

## 160-B MODEL

### DESCRIPTION

#### BED

Made of stabilized pearlitic cast-iron, with or without gap. With ground prismatic bed ways, with a hardness of 200 to 220 Brinell. On demand it might be delivered induction-hardened with a hardness of 400 to 500 Brinell.

#### HEADSTOCK

Hardened and ground main spindle mounted on tapered roller bearings. Hardened and ground gears made of chrome-nickel steel.

#### NORTON GEARBOX

Completely closed construction, with range of metric. Whitworth and modular threads. Gears and shafts running in an oil bath.

#### APRON

Of easy handling, equipped with a safety device preventing the sliding and threading controls from being engaged simultaneously.

#### CROSS SLIDE AND TOOL HOLDER CARRIAGE

Both move on a dovetail guide way with adjusting rules. The cross slide screw has a system for compensating the play. The cross slide is equipped with quick tool return movement and prepared for mounting a rear tool post or a hydraulic copying attachment.

#### TAILSTOCK

Of high rigidity. Its shank is treated and ground and mounted on two bearings for compensating the axial stresses. Quick blocking of the tailstock by means of a cam.

#### ELECTRIC INSTALLATION

Control box with contactors and transformer at 24 v.; emergency stop push-button; and start and reversing control is centralized in the apron.

### TECHNICAL DATA

#### CAPACITY

Centre height 160 mm.

Centre distance 500-750-1000-1500 mm.

Swing admitted over bed 310 mm.

Swing admitted over gap 460 mm.

Swing admitted over longitudinal carriage 295 mm.

Swing admitted over cross slide 180 mm.

Bed width 200 mm.

Gap length in front of face plate 130 mm.

#### HEADSTOCK

Main spindle bore (Morse 4) 28 mm.

Main spindle bore on demand (Morse 5) 35 mm.

Main spindle nose DIN 55027-5 – (DIN 55022-5)

Number of speeds 18

Speed range in r.p.m. 68 - 1427.

#### THREAD AND FEED BOX

Range of longitudinal feeds 0,050-0,600 mm.

Range of cross feeds 0,016-0,200 mm.

Range of metric threads 0,5-6 mm.

Range of Whitworth threads in T.P.I. 4-60  
Range of modular threads 0,5-3  
Thread of lead screw in T.P.I. (6,35 mm.) = 4 h”

#### **SLIDE AND CARRIAGE**

Cross slide travel 165 mm.  
Tool-holder carriage travel 140 mm.  
Maximum tool dimensions 20 x 20 mm

#### **TAILSTOCK**

Shank diameter of tailstock 40 mm.  
Shank travel of tailstock 120 mm.  
Morse taper of tailstock 3.

#### **MOTORS**

Main motor power in HP 2 CV.  
Main motor power in HP on demand 3 CV.

#### **WEIGHTS AND DIMENSIONS**

Net weight 520-550-600-640 Kgs.  
Gross weight 600-640-700-750 Kgs.  
Packing dimensions of 500 mm. 1,53 x 0,82 x 1,45 m.  
Packing dimensions of 750 mm. 1,78 x 0,82 x 1,45 m.  
Packing dimensions of 1000 mm. 2 x 0,82 x 1,45 m.  
Packing dimensions of 1500 mm. 2,57 x 0,82 x 1,45 m.

#### **NORMAL ACCESSORIES**

Electric equipment at low voltage  
Chip collecting tray  
Chuck back  
2 fixed centres  
Square turret tool post  
15 auxiliary gears  
Spanners and keys  
CE Security Norms  
Instruction manual

#### **SPECIAL ACCESSORIES**

Complete coolant equipment  
Rear chip and splash guard  
Universal 3-jaw chuck of 160 mm. diam.  
4 independent-jaw chuck of 250 mm. diam.  
Face plate of 280 mm. diam.  
Driving plate  
Thread indicator dial  
Fixed steadyrest of 100 mm. diam.  
Follow rest of 50 mm. diam.  
Live centre Morse 3  
Quick-change toolpost  
Rear toolpost  
Lighting at 24 V.  
Chuck guard  
Mechanical taper turning attachment  
4-position stop for longitudinal carriage.

Set of 3 pulleys for sliding

**Observation:** We reserve the right to realize –without previous notification- any modification as to dimensions weight or technical details.