



INDIA INTERNATIONAL MARKETING COMPANY



CYLINDRICAL & CENTRELESS GRINDER / CUTTER GRINDER - AMT CENTRELESS GRINDING MACHINE



SALIENT FEATURES

MACHINE BED

- The machine bed is of one piece, close grained, graded cast iron.
- Box structure design, heavily reinforced with ribs, provides high rigidity and stability.

GRINDING WHEELPAD

- Girding wheel head of sturdy design is fixed to the machine bed
- Wheel head spindle is made of specially alloy steel, specially heat treated, ground and lapped to achieve high dimensional stability and long life

- Spindle runs in precision White metal bush bearings, which give every high accuracy and excellent surface finish to the work piece

REGULATING WHEEL HEAD

- Regulating wheel head is mounted on double slide and swivel plate arrangement
- Spindle specially heat treated, ground and lapped runs in oil immersed precision Anti Friction bearings to give high accuracy and true running
- D.C. Thyristor drive (Optional – A.C. variable drive) provided to get infinitely variable speed o regulating wheel/work piece. Optimum rpm of work piece can be set to achieve high production and good accuracies
- Regulating wheel head can be tilted in vertical plane to facilitate through feed girding

INFEEED SYSTEM

- Wheel head spindle is made of special alloy steel, specially heart treated, ground and lapped to achieve high dimensional stability and long life.
- Spindle runs in precision White metal bush bearings, which give very high accuracy and excellent surface finish to the work piece.

INFEEED SYSTEM

- In feed is imparted to the Regulating wheel slide through a hardened and ground feed screw, which ensures high positioning accuracy and repeatability
- Specially designed nut having backlash adjustment is provided.
- The upper slide moves the regulating wheel in relation to the work rest for easy job set up lower (feed) slide is used for feeding work to the girding wheel
- Work rest base is firmly screwed to the lower (feed) slide. Work blades can be adjusted in height on work base for different size of components

TAPER CORRECTION

- Regulating wheel can be swiveled in horizontal plane by the swivel plate, for fast and accurate taper correction and taper grinding

AUTOMATIC PLUNGE GRINDING CYCLE (OPTIONAL)

- Single lever operated Automatic Plunge grinding cycle
- Cycle operates as Rapid approach-auto feed-park off-Rapid retraction and infeed slide moves to starting position
- Amount of infeed, infeed rate and spark off time are adjustable

DRESSING UNIT

- Separate hydraulic dressing units with infinitely variable dressing speeds provided for both Grinding and Regulating wheel is possible with special attachment
- Profile dressing of Grinding and Regulating wheel is possible with special attachment

HYDRAULIC/ELECTRICAL UNIT

- Hydraulic power pack unit housed outside the machine for easy maintenance
- All electrical mounted in a concise panel box. Centralized controls for operator's convenience

LUBRICATION

- Centralized lubricationsystem provided for efficient and positive lubrication of moving parts

OPTIONAL

- Form dressing arrangement, Auto loading systems, Hydraulic ejector & Bar feeding arrangement

MODEL		HLC-100	HLC-100-5	HLC-150-s
Grinding range (Dia.)	mm	2 – 100	2 – 100	2 - 125

Max. length in through feed grinding	mm	220	220	270
Grinding wheel size (d x w x d)	mm	350 x 100 x 127	350 x 100 x 127	350 x 150 x 127
Regulating wheel size (d x w x d)	mm	230 x 100 x 76.2	230 x 100 x 76.2	230 x 150 x 76.2
Regulating wheel speed (infinitely variable)	rpm	20 – 200	20 – 200	20 – 130
Swivel of Regulating wheel head in:				
- Horizontal plane for taper correction / Taper grinding	deg	--		
- Vertical plane for Thrufeed Grinding	deg	± 5		
Grinding and Regulating Wheel Dresser		Hydraulic	Hydraulic	Hydraulic
Swivel of Grinding and Regulating Wheel dresser	deg	± 5	± 5	± 5
Grinding Wheel motor power	hp	7.5	7.5	10
Regulating wheel motor power	hp	1	1	1.5

Standard Accessories

Optional Accessories



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