

# Takumi

The Art of Productivity

## U600

5-Axis  
Double-Column  
Machining Center



Specifications

### High Speed Machining and Outstanding Surface Finish

- 25.98 x 40.16 x 19.69 in (660 x 1,020 x 500 mm) travels
- 23.62 in diameter (600 mm diameter) table working surface with 1,102 lbs (500 kg) maximum capacity
- 1,417 inches per minute (36 m/minute) rapids
- 787 in/minute (20 m/minute) cutting feed rates
- 40-station swing arm ATC
- One-piece casting absorbs the thrust forces of high rapids and fast cutting feeds
- One piece double-column design increases rigidity enabling higher cutting feeds while maintaining part finish
- 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
- Large diameter, preloaded and pretensioned ballscrews with fine pitch for accurate motion control
- 15,000 rpm Big Plus® CAT 40 inline spindle
- Heidenhain TNC 640 Control
- 2 year machine parts warranty
- 1 year control parts and labor warranty
- Factory direct service and 24/7 tech support

		U600
TRAVEL	X-Axis	25.98 in / 660 mm
	Y-Axis	40.16 in / 1,020 mm
	Z-Axis	19.69 in / 500 mm
	Distance from Spindle Nose to Table	6.30 ~ 25.98 in / 160 ~ 660 mm
TABLE	Dimensions	23.62 in diameter / 600 mm diameter
	Max. Load	1,102 lbs / 500 kg
	T-slot (number x width x pitch)	.55 x 3.94 x .20 in / 14 x 100 x 5 mm
SPINDLE	Type	Inline
	Spindle Speed	15,000 rpm
	Spindle Torque Peak	65.9 ft lb / 89.4 Nm
	Motor Power (cont./30 min)	13.41/18.77 HP / 10/14 kW
	Coolant Thru Spindle	30 bar / 435 psi
	Spindle Taper	Big Plus® CAT 40
	FEED RATE	Rapid Traverse (X/Y/Z)
Cutting Feed Rate		787 ipm / 20 m/min
ATC & MAGAZINE	ATC Type	Swing Arm
	Magazine Capacity	40 tools
	Maximum Tool Diameter (next pocket empty)	2.95/5.91 in / 75/150 mm
	Maximum Tool Length	11.81 in / 300 mm
	Maximum Tool Weight	17.64 lbs / 8 kg
SPACE & SYSTEM REQUIREMENTS	Tool Shank	CAT 40 (BT 40 Optional)
	Pneumatic Pressure	85.34 psi / 6 kgf/cm <sup>2</sup>
	Electrical Power Consumption	60 KVA
	Machine Net Weight	30,864.72 lbs / 14,000 kg
	Operating Dimensions (W x L x H)	128.15 x 151.77 x 138.58 in / 3,255 x 3,855 x 3,520 mm

## Accessories

# U600

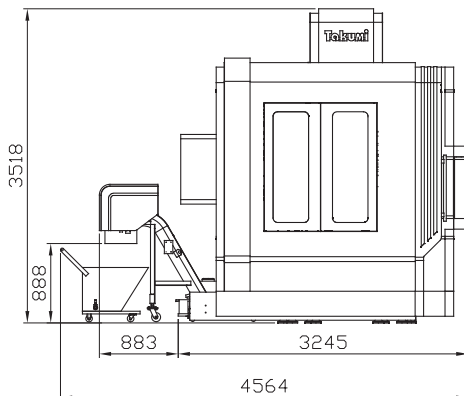
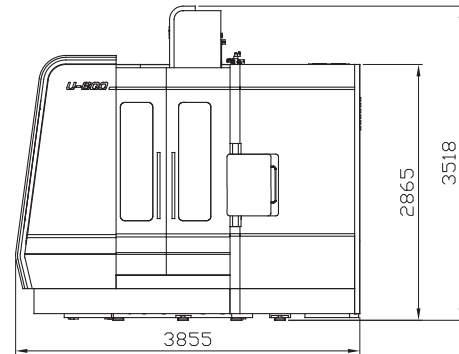
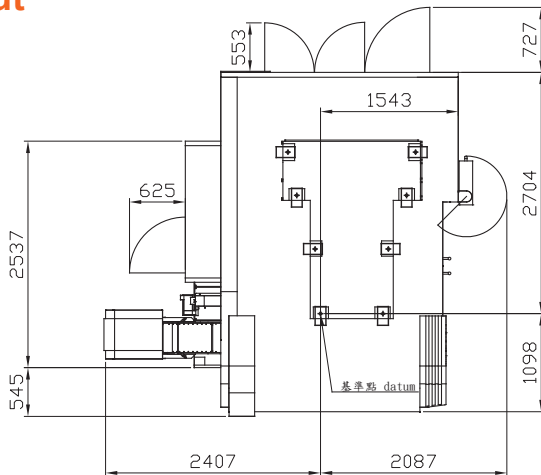
### Standard:

- › Roller-type linear guides on three axes
- › 15,000 rpm, 33.5 HP, Big Plus inline spindle
- › Hand-scraped contact areas
- › Fast 1,417 ipm rapid traverse rates
- › 787 ipm milling feed rate
- › 25 rpm 360° C-axis 800 mm table
- › 33 rpm +30/-110° A-axis trunnion
- › 40 tool swing arm ATC
- › 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
- › Operator manuals

### Optional:

- › Linear scales X, Y and Z axes
- › 435 psi (30 bar), 8 gpm coolant-thru spindle
- › Heidenhain TS 460 automatic workpiece measurement system
- › Blum automatic tool length measurement system
- › Heidenhain TS 740 automatic workpiece measurement system
- › Oil mist cutting device
- › Mist collectors
- › Spindle thermal compensation system
- › Coolant filtration
- › 50 tool swing arm ATC

## Layout



# Takumi

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