

**TECHNICAL SPECIFICATIONS
FOR AUTOMATIC GRINDING AND POLISHING MACHINE WITH AUTOMATIC
POLISHING HEAD**

I. Grinding and Polishing Machine

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|---|---|
| 1. Type | Table Top only |
| 2. Disc Diameter | 8-10" (200-300mm) Single Disc |
| 3. Wheels | Aluminium or Brass |
| 4. Disc Speed / variability | upto 400 rpm |
| 5. Controls | Front panel, Touch pad controls and LED display |
| 6. Power on /off switch | Illuminated Type |
| 7. Polishing & grinding cloth holding clamp | required |
| 8. Drain out let & bowl flush jet | required |
| 9. Motor capacity | 1 to 2 HP, 220-240 V |

Automatic Power Head

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|-----------------------------|--|
| 1. Sample Capacity (Holder) | 1-6 Samples |
| 2. Sample Force | 4 Kgs to 50 Kgs |
| 3. Sample Size | 25, 30, 40 and 50mm |
| 4. Head direction /speed | Clockwise / anticlockwise upto 100 rpm |
| 5. Fluids | water on / off |
| 6. Power | 220/240 volts/ 50Hz/ single phase, 0.75 HP |

The Automatic Grinding and Polishing machine should be supplied with automatic dispensing unit and full accessories for drainage of water etc.

The machine should be designed for single or central force applications independently. Central force is required for multiple sample preparation simultaneously. The force should be applied electronically without the need of compressed air. The feature should be clearly explained.

Standard accessories such as specimen leveling press – 1 no., 5 nos each of grinding polishing discs, paper clamps, rings and cloth clamps/ bands, specimen holder disc for holding 5-6 specimen moulds of 1- 1¼ inch dia.

Operating & instruction manuals and maintenance & service manuals – 3 copies each

Installation & commissioning and demonstration of its functioning in BHEL laboratory to be arranged.

Address of the Indian agent along with appropriate certificate from the Principal Supplier should be provided.

The suppliers should mandatorily provide the list of various organizations (including in India) with their contact addresses, where similar equipment has been supplied.

The supplier should ensure that the spares are made available for the next 10 years and certification should be furnished to this effect. Essential spares required for trouble free operation for 5 years should be quoted.

The supplier shall provide 12 months warranty from the date of commissioning.

Note: Only reputed manufacturers such as M/s Buehler, USA, Struers, Denmark, Leco, USA, PRESI, France etc need to be contacted.

For any Technical Clarification, please contact :

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