

OKK



High Rigid Bridge Type Machining Center

VG13000

The combination of the sturdy bridge structure with large roller guide-ways and robust spindle head delivers high speed and rigid machining.

High-speed and rigid spindle

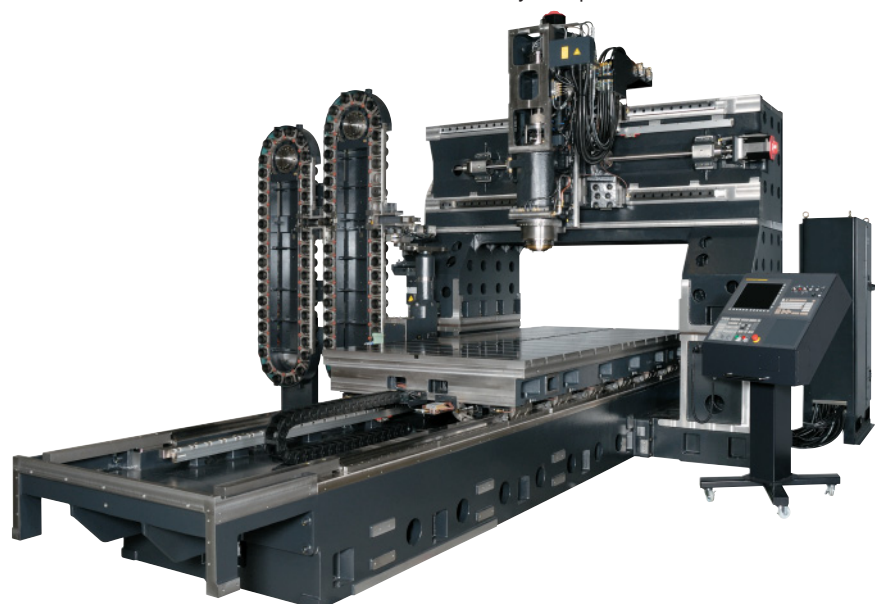
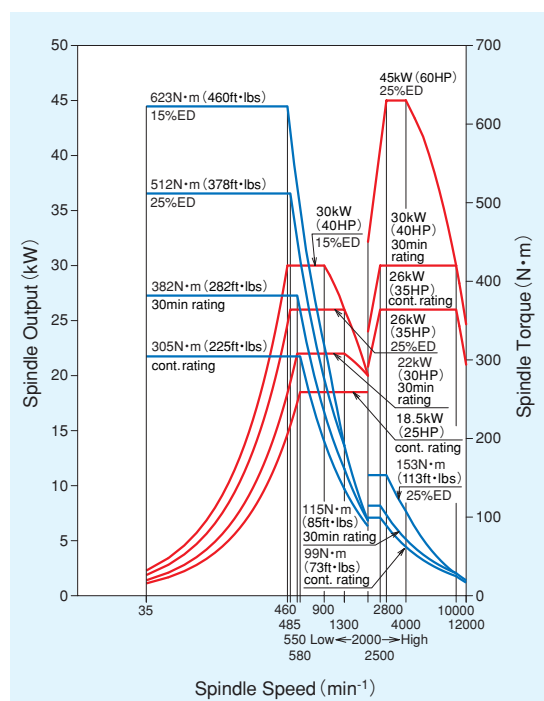
The 7/24 taper (No.50) spindle has a four-row combination angular bearings at 100mm (3.94") inner diameter. The built-in spindle motor produces a speed range from 35 to 12,000min⁻¹ and a maximum power of 623N·m (460ft·lbs) [15%ED]. This performs the heavy rough cutting of difficult-to-machine materials.

Very rigid structure

The bed and column incorporate triangular ribbed construction which delivers superior rigidity to withstand heavy cutting conditions and excellent machining vibration damping characteristics.

Performs high-precision machining

The utilization of the highest quality roller guide-ways results in fine-feeding performance and excellent circularity machining precision. The adoption of double-anchor ball screws minimizes lost motion. The core chilled ball screws and coolant shelter surrounding the spindle head allow thermal displacement suppression. The standard HQ control ensures improved machining stability and precision.



Specifications

Item	Unit	Specification	
		VG13000	VG13000-30L
Travel on X axis (Table right / left)	mm	2140 (84.25")	3050 (120.08")
Travel on Y axis (Saddle back / forth)	mm	1300 (51.18") [+140 (5.51") :ATC st]	
Travel on Z axis (Spindle head up / down)	mm	610 (24.02")	
Distance from table top surface to spindle nose	mm	200~810 (7.87"~31.89")	
Table work surface area	mm	2500×1460 (98.43"×57.48") 3300×1460 (129.92"×57.48")	
Max. workpiece weight loadable on table	kg	6000 (13200 lbs)	
Distance from floor to table work surface	mm	1000 (39.37")	
Spindle speed	min ⁻¹	35~12000	
Number of spindle speed change steps		Electric 2-step speed change (MS)	
Spindle nose (nominal number)		7/24 taper, No.50	
Rapid traverse rate	m/min	X:20 (787ipm) YZ:24 (945ipm)	X:16 (630ipm) YZ:24 (945ipm)
Cutting feed rate *1	mm/min	1~20000 (0.04~787ipm)	1~16000 (0.04~630ipm)
Tool shank (nominal number)		JIS B6339 BT50	
Pull stud (nominal number)		OKK only 90°	

Item	Unit	Specification	
		VG13000	VG13000-30L
Number of stored tools *2	tool	40	
Max. tool diameter (with no tools in adjacent pots*3)	mm	φ115 (4.53") [φ230 (9.06")]	
Max. tool length (from the gauge line)	mm	400 (15.75")	
Max. tool weight	kg	20 (44 lbs)	
Tool selection method		Address fixed random method	
Tool exchange time (cut-to-cut)	sec	8	10
Spindle motor (15%ED/30min rating/cont.rating)	kW	40/30/25 (54/40/34 HP)	
Power supply	kVA	220V±10% 50/60Hz±1Hz 220V±10% 60Hz±1Hz	
Compressed air supply *4	MPa, L/min (ANR)	0.4~0.6 (58~87psi), 400 (106gpm)	
Machine height (from floor surface)	mm	3585 (141.14")	
Floor space required for operation (width×depth)	mm	8400×4660 (330.71"×183.46")	9875×4660 (388.78"×183.46")
Machine weight	kg	29000 (63900 lbs)	30000 (66100 lbs)
Controller		F31-B	

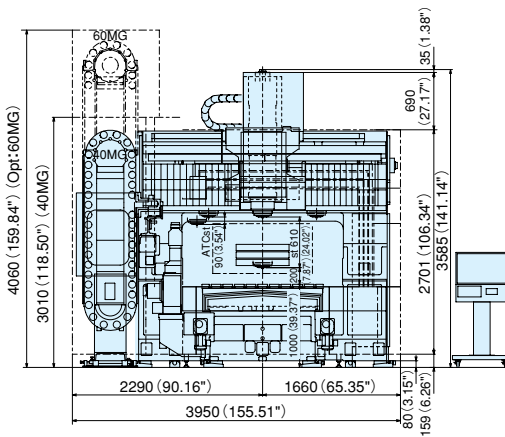
*1 : Under the HQ or Hyper HQ control

*2 : The number of storable tools refers the total number of tools including the one attached to the spindle i.e. subtract one from the above for the number of tools storable in the tool magazine.

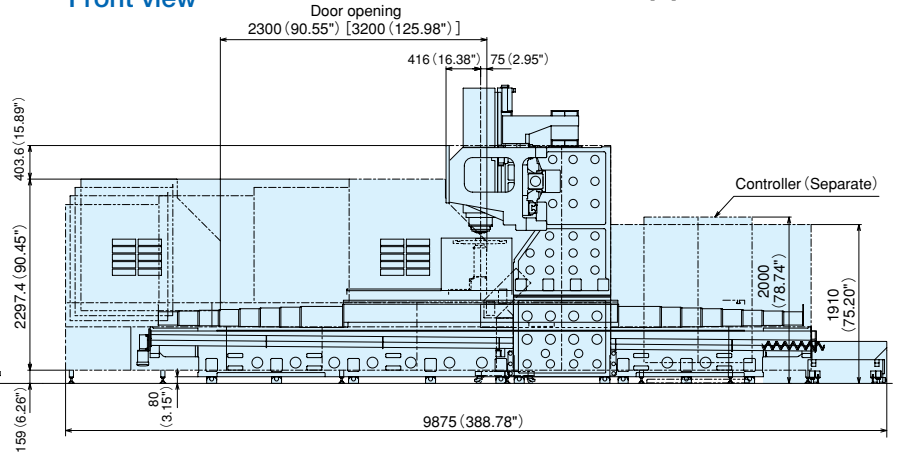
*3 : The maximum tool diameter will be φ230mm (9.06") when the distance from the gauge line is shorter than 220mm (8.66"), and it will be φ200mm (7.87") when the distance is longer than 220mm (8.66") and shorter than 400mm (15.75").

*4 : Purity of the supplied air should be equivalent to or higher than Class 3.5.4 specified in ISO 8573-1/JIS B8392-1.

Side view

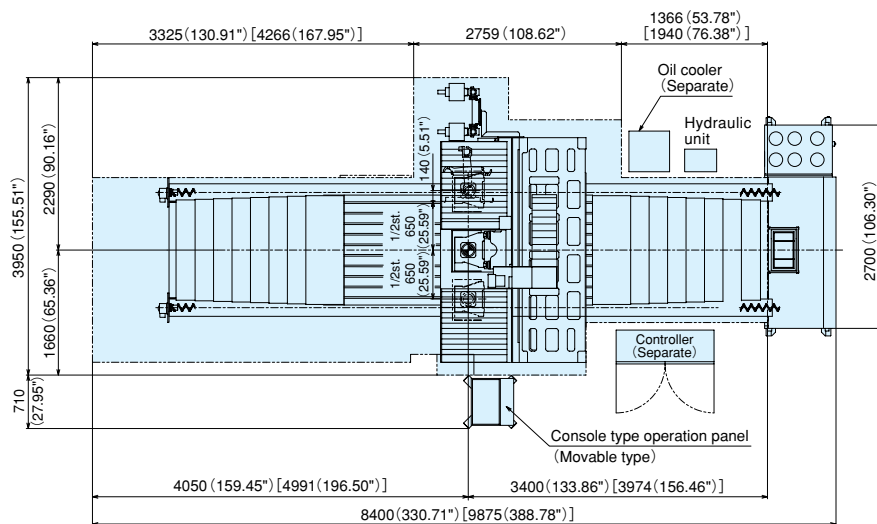


Front view

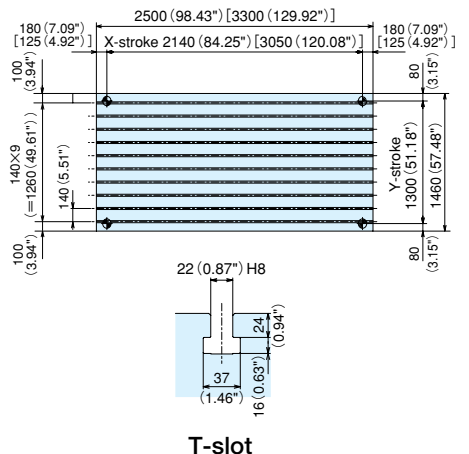


[] : VG13000-30L dimensions

Floor space



Table



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