

# Takumi

The Art of Productivity

## V10

### Vertical Machining Center



### Box Way General Purpose Machine

- 39.5 x 26 x 24 in (1000 x 660 x 610 mm) travels
- 41.7 x 25.6 in (1,050 x 650 mm) table working surface with 2,204 lbs (1000 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
- 12,000 RPM, CAT 40 spindle
- 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

	V10
<b>Travel</b>	
X-Axis	39.5 in / 1,000 mm
Y-Axis	26 in / 660 mm
Z-Axis	24 in / 610 mm
Distance from Spindle Nose to Table	5.91 ~ 29.92 in / 150 ~ 760 mm
Distance from Spindle Nose to Z-Axis Guide Ways	27.56 in / 700 mm
<b>Table</b>	
Dimensions	41.73 x 25.59 in / 1,060 x 650 mm
Max. Load	2,204.62 lbs / 1,000 kg
T-slot (number x width x pitch)	5 x .71" on 3.94" Centers / 5 x 18mm on 100mm Centers
<b>Spindle</b>	
Type	Belt
Spindle Speed	12,000 rpm
Spindle Torque Peaks	70.8ft/lb / 96.01 nm
Motor Power (cont./30 min)	10/14.8 HP / 7.5/11 kW
Coolant Thru Spindle	30 bar / 435 psi
Spindle Taper	CAT/BT 40
<b>Feed Rate</b>	
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)	4.0/4.0/4.0 hp / 3.0/3.0/3.0 kW
<b>ATC &amp; Magazine</b>	
ATC Type	Swing-Arm
Magazine Capacity	24 tools
Maximum Tool Diameter (next pocket empty)	3.15/5.91 in / 80/150 mm
Maximum Tool Length	11.8 in / 300 mm
Maximum Tool Weight	15.4 lbs / 7 kg
Tool Shank	CAT 40 (BT 40 optional)
<b>Space &amp; System Requirements</b>	
Pneumatic Pressure	5 CFM @ 85-115 psi / 0.14m <sup>3</sup> /min. @ 6-8 bar
Electrical Power Consumption	35 KVA
Machine Net Weight	14,770 lbs / 6,700 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
- › 79 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 40 tool holder conversion

## Layout

