

# ***HERBeRT - smith***

## **Extra Heavy Duty Lathe Machines**

These lathes are suitable mainly for turning internal and external cylindrical, conical and other swing surfaces as well as various metric, inch, module and diametric pitch threads. They can also be used for broaching oil grooves and keyways. There are also following features:

1. The side wall of bed is constructed with double-rib Plates and the shape of internal ribs is of box type and bevel ribs combination. The rigidity is higher than that of ordinary lathes. The precision is stable. And these lathes can carry out strong force cutting.
2. On apron there is a device operated by a single lever used for rapid traverse of the carriage. Spindle's braking and rotating direction change is controlled by hydraulic system or by hand operation all to user's choice.
3. The saddle guide way is glued by "TSF" soft belt wear resisting materials.
4. On user's demand, we can equip the lathe with automatic feeding mechanism. The top slide can be used independently for turning of short cone in combination with longitudinal feeding, it can also turn long taper surface.

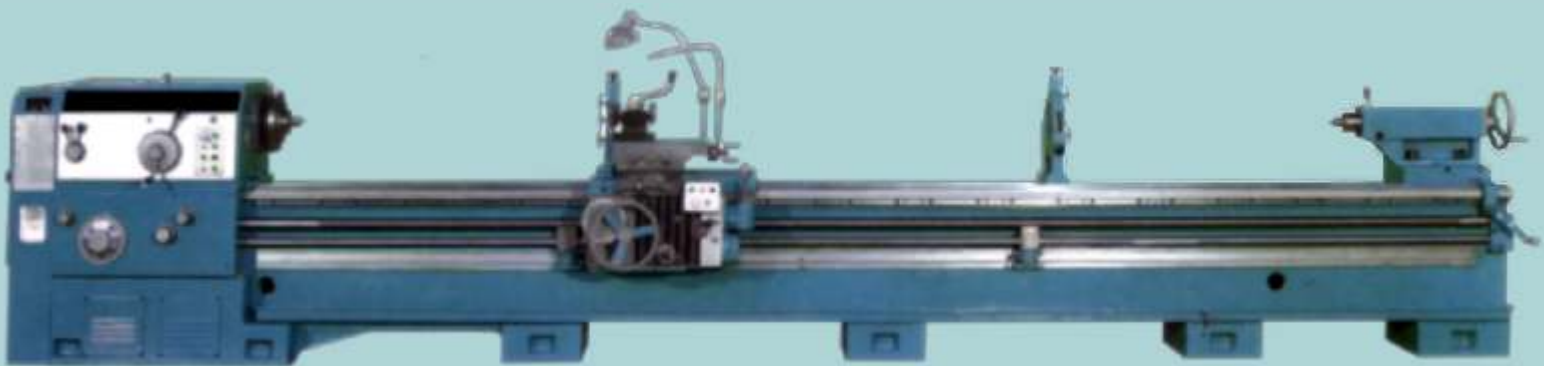


**CW**  
Lathe Series

**6263B**

**6280B**

**6294B**



**WORLD CLASS**



## TECHNICAL DATA

| Particulars                                  | Units  | CW6263B  | CW6280B        | CW6294B        |
|--|--------|--|----------------|----------------|
| <b>Capacity</b>                              |        |  |                |                |
| Swing over bed                               | mm     | 630  | 800            | 940            |
| Swing over carriage                          | mm     | 350  | 520            | 660            |
| Maximum length of Workpiece                  | mm     | 750, 1000, 1500, 2000, 3000, 4000, 5000, 6000, 7000, 9000, 10000   |                |                |
| Maximum turning length                       | mm     | 600, 850, 1350, 1850, 2850, 3850, 4850, 5850, 6850, 8850, 9850     |                |                |
| Swing over gap                               | mm     | 830  | 1000           | 1140           |
| Effective width of gap                       | mm     | 300  | 300            | 300            |
| Pan of guideway                              |        | 550  | 550            | 550            |
| <b>Spindle</b>                               |        |  |                |                |
| Spindle nose                                 |        | C11  | C11            | C11            |
| Spindle bore                                 | mm     | 100  | 100            | 100            |
| Taper hole of spindle                        |        | 1:20/120   | 1:20/120       | 1:20/120       |
| Range of spindle speed                       | r/min  | 7.5 ~ 1000   | 6 ~ 800        | 6 ~ 800        |
| Number of spindle speeds                     |        | 18   | 18             | 18             |
| <b>Feed Motion</b>                           |        |  |                |                |
| Longitudinal and cross                       | r/min  | 64:0.1 ~ 24.32   | 64:0.1 ~ 24.32 | 64:0.1 ~ 24.32 |
| Cross-to-long longitudinal feed rate         |        | 1/2  | 1/2            | 1/2            |
| Screw pitch of lead screw                    | mm     | 12   | 12             | 12             |
| Number and range of metric thread            | mm     | 50:1 ~ 240   | 50:1 ~ 240     | 50:1 ~ 240     |
| Number and range of inch thread              |        | 26:14 ~ 1  | 26:14 ~ 1      | 26:14 ~ 1      |
| Number and range of module thread            | mm     | 53:0.5 ~ 120   | 53:0.5 ~ 120   | 53:0.5 ~ 120   |
| Number and range of diametrical pitch thread |        | 24:28 ~ 1  | 24:28 ~ 1      | 24:28 ~ 1      |
| Rapid traverse speed of carriage             | mm/min | 4000   | 4000           | 4000           |
| <b>Tool Post</b>                             |        |  |                |                |
| Max. travel of cross slide                   | mm     | 440  | 540            | 570            |
| Max. travel of top slide                     | mm     | 200  | 200            | 200            |
| Section of tool shank                        | mm     | 32   | 32             | 32             |
| <b>Tailstock</b>                             |        |  |                |                |
| Diameter of tailstock quill                  | mm     | 100  | 100            | 100            |
| Travel of tailstock quill                    | mm     | 250  | 250            | 250            |
| Taper hole of tailstock quill                |        | marse 5  | marse 5        | marse 5        |
| <b>Other</b>                                 |        |  |                |                |
| Main motor power                             | kW     | 11   | 11             | 11             |
| Machine mass                                 | Kg     | 3200 onwards   | 3400 onwards   | 3900 onwards   |
| <b>Machine overall dimensions</b>            |        |  |                |                |
| Length                                       | mm     | 2958, 3275, 3725, 4225, 5225, 6275, 7355, 8355, 9275, 11275, 12275 |                |                |
| Width  | mm     | 1393   | 1473           | 1430           |
| Height                                       | mm     | 1537   | 1622           | 1690           |

### Standard Accessories

4 Jaw Chuck, Face plate, Steady Rest, Follow Rest, Rolling Steady Rest, Live Center, Centre Sleeve, Coolant System, Machine Lamp, Operation manual and Tool box.

### Optional Accessories

3 Jaw Chuck, Steady rest (large diameter or extra sets), Roller support, Digital Read out (Position indicators) system.



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