

Revised Technical Specification

Date - 14/2/13.

REVISED TECHNICAL SPECIFICATIONS

HEAVY DUTY DOUBLE ENDED PEDESTAL GRINDER

1. **PURPOSE:** Double Ended Pedestal Grinders (direct driven type) are required to sharpen high speed steel and carbide cutting tools used on the Lathes, Milling machines, vertical boring and Horizontal boring machines.

2. **TECHNICAL DETAILS:** Double Ended Pedestal Grinder (direct driven type) for heavy duty work with the following specifications:-

- 2.1. Grinding wheel size (Dia. x Thickness x Bore) : 400 x 50 x 50.8 mm
(As per IS: 2324 (Part 2) -1985)
- 2.2. Grade of the grinding wheels for HSS Tool : To be informed by the vendor
- 2.3. Grade of the grinding wheels for Carbide Tool. : To be informed by the vendor
- 2.4. Centre height from ground : 900 mm approx.
- 2.5. Distance between the wheels : 600 mm approx.
- 2.6. Electric Motor with its make (constant speed) : 5HP, 3Phase, 50Hz, 415/440 Volts, No load RPM-1400-1600. The motor should be as per IS: 325 and the warranty of 24 months is required. Vendor to inform detailed specifications of motor including make and model number.
- 2.7. Starter : Direct on Line Push Button type.
The starter should be of reputed make e.g. L&T, Siemens or any other equivalent brand. It is to be mounted in the centre of pedestal body. Vendor to inform the make and model number of Direct on Line starter.
- 2.8. Bearings : Type, size, no. and make of the bearing from a reputed brand e.g. SKF, NBC etc. or any other equivalent brand.
- 2.9. Space required for the installation : To be informed by the Vendor
- 2.10. Dia. of the shaft : 40 mm approx.
- 2.11. Warranty:
Vendor shall provide full and complete guarantee for 18 months, including bought out items, if any, for trouble free operation after successful commissioning of the machine.

3. ACCESSORIES NEEDED WITH THE GRINDER:

- 3.1. Machine Light: - Each machine shall be provided with one lamp with bulb suitable for both grinding wheels with flexible arrangement and ON/OFF switch & power socket on the pedestal.
- 3.2. Grinder should be fitted with all standard accessories like Transparent Eye shield, Wheel guard & adjustable work table on either side of grinder etc.
- 3.3. Antirust trays should be fitted below both the grinding wheels for collection of dust.

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3.4. A water pot of 1.5 liter capacity to be provided for storage of water for cooling purpose at suitable place.

4. **POWER SUPPLY / ENVIRONMENT CONDITION:**

The machine should be suitable for operation in the following conditions: -


Power supply for the machine: 415 V +10 % / -15 %, 3 phases, 50 Hz +/-3 %
Temperature : 5 to 45 deg C
Relative humidity : 95 % max.
Other conditions : Similar to tropical country.
Dust laden atmosphere.

5. Erection and commissioning will be done by the supplier at BHEL, Haridwar. Foundation drawing, Foundation Bolts, nuts, washers and all other material for erection & commissioning will be supplied by the supplier.
6. Vendor to give set of tools along with each Grinder. Vendor to submit list of tools.
7. Vendor to quote for recommended spares item wise for two year trouble free working. Spares list should include motor and DOL starter along with other items.
8. Vendor should supply suitable rating power cable for electrical connection of 15 m length for each grinder.
9. 3 sets of document in hard copy for operation, maintenance and electrical diagram for motor and starter to be submitted by the vendor.
10. Pre dispatch inspection will be carried out by BHEL at vendor's works to check specification compliance & performance of machine. Machine shall be dispatched after clearance given from BHEL.
11. Catalogue /Drawing/Sketch of Pedestal Grinder to be submitted by the vendor along with the offer.
12. Color of the machine : To be informed by vendor.
13. Vendor to give reply to all the above points, point wise and sequentially.

14. **QUALIFYING CONDITIONS:**

- 14.1. The vendor should be original equipment manufacturer of Pedestal Grinder and not a Trader. Vendor should submit a self-verified letter on company letter head stating that he is original equipment manufacturer.
- 14.2. The vendor should submit list of broad specification of Pedestal grinders supplied to various customers within past three years, along with contact details of buyers.


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