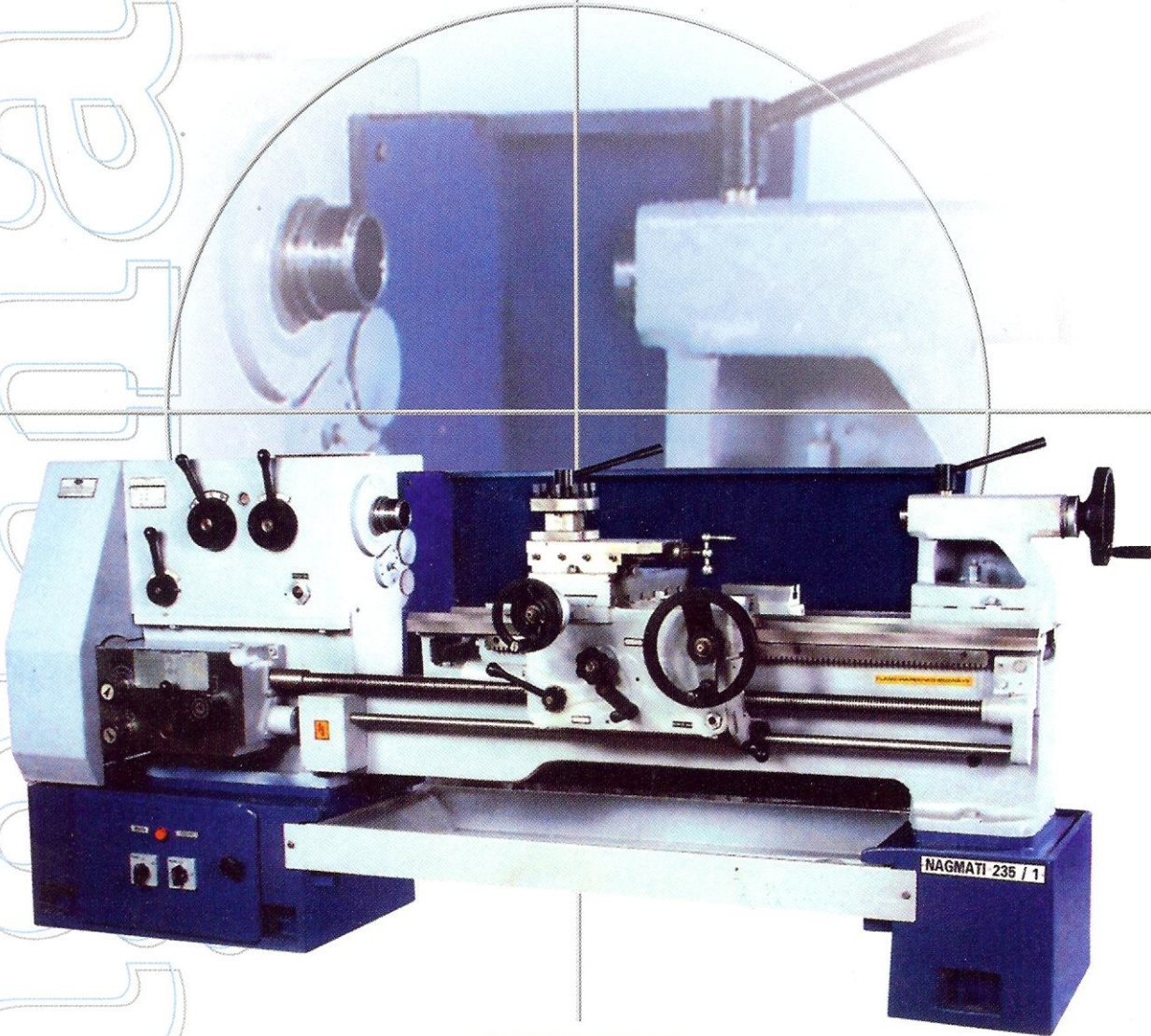


# NAGMATI



benchmark  
An ISO 9001  
Certified Company

## HEAVY DUTY ALL GEARED LATHE MODEL : 235/1, 235/2, 235/3, 235/4, 235/5, 235/6



### SPECIAL FEATURES :

#### Rigidity and heavy duty performance

Robust IS 25 graded castings.

Rigid and box section type extra wide bed provides maximum torsional stiffness.

Rigid and accurate, alloy steel, hardened & ground main spindle mounted on precision taper roller bearings.

Speeds range from 35 to 1500 RPM with 5 HP motor.

Force lubrication in headstock.

Apron with oil bath.

Interlocked for thread and feed mechanism (only one can be engaged at a time).

Full length cross slide to accommodate rear tool post or copying attachment.

Heavy square body tailstock with 60mm sleeve.

Sliding type coolant and chip tray.

Electrical overload protection through relays and contactors.

#### Built-in accuracy :

All major casting artificially seasoned for retaining built-in accuracy.

Critical components precision machined on imported mother machine.

Induction hardened and ground and alloy steel gears mounted on precision spline shafts & running in oil bath.

Flame hardened and ground bed for minimum wear.

Alloy steel lead screw threads cut on WMW

thread milling machine.

Each machine tested to IS : 1978 (Part) 1993.

#### Versatility :

Built-in gap bed.

Extra height of centres for larger jobs (optional).

Norton gear box selection of wide range of feeds and threads.

Instantaneous spindle recersal while threading, by swich shaft lever attached with carriage.

Wide variety of optional accessories for higher productivity.

#### Interchangeability :

All components machined using jigs & fixtures on imported mother machines to close tolerances thus providing easy interchangeability.



# HEAVY DUTY ALL GEARED LATHE

## MODEL : 235/1, 235/2, 235/3, 235/4, 235/5, 235/6

### Technical Specifications for model : HGN-1, 2, 3, 4, 5, 6

| Capacity                            |        | Standard  | Optional          | Speeds  |                |                       |
|-------------------------------------|--------|-----------|-------------------|---|----------------|-----------------------|
| Centre height over flat ways        | mm     | 235       | 305               | Number / Range  | RPM            | 8 / 35-1500           |
| Swing over bed                      | mm     | 455       | 595               | <b>Feeds</b>  |                |                       |
| Swing over cross slide              | mm     | 255       | 395               | Number  |                | 54                    |
| Swing in gap                        | mm     | 760       | 900               | Range :   |                |                       |
| Width of gap in front of face plate | mm     | 200       | 200               | Longitudinal  | mm/rev         | 0.017 to 0.998        |
| Bed width                           | mm     | 325       | 325               | Cross   | mm/rev         | 0.0041 to 0.2410      |
| <b>Admit Between Centres</b>        |        |           | <b>Bed Length</b> |   |                | <b>Lead Screw</b>     |
| 235/1                               | mm     | 1035      | 2200              | Diameter / Threads  | mm/TPI         | 38/4                  |
| 235/2                               | mm     | 1550      | 2700              | <b>Threads</b>  |                |                       |
| 235/3                               | mm     | 2000      | 3170              | Range :   |                |                       |
| 235/4                               | mm     | 2500      | 3670              | Metric  | No./Pitch (mm) | 17/0.5 to 6           |
| 235/5                               | mm     | 3200      | 4380              | Inch  | No./TPI        | 54/224 to 4           |
| 235/6                               | mm     | 4000      | 5280              | <b>Electrical</b>   |                |                       |
| <b>Main Spindle</b>                 |        |           |                   | Power supply  |                | 440 V, 3 Phase, 50 hz |
| Spindle nose dia./threads           | mm/TPI | 74.6x6TPI |                   | Main motor  | KW (HP)        | 3.7 (5)               |
| Spindle bore dia.                   | mm     | 52        |                   | Coolant motor   | KW (HP)        | 0.11 (0.5)            |
| Taper bore in spindle               |        | MT-6      |                   | <b>Accuracy :</b>   |                |                       |
| <b>Carriage</b>                     |        |           |                   | Geometrical and practical accuracies,<br>Confirm to IS : 1978 (Part I) 1993 |                |                       |
| Cross slide travel                  | mm     | 240       | 310               |   |                |                       |
| Compound slide travel               | mm     | 120       |                   |   |                |                       |
| <b>Tail Stock</b>                   |        |           |                   |   |                |                       |
| Sleeve dia.                         | mm     | 60        |                   |   |                |                       |
| Taper bore in sleeve                | mm     | MT-4      |                   |   |                |                       |
| Sleeve travel                       | mm     | 180       |                   |   |                |                       |

### DIMENSION

| Model | Floor Space occupied (mm) | Approx weight (kg) |       | Approx size of case (mm) | Volume of case (mt <sup>3</sup> ) |
|-------|---------------------------|--------------------|-------|--------------------------|-----------------------------------|
|       |                           | Nett               | Gross |                          |                                   |
| 235/1 | 2440 x 1450               | 1575               | 1825  | 2740 x 1105 x 1370       | 4.15                              |
| 235/2 | 3010 x 1450               | 1675               | 1975  | 3200 x 1105 x 1370       | 4.84                              |
| 235/3 | 3460 x 1450               | 1875               | 2225  | 3700 x 1105 x 1370       | 5.60                              |
| 235/4 | 4125 x 1450               | 1975               | 2375  | 4370 x 1105 x 1370       | 6.62                              |
| 235/5 | 5000 x 1450               | 2500               | 3500  | 5070 x 1105 x 1370       | 7.68                              |
| 235/6 | 5780 x 1450               | 3200               | 4200  | 5800 x 1105 x 1370       | 8.78                              |

#### Standard Accessories :

Four position square tool post. Driving plate. Centre adaptor. Dead centres (MT-4-2 Nos) Electric motor, starter. spindle reversal shaft. Change gear set for metric and inch threads. Thread dial indicator. Tool post spanner Instruction manual, V-Belt, Norton Gear box.

#### Optional Accessories :

Taper turning attachment (300 length x 250 Dia. max.) Coolant pump with tank and electrical fittings. Machine lamp. Long cross slide with rear tool post. three jaw self centering and four jaw independent chucks. Chuck flange. Quick change tool post. 305 mm height of centre. Face plate, Steady rest, Follow rest, Rear splash guard,

**Note :** As improvements are constantly made in our machine, the specifications are subject to change without notice and are not binding on us.

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