

# Takumi

The Art of Productivity

## V15 Vertical Machining Center



### Heavy Duty High Torque Machine

- › 60 x 30 x 28.3 in (1524 x 762 x 718.8 mm) travels
- › 63 x 30 in (1600 x 762 mm) table working surface with 3,300 lbs (1500 kg) maximum table capacity
- › Fast 708 x 708 x 623 in/min (18 x 18 x 16 m/min) rapids
- › 196 in/min (5 m/min) cutting feed rate
- › 6,000 RPM gear driven spindle with 437 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

	V15
<b>Travel</b>	
X-Axis	60 in / 1,524 mm
Y-Axis	30 in / 762 mm
Z-Axis	28.3 in / 720 mm
Distance from Spindle Nose to Table	5.91 ~ 34.3 in / 150 ~ 870 mm
Distance from Spindle Nose to Z-Axis Guide Ways	32.3 in / 820 mm
<b>Table</b>	
Dimensions	63x 30 in / 1,600 x 760 mm
Max. Load	3,300 lbs / 1,500 kg
T-slot (number x width x pitch)	5 x .87" on 5.91" Centers / 5 x 22mm on 150mm Centers
<b>Spindle</b>	
Type	Gear
Spindle Speed	6,000 rpm
Spindle Torque Peaks	437.2 ft/lb / 592.76 nm
Motor Power (cont./30 min)	20.1/24.8 HP / 15/18.5 kW
Coolant Thru Spindle	30 bar / 435.11 psi
Spindle Taper	CAT/BT 50
<b>Feed Rate</b>	
Rapid Traverse (X/Y/Z)	708 x 708 x 630 ipm / 18 x 18 x 16 m/min
Cutting Feed Rate	0.04 ~ 196.85 ipm / 1 ~ 5,000 mm/min
Power (X/Y/Z)	5.3/9.4/5.3 hp / 4.0/7.0/4.0 kW
<b>ATC &amp; Magazine</b>	
ATC Type	Swing-Arm
Magazine Capacity	24 tools
Maximum Tool Diameter (next pocket empty)	4.33/8.66 in / 110/220 mm
Maximum Tool Length	11.81 in / 300 mm
Maximum Tool Weight	33.07 lbs / 15 kg
Tool Shank	CAT50 (BT 50 Optional)
<b>Space &amp; System Requirements</b>	
Pneumatic Pressure	5 CFM @ 85-115 psi / 0.14m3 /min. @ 6-8 bar
Electrical Power Consumption	35 KVA
Machine Net Weight	30,865 lbs / 14,000 kg
Operating Dimensions (W x L x H)	275.59 x 220.47 x 128.19 in / 7,000 x 5,600 x 3,256 mm

## Accessories

# V15

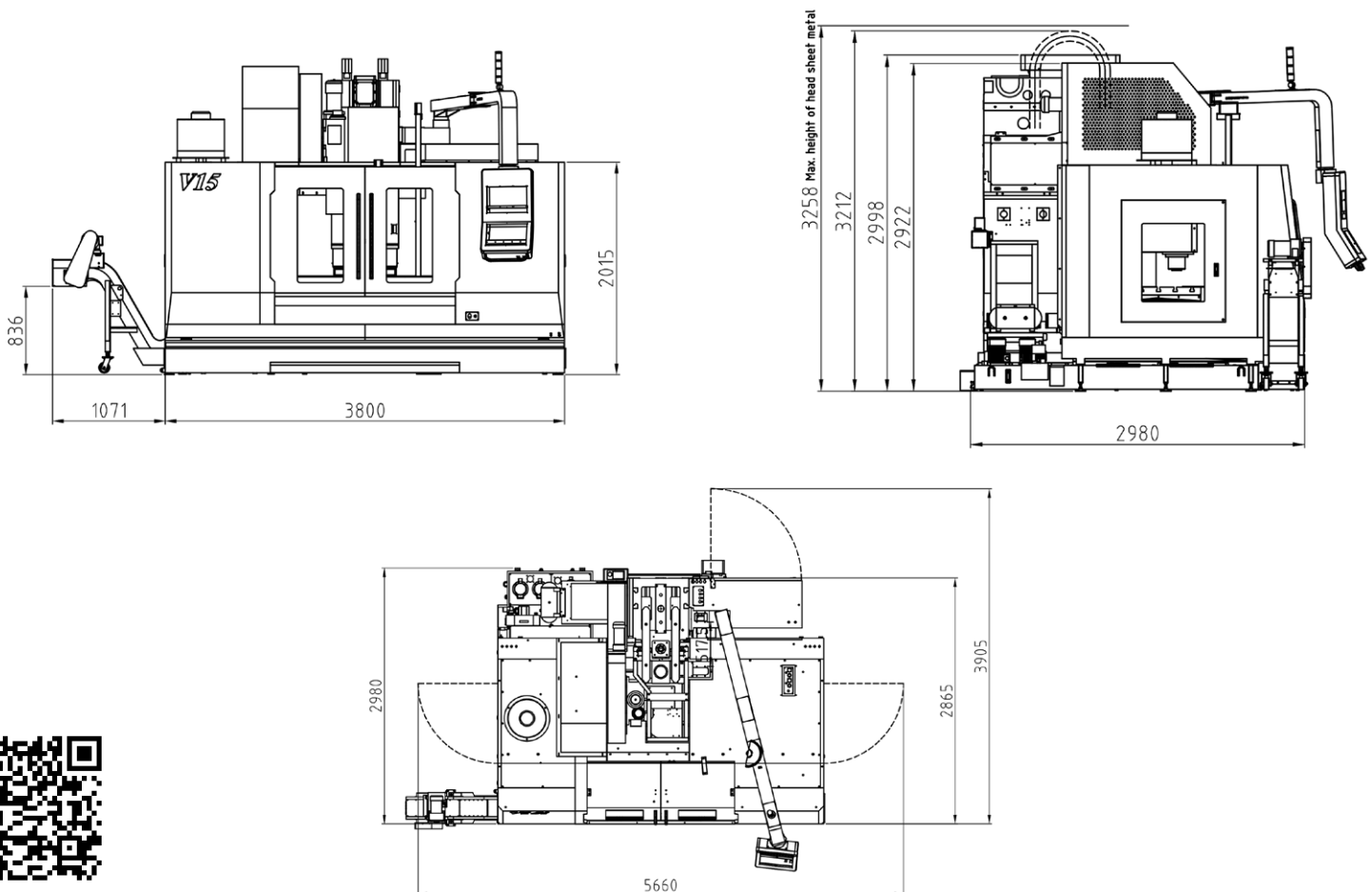
### Standard:

- › 435 PSI coolant thru the spindle
- › Operator safety door switches
- › Spindle chiller
- › Programmable cutting air blow
- › 137.7 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



# Takumi

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Information may change without notice. Some machines shown with options T003 rev4.24.18