



**MATRIX
THREAD GRINDING
SOLUTION**

5060

Matrix Model 5060 Internal Thread Grinding Machine

Standard Features Include:

- | | |
|---|--------------------------------|
| Servo Motor Driven Work Head | Siemens 840DE CNC Control |
| High Frequency Spindle Wheel Head | Coolant Clarification System |
| Manually Adjustable Helix | Centrifugal Separator |
| Absolute Encoders fitted on all configured Axes | Magnetic Separator |
| Pillar Mounted Dresser | Spindle Chiller Unit |
| Remote Diagnostics | Totally Enclosed Hood |
| 1 x Diamond Dressing Media | Fume Extraction |
| 1 x Grinding Wheel | Air Conditioned (ECC) |
| 1 x Hard Metal Quill | 1 x Test Grind (Customer) Part |
| Matrix ProfileMATE Software | Installation & Commissioning |





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CNC Precision Internal Thread Grinding Machine



Machine:

Max Diameter Swing	500 mm
Max Diameter Ground Bore	400 mm
Min Diameter Ground Bore	16 mm
Max Length of Ground Bore	250 mm

Work Head: (C Axis)

Work Head Torque	154 Nm
Work Speed Range	0.4 to 120 RPM
C Axis Resolution	0.001°

Wheel Head:

High Frequency Spindle	5000 - 30000 RPM
Helix Capacity (A Axis)	± 12°

Wheel Head: (Z Axis)

Table Slide Travel	500 mm
Table Slide Position Resolution	0.0001 mm
Table Slide Traverse Speed	0 - 7 M/Min

Wheel Head: (X Axis)

Wheel Head Slide Travel	270 mm
Wheel Head Position Resolution	0.0001 mm
Wheel Head Slide Traverse Speed	0 - 7 M/Min

Wheel Dressing Unit:

Helix Capacity	± 12°
Variable Speed	0 ~ 6000 RPM (Bi-Directional)
Dressing Feed Rate	Programmable

Control System:

CNC System	Siemens 840 DE Solution Line
System Specification	PCU50.5
User Interface	Siemens HMI Advanced Software
10.4" Colour TFT Screen	Resolution 640 x 480 Pixels
Operating & Programming	Matrix Advanced Programming

Machine - Physical:

Approx Gross Machine Weight	8000 Kg
Approx Machine Floor Area	4800 mm x 3800 mm

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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