

CNC-CYLINDRICAL GRINDING MACHINE

CLG : 150 x 350 - CNC



Center Height : 150mm Admit Between Centers : 350mm
Swing Diameter : 300mm Traverse Stroke : 400mm
Grinding Wheel Size : ODxHxID : 400x50x127
Drive : AC 7.5 Hp
Stroke : 125mm Max
Wheel Head Servo : Linear Motor, Cog-Free, AC
Feedback - Optical Linear Scales
Resolution X-axis- 0.0005mm(0.5micron)
Z-axis- 0.005mm(5micron)
EasyGrind - for codeless part programming



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LAVINGIA ENTERPRISE

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SALIENT FEATURES

- ▶ Wheel-Head slide driven by core-less cog-free **linear-servomotors**. There is no physical connection between the slide driving & driven members - no ball-screw. This means no back-lash compensation and ball-screw related maintenance problems.
- ▶ Wheel-Head slide supported on rolling element linear bearings. These result in highly responsive and backlash free movement.
- ▶ Linear scales for position feedback on both axis provide actual position feedback and not interpolated position feedback. This results in much higher reliability and operational accuracy. X-axis (radial feed) resolution is 0.5micron (0.0005mm). Z-axis (axial feed) resolution is 5micron. Both feedback scales are distance coded (absolute).
- ▶ Grinding wheel shaft and work-head shafts supported on super precision angular contact bearings. These are packed with long life grease for maintenance free operation through out the bearing life.
- ▶ Our proprietary **EasyGrind query based component profile/data entry eliminates ISO programming by operator**. Operator is led through a step-by-step building of the component profile/parameters via a query based data entry; he simply provides the necessary numeric values. During data entry **EasyGrind** recommends the optimum speeds/feeds based on the component dimensions. Operator has freedom to decide the most desirable feed/speed within a specified range; thus, eliminating sub-optimal machine utilization and guestimate based speed/feed values. Following this data entry session **EasyGrind** generates the grinding program, stores it and is ready for execution automatically. Dressing and dressing compensation are also part of the same query based data entry. Programming in G-code is, of course, possible
- ▶ Work-Head (Spindle) drive is by AC variable frequency drive The drive is controlled by the CNC controller. Tails-stock is spring loaded and retracted by pneumatic cylinder. Tails-stock has taper adjusting facility.
- ▶ Rotary (cup-wheel type) dresser is driven by an air-motor. Dresser is mounted on the Tail-stock. Single-point-dresser , as well as diamond-roller-dresser for wheel profiling are also available. Besides 'programmable' dressing frequency, 'on-demand-dressing' is also standard.

PRODUCT RANGE

CYLINDRICAL GRINDING MACHINES

Type	Center Height	Admit Bet Centers	Traverse Length	} Traversing Wheel Head
CNC	150	1000	1100	
	150	600	700	
	150	350	400	
PLC	150 / 185	1000	650	
	150 / 185	750	500	
Hyd.	150 / 185	1000	750	
	150 / 185	750	500	
	110	500	400	
Manual	85	350	400	

INTERNAL GRINDING MACHINES

PLC or PC based controls.

FACE GRINDING MACHINES

For flat circular objects, for gear-face.

EXTERNAL TRACK GRINDING MACHINES

PLC or PC based controls.

SPMs :

FACING & CENTERING - Shaft L 350 to 1000mm

DUPLEX FACE GRINDER - Disk brake rotors

SOCKET MILLING - Brass cages for bearings

HOLLOW GRINDING SPM - Compressor valve spring

Drilling SPMs



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