

Takumi

The Art of Productivity

V11

Vertical Machining Center



Heavy Duty High Torque Machine

- › 43.3 x 26 x 24 in (1099 x 660 x 610 mm) travels
- › 45.2 x 25.6 in (1,050 x 650 mm) table working surface with 2,420 lbs (1100 kg) maximum table capacity
- › Fast 945 x 945 x 787 in/min (24 x 24 x 20 m/min) rapids
- › 315 in/min (8 m/min) cutting feed rate
- › 6,000 RPM gear driven spindle with 397 lb ft of torque
- › Rigorous testing to ensure thermal stability
- › 24-station swing-arm ATC, random access
- › Wide, robust machine base
- › 4 box ways under the Y axis for maximum support
- › Rugged axis power transmission
- › Extended Y axis travel and work area
- › Large diameter , preloaded and pretensioned ballscrews with fine pitch for accurate motion control
- › 41 components on the machine are hand-scraped for fit
- › Wide front door openings and side door access
- › Takumi FANUC[®] H Control
- › AICC II for high feed rates with optimal cutting precision
- › 400 Block look ahead for fast contour milling
- › 56 work offsets for increased flexibility in job set up
- › 400 tool offset library with length and radius wear
- › Set Up Guidance function to decrease set up time
- › Programmable mirror image
- › Compact flash memory card slot and USB port
- › Rigid Tapping (M29)
- › 2 year machine parts warranty
- › 2 year control parts and labor warranty
- › Factory trained local service and 24/7 tech support

Specifications

	V11
Travel	
X-Axis	43.3 in / 1,100 mm
Y-Axis	26 in / 660 mm
Z-Axis	24.01 in / 610 mm
Distance from Spindle Nose to Table	5.91 – 29.53 in / 150 – 750 mm
Distance from spindle nose to z-axis guide ways	27.56 in / 700 mm
Table	
Dimensions	45.2 x 25.6 in / 1,150 x 650 mm
Max. Load	2,425.01 lbs / 1,100 kg
T-slot (number x width x pitch)	5 x .71" on 3.94" Centers / 5 x 18mm on 100mm Centers
Spindle	
Type	Gear
Spindle Speed	6,000 rpm
Spindle Torque Peaks	397 ft/lb / 539 nm
Motor Power (cont./30 min)	14.6/20 HP / 11/15 kW
Coolant Thru Spindle	30 bar / 435 psi
Spindle Taper	CAT/BT 50
Feed Rate	
Rapid Traverse (X/Y/Z)	945 x 945 x 787 ipm / 24 x 24 x 20 m/min
Cutting Feed Rate	315 ipm / 8 m/min
Power (X/Y/Z)	4.0/5.3/5.3 hp / 3.0/4.0/4.0 kW
ATC & Magazine	
ATC Type	Swing-Arm
Magazine Capacity	24 tools
Maximum Tool Diameter (next pocket empty)	4.1/7.9 in / 105/200 mm
Maximum Tool Length	9.8 in / 250 mm
Maximum Tool Weight	33 lbs / 15 kg
Tool Shank	CAT 50 (BT 50 optional)
Space & System Requirements	
Pneumatic Pressure	5 CFM @ 85-115 psi / 0.14m ³ /min. @ 6-8 bar
Electrical Power Consumption	35 KVA
Machine Net Weight	14,960 lbs / 6,800 kg
Operating Dimensions (W x L x H)	248.03 x 165.35 x 124.02 in / 6,300 x 4,200 x 3,150 mm

Accessories

Standard:

- › 435 PSI coolant thru the spindle
- › Operator safety door switches
- › Spindle chiller
- › Programmable cutting air blow
- › 84.4 gallon coolant tank
- › Programmable coolant wash down
- › Programmable belt style lift up chip conveyor and cart
- › Wash down gun and air gun
- › Centralized automatic lubrication system
- › Manual pulse generator (MPG)
- › Ethernet & RS-232C interface
- › 4th axis interface cables and connectors
- › Electrical cabinet heat exchanger
- › Toolbox
- › Leveling bolts and pads
- › Operator manuals
- › Full enclosure
- › Work light
- › 3-light indicator lamp

Optional:

- › Oil skimmer
- › Oil mist device
- › Oil mist collector
- › Coolant filtration
- › 1 Gigabyte Data Server
- › Memory Card editing
- › Part probe measurement system
- › Tool probe measurement system
- › 4th axis rotary table
- › BT 50 tool holder conversion

Layout

