



MATRIX
GEAR GRINDING
SOLUTION

MHG-3040

CNC Hob Sharpening Machine

Matrix Machine Tool has dedicated time and resource to R&D and it is with pride that we announce a new machine to add to our specialist portfolio. The Matrix **MHG-3040** combines FANUC controls and PC with linear and direct drive motors to actuate the 6 axes for this high precision grinder. The **MHG-3040** can re-sharpen the blade edges of straight and helical hobs and helical shaper cutters. The Matrix precision developed intelligent conversation window software is easy to operate and programme.

The **MHG-3040** is highly efficient and highly accurate and should be the first choice for this type of machine tool.

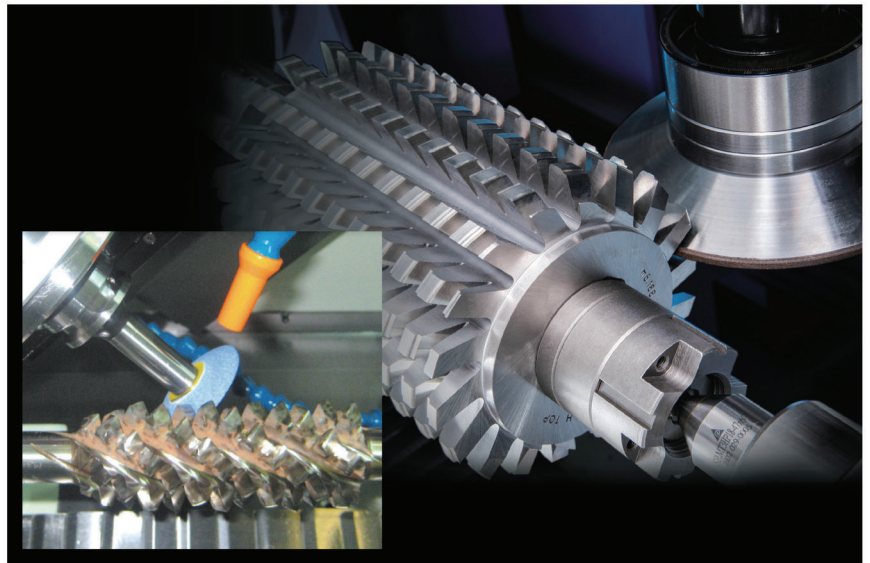




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MAIN SPECIFICATIONS		MHG-3040
Min./Max. workpiece outside diameter	20mm / 250mm	0.8" / 9.8"
Max. length	300mm	11.8"
Max. grinding depth	35mm	1.3"
Flute range	1 ~ 99	
Lead angle range	±20° (≤±40° optional)	
Gash lead range	1500 ~ ∞mm (300 ~ ∞mm optional)	59.0" ~ ∞" (11.8" ~ ∞" optional)
MECHANICAL SPECIFICATIONS		
Min. / Max. distance between centers	80mm / 550mm	3.1" / 21.6"
Max. axial slide travel (Z axis)	650mm	25.5"
Max. table load (Workpiece with carrier)	50kg	110lb
GRINDING WHEEL SPECIFICATIONS		
Min. abrasive grinding wheel root diameter/ Max. grinding wheel diameter	30mm / 125mm	1.1" / 4.9"
Max. grinding wheel thickness	25mm	0.9"
Max. rpm of grinding spindle	10000 rpm	
Drive power of grinding spindle	15kW	20Hp
ELECTRIC SYSTEM		
Voltage	3Ø 220V	
Current Requirement	50 Amp	
Ambient Temperature	10°C ~ 40°C	50°F ~ 104°F
Max. Load of Machine	20 kVA	
CNC CONTROLLER		
	FANUC	
DIMENSION & WEIGHT		
Space Requirement	L 4110 x W 3820 x H 2345mm (800mm (32") on each dimension is required for maintenance).	L 162" x W 151" x H 93"
Weight of Basic Machine	8500kg	18700lb

Note: It is strongly advised to keep the machine in controlled temperature environment. I.E. temperature control between 20°C ~ 26°C ±1°C will achieve gear Grade 4 to DIN 3962 and Grade 5 in the event of mass production.

Note: These capacities are subject to inevitable restrictions, depending upon wheel head, Helix angle, Work Holding, Support Equipment and are subject to change without notification.



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