

Maximum Performance Vertical Turning Centers - GV-1 Series



MAXIMUM PERFORMANCE VERTICAL TURNING CENTERS

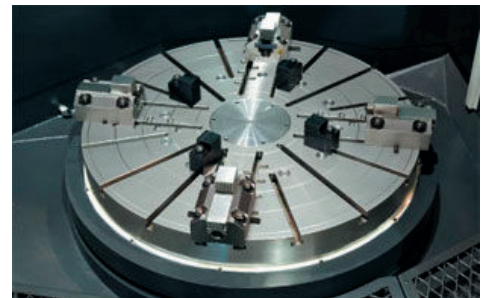
Packed with industry leading technology and top quality components, the Goodway GV-1 series vertical turning centers combine incredible power, strong constructions, and heavy duty cutting capabilities to bring you The Ultimate Machining Power®. These maximum performance machines will easily accomplish the demanding turning applications of today and tomorrow. With maximum turning diameter up to 1,800 mm (70.9"), maximum weight load up to 8,000 kg (17,600 lb), and available live tooling spindle & Cf-axis capabilities, turning, milling, contour milling and drilling applications may be completed in one single machine.

- The high-rigidity vertical turning center construction, can easily overcome horizontal turning centers' problems when machining large-diameter, heavy-weight and non-symmetrical work pieces.
- Fully enclosed splashguards keep chips and coolant contained for a safe clean working environment.
- Extra wide door width up to 2,100 mm (82.7") (GV-1200 : 1,800 mm (70.9")) enables large size work pieces to be loaded onto the work table with a crown block providing easy loading and unloading operations.

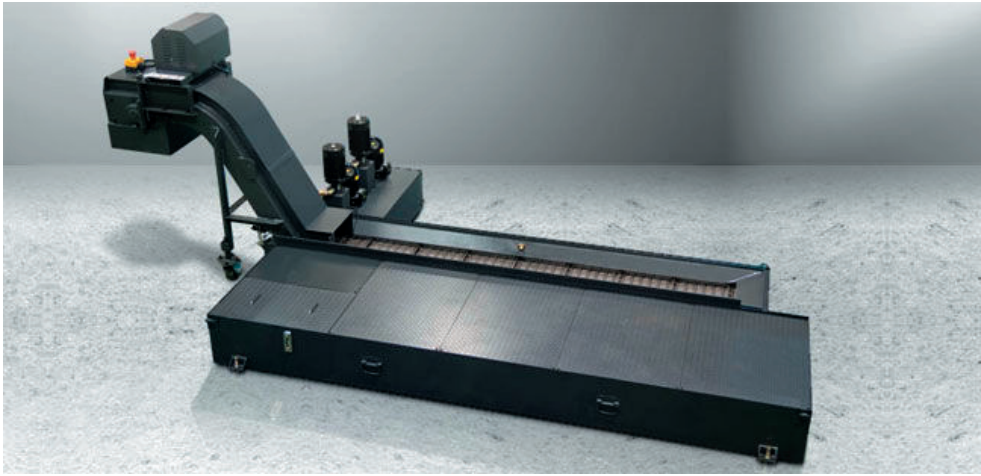
Models	GV-1200	GV-1600
Max. swing diameter	Ø 1,600 mm (63.0")	Ø 2,000 mm (78.7")
Max. turning diameter	Ø 1,350 mm (53.1")	Ø 1,800 mm (70.9")
Max. turning length	1,300 mm (51.2")	1,300 mm (51.2")
Max. weight load	5,000 kg (11,000 lb)	8,000 kg (17,600 lb)
Live tooling spindle	Optional	Optional

Specifications are subject to change without notice.

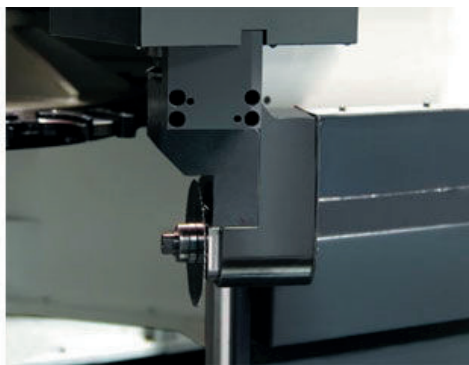
- High rigidity work table with a standard 4-jaws individual manual chuck provides easy operation and outstanding heavy-duty cutting capability.
- With the outstanding chip disposal design, chips can be easily brought out through the coolant tank and chip conveyor to the chip cart.



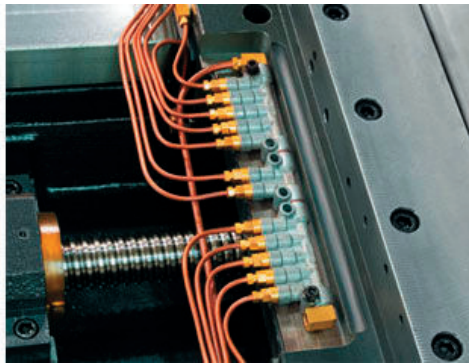
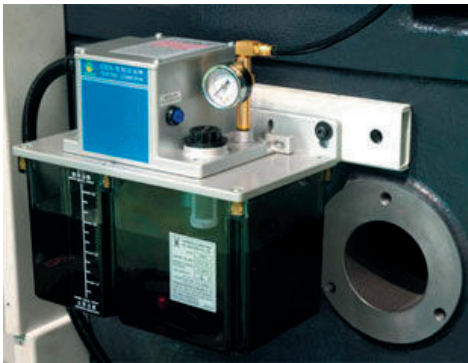
- Super large 900L coolant tank capacity allows smooth coolant circulation which tremendously improves the machine's overall accuracy by lowering thermal expansion effects to a minimum.



- The coolant system features a roll-out coolant tank for easy maintenance.
- Right discharge chip conveyor can be equipped with a programmable controller to minimize coolant loss and increase chip disposal efficiency.
- Standard BT-50 16-tool umbrella type ATC with fully enclosed guarding can be equipped with various turning, milling, and drilling tools based on different turning applications.



- The auto lubrication system delivers metered amounts of lubrication to the slide ways, ball screws, and vital components. Distribution is automatically shut off during idling to prevent waste.



CAPACITY	GV-1200	GV-1600
Table diameter	Ø 1,250 mm (49.2")	Ø 1,600 mm (63.0")
Max. swing diameter	Ø 1,600 mm (63")	Ø 2,000 mm (78.7")
Max. turning diameter	Ø 1,350 mm (53.1")	Ø 1,800 mm (70.9")
Max. turning length	1,300 mm (51.9")	
Max. table load	5,000 Kg (11,000 lb)	8,000 Kg (17,600 lb)

WORK PIECE SPINDLE	GV-1200	GV-1600
Spindle bearing diameter	Ø 423 mm (16.65")	Ø 580 mm (22.83")
Spindle motor type	FANUC α 40 / 6,000i	
Motor output (Cont.)	37 kW (50.5 HP)	
Motor output (30 min.)	45 kW (61.4 HP)	
Gear step	2	
Spindle speed range	25 ~ 350 rpm	25 ~ 250 rpm
Max. spindle torque	17,200 N-m (12,676 ft-lb)	24,100 N-m (17,761 ft-lb)

TOOLING SPINDLE (OPTIONAL)	GV-1200M	GV-1600M
Spindle motor type	FANUC α 8 / 8,000 i	
Motor output (Cont.)	7.5 kW (10 HP)	
Motor output (30min.)	11 kW (15 HP)	
Spindle speed range	24 ~ 2,400 rpm	

Cf AXIS	GV-1200	GA-1600
Cf-axis motor	FANUC α 12 / 3,000 i	
Motor output	3 kw (4.1 HP)	
Cf - axis speed range	13 rpm	9 rpm
Cf - axis torque output	2,740 N-m (2,020 ft-lb)	3,840 N-m (2,830 ft-lb)

X & Z AXES	GV-1200	GV-1600
Max. X-axis travel	935 mm (36.81")	1,165 mm (45.9")
Max. Z-axis travel	900 mm (35.43")	
Max. W-axis travel	750 mm (29.5")	
X / Z axes rapids	12 / 10 m / min. (472.4 / 393.7 IPM)	
X-axis servo motor	FANUC α 30 / 3,000 i	
Z-axis servo motor	FANUC α 40 / 3,000 i	
X-axis servo motor output	7 kw (9.5 HP)	
Z-axis servo motor output	6 kw (8.1 HP)	

ATC	GV-1200	GV-1600
Magazine Capacity	16	
Spindle taper	BT-50	
Max. tool size	280 x 150 x 400 mm (11.0" x 5.9" x 15.7")	
Max. tool weight	50 kg (110.3 lb.)	
Max. magazine load	360 kg (793.8 lb.)	
Tool change time	40 sec.	

GENERAL	GV-1200	GV-1600
Positioning accuracy	± 0.007 / 500 mm (± 0.000275" / 19.7")	
Repeatability	± 0.005 mm (± 0.0002")	
Standard CNC control	FANUC Oi-TD	
Voltage / Power requirement	AC 200 / 220 + 10% to - 15% 3 phase / 100 KVA	
Hydraulic / capacity	70 L	
Coolant Tank capacity	900 L	
Machine weight	23,500 Kg (51,700 lb)	25,500 Kg (56,100 lb)
Dimensions L × W × H	3,660 x 3,873 x 5,395 mm (144.1" x 152.5" x 212.4")	3,860 x 4,128 x 5,395 mm (152.0" x 162.5" x 212.4")