

Takumi

The Art of Productivity

U800

5-Axis Gantry Machining Center



Specifications

High Speed Machining and Outstanding Surface Finish

- › 31.49 x 45.28 x 29.52 in (799 x 1,150 x 749 mm) travels
- › 31.49 in diameter (799 mm diameter) table working surface with 2,205 lbs (1,000 kg) maximum capacity
- › 1,890 inches per minute (48 m/minute) rapids
- › 945 in/minute (24 m/minute) cutting feed rates
- › One-piece casting absorbs the thrust forces of high rapids and fast cutting feeds
- › Gantry design with U-shaped integral structure of the base and columns promotes rigidity and stability
- › Ladder design of cross rails increases rigidity and eliminates head deflection
- › Over 35 components are hand scraped for fit
- › Roller type linear rails support faster feed rates, higher rigidity, and smoother linear motion due to larger contact area compared to ball-type linear rails
- › Twin synchronized Y-axis motors increase speed and acceleration capability
- › Trunnion table with integral torque motors (instead of gear drives) provides quicker response, higher torque, better positioning accuracy and lower maintenance requirements
- › High performance 20,000 rpm motorized spindle to satisfy a multitude of machining requirements
- › 32-station carousel ATC
- › HSK63A tooling
- › Heidenhain TNC 640 Control
- › 2 year machine parts warranty
- › 1 year control parts and labor warranty
- › Factory direct service and 24/7 tech support

| | | U800 |
|-----------------------------|---|--|
| TRAVEL | X-Axis | 31.49 in / 799 mm |
| | Y-Axis | 45.28 in / 1,150 mm |
| | Z-Axis | 29.52 in / 749 mm |
| | Distance from Spindle Nose to Table | 4.92 ~ 34.45 in / 125 ~ 875 mm |
| TABLE | Dimensions | 31.49 in diameter / 800 mm diameter |
| | Max. Load | 2,205 lbs / 1,000 kg |
| | T-slot (number x width x pitch) | .55 x 3.94 x .28 in / 14 x 100 x 7 mm |
| SPINDLE | Type | Motorized |
| | Spindle Speed | 20,000 rpm |
| | Spindle Torque Peak | 99.5 ft lb / 135 Nm |
| | Motor Power (cont./30 min) | 33.53/53.64 HP / 25/40 kW |
| | Coolant Thru Spindle | 30 bar / 435 psi |
| | Spindle Taper | HSK-63A |
| FEED RATE | Rapid Traverse (X/Y/Z) | 1,890 x 1,890 x 1,890 ipm / 48 x 48 x 48 m/min |
| | Cutting Feed Rate | 945 ipm / 24 m/min |
| ATC & MAGAZINE | ATC Type | Carousel |
| | Magazine Capacity | 32 tools |
| | Maximum Tool Diameter (next pocket empty) | 3.54/4.92 in / 90/125 mm |
| | Maximum Tool Length | 11.81 in / 300 mm |
| | Maximum Tool Weight | 15.43 lbs / 7 kg |
| SPACE & SYSTEM REQUIREMENTS | Tool Shank | HSK-63A |
| | Pneumatic Pressure | 85.34 psi / 6 kgf/cm ² |
| | Electrical Power Consumption | 80 KVA |
| | Machine Net Weight | 39,683.21 lbs / 18,000 kg |
| | Operating Dimensions (W x L x H) | 165.35 x 120.28 x 162.20 in / 4,200 x 3,055 x 4,120 mm |

Accessories

U800

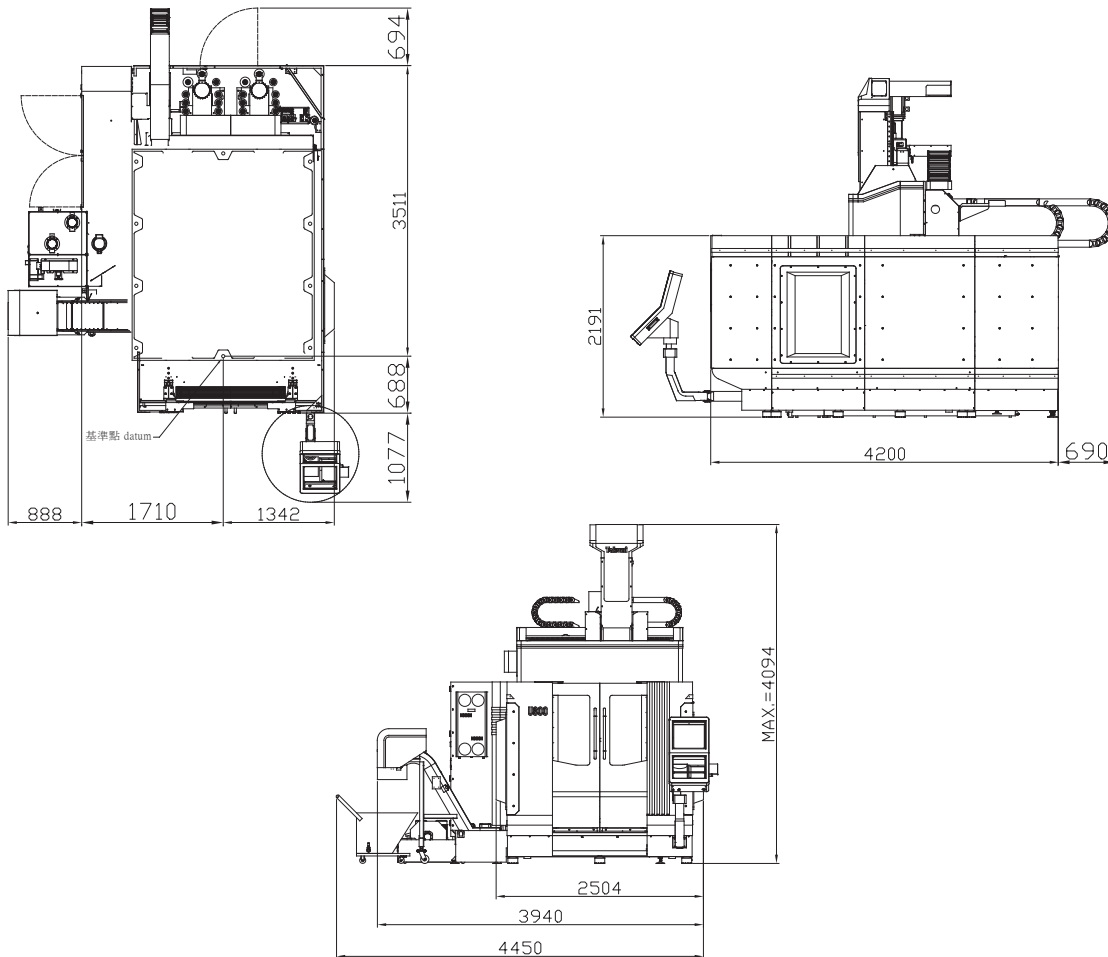
Standard:

- › Roller-type linear guides on three axes
- › 20,000 rpm, 33.5 HP, HSK63A built-in spindle
- › Hand-scraped contact areas
- › Fast 1,890 ipm rapid traverse rates
- › 945 ipm milling feed rate
- › 100 rpm 360° C-axis 800 mm table
- › 80 rpm +/-120° A-axis trunnion
- › Rotary table thermal cooling system
- › 32 tool ATC (HSK63A)
- › Oil skimmer
- › Work lights
- › 3-light indicator lamp
- › Portable manual handwheel
- › Spindle thermal chiller
- › Coolant wash down system
- › Programmable cutting air-blow
- › Wash-down gun and air gun
- › Heidenhain TNC 640 control with 15.1" LCD Display
- › 21 Gigabyte SSDR for program storage
- › Steel belt, lift-up conveyor
- › Leveling bolts, pads and J anchors
- › Operator manuals

Optional:

- › Linear scales X, Y, and Z axes
- › 64 station, double magazine ATC
- › 435 psi (30 BAR), 8 GPM coolant-thru spindle
- › Heidenhain TS 460 automatic workpiece measurement system
- › Blum automatic tool length measurement system
- › Oil mist cutting device
- › Mist collectors
- › Spindle thermal compensation system
- › Coolant filtration
- › Heidenhain TS 740 automatic workpiece measurement system

Layout



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Information may change without notice. Some machines shown with options T003 rev8.24.18