



GVP-8040

CNC Gear Profile Grinding Machine

Founded in 1913, Matrix Machine tool has remained the world's market leader in the manufacture of high precision cylindrical gear grinding and External / Internal thread grinding machines. With the integrated strength from HIWIN group, we are proud to introduce the Matrix **GVP-8040**: CNC Vertical Type Gear Profile Grinding Machine. **GVP-8040** applies the FANUC controller and high speed grinding spindle; through the Matrix developed intelligent conversations window software, it can flexibly output the required tooth profile and grinding parameters.

The machining workpieces include involute gear, large-module hobs and cycloidal gears; the high-efficiency and high precision expressed from the products are equivalent to worldwide-top brand's ones; **GVP-8040** is your best choice.



GVP-8040

CNC Gear Profile Grinding Machine

Gear		GVP-8040
Max. workpiece outside diameter	800mm	31.4"
Tooth range	9~999	
Min. workpiece root diameter	50mm	1.9"
Module	M2.0~M20	DP12.7~DP 1.27
Max. tooth depth	45mm	1.7"
Helix angle range	±45°	

Hob cutter

Min. root diameter/Max. workpiece outside diameter	50mm~350mm	1.9"~13.7"
Max. flute depth	50mm	1.9"
Flute range	1~99	
Flute helix angel range	±40°	

MECHANICAL SPECIFICATIONS

Max. grinding slide travel (Y axis)	400(450)mm	15.7"(17.7")
Max. workpiece slide travel (Z axis)	500mm	19.6"
Tailstock center height above rotary table	550mm~1250mm	21.6"~49.2"
Table diameter	740mm	29.1"
Max. table load (workpiece with fixture)	2500 kg	5500 lb

GRINDING WHEEL SPECIFICATIONS

Min. dressable diameter of the grinding wheel	260mm / 400mm	10.2" / 15.7"
Max. grinding wheel diameter		
Max. grinding wheel thickness	70mm	2.7"
Max. grinding spindle speed	4000 rpm	
Drive power of grinding spindle	15kW	20Hp

ELECTRIC SYSTEM

Voltage	3Ø 220V	
Current Requirement	80 Amp	
Ambient Temperature	20°C ~ 26°C	68°F ~ 79°F
Max. Load of Machine	35 kVA	

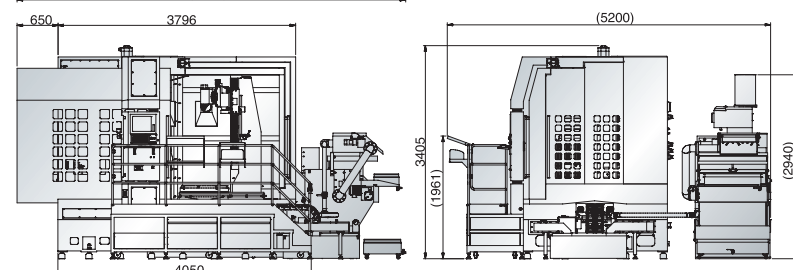
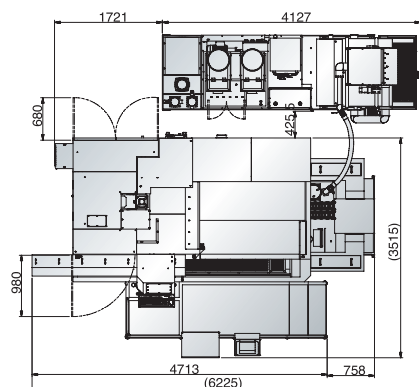
CNC CONTROLLER

FANUC

DIMENSION & WEIGHT

Space Requirement	L 6225 x W 5200 x H 3405mm (800mm (32") on each dimension is required for maintenance).	L 245" x W 205" x H 135"
Weight of Basic Machine	17000 kg	37500 lb

The specifications are subject to the contract, as well as new technology and industrial advancements available.



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