Specifications

Travel		Unit	VC0852	VC1052	VC1000	VC1200
X-axis		mm	860	1060	1067	1270
Y-axis		mm	520	520	610	660
Z-axis		mm	610	610	610	610
Dist. from spindle nose to table		mm	115-725	115-725	141-751	150-760
Table						
Dimension		mm	1000x520	1160x520	1270x610	1500x660
Max. load		kg	500	650	1000	1360
T-slot (width x pitch x number)		mm	18x100x5	18x100x5	18x100x5	18x100x6
Spindle						
Spindle type		-	Belt type	Belt type	Direct drive	Direct drive
Spindle speed		rpm	12000	12000	15000	15000
Motor power (cont./S3-25%)		kW	11/15	11/15	9/15	9/15
Spindle taper		-	BBT40	BBT40	BBT40	BBT40
Feed rate						
Rapid traverse (X/Y/Z)	FANUC SPEC.	m/min	36x36x24	36x36x24	36x36x24	36x36x24
	MITSUBISHI SPEC.(Opt.)		48x48x36	48x48x36	36x36x24	36x36x24
Cutting feedrate		mm/min	1-12000	1-12000	1-12000	1-12000
Motor						
Motor power (X/Y/Z)	FANUC SPEC.	kW	1.8/3.0/2.5	1.8/3.0/2.5	2.7/4.0/4.0	4.0/ 4.0/ 5.5
	MITSUBISHI SPEC.(Opt.)		2.2/2.2/3.5	2.2/2.2/3.5	2.2/3.5/3.5	3.5/3.5/4.5
ATC & Magazine						
ATC type		-	Arm type	Arm type	Arm type	Arm type
Magazine capacity		pcs	24	24	24	30
Max. tool diameter : (Adjacent pots Empty)		mm	80/150	80/150	80/150	80/125
Max. tool length		mm	300	300	300	300
Max. tool weight		kg	7	7	7	7
Space & System requirement						
Pneumatic pressure		kgf/cm²	6	6	6	6
Electrical power consumption		kVA	30	30	30	35
Machine net weight		kg	6000	6200	6750	9,000
Max. floor space (LxWxH)		mm	4629x3743x3099	4629x3743x3099	4900x3365x2932	5280x3550x3100

Specification are subject to change without notice

1.All data listed here are based on machines with standard accessories. Data will be altered according to different options. For detailed information, please refer to local agents or Takumi sales.

2.Takumi reserves the rights on the modifications of the machine specifications.

■ Standard Accessories

- FANUC 0i-MF controller
- **VC0852 / VC1052**
  12000rpm, BBT40, belt type spindle
  Ballscrew linear guide way (35x35x45mm)
  Chip auger with lift up exhaust tube
- **VC1000 / VC1200**
  15000rpm, BBT40, direct drive spindle
  Roller type linear guide way (45x45x45mm)
  Belt type chip conveyor
- 24T, #40, arm type ATC (VC0852~VC1000)
- 30T, #40, arm type ATC (VC1200)
- Spindle air blast
- Cutting air blast
- Spindle cooler
- Cutting coolant system
- Automatic centralized lubrication system
- Fully enclosed splash guard
- Working lamp
- Indication lamp
- Washing gun & air gun
- Coolant tank & coolant flushing system
- Manual pulse generator (MPG)
- Ethernet RJ45 & RS-232C interface
- Heat exchanger for electrical cabinet
- Tool kits
- Leveling blocks and bolts
- Operation manuals
- One year machine warranty (Spindle warranty depends upon spindle manufacturer)
- Controller warranty (Controller warranty depends upon controller manufacturer)

■ Optional Accessories

- MITSUBISHI M80A controller
- 15000rpm, BBT40, direct drive spindle
- 40T,arm type ATC (VC1200)
- Coolant through spindle (30 bar)
- Oil skimmer
- Oil mist device
- Oil mist collection
- Ballscrew cooling system (VC0852 / VC1052)
- **VC0852+ / VC1052+**
  15000rpm, BBT40, direct drive spindle
  Roller type linear guide way (45x45x45mm)
  Upgraded Motor
  • FANUC : 3.0/3.0/3.0 kW
  • MITSUBISHI 3.5/3.5/3.5 kW
- Air conditioner for electrical cabinet
- Tool length measurement system
- Workpiece measurement system
- 4th axis rotary table
- Belt type chip conveyor
- Scraper type chip conveyor
- Transformer
- CE mark (CE region only)

VC Series

Vertical Machining Centers

- High Speed & High Precision
- 3 Axes Linear Guide Ways
- Rigid Structure Design

Takumi

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Takumi CERTIFIED ISO 9001

CE APPROVED

A division of Hurco Companies, Inc.

TKM-202005-VC-1000_EN

Takumi

VC Series

The Achievement of Takumi's Innovation and Technology

The Perfect Performance of Fast Cutting and High Stability

Takumi

VC series is specially designed for 3C and mold manufacturing industries.
To meet the requirements of fast cutting, 3 axes are equipped with linear guide ways.
The highest rapid traverse reaches 48 m/min (MITSUBISHI NC).

The rotary operation panel allows the user to operate it at any position.

Large window on the door provides users clear visibility.

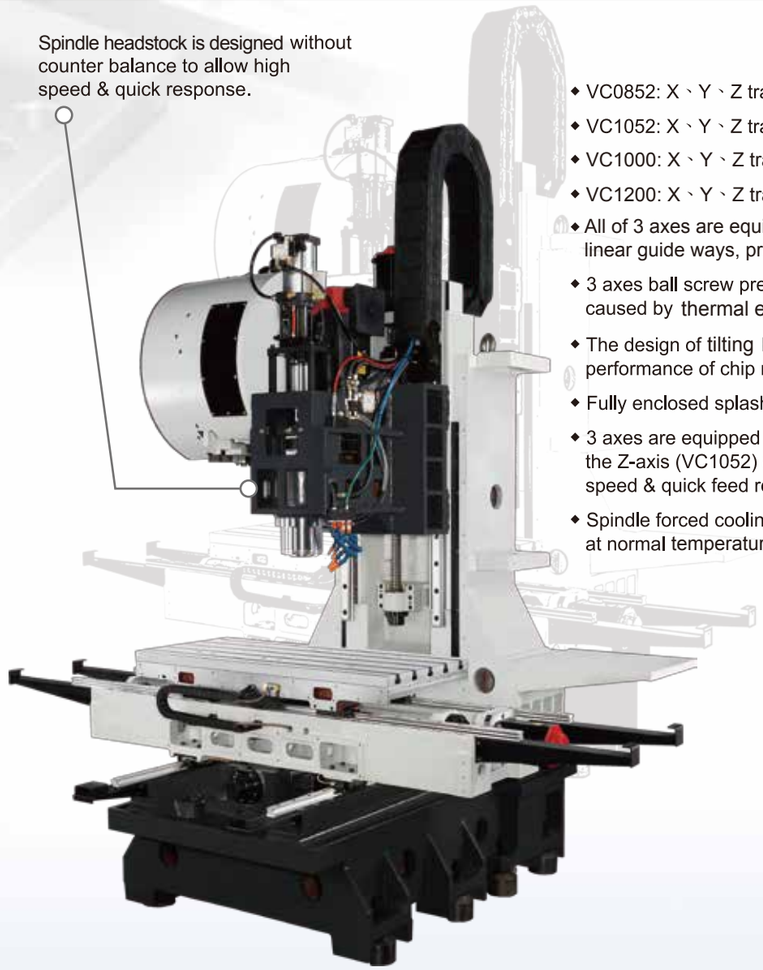
All accessories are covered inside the box-shape enclosure, which not only minimizes floor space, but also reduces the cost of installation & transportation.

Large internal space can reduce working interference effectively.

Table is higher than the bottom rim of the side windows, making the workpiece set-up easier.

The design of sloping bed surface with flushing coolant system remove chips effectively and keep the working zone clean.

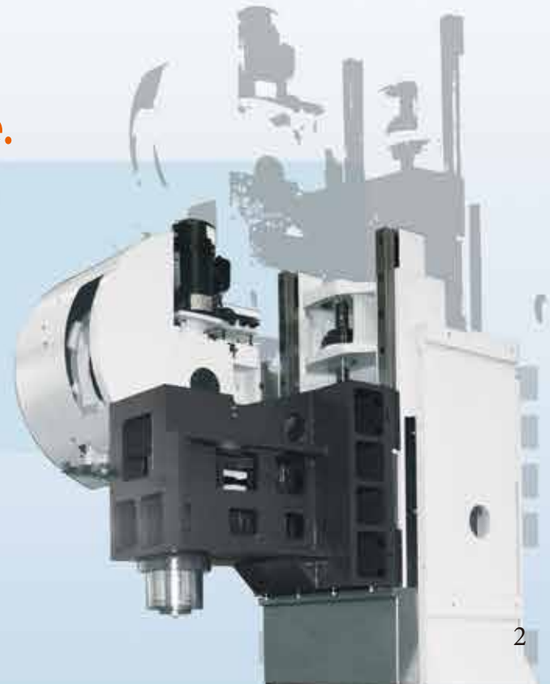
Spindle headstock is designed without counter balance to allow high speed & quick response.



- VC0852: X、Y、Z travel: 860x520x610mm.
- VC1052: X、Y、Z travel: 1060x520x610mm.
- VC1000: X、Y、Z travel: 1067x610x610mm
- VC1200: X、Y、Z travel: 1270x660x610mm
- All of 3 axes are equipped with high pre-stretched high rigidity ball type linear guide ways, providing fast movement with low abrasion.
- 3 axes ball screw pretension design reduces the thermal deformation caused by thermal effect, offering the best accuracy.
- The design of tilting bed surface, flushing coolant system provides perfect performance of chip removal.
- Fully enclosed splash guard provides operator safety during operation.
- 3 axes are equipped with ball type linear guide ways, 6 guide blocks on the Z-axis (VC1052) & 4 guide blocks on the X/Y axis, allowing high speed & quick feed response.
- Spindle forced cooling system to ensure the operation of the spindle at normal temperature for superior machining accuracy.

High Rigid and High Stable Structure.

- Bed, column, saddle and other main castings designed for high rigidity and released the stress by heat treatment, ensuring the best structural stability and positioning accuracy.
- The assembling space between bed and column ,where machining stress concentrated on, is enhanced to provide powerful and stable cutting ability to spindle.
- The best design of cast iron weight. The stable bed and column, altogether with lightweight design of head, saddle and table, provide the best stability during high acceleration and deceleration movement.



VC Series

High Accuracy / Performance Spindle

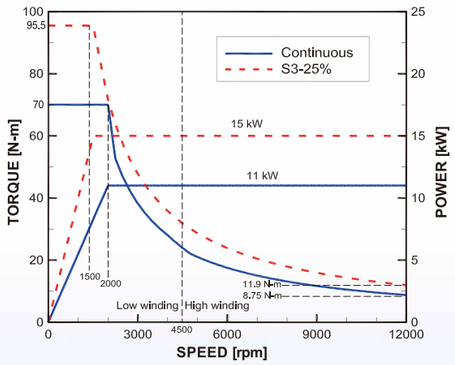
Takumi

■ Belt Type Spindle

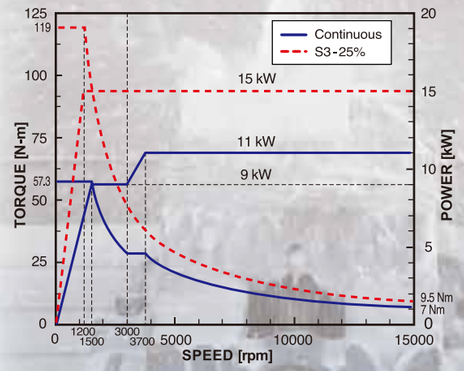
- Spindles are made by Taiwanese professional spindle manufacturers, featuring high accuracy and high performance.
- Spindle cooling system reduces thermal deformation and prolongs the service hour of spindle.

Power & Torque Chart

■ **Belt type / Direct-drive spindle, 11/15kW, 12000rpm**

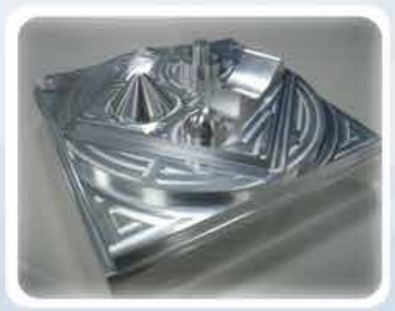


■ **Direct-drive spindle, 9/15kW, 15000rpm**



Max. Excellent Cost/Performance Value

VC series is designed to meet the requirements of fast cutting for the industries of 3C parts machining and mold machining. Excellent performace can decrease the mold delivery, processing costs and improve product competitiveness.



TAKUMI Test cutting workpiece
Material: Aluminum 7075
Application:
Surface / acute angle / positioning precision excellent performance

Hood test cutting workpiece
Material: Aluminum 7075
Application:
High speed working on different angle & surface

ATC & Magazine

24T, BT40, ARM type ATC (Standard)

Optional Accessories

■ Workpiece measurement system

■ Tool Length measurement system

■ Chip conveyor/ Cart

■ Oil skimmer

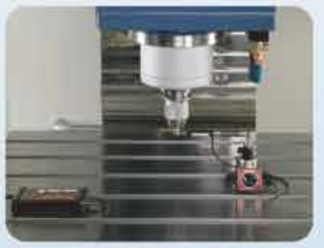
■ Coolant through spindle

■ 4th axis rotary table

■ Oil mist collector

Quality Management (ISO 9001 : 2015)

■ Laser inspection



■ Ball bar inspection

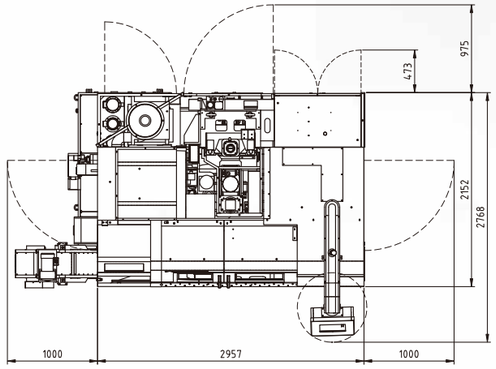
■ Spindle running test

VC Series

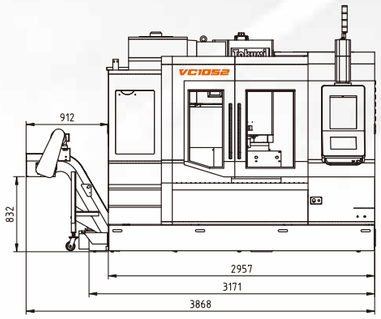
Dimensions

Takumi

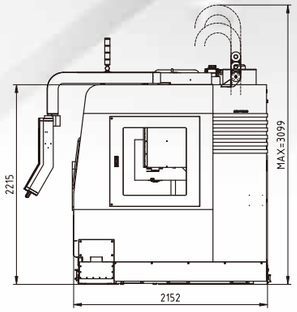
VC0852 / VC1052 Unit: mm



Top View

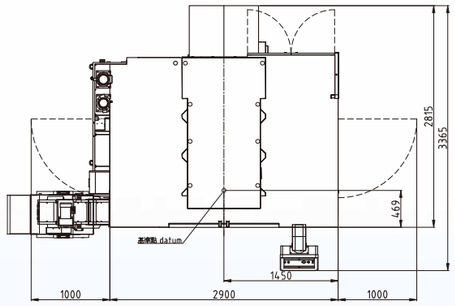


Front View

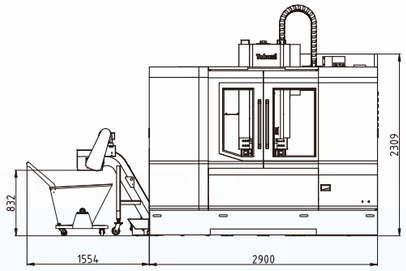


Side View

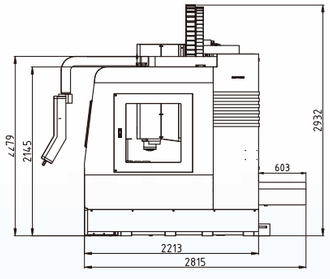
VC1000 Unit: mm



Top View

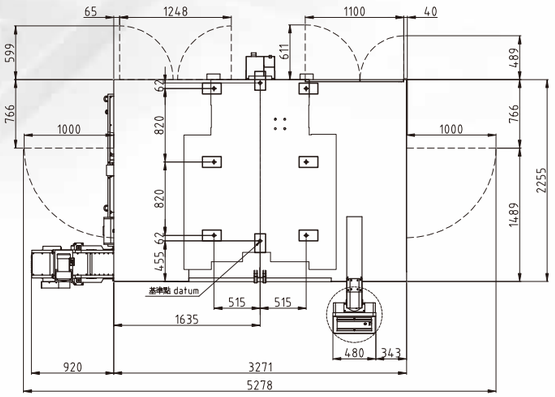


Front View

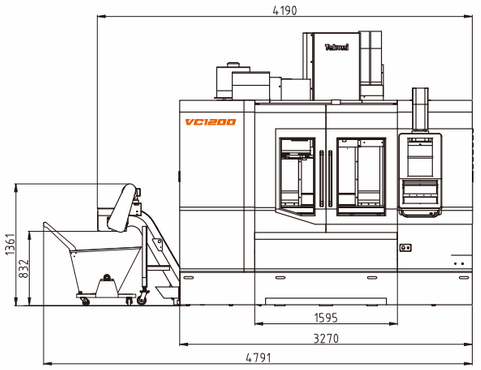


Side View

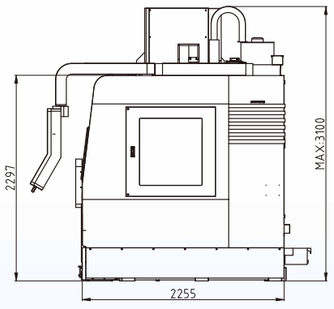
VC1200 Unit: mm



Top View



Front View



Side View

TOOL SHANK: BBT40
RRTENSION PULL STUD: BT40(45°)

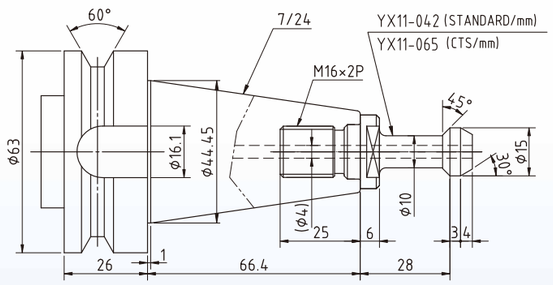
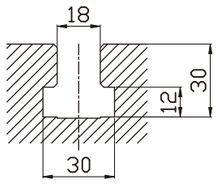
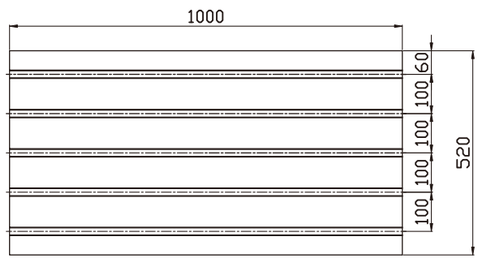


Table & T-slot Unit: mm

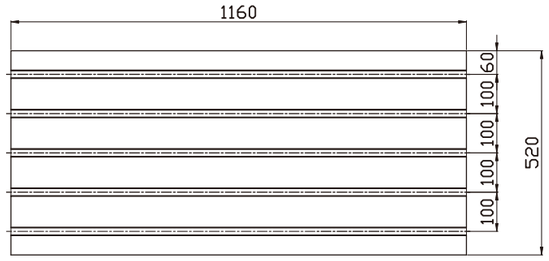
VC0852 / VC1052



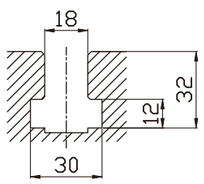
VC0852

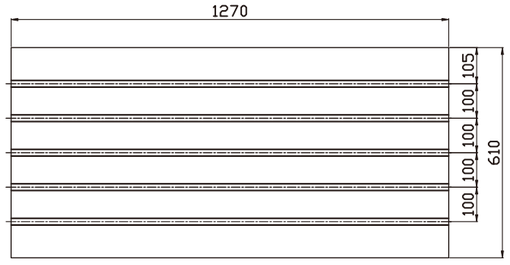


VC1052

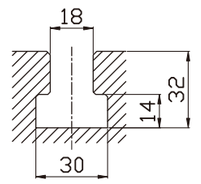


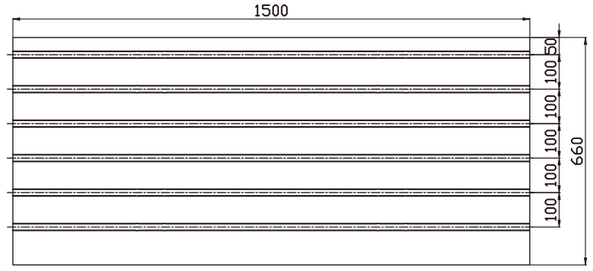
VC1000





VC1200





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