



MATRIX
GEAR GRINDING
SOLUTION

MBGC-100/MBGG-100

CNC Bevel Gear Cutting Machine CNC Bevel Gear Grinding Machine

"Matrix Machine Tool Coventry) Ltd. continues to invest in R & D to bring back full range of Gear cutting & Grinding machines. As a result of recent successful launch of "MGG-0300" Continuous Generating Gear Grinding Machine, we are pleased to introduce "MBGC-100" Matrix Bevel Gear Cutting machine & "MBGG-100" Matrix Bevel Gear Grinding machine.

These machines are developed in conjunction with Mechanical Research Laboratories, ITRI and integrated resources from the best universities in U.K.

These two additional machine models compliment to our existing Gear Grinding and Thread Grinding Machines.

Needless to say, these machines are equipped with powerful Siemens 840 D Solution Line control system.





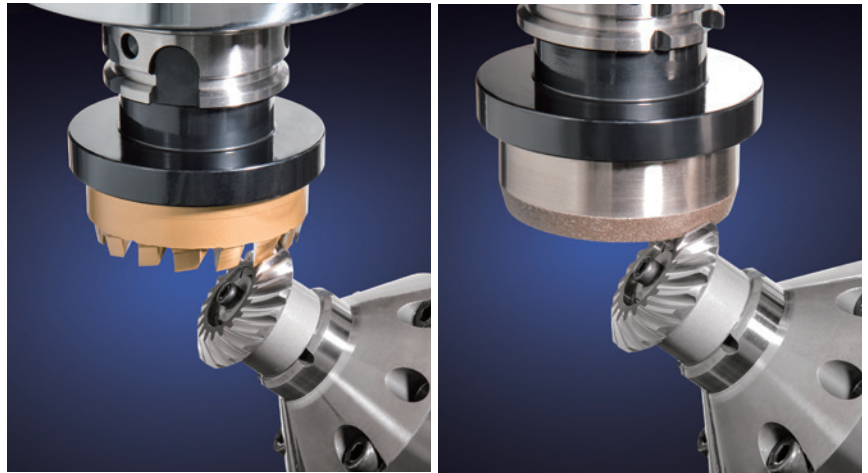
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MBGC-100

CNC Bevel Gear Cutting Machine

MBGG-100

CNC Bevel Gear Grinding Machine



WORKPIECE SPECIFICATIONS	MBGC-100	MBGG-100
Max. workpiece outside diameter	100mm	100mm
Max. module	M3	M3
MECHANICAL SPECIFICATIONS		
Tool/grinding wheel spindle revolutions	4000rpm	12000rpm
Max. slide travel for X-axis	400mm	400mm
Max. slide travel for Y-axis	350mm	350mm
Max. slide travel for Z-axis	350mm	350mm
B- axis tilt range	-100°~100°	-100°~100°
Smallest tool/wheel diameter	0.5"	0.5"
Largest tool/wheel diameter	4"	4"
Max. load of rotary table (workpiece with fixture)	50kg	50kg
ELECTRIC SYSTEM		
Voltage	3Ø 380V	
Current Requirement	30Amp	
Ambient Temperature	10°C ~ 40°C (50°F ~ 104°F)	
Max. load of Machine	25kVA	
FILTERING SYSTEM		
Cutting fluid filtration system	Magnet filter	Magnet filter + Paper filter
CNC CONTROLLER	Intek Technology M670/Siemens 840D sl (19" touch screen)	
DIMENSION & WEIGHT		
Space Requirement	L 2560 x W 3391 x H 2705mm L 3895 x W 2863 x H 2933mm (Reserve 800mm (32") at both right-left and front-back directions for maintenance space.)	
Weight of basic machine	6000Kg (13200 lb)	

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



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