



Features:

Machine Structure

- Fixed work table with X/Z-axis servo-driven grinding head for high load stability and consistent accuracy
- Compact footprint with approximately 30% floor space saving compared to traditional table-travel machines
- One-piece heavy-duty casting bed with integrated carriage structure for maximum rigidity and vibration absorption
- Cross-feed system using precision linear guideways and AC servo motor with ball screw drive
- Tailstock quill with 70mm travel, tension spring return, and handwheel screw feed

Grinding Head

- High-precision cartridge-type spindle with angular contact bearings - rigid, accurate, and maintenance-free
- Cross feed with AC servo and ball screw for smooth and responsive positioning

Control Panel

- Equipped with MPG (manual pulse generator) for precise manual adjustments
- Ergonomic layout of controls for wheel head, table, and work head
- Safety interlocks and emergency stop functions for operator protection

HMI Touch Screen

- Color touchscreen HMI with intuitive operation and real-time status display
- Built-in multi-step grinding menus reduce programming complexity
- Support for manual, rapid, and automatic feed modes with parameter entry

Standard Accessories:

- Touchscreen with PLC
- Grinding Wheel
- 3 Jaw Chuck
- LED Work Lamp
- Coolant System
- X, Z Axis MPG
- Balance Stand and Arbor
- Wheel Flange, Grind Wheel, and Extractor
- Drive Dog
- Centres
- Levelling Wedge
- Face Dresser
- Internal Grinding Attachment
- Inverter Workhead
- Pneumatic Tailstock
- Schneider Electric
- Front Guard with Interlock
- Operating Tools and Tool Box

Optional Accessories:

- Radius Dresser
- Magnetic Separator
- Magnetic Separator and Paper Filter
- Extra Grind Wheel Flange
- Gap Centre
- Servo Tailstock
- Fully Enclosed Guard

Model	UG32NC MH	UG40NC MH	UG50NC MH
Working Area			
Centre Height	180mm	210mm	270mm
Travel of Worktable (Max)	2000-6000mm	2000-6000mm	1500-6000mm
Grinding Length	2000-6000mm	2000-6000mm	1500-6000mm
Grinding Diameter without Steady Rest	10-320mm	15-400mm	25-500mm
Inside Grinding Diameter without Steady Rest	30-100mm	30-100mm	30-200mm
Inside Grinding Depth	125mm	125mm	320mm
Workpiece weight between centres (Max)	500kg	500kg	1000kg
Feeds			
Table Feed, Infinitely Variable - Longitudinal Axis	1-6m/min	1-6m/min	1-6m/min
Traverse Per. Rev. of Headwheel (mm)	10/0.1 (MPG)	10/0.1 (MPG)	10/0.1 (MPG)
Traverse Per. Div. of Headwheel (mm)	0.1/0.001 (MPG)	0.1/0.001 (MPG)	0.1/0.001 (MPG)
Work Feed on Traverse Axis (Grinding Unit back and forth)	Manual and Auto	Manual and Auto	Manual and Auto
Headstock			
Work Spindle Speeds	20-400rpm	20-400rpm	10-230rpm
Working Headstock Swivel range	0-90°	0-90°	0-90°
Spindle Taper	MT5	MT5	MT6
Grinding Headstock			
Inside Grinding Spindle Speed	10000r/min	10000r/min	10000r/min
Grinding Headstock Swivel range (l+r)	-	-	-
Grinding Head Travel	310mm	310mm	410mm
Grinding Wheel Peripheral speed	45m/s	45m/s	45m/s
Grinding Wheel speed	1700rpm	1700rpm	1400rpm
Tailstock			
Tailstock Taper	MT5	MT5	MT6
Quill Travel	30mm	30mm	70mm
Drive Capacity			
Main Motor Power	5.5kW	5.5kW	11kW
Work Head Spindle Motor	2.2kW	2.2kW	4kW
X/Z Axis Servo Motor Power	1.5kW	1.5kW	2.2kW
Motor Rating of Coolant Pump	0.25kW	0.25kW	0.25kW
Accuracies			
Run-Out Deviation	0.005	0.005	0.005
Cylindrical Deviation (O.D./I.D)	0.005-0.01/0.01mm	0.005-0.01/0.01mm	0.005-0.01/0.01mm
Roughness (O.D./I.D)	0.2/0.4 Ra	0.2/0.4 Ra	0.2/0.4Ra
Roundness (O.D./I.D)	2.5/5um	2.5/5um	2.5/5um
Measures and Weights			
Grinding Wheel Dimensions	500 x 50 x 203mm	600 x 50 x 203mm	500 x 75 x 305mm
Grindstone Dimensions, Inside Grinding (Max)	40 x 25 x 13mm	40 x 25 x 13mm	175 x 32 x 32mm
Grindstone Dimensions, Inside Grinding (Min)	13 x 16 x 4mm	13 x 16 x 4mm	30 x 25 x 10mm
Dimensions	3500-9000x2000x1800mm	3500-9000x2200x2000mm	4500-9000x2500x2000mm
Weight	5000-10000kg	5200-11000kg	8000-19000kg

* The above specifications are subject to change without prior notice, no liability for mistakes. Machines may be shown with optional equipment.