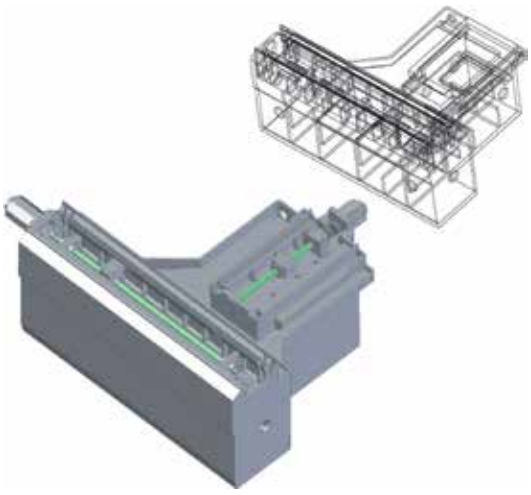
KAAST

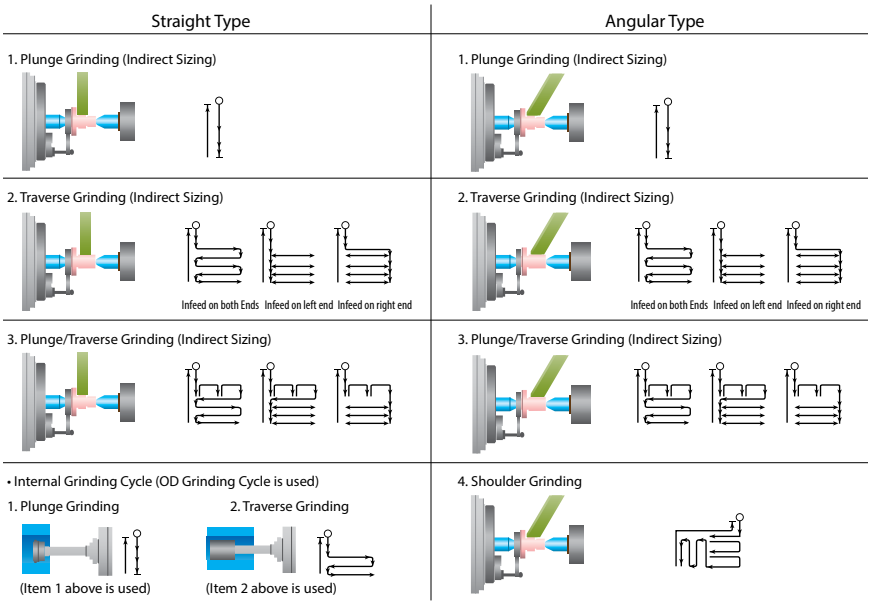
CRG CNC

250 | 320 | 380 | 500

CNC Cylindrical Grinder, Sub-Micron Range, 9x20'' to 19x78''

These CRG CNC grinding machines feature a **heavy Meehanite cast frame** that is **heat-treated** and **stress-relieved** for maximum rigidity. **Hardened**, **precision-ground guideways** and a specially designed table ensure smooth motion and lasting accuracy. The **high-quality steel spindle** runs on a precision **hydrostatic bearing**. A wide range of optional features is available to suit specific applications.





STANDARD CONFIGURATION

- FANUC Controller
- Grinding Wheel Flange
- X-Axis Glass Linear Scales
- Diamond Dresser
- Oil /Air Cooling Separate Hydraulic Unit
- Coolant System
- Fixed Centering Tips (2 pcs)
- Work Zone Halogen Lighting
- Tool Kit and Work Light

The CRG CNC cylindrical grinders feature an **advanced design**, modern components, and exceptional accuracy. Standard grinding cycles include **wheel dressing** and grinding of **concave** or **convex surfaces**. Fine feed settings enable mirror-like finishes with up to **0.1 micron precision**.

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OPTIONAL CONFIGURATION

- Internal Grinding Unit
- Coolant System
- 2-Point / 3-Point Steady Rest
- Face Touch Probe
- Automatic Wheel Balancing System
- Balancing Stand and Balancing Shaft
- Auto in Process Work Piece Measurement
- Oil Mist Collector
- Hydraulic-Driven Tailstock
- Headstock with Bore, Ø80mm
- Complete Enclosure
- Z-Axis Glass Linear Scales
- Automatic Loading and Unloading

CRG CNC			250/500 - -	320/600 380/600 500/600	320/1000 380/1000 500/1000	320/1500 380/1500 500/1500	320/2000 380/2000 500/2000
			9” x 20”	12/14/19” x 24”	12/14/19” x 39”	12/14/19” x 59”	12/14/19” x 78”
Swing over Table	CRG 250/320	mm	Ø250 (10”)	Ø320 (12.6”)			
	CRG 380	mm	-	Ø380 (15”)			
	CRG 500	mm	-	Ø500 (19.6”)			
Max Grinding Diameter	CRG 250/320	mm	Ø250 (10”)	Ø300 (12”)			
	CRG 380	mm	-	Ø360 (14”)			
	CRG 500	mm	-	Ø480 (19”)			
Infeed Angle			90°				
Distance Between Centers		mm	500 (19.6”)	600 (23.6”)	1000 (39”)	1500 (59”)	2000 (78”)
Max Load Between Centers		kg	80 (175 lbs)	150 (330 lbs)			250 (550 lbs)
Grinding Wheel							
Diameter x Width x Bore		mm	Ø455x50xØ127 (18x2x5”) [Opt. Ø508x50xØ152 (20x2x6”)]	Ø510x50xØ152.4 (20x2x6”)			
Motor Rated Power		kW	5.5 (7.5 Hp)	7.5 (10 Hp) [Opt. 11 (15 Hp)]			
Wheel Speed		rpm	1400	1250 [Opt. 1650]			
Workhead							
Swiveling Angle			90°				
Spindle Speed (Infinitely Variable)		rpm	10 ~ 600				
Motor Rated Power		kW	0.75 (1 Hp)				
Center Taper			MT3	MT4 [Opt. MT5]			
Tailstock							
Quill Travel		mm	25 (1”)	25 (1”) [Opt. 50/75 (2/3”)]			
Center Taper			MT3	MT4 [Opt. MT5]			
X-Axis	Travel	mm	200 (7.8”)	270 (10.6”)			
	Max Rapid Feed Rate	m/mm	6 (236”/min)				
	Minimum Increment	mm	0.0001 (0.000004”)				
Z-Axis	Travel	mm	750 (29.5”)	850 (33.4”)	1250 (49”)	1850 (73”)	2450 (96”)
	Swiveling Angle		±7°	±9°	±7°	±5°	
	Max Rapid Feed Rate	m/min	8 (26’/min)	10 (33’/min)			
	Minimum Increment	mm	0.0001 (0.000004”)				
Weight		kg	3100 (6,280 lbs)	5600 (12,320 lbs)	5800 (12,760 lbs)	6300 (13,860 lbs)	6700 (14,740 lbs)
Item No. Model 250/320			**3100110**	**3100111**	**3100112**	**3100113**	**3100114**
Item No. Model 380				**3100115**	**3100116**	**3100117**	**3100119**
Item No. Model 500				**3100120**	**3100121**	**3100122**	**3100123**

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