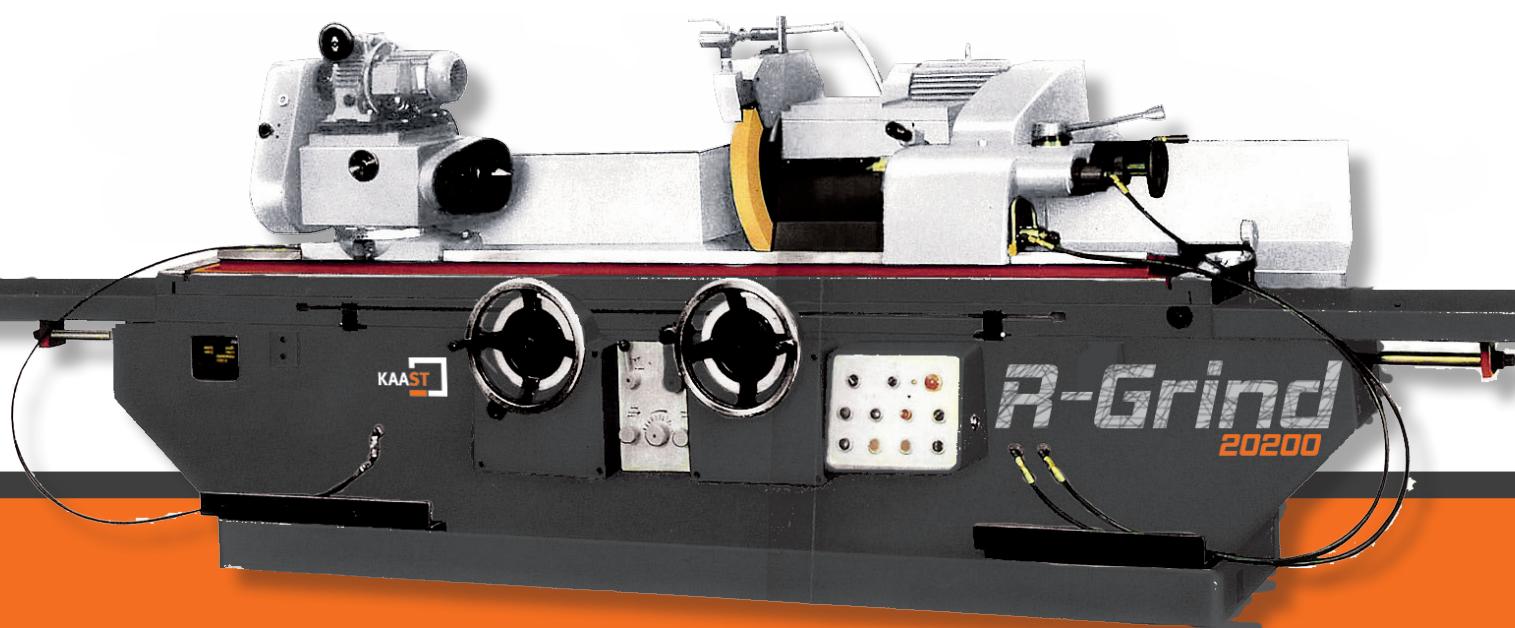


Cylindrical grinder R-Grind



T e c h n i c a l D a t a s h e e t

- Generously sized machine bed minimizes both twisting, and vibrations, thus achieving a high quality grinding with the best dimensional stability
- Low maintenance due to automatic slide and headstock lubrication
- 8-way graded belt drive in the headstock for broad range of speed control
- Infinitely variable table feed by hydraulic drive with "soft-stop" at the end of traverse
- Rapid traverse for the spindle



Standard configuration:

- ✓ Grinding wheel (standard)
- ✓ Grinding wheel flange (standard)
- ✓ Flange extractor
- ✓ Front / side dressing device
- ✓ Balancing arbor
- ✓ Hard metal centering tip MT 4
- ✓ Pivoting spindle stock
- ✓ Tailstock with lever operation
- ✓ Splash protection
- ✓ Diamond dresser
- ✓ Coolant system
- ✓ Levelling bolt and feet
- ✓ Operating tools
- ✓ Manual

Optional configuration:

- Internal grinding unit
- Coolant filtration system, filter paper or magnetic separator
- 3-jaw chuck (self-centering), includes adapter plate
- 4-jaw chuck (jaws set separately), includes adapter plate
- Grinding wheel balancing stand
- Catch (various)
- 2-point bezel (fixed)
- Radii dressing device
- Angle dressing device
- Grinding wheel (extra)
- Grinding wheel flange (extra)
- Digital position indicator

Technical specifications	R-Grind				
	1565 1765	1580 1780	15100 20100	15120 20120	15150 20150
Grinding capacity	R-Grind 15 R-Grind 17 R-Grind 20	Ø 300 mm (11.7") Ø 350 mm (13.6") -		Ø 300 mm (11.7") - Ø 400 mm (15.7")	
Distance between centers	650 mm (25")	800 mm (31")	1000 mm (39")	1200 mm (47")	1500 mm (58")
Max. workpiece weight	120 kg (260 lbs)		250 kg (550 lbs)		
Grinding wheel dimensions	355x38x127 mm (13.8x1.5x4.9")		406x38x127 mm (15.8x1.5x5")		
Grinding spindle					
Speed	1600 rpm		1375 rpm		
Swivel	0-30°		0-30°		
Rapid approach	40 mm (1.5")		40 mm (1.5")		
Travel (total)	160 mm (6.25")		295 mm (11.5")		
Transverse feed	1 mm (0.04"/rev)		1 mm (0.04"/rev)		
Transverse feed increment	0.0025 mm (0.00001")		0.0025 mm (0.00001")		
Headstock					
Swivel angle	0-90°		0-90°		
Speed	R-Grind 15: 15-100 rpm R-Grind 17: 30-200 rpm		R-Grind 15: 15-100 rpm R-Grind 20: 30-200 rpm		
Taper	MT 4		MT 4		
Tailstock					
Taper	MT 4		MT 4		
Quill travel	40 mm (1.5")		40 mm (1.5")		
Table					
Longitudinal feed rate	40-4000 mm/min (1.5-156"/min)		40-4000 mm/min (1.5-156"/min)		
Table swivel	R-Grind 15: 0-10° R-Grind 17: 0-9°		R-Grind 15: 0-7° 30' R-Grind 20: 0-6°		
Longitudinal feed	14 mm (0.5"/rev)		14 mm (0.5"/rev)		
Motor					
Grinding spindle motor	3.75 kW (5 Hp)		5.5 kW (7.5 Hp)		
Headstock motor	0.37 kW (0.5 Hp)		R-Grind 15: 0.37 kW R-Grind 20: 0.75 kW		
Coolant pump motor	0.1 kW (0.15 Hp)		0.1 kW (0.15 Hp)		
Weight	2100 kg (4620 lbs)	2300 kg (5060 lbs)	2800 kg (6160 lbs)	3100 kg (6820 lbs)	3400 kg (7480 lbs)
Item-No. R-Grind 15	3100002	3100003	3100004	3100005	3100006
Item-No. R-Grind 17	3100025	3100026			
Item-No. R-Grind 20			3100008	3100009	3100010

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

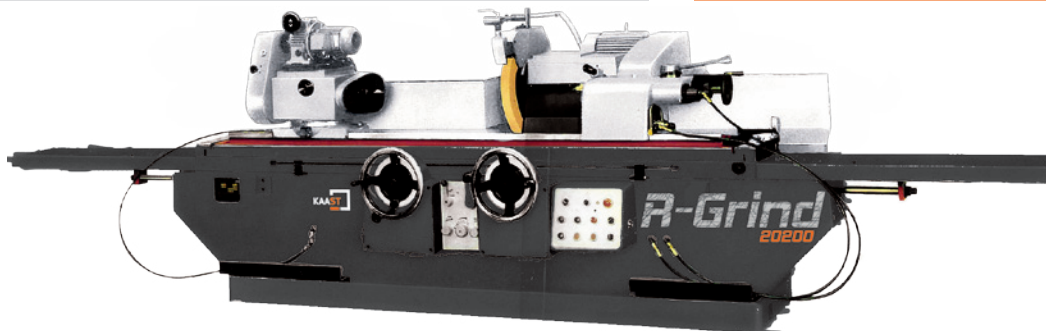
- The massive machine bed design with stable ribbing assures that even heavy components will have optimal results for surface roughness and dimensional accuracy
- The hydrostatic bearing spindle and tailstock allow for extremely good isolation of machine vibrations and therefore provide excellent surface finish
- V-guide-ways allow precise adjustment of alignment spindle and tailstock
- Belt-driven headstock with variable speed
- Automatically lubricated grinding Grinding spindle with electronic overload protection
- "Soft stop" function on the feed
- Feed is via infinitely adjustable hydraulics

Standard configuration:

- ✓ Grinding wheel (standard)
- ✓ Grinding wheel flange (standard)
- ✓ Flange extractor
- ✓ Front / side dressing
- ✓ Balancing arbor
- ✓ Carbide centering MK 5
- ✓ Pivoting headstock
- ✓ Tailstock with lever operation
- ✓ Splashguard
- ✓ Diamond dresser
- ✓ Coolant system
- ✓ Levelling bolt and feet
- ✓ Operating tools
- ✓ Manual

Optional configuration:

- Internal grinding unit
- Coolant filtration system, filter paper or magnetic separator
- 3-jaw chuck (self-centering) with adapter plate
- 4-jaw chuck (jaws set separately) with adapter plate
- Grinding wheel balancing stand
- Actuator (various)
- 2-point bezel (fixed)
- Radii dressing device
- Angle dressing device
- Grinding wheel (extra)
- Grinding wheel flange (extra)
- Digital position display



Technical specifications	R-Grind						
	20160	20180	20200	25200	25250	25300	25400
Grinding capacity	Ø 400 mm (15")		Ø 500 mm (19")		Ø 600 mm (24")		
Distance between centers	1600 mm (62")	1800 mm (70")	2000 mm (78")	2000 mm (78")	2500 mm (98")	3000 mm (118")	4000 mm (157")
Max. workpiece weight	350 kg (770lbs)			1000–1500 kg (2200-3300lbs)			
Grinding wheel dimensions	508x38x203 mm (20"x1.4"x7.9")			760x63x304.8 mm (29"x2.4"x12")		660x63x203.8 mm (26"x2.4"x8")	
Grinding spindle							
Speed	1100 rpm			1100 rpm			
Rapid approach	60 mm (2.3")			60 mm (2.3")			
Travel (total)	220 mm (8.6")			290 mm (11")			
Transverse feed	1 mm (0.03")			1 mm (0.03")			
Transverse feed increment	0.0025 mm (0.00009")			0.0025 mm (0.00009")			
Headstock							
Speed	10–100 rpm			10–100 rpm			
Taper	MT 5			MT 5		MT 6	
Tailstock							
Tailstock taper	MT 5			MT 5		MT 6	
Quill travel	45 mm (1.7")			55 mm (2.1")			
Table							
Longitudinal feed rate	30–2000 mm/min (1.1"-78"/min)			30–3000 mm/min (1.1"-118")			
Table slant	7°	6° 30'	6°	6°			
Longitudinal feed	4.5 mm (0.1")			4.5 mm (0.1")			
Motor							
Grinding spindle motor	7.5 kW (10 Hp)			11 kW (14 Hp)			
Headstock motor	0.75 kW (1 Hp)			2.25 kW (3 Hp)			
Hydraulic pump motor	1.5 kW (2 Hp)			2.25 kW (3 Hp)			
Lubrication system	0.2 kW (0.2 Hp)			0.2 kW (0.2 Hp)			
Coolant pump motor	0.1 kW (0.1 Hp)			0.2 kW (0.1 Hp)			
Weight	3800 kg (8360 lbs)	4200 kg (9240 lbs)	5000 kg (11000 lbs)	8500 kg (18700 lbs)	9300 kg (20460 lbs)	11000 kg (24200 lbs)	13500 kg (29700 lbs)
Item-No.	3100011	3100012	3100013	3100014	3100015	3100016	3100017

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