



# ID/OD Cylindrical grinder

## RC-Grind 1050

5" x 19"

- For external and internal grinding of cylindrical and tapered surfaces
- Hydraulic table feed, infinitely adjustable
- Machine table and spindle swivel for tapered grinding
- Swivel grinding head with Internal grinding unit
- Lever actuated tailstock
- Cross feed of the grinding wheel is carried out hydraulically or manually
- Grinding headstock can be rotated by 180° to change from outside to inside grinding
- The hydraulic tailstock is actuated using the foot pedal



Cutting

Turning

Milling

Drilling/Boring

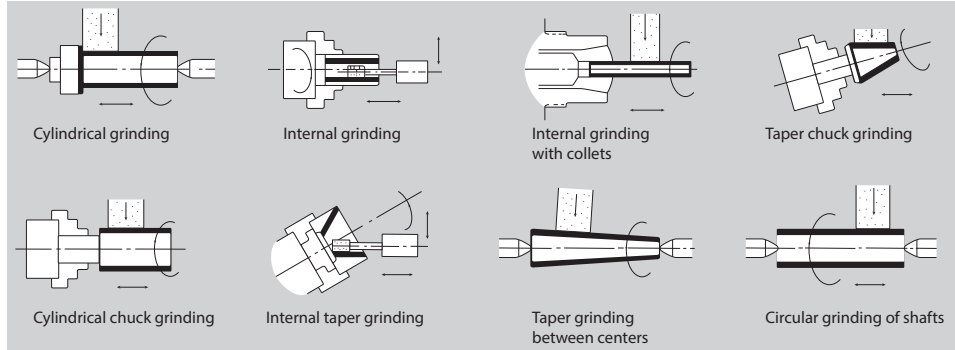
Grinding  
Cylindrical • Surface

Sawing

Fabricating

### Standard configuration

- ✓ 3-jaw chuck
- ✓ Internal grinding unit
- ✓ Balancing stand
- ✓ Dressing device
- ✓ Dead center
- ✓ Diamond dresser
- ✓ Grinding wheel flange (standard)
- ✓ Coolant system
- ✓ Tool kit
- ✓ Operation manual



Grinding method	Cylindricity (mm)	Conicity (mm)	Ra (um)	Engineering specifications: dimensions/material
Cylindrical grinding between centers	0.0015 (0.00006")	0.003 (0.0001") 0.005 (0.0002")	≤0.32	Ø18x150 mm (0.7x5.85") ST 45 Ø35x350 mm (1.3x13.5") ST 45
Cylindrical grinding with chuck	0.0025 (0.0001")	0.005 (0.0002")	≤0.32	Ø40x20 mm (1.6x0.8") ST 45
Internal grinding with chuck	0.0025 (0.0001")	0.005 (0.0002")	≤0.63	Ø15x25 mm (0.6x1") ST 45

Specifications	R-Grind 1050		Specifications		R-Grind 1050	
		5" x 19.5"				5" x 19.5"
Center height	mm	100 (3.9")	Grinding depth	mm	50 (2")	
Grinding capacity	mm	Ø125 (4.9")	Grinding increment	mm	0.0025 (0.0001")	
Max. grinding length	mm	500 (19.5")	Speed	rpm	17,000	
Distance between centers	mm	520 (20.3")	<b>HEADSTOCK</b>			
Max. workpiece weight	kg	35 (77 lbs)	Taper		MK 4	
Longitudinal feed rate	m/min	0.05–4.5 (2–175"/min)	Speeds	rpm	(6) 300–1040	
Table swivel	deg	±9°	Swivel range	deg	-10°/+90°	
Grinding wheel dimensions (OD/width/ID)	mm	Ø300x40xØ127 (12x1.5x5")	<b>TAILSTOCK</b>			
Transverse feed increment	mm	0.0025 (0.0001")	Taper		MK 2	
Feed per revolution (transverse feed)	mm	0.5 (0.02")	Travel	mm	13 (0.5")	
<b>GRINDING SPINDLE</b>			Oil circulation	l/min	10 (2.6 gal/min)	
Swivel range	deg	180°	Hydraulic system pressure	MPa	0.8–1	
Max. transverse travel	mm	115 (4.5")	Coolant circulation	l/min	22 (5.8 gal/min)	
Spindle speed	rpm	2200	Main spindle motor	kW	2.2 (3 Hp)	
Rapid transverse travel (hydraulic)	mm	15 (0.6")	Hydraulic pump motor	kW	1.5 (2 Hp)	
<b>INTERNAL GRINDING HEAD</b>			Dimensions (L/W/H)	mm	2100x1450x1600 (82x57x63")	
Grinding diameter	mm	10–40 (0.4–1.5")	Weight	kg	1800 (3,960 lbs)	
Item No.					<b>3100001</b>	

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