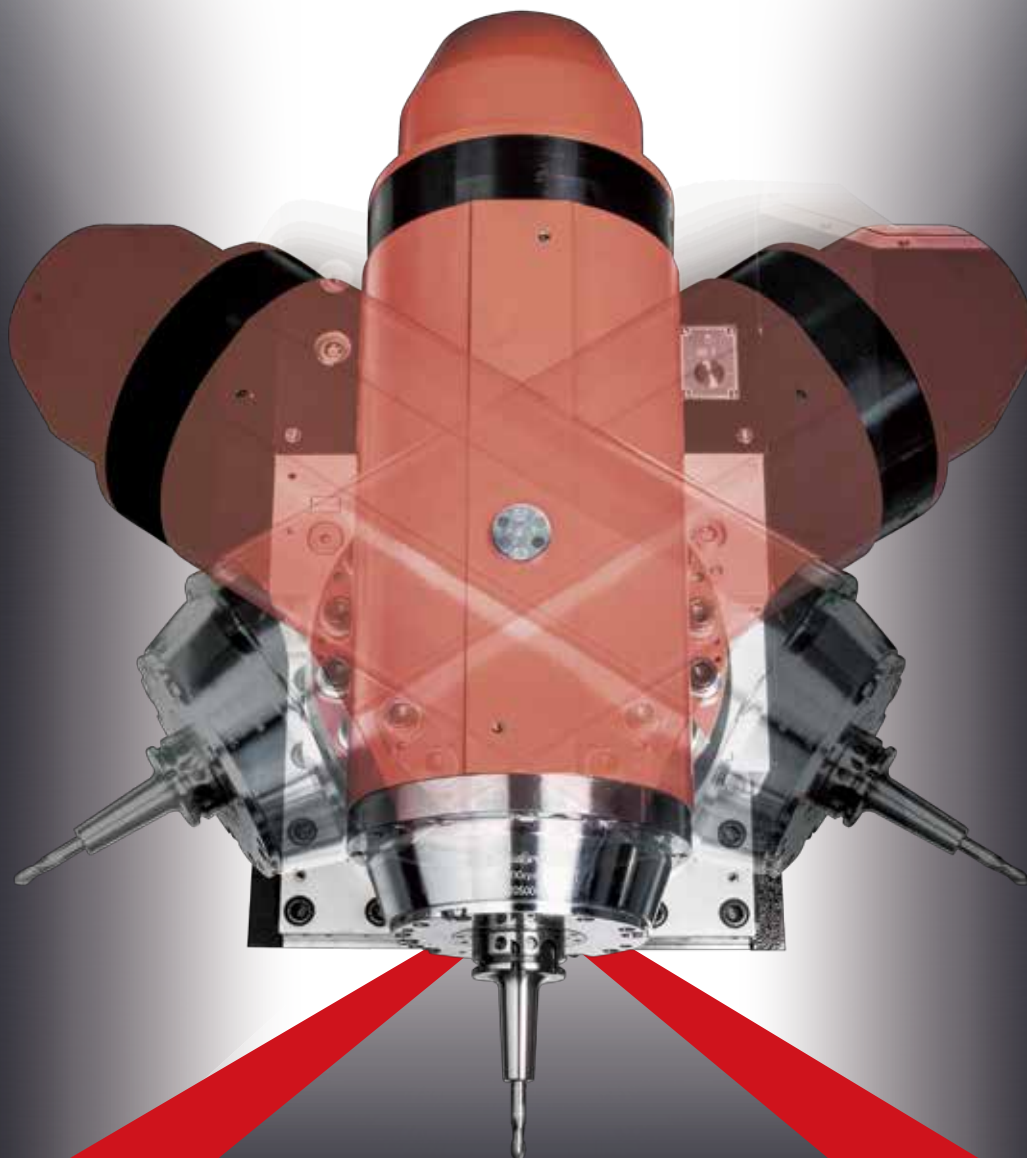




MANFORD

POWER & DETERMINATION

5 AXES MACHINING CENTER

VU-620

5 AXES MACHINING CENTER



MACHINE WEIGHT

8,200 kgs

About VU-620

VU-620 offers high speed, high accuracy and more reliable quality. Twin doors design with wide open space is easy for loading workpiece. Movable column C-shape provides superior rigidity. Rotary table with one-piece iron casting provides excellent ductility and greater anti-vibration. Rotary table selection: standard worm gear, or double DD motor.

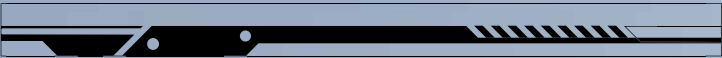


CNC Control	Heidenhain TNC640 Siemens ONE
X Travel	620 mm
Y Travel	520 mm
Z Travel	460 mm
Spindle Nose to Table Surface	150 ~ 610 mm
Table Diameter	Ø650 mm
T-slot (Q'ty x Size x Dist)	5 x 18 mm x 100 mm
Table Load Capacity	300 kgs (Horizontal) 200 kgs (Tilting)
B Axis Tilting Range	-50° ~ +110°
C Axis Rotating Range	360°

Spindle Transmission	Direct type (opt. Built-in)
Spindle Taper	BBT40/DIN40 (opt. HSK-A63)
Spindle Speed	12,000 rpm (opt. 15,000 rpm)
Spindle Motor	10/12.5 kW
Rapid Feedrate (X/Y/Z)	36 / 36 / 36 M/min
ATC Capacity	32 tools (opt. 40/60 tools)
Max. Tool Diameter	Full: Ø75 mm Next empty: Ø125 mm
Floor Space	2,200 x 3,320 x 3,100 mm
Machine Weight	8,200 kgs

* Spindle motor power depends on motor selection.

VG-800



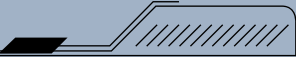
5 AXES-GANTRY TYPE



MACHINE WEIGHT

20,000 kgs

About VG-800

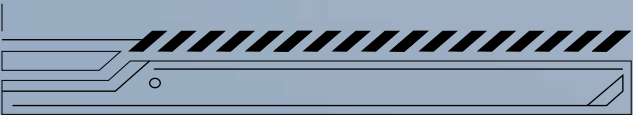


The advanced gantry type structure design provides greater stability, optimal high precision and superior working flexibility when applied to complex workpieces. Powerful 5-axes simultaneous machining is generated by the high dynamics of the tool motion (3-axes) and workpiece motion (2-axes).

The two rotary axes in the table are driven by a built-in motor with high torque.



CNC Control	Heidenhain TNC640 Siemens ONE
X Travel	800 mm
Y Travel	1,245 mm (-510 ~ +390 + 345 Tool change travel)
Z Travel	620 mm
Spindle Nose to Table Surface	100 ~ 720 mm
Table Diameter	Ø800 mm
T-slot (Q'ty x Size x Dist)	7 x 14 mm x 100 mm
Table Load Capacity	1,000 kgs (Horizontal) 500 kgs (Tilting)
A Axis Tilting Range	-120° ~ +30°
C Axis rotating Range	360°

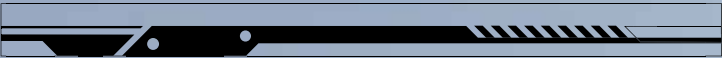


Spindle Transmission	Built-in
Spindle Taper	HSK-A63
Spindle Speed	15,000 rpm
Spindle Motor	21/25 kW
Rapid Feedrate (X/Y/Z)	48 / 48 / 48 M/min
ATC Capacity	32 tools (opt. up to 120 tools)
Max. Tool Diameter	Full: Ø75 mm Next empty: Ø125 mm
Floor Space	3,850 x 4,849 x 3,887 mm
Machine Weight	20,000 kgs

* Spindle motor power depends on motor selection.

VX-600 / VX-600T

VX-800 / VX-800T



5 AXES-TILTING HEAD

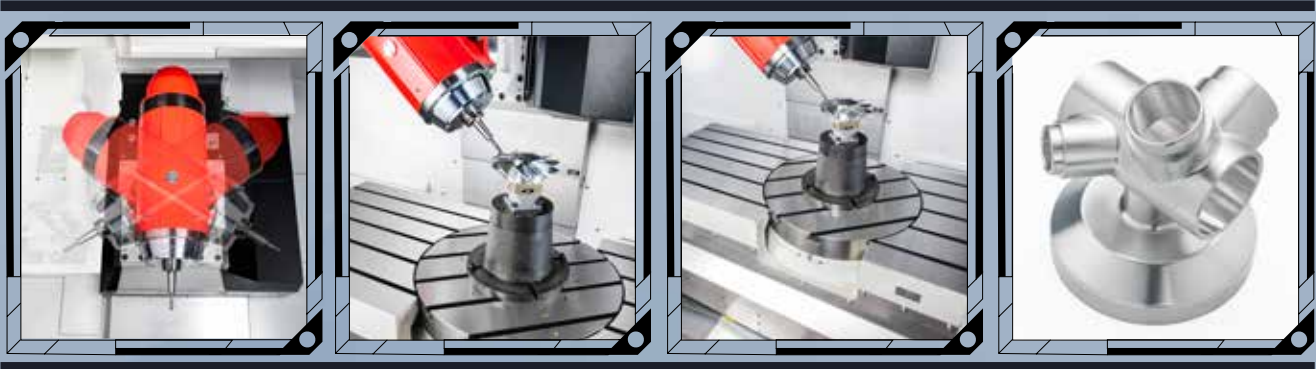


MACHINE WEIGHT

12,000 kgs

About VX series

VX-600T 5-axes Machining Center has been highly recognized by customers. VX Series was designed with a swiveling spindle head and equipped with a 15,000 rpm built-in spindle. Furthermore, this machine uses an embedded rotary table. Any complex workpiece can be accomplished with a single setup.



VX-600 VX-600T	
CNC Control	Heidenhain TNC640 Siemens ONE
X/Y/Z Travel	1,300 / 700 / 700 mm
Table size	700 x 1,450 mm
Tilting Spindle Head (B axis)	
Tilting Angle	-120° ~ +30°
Spindle Transmission	Built-in
Spindle Taper	BBT40 HSK-T63
Spindle Motor	21/25 kW
Spindle Speed	15,000 rpm 12,000 rpm
C Axis	
Transmission	DD motor
Table Diameter	Ø630 mm
T-slot (size x Q'ty x dist.)	18 mm x 5 x 125 mm
Table Load Capacity	1,000 kgs 600 kgs
Max Speed	120 rpm 1,200 rpm
Rapid Feedrate (X/Y/Z)	30 / 30 / 24 M/min
ATC Capacity	24 tools (opt. 30/32/40 tools)
Floor Space	4,850 x 3,450 x 3,150 mm
Machine Weight	12,000 kgs

VX-800 VX-800T	
CNC Control	Heidenhain TNC640 Siemens ONE
X/Y/Z Travel	1,600 / 900 / 850 mm
Table size	850 x 1,800 mm
Tilting Spindle Head (B axis)	
Tilting Angle	-120° ~ +30°
Spindle Transmission	Built-in
Spindle Taper	BBT40 HSK-T63
Spindle Motor	21/25 kW
Spindle Speed	15,000 rpm 12,000 rpm
C Axis	
Transmission	DD motor
Table Diameter	Ø800 mm
T-slot (size x Q'ty x dist.)	22 mm x 5 x 150 mm
Table Load Capacity	1,500 kgs
Max Speed	60 rpm 500 rpm
Rapid Feedrate (X/Y/Z)	16 / 16 / 16 M/min
ATC Capacity	24 tools (opt. 30/32/40 tools)
Floor Space	6,920 x 4,910 x 1,930 mm
Machine Weight	19,000 kgs

* Spindle motor power depends on motor selection.

RU-350

5 AXES MACHINING CENTER



MACHINE WEIGHT

9,500 kgs

About RU-350

- RU-350 5-Axes Machining Center is designed for multiaxes machining of small and large series of complex 5-sides workpieces. The application industry of RU-350 includes Aerospace industry, Automotive industry and High-Tech electronics industry.
- BBT40 taper provides a firmer grip to the tools, which prevents tool vibration that affects machining accuracy. High speed built-in spindle 24,000 rpm built-in is available as option.
- RU-350 is with an embedded Ø350 mm diameter rotary table. Any complex workpiece can be accomplished with a single setup. Maximum rotating diameter is Ø480 mm (Ø500 mm).
- Special structure design for working table which provides easy chip removal.

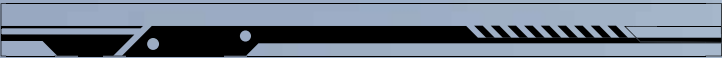


CNC Control	Fanuc 0iMF 15"
X Travel	630 mm (+270 ~ -360)
Y Travel	630 mm (+280 ~ -350)
Z Travel	510 mm
Spindle Nose to Table Surface	70 ~ 580 mm
Table Diameter	Ø350 mm
T-slot (Q'ty x Size x Dist)	8 x 12 mm x 45°
Table Load Capacity	200 kgs (Horizontal) 150 kgs (Tilting)
A Axis Tilting Range	-120 ~ +10°
C Axis Rotating Range	360°

Spindle Transmission	Direct drive
Spindle Taper	BBT40
Spindle Speed	12,000 rpm
Spindle Motor	7.5/11 kW
Rapid Feedrate (X/Y/Z)	36 / 36 / 36 M/min
ATC Capacity	32 tools (opt. 48/60 tools)
Max. Tool Diameter	Full: Ø75 mm Next empty: Ø125 mm
Floor Space	4,418 x 2,966 x 3,184 mm
Machine Weight	9,500 kgs

* Spindle motor power depends on motor selection.

VF-300U



5 AXES MACHINING CENTER

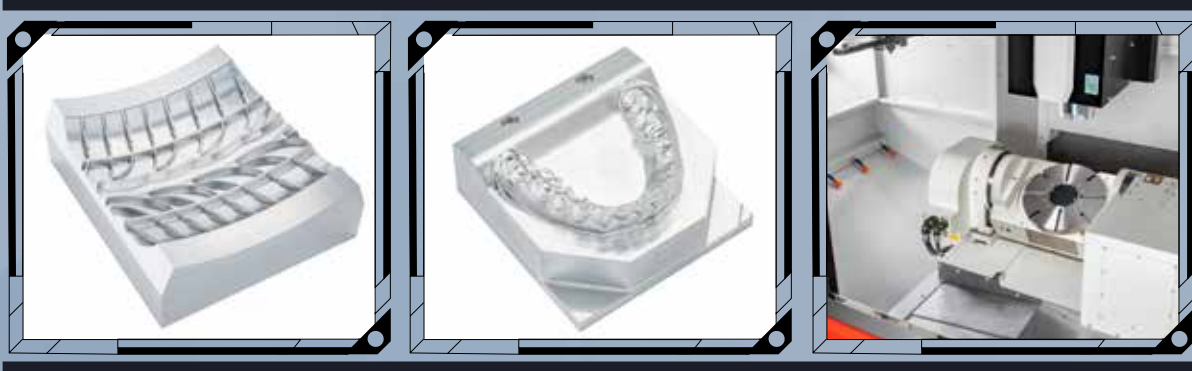


MACHINE WEIGHT

8,500 kgs

About VF-300U

Equipped with an A & C axes, VF-300U provides higher performance on various workpieces with its high precision and multiple functions features. The direct drive spindle enhances the machining precision as well as stability. VF-300U can be used for light and smaller pieces and is perfect on complex works.



CNC Control	Fanuc
X Travel	1,020 mm
Y Travel	610 mm (-286 ~ + 324)
Z Travel	510 mm
Spindle Nose to Table Surface	40 ~ 550 mm
Table Diameter	Ø350 mm
T-slot (Q'ty x Size x Dist)	8 x 12 mm x 45°
Table Load Capacity	200 kgs (Horizontal) 150 kgs (Tilting)
A Axis Tilting Range	-120° ~ +30°
C Axis Rotating Range	360°

Spindle Transmission	Direct type
Spindle Taper	BT40
Spindle Speed	12,000 rpm (opt. 15,000 rpm)
Spindle Motor	7.5/11 kW
Rapid Feedrate (X/Y/Z)	36 / 36 / 36 M/min
ATC Capacity	24 tools
Max. Tool Diameter	Full: Ø100 mm Next empty: Ø150 mm
Floor Space	3,910 x 2,415 x 3,760 mm
Machine Weight	8,500 kgs

* Spindle motor power depends on motor selection.

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