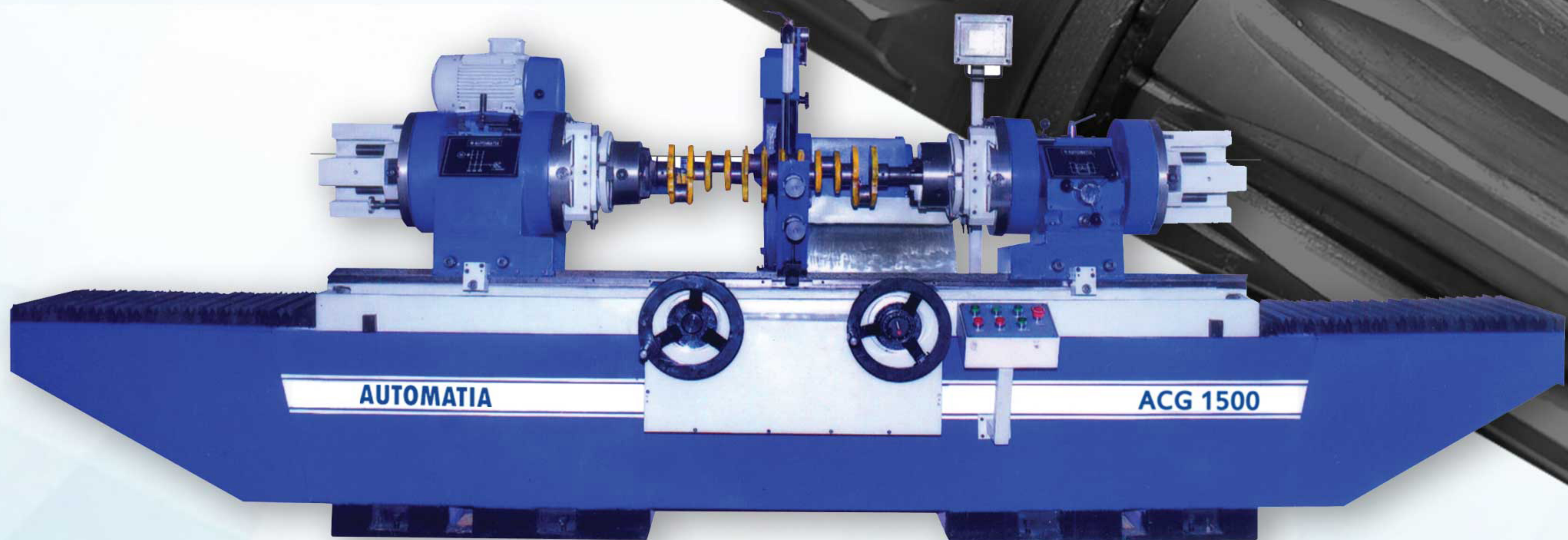




CRANK SHAFT GRINDING MACHINE



AUTOMATIA MACHINES PVT LTD

36/2863D, Thamarassery Building, Edapally North P.O, Thattampady, Cochin 682024, Kerala, India

TEL: +91 94464 28063, +91 90742 83092

email: marketing@automatia.in

www.automatia.in

CRANK SHAFT GRINDING MACHINE

PRODUCT DESCRIPTION

Model ACG 2700, Model ACG 2100,Model ACG 1500

The Automatia Crankshaft Grinding Machines, ACG 1500 & ACG 2100 are high precision products designed for regrinding of Crankshaft. The machines combine high precision operation with a length of up to 1500mm and 2100mm respectively. These machines are designed for the machining of crankshafts for single cylinder engines, passenger cars, LCV, and HCV engines. These machines create high productivity rates with increased flexibility in grinding of both Main and Pin Bearings.

SALIENT FEATURES

- Turcite-B on Wheel Head and Table Slide Surfaces to minimize friction & for long life
 - Grinding Wheel Head Movement Controlled by MPG (Manual Pulse Generator)
- Best in the Industry after Sales Service
 - Digital Display using HMI for Easy Operation
 - Assembled by a Team of Highly Experienced Technicians and Engineers
 - Automatic Lubrication System using PLC for Grinding Head Slide
- Center Height of 310mm to accommodate Bigger Crankshaft.
 - Ball Screw with PLC system completely replaces outdated Hydraulic Power Pack systems.
 - Wheel Head Traverse of 350mm

TECHNICAL SPECIFICATIONS

DESCRIPTION	ACG 1500	ACG 2100	ACG 2700
Maximum Grinding Length	1500mm (60")	2100mm (82")	2700mm (106")
Maximum Distance Between Chuck	1450 mm	2050 mm	2650 mm
Height Of Table Top To Center	310mm	310mm	310mm
Max Stroke Wheel Head	350mm	350mm	400mm
Max Swing Over Table	620mm	600mm	600mm
Max Head Offset	110mm	110mm	200mm
Max Work Piece Diameter In Chuck	600mm	600mm	600mm
Work Head Spindle Speeds (Continuously Variable - VFD). Optional	20 – 100rpm	20 – 100rpm(VFD)	20 – 100rpm(VFD)
Table Slow Feed Per Turn Of Hand Wheel	1mm/rev	1mm/rev	1mm/rev
Table Fast Feed Per Turn Of Hand Wheel	5mm/rev	5mm/rev	5mm/rev
Table Speed Step-Less (Servo)	Optional	Optional	Optional
Head Stock Spindle Motor	1hp,960rpm	1hp,960rpm	2hp,960rpm
Grinding Wheel Motor	5hp,1440rpm	5hp,1440rpm	7.5hp,1440rpm
Grinding Slide Servo Motor	400watts	400watts	400watts
Coolant Motor	0.25hp,1440rpm	0.25hp,1440rpm	0.25hp,1440rpm
Grinding Wheel Diameter	660mm, 710mm	710mm	813 mm
Total Length of Machine	3500mm	5200mm	6000mm
Work Space Required	5600 X 2000mm	5600 X 2000mm	8800 x 2300mm
Net Weight (Approx)	3500kg	5000kg	6300 kg
Gross Weight (Approx)	4000kg	5400 kg	7000Kg
Slide Movement	Precision Ball Screw	Precision Ball Screw	Precision Ball Screw
Automatic Sizing Gauge	HMI	HMI	HMI
Stroke Measuring Gauge	HMI	HMI	HMI
Hydraulic Power Pack	Not applicable- servo control	Not applicable- servo control	Not applicable- servo control
Auto Table Traverse (Servo Control)	Optional	Optional	Standard
Slide Lubrication - Optional	PLC controlled Auto	PLC controlled Auto	PLC controlled Auto

STANDARD ACCESSORIES

DESCRIPTION	UNIT	DESCRIPTION	UNIT	DESCRIPTION	UNIT
Setup Indicator Assembly with dial	01 set	Splash Guard	01 set	Wheel Hub Puller	01 nos
Centering Gauge Assy- with dial	01 set	Coolant System	01 set	Belt polisher	Optional
Steady Rest	01 set	Chuck Jaws	02 set	Setup Indicator With Dial	01 nos
Straight Wheel Dresser	01 set	Spanner 41-46	01 nos	Plate Leveling Bolt And Nut	10 no
Radius Wheel Dresser	01 set	Spanner Big, Small With Lever	01 nos	Anti-friction Lining	Optional
Diamond Dresser	01 no	Socket Spanner	01 nos	Extra Grinding Wheel Hub	Optional
Grinding Wheel	01 no	Extra Balancing Weight With Bolt	01 set	Extra Steady Rest	Optional
Wheel Hub	01 no	Extra Large Spanner With Lever	01 nos	Wheel Balancing Stand	Optional
Wheel Balancing Mandrel With Nut	01 no	Allen Key Set	01 nos	Operation Manual	01 no