Specifications for Lathe

1. Distances between centers: 750-1000 mm
2. Height of the centre: 170 - 180 mm
3. Spindle bore: 40-50 mm
4. Spindle speed range: 60 – 2000 rpm
5. Swing over bed: 350mm
6. Swing over cross-slide: 250 mm
7. Movement of cross slide: 180 mm
8. Spindle diameter: 50 mm
9. No. of speeds: 8
10. Feed range
   Longitudinal: 0.05 – 2 mm/rev
   Transverse: 0.02 – 1.2 mm/rev
11. Thread cutting: Half nut mechanism
12. Coolant System: Flood coolant
13. Extra accessories required for the operation of the lathe:
   Standard accessories to be supplied with the lathe: Vendor to specify
   Extra accessories with individual cost
14. Spares:
   Recommended spares for two years of operation and price for each item to be indicated
15. Manual:
   To be supplied with the machine
16. Erection and Commissioning:
   By the supplier
Specifications for Radial Drilling Machine

1. Capacity
   - Drilling in Steel, mm 50
   - Drilling in Cast Iron, mm 60
   - Tapping in steel – metric fine threads M56 x 2.5

2. Drill Head
   - Taper in spindle MT5
   - Number of spindle speeds 12
   - Speed range, rpm 25 – 2000
   - Number of feeds Not less than 6
   - Feed range, mm/rev 0.125 to 1.25

3. Working Range
   - Column sleeve diameter, mm 350
   - Drilling radius, maximum, mm 1500
   - Drilling radius, minimum, mm 550
   - Quill traverse, mm Min 320
   - Base plate to spindle:
     - Maximum, mm 1400
     - Minimum, mm 360
   - Drilling head traverse, mm Min 950
   - Arm traverse, mm Min 725

4. Power
   - Power, main motor kW 3.0

5. Motor
   - Spindle motor power not less than 3.6 kW

6. Base Plate
   - Size around 1500 X 900 mm, with ‘T’ slots

7. Locking Mechanism for Column and Sleeve, Arm Locking and Drill Head Locking
   - Vendor to specify

8. Coolant System
   - Flood coolant
9. **Clamping:**
   Manual

10. **Extra Accessories required for the operation of the Radial Drilling Machine:**
    Standard accessories to be supplied with the radial drilling machine: Vendor to specify
    Extra accessories with individual cost.

11. **Spares:**
    Recommended spares for two years operation and price for each item to be indicated

12. **Manual:**
    To be supplied with the machine

13. **Vendor to give the following:**
    1. GA drawing with major and critical dimensions
    2. Sub assembly drawings for the following mechanisms:
       - Arm movement and locking
       - Spindle head movement and locking
       - Quill movement

14. **Erection and Commissioning:**
    By the supplier

Last date of the tender: **21st April, 2010**                        Time: **2:00 pm**

Contact Address:
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