

04

VERTICAL MACHINING CENTER

LINEAR GUIDE WAYS

- VL-550
- VL-610
- VL-800
- VL-850 / VL-1000
- VL-1050 / VL-1200
- VL-1300 / VL-1600
- VL-1690 / VL-2090

BOX WAYS

- VH-510 / VH-610
- VH-850 / VH-1000
- VH-1100 / VH-1300
- VH-1320
- VH-1600 / VH-2000

A wide selection of Vertical Machining Centers
in box ways and linear guide ways
Positioning accuracy: $\pm 0.005\text{mm} / 300\text{mm}$
Repeating accuracy: $\pm 0.003\text{mm} / 300\text{mm}$.

VL-610

VERTICAL MACHINING CENTER

- Linear Guide Ways

* Guarding LED light is optional



MACHINE WEIGHT
4,000 kgs

» SUPPLY TRAY ELASTIC TRANSFORMATION

The feeding tray and the feeding cart only need to replace the material plate when the workpiece is different, and the customer parts are elastically changed. (The size of the tray is available for customers to change)

» FRONT AND BACK PROCESSING

Work-piece can be turned over with steering gear to allow the pulled semi-finished product to be put into the next process to continue processing.

» BUILT-IN AUTOMATIC DOOR

The feeder has a built-in automatic door. The processing machine can be installed without the need of an additional automatic door. The waterproof strip is integrated to prevent water droplets from leaking out. (Optional automatic door)

» BUCKLING TYPE REFUELING

Finished parts can be pulled out directly, as the billet is continuously fed to shorten the refueling time.

» SAFETY PROTECTION

Machines can be equipped with safety guards to CE specifications to reduce work hazards.

» QUICK INSTALLATION

Quick plug-in design to start to operation easily.

» MINIMIZED MACHINE WIDTH

Together with the processing machine, the back width is only 1100mm to minimize the space.



VL-610	
X Travel	610 mm (24")
Y Travel	460 mm (18.1")
Z Travel	510 mm (20")
Spindle Nose to Table Surface	125-635 mm (4.9"-25")
Table size	800 x 450 mm (31.5"x17.7")
T-slot (Q'ty x Size x Dist)	3 x 18 x 100 mm
Max. Table Load	400 kgs
Spindle Transmission	Belt type / (opt. direct type / build in)
Spindle Taper	BT40
Spindle Speed	10,000rpm (opt. 15,000-24,000rpm)
ATC Capacity	16 tools (opt. 24 tools)
CNC control	Mitsubishi / Fanuc / Fagor Siemens / Heidenhain
Spindle Motor	7.5 / 10HP
Floor space	2,160 x 2,435 x 2,550 mm
Machine Weight	4,000 kgs

* Spindle motor power depends on controller and spindle transmission selection

VL-1050 VL-1200

VERTICAL MACHINING CENTER

- Linear Guide Ways

* Guarding LED light is optional



MACHINE WEIGHT
6,310 kgs

Roller type linear guide ways

The Linear Motion Guideways feature low friction and free from stick-and-slip problems. Such characteristics are especially suitable for high speed 3D cutting and finishing. The quality of workpiece surface is increased; the need of manual polishing of workpiece surfaces is reduced.



VL-1200	
X Travel	1,200 mm (47.2")
Y Travel	610 mm (24.4")
Z Travel	610 mm (24.4")
Spindle Nose to Table Surface	150-760 mm
Table size	1,300 x 600 mm
T-slot (Q'ty x Size x Dist)	18 x 5 x 100 mm
Max. Table Load	1,200 kgs
Spindle Transmission	Belt type
Spindle Taper	BT40
Spindle Speed	8,000 rpm (opt. 10,000-15,000 rpm)
ATC Capacity	24 tools(opt. 30 tools)
CNC control	Mitsubishi / Fanuc / Siemens/ Heidenhain / Fagor
Spindle Motor	10/ 15 HP
Floor space	3,450 x 2,472 x 3,197mm
Machine Weight	6,310 kgs

* Spindle motor power depends on controller and spindle transmission selection

VL SERIES

VERTICAL MACHING CENTER

- Linear Guide Ways



* Guarding LED light is optional



	VL-550	VL-610	VL-800	VL-850	VL-1000
X Travel	550 mm (21.7")	610 mm (24")	850 mm (33.5")	850 mm (33.5")	1,020 mm (40.2")
Y Travel	410 mm (16.1")	460 mm (18.1")	510mm (20")	510mm (20")	510 mm (20.1")
Z Travel	460 mm (18.1")	510 mm (20.1")	510mm (20")	510mm (20")	560 mm (22")
Spindle Nose to Table Surface	130~590 mm	125~635 mm	140 ~ 650 mm	140 ~ 650 mm	150~710 mm
Table size	600 x 320 mm	800 x 450 mm	950 x 500 mm	1,000 x 500 mm	1,200 x 500 mm
T-slot (Q'ty x Size x Dist)	3 x 14 x 100 mm	3 x 18 x 100 mm	18 x 5 x 100 mm	18 x 5 x 100 mm	5 x 18 x 100 mm
Max. Table Load	350 kgs	400 kgs	400 kgs	400 kgs	800 kgs
Spindle Taper	BT40	BT40	BT40	BT40	BT40
Spindle Speed	10,000 rpm (opt. 10,000~15,000 rpm)	10,000rpm (opt. 15,000~24,000rpm)	10,000 rpm (opt. 10,000~15,000 rpm)	10,000 rpm (opt. 10,000~15,000 rpm)	8,000 rpm (opt. 10,000~15,000 rpm)
Floor space	2,000 x 2,305 x 2,460mm	2,160 x 2,435 x 2,550 mm	2,600 x 2,405 x 2,563mm	2,900 x 2,262 x 2,789mm	2,900 x 2,262 x 2,789mm
Machine Weight	2,800 kgs	4,000 kgs	3,680 kgs	5,000 kgs	5,190 kgs

Positioning accuracy: ±0.005/300mm
Repeating accuracy: 0.003/300mm

VL-1050	VL-1200	VL-1300	VL-1600	VL-1690	VL-2090
1,050mm (41.3")	1,200mm (47.2")	1,300mm (51.2")	1,600 mm(63")	1,600 mm(63")	2,000 mm(78.7")
610 mm (24.4")	610 mm (24.4")	700 mm (27.6")	700 mm (27.6")	900 mm (35.4")	900 mm (35.4")
610 mm (24.4")	610 mm (24.4")	700 mm (27.6")	700 mm (27.6")	850 mm (33.5")	850 mm (33.5")
150~760 mm	150~760 mm	130~830 mm	130~830 mm	150~1,000 mm	150~1,000 mm
1,150 x 600 mm	1,300 x 600 mm	1,450 x 700 mm	1,750 x 700 mm	1,800 x 850 mm	2,200 x 850 mm
5 x 18 x 100 mm	5 x 18 x 100 mm	5 x 18 x 125 mm	5 x 18 x 125 mm	5 x 22 x 150 mm	5 x 22 x 150 mm
700 kgs	1,200 kgs	1,500 kgs	1,500 kgs	1,500 kgs	2,000 kgs
BT40	BT40	BT40	BT40	BT40	BT40
8,000 rpm (opt. 10,000~15,000 rpm)	8,000 rpm (opt. 10,000~15,000 rpm)	8,000rpm	8,000rpm	8,000rpm	8,000rpm
3,050x2,472x2,994mm	3,450x2,472x3,197mm	3,650x2,507x2,997mm	4,350x2,507x3,240mm	4,250x3,528x3,501mm	5,050x3,756x3,972mm
6,310 kgs	6,310 kgs	8,510 kgs	8,860 kgs	16,000 kgs	17,390 kgs