

1350 / 1650 Series



- ❖ Flame Hardened Bedways
- ❖ Drop Worm Type Feed with Finger Tip Control for Easy Operation to Engage / Disengage Feed Rod
- ❖ Hardened & Profile Ground Head Stock Gears
- ❖ Precisely Ground Alloy Steel Spindle is Mounted on Two Taper Roller Bearing at Front & One Roller Bearing at Rear End

TECHNICAL SPECIFICATIONS

| MODEL | | 1350 / 1 | 1350 / 2 | 1650 / 1 | 1650 / 2 |
|------------------------------|----|----------------------|----------------------|----------------------|----------------------|
| Height for Centres | mm | 177 | 177 | 215 | 215 |
| Swing over Bed | mm | 335 | 335 | 410 | 410 |
| Swing over Cross Slide | mm | 200 | 200 | 250 | 250 |
| Dist. Between Centres | | 540 | 1000 | 1000 | 1500 |
| Movement of Cross Slide | mm | 210 | 210 | 250 | 250 |
| BED | | | | | |
| Bed Type | | 2 Flat & 2V | 2 Flat & 2V | 2 Flat & 2V | 2 Flat & 2V |
| Bed Width | mm | 230 | 230 | 265 | 265 |
| MAIN SPINDLE | | | | | |
| Type & Size of Spindle Nose | | A 2 Size 4 | A 2 Size 4 | A 2 Size 4 | A 2 Size 4 |
| Taper Bore in Center Sleeve | MT | 4 | 4 | 4 | 4 |
| Spindle Bore | mm | 42 | 42 | 42 | 42 |
| TAIL STOCK | | | | | |
| Spindle Diameter | mm | 45 | 45 | 45 | 45 |
| Taper Bore in Spindle Sleeve | MT | 4 | 4 | 4 | 4 |
| SPEEDS | | | | | |
| No. of Speeds | | 8 / 16 | 8 / 16 | 8 / 16 | 8 / 16 |
| Range / RPM | mm | 45 - 938 / 30 - 1250 | 45 - 938 / 30 - 1250 | 45 - 938 / 30 - 1250 | 45 - 938 / 30 - 1250 |
| ELECTRICALS | | | | | |
| Main Motor | HP | 2 | 2 | 3 | 3 |
| Power Supply | | 3 Phase | 3 Phase | 3 Phase | 3 Phase |
| OTHER DATA | | | | | |
| Gross Weight | Kg | 1000 | 1100 | 1400 | 1550 |
| FLOOR SPACE | | | | | |
| Occupied (L x W) | mm | 2350 x 1100 | 2800 x 1100 | 2800 x 1150 | 3350 x 1150 |
| Packing Dimension | mm | 1750 x 1000 x 1300 | 2200 x 1000 x 1300 | 2200 x 1050 x 1350 | 2750 x 1050 x 1350 |

2050 Series



TECHNICAL SPECIFICATIONS

| Type of bed | | 2 Flat & 2 Vee |
|--------------------------------------|---------|-----------------|
| Height of centre | mm | 254 / 305* |
| Width of bed | mm | 325 |
| Swing over bed | mm | 484 / 595* |
| Swing over cross slide | mm | 290 / 395* |
| Swing in gap | mm | 800 / 900* |
| Length of gap in front of face plate | mm | 200 |
| No. of spindle speed / range | | 8 |
| Spindle speed range | rpm | 30 - 1235 |
| Spindle bore | mm | 52 |
| Spindle nose | | A2 Size 6 |
| Taper in centre sleeve | MT | 4 |
| Tail stock spindle diameter | mm | 63 |
| Feed range | mm/Rev. | 40 |
| Range of longitudinal speed per rev. | mm/Rev. | 0.064 to 1.98 |
| Transverse feeds per revolution | mm/Rev. | 0.016 to 0.48 |
| Threads no. range | inch | 40/2 to 60 TPI |
| Threads no. range | Metric | 20/0.5 to 15 mm |

* Optional

- ❖ Flame Hardened Bedways
- ❖ Hardened & Profile Ground Head Stock Gears
- ❖ Headstock spindle is made from high tensile steel duly hardened and ground running in precision taper roller bearings.
- ❖ Maintained contact starting shaft.

STANDARD ACCESSORIES :

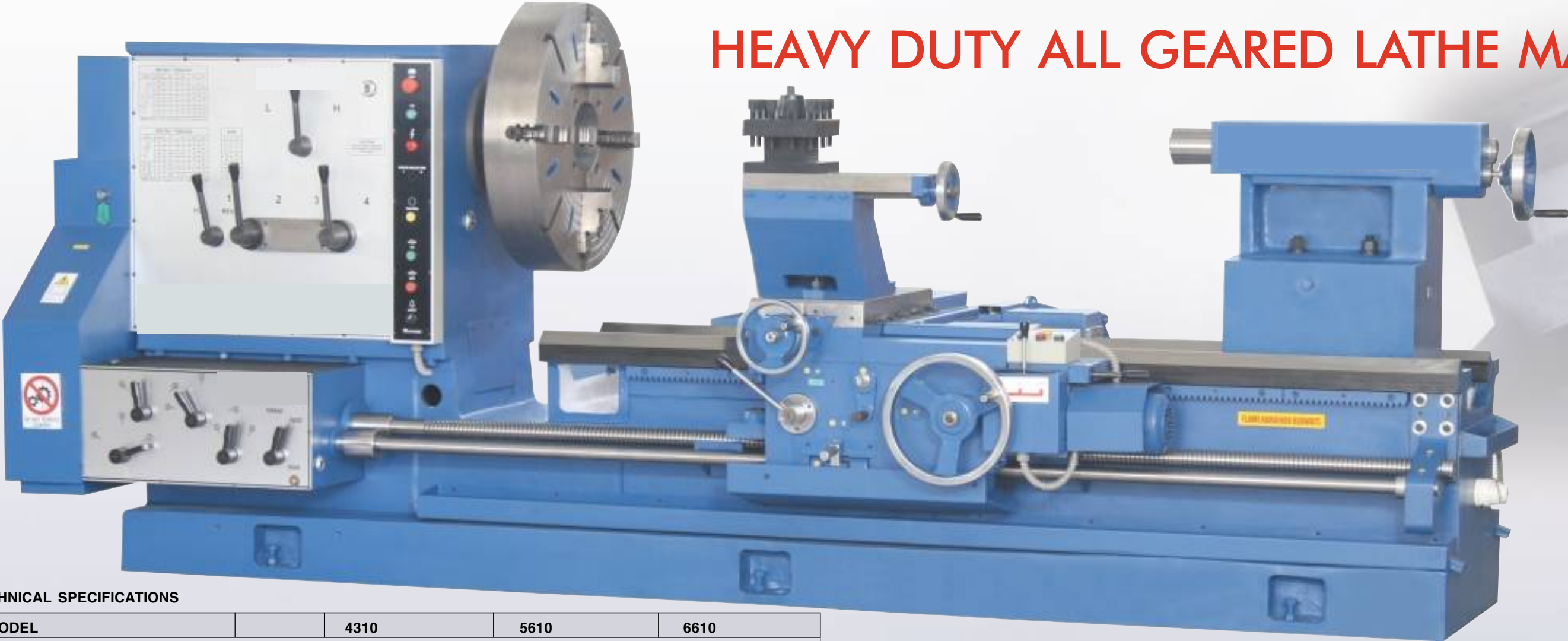
Hardened Guideway, Electricals consisting of Electric Motor, Switch Shaft, V Belts, Catch Plate Inch / mm Gears, Set of 2 Nos. Dead Centres with Centre Bush, Oil Can, Set of Allen Keys, Spanners & Instruction Manual.

OPTIONAL ACCESSORIES :

Face Plate, Steady Rest, Follow Rest, Electric Coolant Pump with Tank & Fittings, Taper Turning Attachment, Rear Tool Post with long Cross Slide, Key way cutting Attachment, Machine Lamp with Control Transformer, Chuck Flange, 4 Jaw Dog Chuck, 3 Jaw True Chuck, Quick Change Tool Post with Tool Holders, Tool Post Grinder (External/Internal), Revolving Centre & Control Panel with Foot Brake.

| Model | | 2050/1 | 2050/2 | 2050/3 | 2050/4 | 2050/5 | 2050/6 |
|-----------------------|----|-------------|-------------|-------------|-------------|-------------|-------------|
| Length of bed | mm | 1675 | 2130 | 2730 | 3030 | 3630 | 4230 |
| Admit between centers | mm | 555 | 1015 | 1610 | 1910 | 2500 | 3100 |
| Motor | HP | 3 | 3 | 3 | 3 | 5 | 5 |
| Floor space L x W | mm | 2595 X 1200 | 3050 X 1200 | 3650 X 1200 | 3950 X 1200 | 4550 X 1200 | 5150 X 1200 |
| Net weight | Kg | 1250 | 1400 | 1600 | 1700 | 1900 | 2100 |
| Gross weight | Kg | 1450 | 1600 | 1800 | 1900 | 2100 | 2350 |

HEAVY DUTY ALL GEARED LATHE MACHINES



TECHNICAL SPECIFICATIONS

| MODEL | | 4310 | 5610 | 6610 |
|--------------------------------------|-----------|---|-----------------|-----------------|
| TYPE OF BED | | ONE PIECE RIGID CONSTRUCTION, FLAT & V GUIDEWAYS WITH GAP BED | | |
| SWING OVER BED | mm | 840 | 1100 | 1300 |
| HEIGHT OF CENTRE | mm | 430 / 500* | 560 / 600* | 660 |
| WIDTH OF BED | mm | 555 | 655 | 755 |
| SWING OVER CROSS SLIDE | mm | 510 | 770 | 950 |
| SWING IN GAP | mm | 1250 | 1510 | 1710 |
| LENGTH OF GAP IN FRONT OF FACE PLATE | mm | 330 mm | 330 | 330 |
| No. OF SPINDLE SPEED | | 8 | 8 | 8 |
| SPINDLE SPEED RANGE | RPM | 20 - 275 | 20 - 275 | 16 - 195 |
| TAPER IN SPINDLE SLEEVE | MT | 5 | 5 | 5 |
| SPINDLE BORE | mm | 104 | 104 | 104 |
| SPINDLE NOSE | | BAYONET SIZE 11 | BAYONET SIZE 11 | BAYONET SIZE 15 |
| No. OF BRITISH THREADS | | 28 | 28 | 28 |
| RANGE OF BRITISH THREADS | | 1.5 TO 22 TPI | 1.5 TO 22 TPI | 1.5 TO 22 TPI |
| No. OF METRIC THREADS | | 22 | 22 | 22 |
| RANGE OF METRIC THREADS / PITCH | mm | 0.75 TO 16 | 0.75 TO 16 | 0.75 TO 16 |
| No. OF FEEDS | | 28 | 28 | 28 |
| RANGE OF LONGITUDINAL FEEDS | mm / Rev. | 0.20 TO 3.0 | 0.20 TO 3.0 | 0.20 TO 3.0 |
| RANGE OF TRANSVERSE FEEDS | mm / Rev. | 0.033 TO 0.50 | 0.033 TO 0.50 | 0.033 TO 0.50 |
| LEAD SCREW DIAMETER / PITCH | mm | 50.8 / 2 TPI | 50.8 / 2 TPI | 50.8 / 2 TPI |
| TAIL STOCK SPINDLE DIAMETER | mm | 95 | 105 | 115 |
| TAPER IN TAIL STOCK QUILL | MT | 5 | MT-6 | MT-6 |
| CROSS SLIDE TRAVEL | mm | 430 | 560 | 660 |
| COMPOUND SLIDE TRAVEL | mm | 230 | 230 | 300 |
| TAIL STOCK SLEEVE TRAVEL | mm | 220 | 310 | 410 |
| TOOL POST SQUARE | mm | 200 x 200 | 200 x 200 | 230 x 230 |
| TOOL SHANK SIZE | mm | 38 x 38 | 38 x 38 | 38 x 38 |

* OPTIONAL

4310 / 5610 / 6610 Series

SALIENT FEATURES :

- ❖ One piece lathe bed casting ensures better rigidity.
- ❖ Head Stock Spindle is precisely ground and runs in taper roller bearing and ball bearing on front side and taper roller bearing at rear side.
- ❖ Head Stock Gears are made of special alloy steel.
- ❖ Oil Pump is provided for lubrication of head stock shaft and gears.
- ❖ Bayonet Type Spindle Nose .
- ❖ Universal Norton Gear Box provides wide range of inch and metric threads.
- ❖ Drop worm type feed engage / disengage lever for easy operation.
- ❖ Control panel for on / off the machine, reverse / off / forward start handle is given along with apron gear box for easy control.
- ❖ Tail Stock Quill movement operated by hand feed with dual feed gear box.
- ❖ Flame Hardened Bed ways
- ❖ Rapid saddle movement (optional)

| MODEL | 4310 - 5610 - 6610 | | | | | | | | | | | | | | | |
|----------------------|--------------------|------|------|-------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 1 | | | | 2 | | | 3 | | | 4 | | | 5 | |
| Length of Bed | mm | 3750 | 3950 | 4270 | 4750 | 4950 | 5270 | 5750 | 5950 | 6270 | 6750 | 6950 | 7270 | 7750 | 7950 | 8270 |
| Admit Between Centre | mm | 2000 | 2000 | 2000 | 3000 | 3000 | 3000 | 4000 | 4000 | 4000 | 5000 | 5000 | 5000 | 6000 | 6000 | 6000 |
| Net Weight (approx.) | Kg | 6250 | 7750 | 10250 | 7300 | 9300 | 11300 | 9500 | 11500 | 13500 | 11200 | 13700 | 15200 | 12800 | 15300 | 16800 |
| Motor | HP | 15 | 15 | 20 | 15 | 15 | 20 | 15 | 15 | 20 | 20 | 20 | 25 | 20 | 20 | 25 |

3050 Series



TECHNICAL SPECIFICATIONS

| Type of bed | | 2 Flat & 2 Vee |
|--------------------------------------|-----|----------------|
| Height of centre | mm | 330 |
| Width of bed | mm | 375 |
| Swing over bed | mm | 630 |
| Swing over saddle | mm | 500 |
| Swing over cross slide | mm | 440 |
| Swing in gap | mm | 920 |
| Length of gap in front of face plate | mm | 220 |
| No. of spindle speed / range | | 8 / 20-835 |
| Spindle speed range | rpm | 20 - 835 |
| Spindle bore | mm | 80 |
| Spindle nose | | A2 Size 8 |
| Taper bore in centre bush | MT | 4 |
| Tail stock quill diameter | mm | 75 |
| Taper in tail stock quill | MT | 5 |
| Cross slide travel | mm | 330 |
| Compound slide travel | mm | 180 |
| Tail stock quill travel | mm | 200 |
| Tool post square | mm | 150 x 150 |
| Tool shank size | mm | 32 x 32 |

- ❖ Flame Hardened Bedways
- ❖ Hardened & Profile Ground Head Stock Gears
- ❖ Headstock spindle is made from high tensile steel duly hardened and ground running in precision taper roller bearings
- ❖ Maintained contact starting shaft
- ❖ Sleek & modern design

STANDARD ACCESSORIES :

Hardened Guideway, Electric Motor, Switch Shaft, V Belts, Catch Plate, Inch / mm Gear Set, 2 Nos. Dead Centres with Centre Bush, Oil Can, Set of Allen Keys, Spanners & Instruction Manual.

OPTIONAL ACCESSORIES :

Face Plate, Steady Rest, Follow Rest, Electric Coolant Pump with Tank & Fittings, Taper Turning Attachment, Rear Tool Post with long Cross Slide, Key way cutting Attachment, Machine Lamp with Control Transformer, Chuck Flange, 4 Jaw Dog Chuck, 3 Jaw True Chuck, Quick Change Tool Post with Tool Holders, Tool Post Grinder (External/Internal), Revolving Centre & Control Panel with Foot Brake.

| Model | | 3050/1 | 3050/2 | 3050/3 | 3050/4 | 3050/5 | 3050/6 | 3050/7 |
|-----------------------|----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Length of bed | mm | 2130 | 2730 | 3030 | 3630 | 4230 | 4830 | 5430 |
| Admit between centers | mm | 900 | 1500 | 1800 | 2400 | 3000 | 3600 | 4200 |
| Motor | HP | 5 | 5 | 5 | 7.5 | 7.5 | 7.5 | 7.5 |
| Floor space L x W | mm | 3050 x 1300 | 3650 x 1300 | 3950 x 1300 | 4550 x 1300 | 5150 x 1300 | 5750 x 1300 | 6350 x 1300 |
| Net weight | Kg | 1800 | 2000 | 2200 | 2600 | 3000 | 3400 | 3800 |
| Gross weight | Kg | 2000 | 2200 | 2400 | 2800 | 3200 | 3600 | 4000 |

4080 Series



TECHNICAL SPECIFICATIONS

| SERIES | | 4080 |
|--------------------------------------|-----|----------------|
| Type of bed | | 2 Flat & 2 Vee |
| Height of centre | mm | 400 |
| Width of bed | mm | 455 |
| Swing over bed | mm | 770 |
| Swing over saddle | mm | 580 |
| Swing over cross slide | mm | 490 |
| Swing in gap | mm | 1100 |
| Length of gap in front of face plate | mm | 240 |
| No. of spindle speed | | 8 |
| Range of spindle speed | RPM | 20 – 520 |
| Spindle bore | mm | 80 |
| Spindle nose - Type | | Bayonet – 8 |
| Taper bore in center bush | MT | 5 |
| Tail stock quill diameter | mm | 85 |
| Taper in tail stock quill | MT | 5 |
| Cross slide travel | mm | 400 |
| Compound slide travel | mm | 200 |
| Tail stock quill travel | mm | 210 |
| Tool post square | mm | 178 x 178 |
| Tool shank size | mm | 38 x 38 |

- ❖ Flame Hardened Bedways
- ❖ Head Stock Gears are of special alloy case hardened steel , duly hardened and profile ground
- ❖ Head Stock Spindle is ground and runs in one anti friction taper roller bearing and one needle roller bearing in the front and one taper roller bearing in the rear
- ❖ Splash lubricated head stock, norton and apron gear box
- ❖ Universal Norton gear box enables a wide range of British and Metric threads
- ❖ 4080/4 & 5 are with Planner Type Bed

STANDARD ACCESSORIES :

Hardened Guideway, Electric Motor, Switch Shaft, V Belts, Catch Plate, Inch / mm Gear Set, 2 Nos. Dead Centres with Centre Bush, Oil Can, Set of Allen Keys, Spanners & Instruction Manual

OPTIONAL ACCESSORIES :

Face Plate, Steady Rest, Follow Rest, Electric Coolant Pump with Tank & Fittings, Taper Turning Attachment, Rear Tool Post with long Cross Slide, Key way cutting Attachment, Machine Lamp with Control Transformer, Chuck Flange, 4 Jaw Dog Chuck, 3 Jaw True Chuck, Quick Change Tool Post with Tool Holders, Tool Post Grinder (External), Revolving Centre & Control Panel with Foot Brake.

| MODEL | | 4080/1 | 4080/2 | 4080/3 | 4080/4* | 4080/5* |
|----------------------|----|--------|--------|--------|---------|---------|
| Length of bed | mm | 2750 | 3500 | 4500 | 5500 | 6500 |
| Admit between center | mm | 1250 | 2000 | 3000 | 4000 | 5000 |
| Motor | HP | 7.5 | 10 | 10 | 10 | 15 |
| Floor space | mm | 3900 | 4800 | 6000 | 7000 | 8000 |
| Width | mm | 1550 | 1550 | 1550 | 1550 | 1550 |

* Planner Type Bed