



MATRIX MODEL 2250 EXTERNAL THREAD GRINDING MACHINE

STANDARD FEATURES INCLUDE

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|--|---|
| Torque Motor Driven Work Head | Siemens 840DE CNC Control |
| Motorised Wheel Head | Coolant Clarification System |
| Automatic Wheel Balancing | Centrifugal Separator |
| Programmable Helix | Magnetic Separator |
| Absolute Encoders fitted on all configured Axes | Spindle Chiller Unit |
| Manual Tailstock | Totally Enclosed Hood |
| Work Head Mounted Dresser | Fume Extraction |
| Remote Diagnostics | Air Conditioned (ECC) |
| 1 x Diamond Dressing Media | MT Work Centres x 2 |
| 1 x Grinding Wheel | 1 x Test Grind (Customer) Part |
| Matrix ProfileMATE Software | Installation & Commissioning |

TECHNICAL SPECIFICATION



MATRIX 2250 CNC Precision External Thread Grinding Machine

Machine:

Max Diameter Admitted	350 mm
Max Diameter Ground	350 mm
Min Diameter Ground	10 mm
Max Length Between Centres	2250 mm
Max Length of Thread Ground Between Centres	2200 mm
Lead Range	300 mm

Work Head: (C Axis)

Servo Motor Rating	154 Nm @ 120 RPM
Work Speed Range	0.4 to 120 RPM
C Axis Resolution	0.001°

Wheel Head:

Spindle Power	8.8 Kw @ 2000 RPM
Automatic Balancing	Integral Dynamic Balancing Unit
Helix Capacity (A Axis)	± 45°

Capacity: (Z Axis)

Table Slide Travel	2400 mm
Table Slide Position Resolution	0.0001 mm
Table Slide Traverse Speed	0 - 7 M/Min

Capacity: (X Axis)

Wheel Head Slide Travel	360 mm
Wheel Head Position Resolution	0.0001 mm
Wheel Head Slide Traverse Speed	0 - 7 M/Min

Wheel Dressing Unit:

Work Head Mounted	Fixed
Variable Speed	0 ~ 6000 RPM (Bi-Directional)
Dressing Feed Rate	Programmable

Control System:

CNC System	Siemens 840 DE Solution Line
System Specification	PCU50.3
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	13000 Kg
Approx Machine Floor Area	8200 mm x 4200 mm

NOTE; These capacities are subject to inevitable restrictions, depending upon wheel head, Helix angle, Work Holding, and Support Equipment.