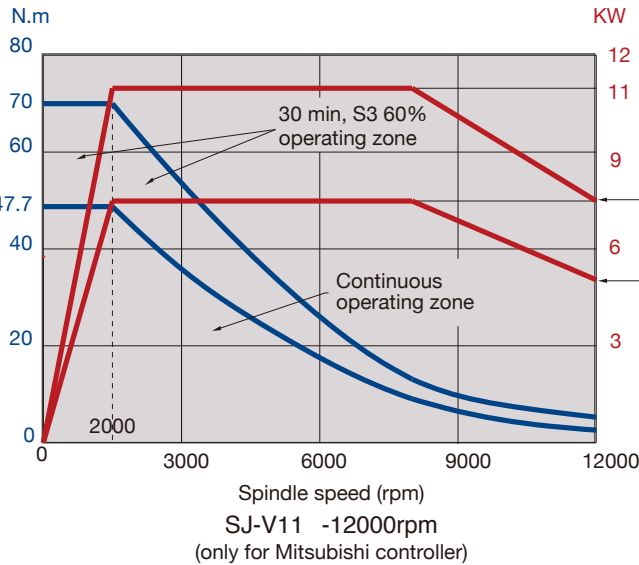
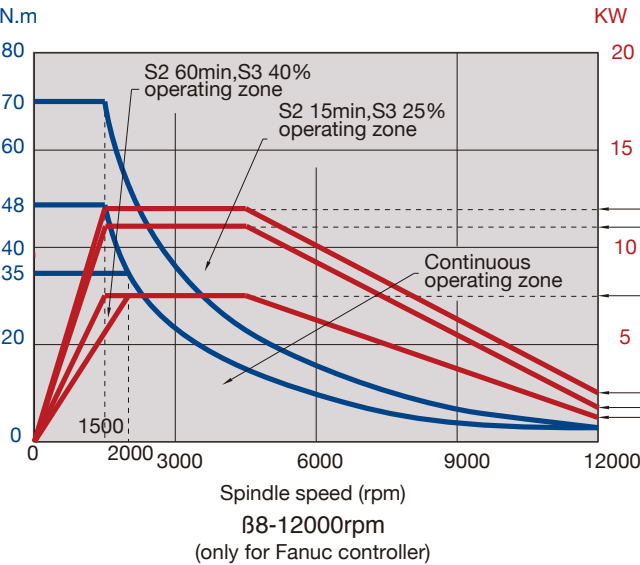
• Above figure is CV-1060 main structure without splash guarding system.

## Spindle output torque chart:

• Available for CV-1060 and CV-1260



• Available for CV-650



## Specification and accessories

| Specification \ Model                    | Unit        | CV-650                    | CV-1060               | CV-1260               | Specification \ Model                                        | CV-1060 |
|------------------------------------------|-------------|---------------------------|-----------------------|-----------------------|--------------------------------------------------------------|---------|
| Travel                                   |             |                           |                       |                       | * BBT40 spindle taper                                        | ●       |
| X travel                                 | mm (in)     | 650 (25.6)                | 1,020 (40.2)          | 1,200 (47.2)          | * DIN40 spindle taper                                        | ○       |
| Y travel                                 | mm (in)     | 510 (20.1)                | 600 (23.6)            | 600 (23.6)            | * CAT40 spindle taper                                        | ○       |
| Z treval                                 | mm (in)     | 510 (20.1)                | 600 (23.6)            | 600 (23.6)            | * 10,000 rpm belted spindle, BBT40                           | ●       |
| Distance from spindle nose to table top  | mm (in)     | 100-610<br>(3.94-24)      | 105-705<br>(4.1-27.7) | 105-705<br>(4.1-27.7) | * Spindle oil cooler                                         | ●       |
|                                          |             |                           |                       |                       | * Centralized auto lubricating system                        | ●       |
|                                          |             |                           |                       |                       | * Roof enclosure guarding system                             | ●       |
| Table                                    |             |                           |                       |                       | * Recycling lubricating oil collector                        | ●       |
| Table size (X direction)                 | mm (in)     | 800 (31.5)                | 1,150 (45.3)          | 1,300 (51.2)          | * Spindle air seal                                           | ●       |
| Table size (Y direction)                 | mm (in)     | 510 (20.1)                | 600 (23.6)            |                       | * Air blast in machining                                     | ●       |
| Table load capacity                      | kg (lb)     | 500<br>(1,102.3)          | 700<br>(1,543.2)      | 1,000<br>(2,204.6)    | * Chip auger in X axis                                       | ●       |
| Spindle                                  |             |                           |                       |                       | * Caterpillar type chip conveyor and bucket                  | ○       |
| Spindle speed                            | rpm         | Belt Driven / 10,000      |                       |                       | * 24 capacity of arm type tool magazine                      | ●       |
| Spindle motor (cont./30 min. rating)     | kW (HP)     | 7.5 / 11 (11 /15)         |                       |                       |                                                              |         |
| Spindle Torque (cont./30 min. rating)    | Nm (ft-lb)  | 48/71 (35.4 /52.3)        |                       |                       | * Rigid tapping                                              | ●       |
| Spindle taper                            |             | BBT#40                    |                       |                       | * Heat exchanger for electrical cabinet                      | ●       |
| Feedrate                                 |             |                           |                       |                       | * Heat exchanger refit to air conditioner                    | ○       |
| Rapid traverse rate (X/Y axis)           | mm (in)/min | 36,000 (1,417.3)          |                       |                       | * Remote handwheel control                                   | ●       |
| Rapid traverse rate (Z axes)             | mm (in)/min | 30,000 (1,181.1)          |                       |                       | * Work light                                                 | ●       |
| Cutting feedrate                         | mm (in)/min | 1-10,000 (0.04-393.7)     |                       |                       | * Operation cycle finish and alarm lights                    | ●       |
| Tool magazine                            |             |                           |                       |                       | * RS232 interface                                            | ●       |
| Tool magazine capacity                   | pcs         | 24                        |                       |                       | * Foundation bolt kit and tool kit                           | ●       |
| Max. tool diameter/adjacent pocket empty | mm (in)     | 78/150 (3.1/5.9)          |                       |                       | * Maintenance & Operator manuals                             | ●       |
| Max. tool length                         | mm (in)     | 300 (11.8)                |                       |                       | * Flood Coolant system (Pump & tank)                         | ●       |
| Max. tool weight                         | kg (lb)     | 7 (15.4)                  |                       |                       | * Spray gun for chip wash down                               | ●       |
| Accuracy                                 |             |                           |                       |                       | * Coolant around spindle                                     | ●       |
| Positioning accuracy (JIS-B6338)         | mm (in)     | ±0.003/300 (±0.0001/11.8) |                       |                       | * Coolant through the tool adapter                           | ○       |
| Positioning accuracy (VDI 3441)          | mm (in)     | P≤0.012 (0.0005)          |                       |                       | * Coolant through the spindle (Form A) , 20 bar              | ○       |
| Repeatability (JIS-B6338)                | mm (in)     | ±0.002<br>(0.0001)        | ±0.003<br>(0.0001)    | ±0.003<br>(0.0001)    | * Automatic tool length measurement (Blum/ Renishaw/ Metrol) | ○       |
| Repeatability (VDI 3441)                 | mm (in)     | Ps≤0.006 (0.0002)         |                       |                       | * Oil skimmer                                                | ○       |
| Space requirement & weight               |             |                           |                       |                       | * Auto power off function                                    | ●       |
| Machine length                           | mm (in)     | 2,870 (113)               | 3,550 (139.8)         | 3,995 (157.3)         | * Data Server (include 1G CF Card)                           | ○       |
| Machine Width                            | mm (in)     | 2,970 (116.9)             | 2,520 (99.2)          | 2,520 (99.2)          | * Transformer                                                | ●       |
| Machine Height                           | mm (in)     | 2,650 (104.3)             | 2,800 (110.2)         | 2,800 (110.2)         | * Mitsubishi M70VA controller                                | ●       |
| Machine weight                           | kg (lb)     | 3,500<br>(7,716.2)        | 5,500<br>(12,125.4)   | 6,500<br>(14,330.0)   | * FANUC 0iMF controller + 8.4" LCD                           | ○       |
|                                          |             |                           |                       |                       | * CE                                                         | ○       |
|                                          |             |                           |                       |                       | * CNC rotary table                                           | ○       |
|                                          |             |                           |                       |                       | * 4th axis interface preparation                             | ○       |

\*\*Product specifications and accessories are subject to change without notice.