



Features

Machine Structure

- High-rigidity bed with precision flat-V slideway for smooth table motion
- Servo-driven work table (Z-axis) and wheel head (X-axis) for accurate feed control
- Table and wheel head both support manual, JOG, and automatic feed modes
- Wheel head swivels up to $\pm 10^\circ$ for taper grinding
- Work head and tailstock adjustable for various workpiece lengths
- Optional internal grinding attachment for ID operations

Control Panel

- Ergonomically arranged buttons and indicators for ease of use
- Separate control sections for table, wheel head, and work head functions

Model	UG20x600NC	UG20x800NC
Working Area		
Center Height	135mm	135mm
Travel of Worktable (Max)	845mm	1000mm
Grinding Length	600mm	800mm
Grinding Diameter without Steady Rest	8-200mm	8-200mm
Grinding Diameter with Steady Rest	8-60mm	8-60mm
Inside Grinding Diameter without Rest	25-100mm	25-100mm
Inside Grinding Diameter with Steady Rest	35-100mm	35-100mm
Inside Grinding Diameter	125mm	125mm
Workpiece weight between centres (Max)	100kg	100kg
Table Swivel Range (Max)	-2~9°	-2~9°
Feeds		
Table Feed, Infinitely Variable - Longitudinal Axis	1-6m/min	1-6m/min
Traverse Per. Rev. of Headwheel (mm)	10/0.1 (MPG)	10/0.1 (MPG)
Traverse Per. Div. of Headwheel (mm)	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
Headstock		
Work Spindle Speeds	25-500r/min	25-500r/min
Working Headstock Swivel range	0-90°	0-90°
Spindle Taper	MT4	MT4
Grinding Headstock		
Inside Grinding Spindle Speed	10000r/min	10000r/min
Grinding Headstock Swivel range (l+r)	-10°	-10°
Grinding Head Travel	195mm	195mm
Grinding Wheel Peripheral speed	45m/s	45m/s
Grinding Wheel speed	2140r/min	2140r/min
Tailstock		
Tailstock Taper	MT4	MT4
Quill Travel	30mm	30mm
Drive Capacity		
Motor Rating main drive	4kW	4kW
Motor Rating of Internal Grinding unit	1.1kW	1.1kW
Motor Rating of Hydraulic Pump	-	-
Motor Rating of Working Spindle	0.75kW	0.75kW
Motor Rating of Coolant Pump	0.125kW	0.125kW
Accuracies		
Run-Out Deviation	0.005	0.005
Cylindrical Deviation (O.D/I.D)	0.005/0.01mm	0.005/0.01mm
Roughness (O.D/I.D)	0.2/0.4 Ra	0.2/0.4 Ra
Roundness (O.D/I.D)	2.5/5um	2.5/5um
Measures and Weights		
Grinding Wheel Dimensions	400 x 50 x 203mm	400 x 50 x 203mm
Grindstone Dimensions, Inside Grinding (Max)	50 x 40 x 16mm	50 x 40 x 16mm
Grindstone Dimensions, Inside Grinding (Min)	20 x 20 x 6mm	20 x 20 x 6mm
Dimensions	3030 x 2020 x 2000mm	3490 x 2020 x 2000mm
Weight	2800kg	3100kg

- Jog dial (MPG) for precise manual adjustments
- Emergency stop and safety interlocks for operator protection

HMI Touch Screen

- Colorful and intuitive touchscreen interface
- Built-in multi-process menu simplifies complex grinding tasks
- Easy parameter input, distance setting, and mode selection
- Real-time display of axis positions and feed rates
- Alarm system and machine protection messages displayed clearly

Standard Accessories:

- Touchscreen with PLC
- Grinding Wheel
- 3 Jaw Chuck
- LED Work Lamp
- Coolant System
- X, Z Axis MPG
- Open and Closed Steady Rest
- 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 (M4)
- Gap Centre (M5)

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