

BFARAT MACHINES

LATHE MACHINES



LIGHT DUTY



MEDIUM DUTY

TECHNICAL SPECIFICATIONS	LD 175 (LIGHT DUTY)	MD 212 (MEDIUM DUTY)	MD 212H (MEDIUM DUTY)
Height Of Center (mm)	175	212	250
Width of Bed (mm)	238	280	280
Max. Swing Over Bed (mm)	350	410	490
Max. Swing Over Slide (mm)	200	240	320
Spindle Bore (mm)	40	52	80
Spindle Nose	8 TPI	6 TPI	6 TPI
Spindle Speed (R.P.M.)	30–825	40–550	40–550
Cross Slide Travel (mm)	225	240	240
Lead Screw TPI	4 TPI	4 TPI	4 TPI
Tail Stock Sleeve	MT-3	MT-4	MT-4
Power Required (H.P.)	1	2	2

Admit Between Centers (A.B.C.) - Light & Medium Duty

BED LENGTH	A.B.C. - LD 175	A.B.C. - MD 212 / MD 212H
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4.6' (4 Feet 6 Inches)

650 mm

500 mm

6.0' (6 Feet)

1050 mm

950 mm



TECHNICAL SPECIFICATIONS	MAX	MAX-1	MAX-3
Height Of Centre (mm)	250	300	375
Width Of Bed (mm)	325	325	375
Max. Swing Over Bed (mm)	500	600	750
Max. Swing Over Slide (mm)	300	400	550
Max. Swing In Gap (mm)	775	900	1050
Spindle Bore (mm)	52	80	80
Spindle Nose	6 TPI	6 TPI	6 TPI
Spindle Speed-8 (R.P.M.)	30 To 475	30 To 475	30 To 475
Cross Slide Travel (mm)	270	335	380
Top Slide Travel (mm)	150	150	150
Lead Screw TPI	4 TPI	2 TPI	2 TPI
Tail Stock Sleeve	MT-4	MT-4	MT-4
Power Required (H.P.)	3	3	3

Admit Between Centers (MM) - Heavy Duty

SIZE (FEET)	MAX	MAX-1	MAX-2	MAX-3	MAX-4
5.5'	560	560	560	560	-
7'	1000	1000	1000	1000	800
9'	1600	1600	1600	1600	1400
10'	1900	1900	1900	1900	1700
12'	2500	2500	2500	2500	2300
14'	3100	3100	3100	3100	2900
16'	3700	3700	3700	3700	3500
18'	4300	4300	4300	4300	4100
20'	-	-	4900	4900	4700
22'	-	-	5500	5500	5300
24'	-	-	6100	6100	5900



ALL GEARED

Height For Centers

215 mm

250 mm

Swing Over Bed

425 mm

490 mm

Swing Over Cross Slide	250 mm	320 mm
Swing In Gap	600 mm	660 mm
Admit Between Centre	550 mm	550 mm
Bed Width	280 mm	280 mm

MAIN SPINDLE

• Type Spindle Nose	Threaded/A2-4	Threaded/A2-4
• Spindle Bore	50 mm	50 mm
• No. Of Speeds	8	8
• Range RPM	54-1200 rpm	54-1200 rpm

FEEDS/THREADS

• No. Of Feed	32	32
• Longitudinal Feeds	0.4 - 1.0 mm/rev	0.4 - 1.0 mm/rev
• Transverse Feeds	0.01 - 0.20 mm/rev	0.01 - 0.20 mm/rev
• Inch Threads	40/2-60 TPI	40/2-60 TPI
• Metric Threads	17/0.5-15 mm	17/0.5-15 mm
• Lead Screw Diameter	31.75 mm x 4 TPI	31.75 mm x 4 TPI

TAIL STOCK

• Spindle Diameter	50.8 mm	50.8 mm
• Taper In Spindle Sleeve	MT-4	MT-4
• Tail Stock Spindle Travel	145 mm	145 mm

ELECTRICALS & PHYSICAL

• Main Motor	2 HP	2 HP
• Machine Weight	750 Kgs	800 Kgs

Admit Between Centers (A.B.C.) - All Geared

BED LENGTH	A.B.C. (BGM-1 / BGM-1H)
4.6' (4 Feet 6 Inches)	550 mm
6.0' (6 Feet)	750 mm

4. ACCESSORIES & KEY FEATURES

Standard Accessories Across Series

- Chuck Plate
- Gear Set
- Centre Adaptor
- Dead Centers
- Square Tool Post
- Tool Post Key
- Induction Hardened Bed (All Geared)
- True Chuck & Dog Chuck (All Geared)
- Norton Gear Box With Lead Screw & Feed Shaft
- Electric Motor & Control Panel
- Motor Pulley
- Tool Post Spanner

Unified Optional Accessories List

A consolidated list of all optional attachments and accessories across Light, Medium, Heavy Duty, and All Geared machine series:

No.	Optional Accessory / Attachment	Availability across Models
1	Steady Rest	Light / Medium / Heavy Duty / All Geared
2	Follow Rest	Light / Medium / Heavy Duty / All Geared
3	Norton Gear Box	Light / Medium / Heavy Duty
4	Machine Lamp	Light / Medium / Heavy Duty / All Geared
5	True Chuck & Dog Chuck	Light / Medium / Heavy Duty
6	Quick Change Tool Post	Light / Medium / Heavy Duty
7	Tapper Turning Attachment	Light / Medium / Heavy Duty / All Geared
8	Rear Tool Post / Rear Splash Guard	Light / Medium / Heavy Duty / All Geared
9	Face Plate & Carrier Plate	Light / Medium / Heavy Duty / All Geared
10	Electrical Fittings / Control Panel	Light / Medium / Heavy Duty
11	Tool Post Grinder	Light / Medium / Heavy Duty / All Geared
12	Key Way Milling / Cutting Attachment	Light / Medium / Heavy Duty / All Geared
13	Coolant Pump with Tank & Fittings	Light / Medium / Heavy Duty / All Geared
14	Big Spindle Bore (On Request)	Heavy Duty Series

15	Extra Chuck Plate	All Geared Series
16	2-Axis DRO (Digital Read Out)	All Geared Series
17	Revolving Centre / Pipe Center	All Geared Series
18	Drill Chuck	All Geared Series

Key Structural Features

Standard Design Features:

- High Tensile Casting for maximum structural rigidity and vibration damping.
- Latest Design Headstock ensuring precise spindle alignment and quiet operation.
- Hardened & Ground Bed & Spindle for enhanced durability and long-term accuracy.