

NEW FOR 2017



**MATRIX
GEAR GRINDING
SOLUTION**

MFG-3540

CNC Gear Form Grinding Machine

With past knowledge and experience combined with modern design Matrix has once again entered Gear Grinding Technology. We are proud now to introduce the new Matrix **MFG-3540**. Built on a stable frame structure and using traditional methods of manufacture the MFG-3540 offers high levels of accuracy and rigidity.

The **MFG-3540** Gear Form Grinding Machine applies FANUC controls and a high speed grinding spindle, through the Matrix developed intelligent conversations window the software supports the complete machining process. The machine can generate NC programme automatically through input parameters and the setting of grinding conditions via the conversation, improving efficiency and ease of programming for the machine operator.

Machine capabilities include involute and cycloidal gears.

Contact us to see why the MFG-3540 is the best choice.

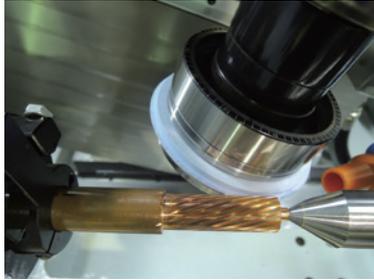


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MAIN SPECIFICATIONS

Grinding wheel spindle motor	170G	220G
Min. / Max. workpiece outside diameter	30mm / 400mm	30mm / 400mm
Max. module	M8 (DP3.2)	M8(DP3.2) (diamond point dresser) M12(DP2.1) (diamond rotary disc dresser)
Teeth range	9~999	9~999
Max. tooth depth	18mm	27mm
Helix angle	±45°	±45°

MECHANICAL SPECIFICATIONS

Min. distance between centers (standard)	14mm	80mm
Max. distance between centers (standard)	685mm	750mm
Max. distance between centers (through-bore in workhead)	1200mm	1200mm
Max. face width	(B-Axis 0°) 400mm	(B-Axis 0°) 400mm
Max. axial slide travel (Z-Axis)	(B-Axis 0°) 650mm	(B-Axis 0°) 650mm
Max. axial slide travel (Z-Axis)	(B-Axis 45°) 210mm	(B-Axis 45°) 235mm
A-axis can accommodate a maximum outside diameter of the workpiece	110mm	110mm
Max. table load (workpiece with fixture)	80kg	80kg

GRINDING WHEEL SPECIFICATIONS

Min. wheel root diameter/Max. wheel outside diameter	50mm / 230mm	210mm / 320mm
Max. grinding wheel thickness	30mm	40mm
Max.rpm of grinding spindle	10000 rpm	4000 rpm
Drive power of grinding spindle	20 kW	17kW

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

DIMENSIN & WEIGHT

Space Requirement	L 4110 x W 3820 x H 2345mm	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: The specifications are subject to the contract, as well as new technology and industrial advancements available.