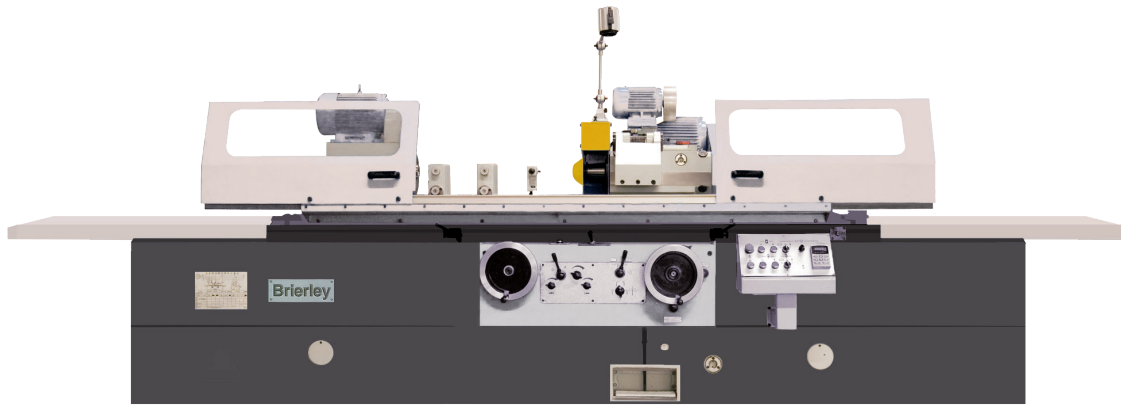


UG SERIES UNIVERSAL CYLINDRICAL GRINDING MACHINES



Standard Accessories:

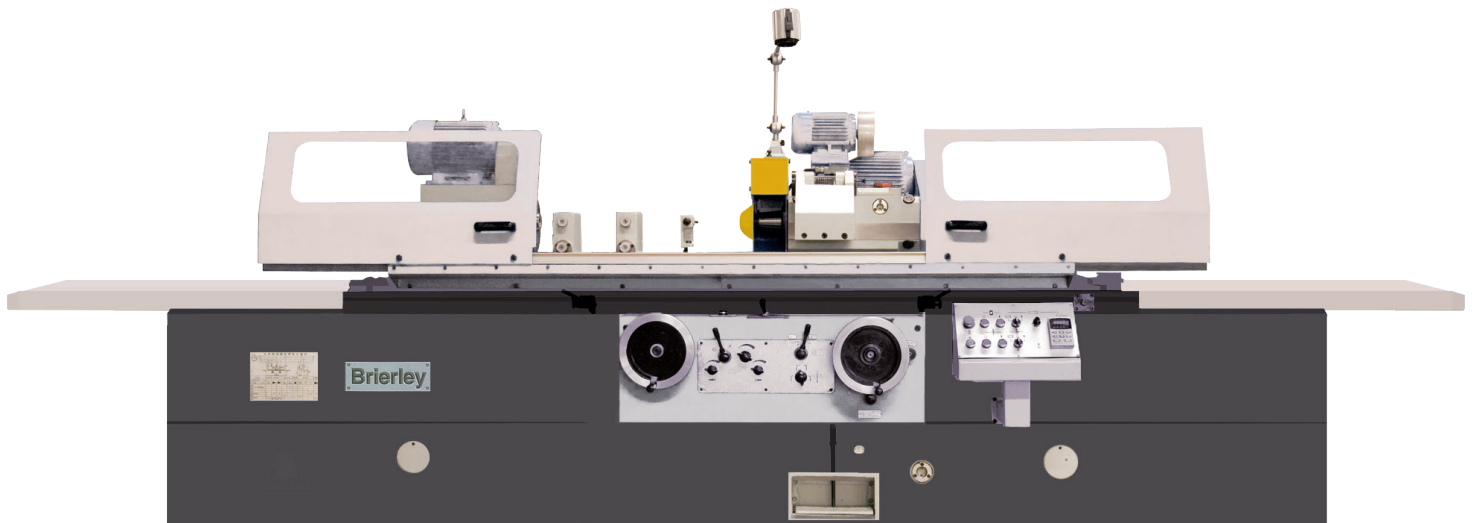
- 3 Jaw Chuck
- Peripheral Wheel Dresser
- Coolant
- LED Light
- Grinding Wheel
- Open Type/Closed Steady Rest
- Balancing Stand and Arbor
- Extractor
- Drive Dog
- Centre
- Levelling Wedge
- Inverter Workhead
- Internal Grinding Attachment
- Wheel Dismount Tool
- Hydraulic Tailstock
- Front Guard With Interlock

Optional Accessories:

- Magnetic Filter System
- 50L Paper Filter with Magnetic Separator and Coolant
- 100L Paper Filter with Magnetic Separator and Coolant
- 2 Axis DRO
- Radial Dresser
- End Dresser
- Half Centre

Model	UG20x500	UG20x750	UG32x1000	UG32x1500	UG32x2000	UG32x3000
Working Area						
Centre height	135mm	135mm	180mm	180mm	180mm	180mm
Travel of Worktable(Max)	640mm	850mm	1090mm	1600mm	2100mm	3100mm
Grinding Length	500mm	750mm	1000mm	1500mm	2000mm	3000mm
Grinding Diameter Without Steady Rest	8-200mm	8-200mm	8-320mm	8-320mm	8-320mm	8-320mm
Grinding Diameter With Steady Rest	8-60mm	8-60mm	8-60mm	8-60mm	8-60mm	8-60mm
Inside Grinding Diameter Without Rest	25-100mm	25-100mm	35-100mm	35-100mm	35-100mm	35-100mm
Inside Grinding Diameter With Steady Rest	35-100mm	35-100mm	30-100mm	30-100mm	30-100mm	30-100mm
Inside Grinding Depth	125mm	125mm	125mm	125mm	125mm	125mm
Workpiece Weight Between Centers (Max.)	80kg	80kg	150kg	150kg	150kg	150kg
Table Swivel Range (Max.)	3/8 ° R / L	2/6° R / L	3/7° R / L	3/6° R / L	3/5° R / L	2/3° R / L
Feeds						
Table Feed, Infinitely Variable - Longitudinal Axis	0.1-4m/min	0.1-4m/min	0.1-4m/min	0.1-4m/min	0.1-4m/min	0.1-3m/min
Traverse Per. Rev. of Headwheel (mm)	2 (coarse)/ 0.5(fine)mm	2 (coarse)/ 0.5(fine)mm	2 (coarse)/ 0.5(fine)mm	2 (coarse)/ 0.5(fine)mm	2 (coarse)/ 0.5(fine)mm	2 (coarse)/ 0.5(fine)mm
Traverse Per. Div. of Headwheel (mm)	0.01(coarse) / 0.0025 (fine)mm	0.01(coarse) / 0.0025 (fine)mm	0.01(coarse) / 0.0025 (fine)mm	0.01(coarse) / 0.0025 (fine)mm	0.01(coarse) / 0.0025 (fine)mm	0.01(coarse) / 0.0025 (fine)mm
Work Feed On Traverse Axis (Grinding Unit Back And Forth)	auto	auto	auto	auto	auto	auto
Headstock						
Work Spindle Speeds	25 - 380 1/min	25 - 380 1/min	25 - 220 1/min	25 - 220 1/min	25 - 220 1/min	25 - 220 1/min
Working Headstock Swivel Range	0 - 45°	0 - 45°	0 - 45°	0 - 45°	0 - 45°	0 - 45°
Spindle Taper	MT4	MT4	MT4	MT4	MT4	MT4
Grinding Headstock						
Inside Grinding Spindle Speed	10000 1/min	10000 1/min	10000 1/min	10000 1/min	10000 1/min	10000 1/min
Grinding Headstock Swivel Range (R+L)	10 CCW± °	10 CCW± °	30± °	30± °	30± °	30± °
Grinding Head Travel	200mm	200mm	250mm	250mm	250mm	250mm
Grinding Wheel Peripheral Speed	35 m/s	35 m/s	35 m/s	35 m/s	35 m/s	35 m/s
Grinding Wheel Speed	1670 1/min	1670 1/min	1670 1/min	1670 1/min	1305 1/min	1305 1/min
Tailstock						
Tailstock Taper	MT4	MT4	MT4	MT4	MT4	MT4
Quill Travel	25mm	25mm	25mm	25mm	25mm	25mm
Drive Capacity						
Motor Rating Main Drive	5.5kW	5.5kW	5.5kW	5.5kW	7.5kW	7.5kW
Motor Rating of Internal Grinding Unit	1.1kW	1.1kW	1.1kW	1.1kW	1.1kW	1.1kW
Motor Rating of Hydraulic Pump	0.75kW	0.75kW	0.75kW	0.75kW	0.75kW	0.75kW
Motor Rating of Working Spindle	0.75kW	0.75kW	1.5kW	1.5kW	1.5kW	1.5kW
Motor Rating of Coolant Pump	0.13kW	0.13kW	0.125kW	0.125kW	0.125kW	0.125kW
Accuracies						
Run-Out Deviation	0.003mm	0.003mm	0.003mm	0.003mm	0.003mm	0.003mm
Cylindrical Deviation (O.D/I.D)	0.008/0.01mm	0.008/0.01mm	0.008/0.01mm	0.008/0.01mm	0.008/0.01mm	0.008/0.01mm
Roughness (O.D/I.D)	0.32/0.63 µm Ra	0.32/0.63 µm Ra	0.32/0.63 µm Ra	0.32/0.63 µm Ra	0.32/0.63 µm Ra	0.32/0.63 µm Ra
Roundness (O.D/I.D)	1.5/2.5µm	1.5/2.5µm	2.5/2.5 µm	2.5/2.5 µm	2.5/2.5 µm	2.5/2.5 µm
Measures and Weights						
Grinding Wheels Dimensions	400 x 50 x 203mm	400 x 50 x 203mm	400 x 50 x 203mm	400 x 50 x 203mm	500 x 50 x 203mm	500 x 50 x 203mm
Grindstone Dimensions, Inside Grinding (Max.)	50 x 40 x 16mm	50 x 40 x 16mm	50 x 40 x 16mm	50 x 40 x 16mm	50 x 40 x 16mm	50 x 40 x 16mm
Grindstone Dimensions, Inside Grinding (Min.)	45 x 35 x 10mm	45 x 35 x 10mm	45 x 35 x 10mm	45 x 35 x 10mm	45 x 35 x 10mm	45 x 35 x 10mm
Overall dimensions (Length x Width x Height)	2500 x 1800 x 1650m	3000 x 1800 x 1650m	3610 x 1810 x 1550m	4610 x 1810 x 1550m	5610 x 1810 x 1550m	7610 x 1810 x 1550m
Weight	3000kg	3500kg	3700kg	4300kg	6200kg	8600kg

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



Model	UG50	UG63
Distance Between Centers	1500/2000/3000mm	2200/3120/4300/5300mm
Center Height	270mm	335mm
Dia. Ground (O.D)	25-500mm	30-630mm
Dia. Ground (I.D)	30-200mm	
Max. Length Ground (O.D)	1500/2000/3000mm	2000/3000/4000/5000mm
Max. Length Ground (I.D)	320mm	
Max.Weight of Workpiece	1000kg	3000kg
Workhead		
Workhead Swiveling Angle	+90°	Fixed
Center Taper	6MT	Metric #80
Spindle Speed	50HZ:20-224 r/min	8-200 r/min
Wheelhead		
Wheel Spindle Speed	1330/665 r/min	743r/min
Wheelhead Rapid Travel	100mm	100mm
Max. Travel	250mm	350mm
Swiveling Angle	-30°	Fixed
Hand Feed Per. Rev	Rough:4mm Fine:0.5mm	Rough:2mm Fine:0.5mm
Hand Feed Per. Gra	Rough:0.02mm Fine:0.0025mm	Rough:0.01mm Fine:0.0025mm
Wheel Size (OD*W*ID)	500 x 75 x 305mm	900 x 75 x 305mm
Peripheral Velocity	35M/s	35M/s
Internal Grinding Device		
Spindle Speed	7000 r/min	
Dimension of Wheel	Max: 175 x 32 x 32mm Min: 30 x 25 x 10 mm	
Table		
Hand Feed Per. Rev	5mm	Fine 2mm, Rough 8mm
Longitudinal Speed Range of Table	0.1—3 M/min	0.1—3 M/min
Tailstock		
Center Taper	MT6	Metric #80
Quill Travel	70mm	70mm
Motor		
Wheelhead Motor Power	7.5kW	22kW
Workhead Motor Power	4kW	7.5kW
Oil Pump Motor Power	1.1kW	3kW
Coolant Power	0.2kW	0.25kW
Gross Weight	9.6/11/14.5T	19/23/25/28T
Packing Dimensions	5300/6000/8200 x 2600 x 2100mm	7430/9783/12680/14178 x 3598 x 2185mm

Standard Accessories:

- 3 Jaw Chuck (UG50 only)
- Periperal Wheel Dresser (UG50 only)
- Wheel Dresser (UG63 only)
- Coolant
- LED Light
- Grinding Wheel with flange
- Schneider Electrics
- Open Type Steady Rest
- Closed Steady Rest (UG50 only)
- Balancing Stand and Arbor
- Extractor
- Drive Dog
- Centre
- Wedge
- Inverter Workhead (UG50 only)
- Wheel Lifter (UG63 only)
- Hydrostatic Oil Tank for Spindle (UG63 only)
- Measuring Plate (UG63 only)
- Oil Tank (UG63 only)
- Dial Gauge (UG63 only)
- Wheel Lifter (UG63 only)
- Internal Grinding Attachment (UG50 only)
- Wheel Dismount Tool
- Hydraulic Tailstock
- Front Guard with Interlock (UG50 only)
- Hydraulic Tailstock
- Magenetic Filter System (UG63 only)

Optional Accessories:

- Magnetic Filter System
- 50L Paper Filter with Magnetic Separator and Coolant
- 100L Paper Filter with Magnetic Separator and Coolant
- 2 Axis DRO
- Radial Dresser
- End Dresser
- Half Centre

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