

HVG 1200

High Precision CNC Vertical Grinding Machine

The turret of HVG-1200 can have 3-different wheel with each spindle motor at 3-position, and can perform internal/external/surface grinding by only one set-up. This vertical grinder will improve productivity and reduce cost.

Vertical structure

- Convenient workpiece chucking and easy centering work reduce the lead time.
- Stable structure for heavy workpiece grinding process.
- Double thrust bearing and DC roller bearing are adopted for stability and accuracy.
- Maximum rigidity by one piece casting of bed, column, saddle and cross-rail.

3-Head turret

- Single set-up and complex grinding (internal/external/surface) by one turret will improve productivity.
- One each degree index of turret will meet various demands of grinding process.



Machine Specifications

Items		Unit	HVG-1200
Capacity	Maximum swing	mm(inch)	Ø1200(47.2)
	Range of internal dia.	mm(inch)	Ø100-1100(3.9-43.3)
	Range of external dia.	mm(inch)	Max.1200(47.2)
	Grinding range (I.D)	mm(inch)	500(19.7)
	Grinding range (O.D)	mm(inch)	500(19.7)
	Workpiece height	mm(inch)	500(19.7)
	Maximum load on table	kg(lbs)	1000(2200)
Work Spindle	Table diameter	mm(inch)	Ø1000(39.4)
	Spindle speed	rpm	1~300
	Chuck	-	Magnetic chuck
Grinding Wheel Spindle(ID)	Wheel diameter	mm(inch)	Ø95(3.7)
	Wheel spindle speed	rpm	Max.3450
	Power (cont.)	kW(Hp)	7.5(10)
Grinding Wheel Spindle(OD)	Wheel diameter	mm(inch)	Ø450(17.7)
	Wheel spindle speed	rpm	Max.1750
	Power (cont.)	kW(Hp)	7.5(10)
Grinding Wheel Spindle(Face)	Wheel diameter	mm(inch)	Ø375(14.8)
	Wheel spindle speed	rpm	Max.1750
	Power (cont.)	kW(Hp)	7.5(10)
Motors	Spindle motor	kW(Hp)	AC 15/18.5(20/30)
	X-axis servo motor	kW(Hp)	AC 7(9.3)
	Z-axis servo motor	kW(Hp)	AC 7(9.3)
Machine Size	Machine height	mm(inch)	4500(177)
	Floor space (W×L)	mm(inch)	6660×2800(260×110)
	Machine Weight	kg(lbs)	23000
CNC Controller		-	FANUC 0i-TD

Standard Accessories

- Magnetic chuck Ø40"
- Hydraulic unit
- Coolant system
- Fully enclosed splash guard
- Manual wheel dresser
- X/Z-axis protect steel cover
- Chip pan
- LED work light
- Patrol lamp
- Foundation bolts and plates
- Tool box with maintenance tools

Optional Accessories

- Automatic front door
- Tool setter
- Work probe
- Automatic wheel dresser
- Operation monitoring system
- Chip air blow system
- Oil mist collector
- Coolant filtration system
- Transformer

Specifications and features are subject to change without prior notice.



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