

BEMATO[®]

STRIVING FOR SERVICE
AND SATISFACTION

High Speed Precision Lathe Inverter Transmission Lathe



H igh Speed Precision Lathe

Characteristics

1. Selective bed width:
G series: 300mm.
M series: 350mm.
L series: 400mm.
2. Varied spindle bore diameters:
G series: $\text{Ø}58\text{mm}$ / $\text{Ø}78\text{mm}$ (Option).
M series: $\text{Ø}85\text{mm}$.
L series: $\text{Ø}85\text{mm}$ / $\text{Ø}115\text{mm}$ (Option).
3. With FAG or SKF precision bearings installed on spindle, maximum cutting depth can be 8mm on 50mm diameter and best roundness 0.003mm (200mm long).
4. Equipped with plastic rear gears, shafts and gears inside headstock are well protected if crash should occur (S series).
5. Thermal treated and precision ground alloy gears.
6. Universal gearbox for both imperial and metric thread-conversion table also attached.
7. Tracks of cross slide and bed are well lubricated with lubrication pump (manual).
8. Overload device to ensure safety when operating.
9. Wear-resistant phosphor bronze lead screw nuts.
10. Durable reservoir oil bath type cross slide (for G series).
11. Thermal treated Meehanite bed casting.
12. One-piece base for high rigidity and low vibration.
13. High-capacity coolant tank offers sufficient coolant output.



Reservoir Oil Bath Type Cross Slide
(Gseries)



SPECIFICATIONS

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Specifications	Model	BMT 1730G/1740G/ 1760G/1780G	BMT 1930G/1940G/ 1960G/1980G	BMT 2130G/2140G/ 2160G/2180G	BMT 2240M/ 2260M	BMT 2640M/ 2660M
Swing Over Bed		430 mm (17")	470 mm (18-1/2")	520 mm (20-1/2")	560 mm (22")	660 mm (26")
Swing Over Cross Slide		240 mm (9-1/2")	280 mm (11")	330 mm (13")	340 mm (13-1/3")	440 mm (17-1/3")
Center Height		215mm(8-1/2")	235mm(9-1/4")	260mm(10-1/4")	280mm (11")	330mm (13")
Center Distance		760,1000,1500,2000mm (30",40",60",80")	760,1000,1500,2000mm (30",40",60",80")	760,1000,1500,2000mm (30",40",60",80")	1000,1500mm (40", 60")	1000,1500 mm (40", 60")
Swing Over Gap		650 mm (25-1/2")	690 mm (27-1/8")	740 mm (29-1/8")	788 mm (31")	890 mm (35")
Bed Width		300 mm (11-4/5")			350 mm (13-3/4")	
Spindle Nose		ASA D1 - 6 / D1 - 8 (Opt.)		ASA D1 - 8	ASA D1 - 8	
Spindle Bore		58 mm (2-1/4") / 80 mm (3") (Opt.)		80 mm (3")	85 mm (3-1/3")	
Taper of Spindle Bore		MT 6 / MT 7 (Opt.)		MT 7	MT 7	
Spindle Speed		20~2000 rpm (12 steps)-spindle bore:58mm/ 40~2000mm (12 steps)-spindle bore:78mm			15~1500 rpm (12 steps)	
Inch Threads Range		4~56 TPI			2~56 TPI	
Metric Threads Range		0.5~7 mm(PITCH)			0.5~14 mm(PITCH)	
Longitudinal Feeds Range		0.05~0.82 mm (0.002~0.032")			0.05~0.82 mm (0.002~0.032")	
Cross Feeds Range		0.02~0.4 mm (0.001~0.0094")			0.02~0.4 mm (0.001~0.0094")	
Leadscrew Diameter		35 mm (1-1/3")			38 mm (1-1/2")	
Leadscrew Pitch		4 TPI or 6 mm			4 TPI or 6 mm	
Taper of Tail Center		MT 4			MT 5	
Tail Spindle Travel		150 mm (5-7/8")			165 mm (6-1/2")	
Tail Spindle Diameter		58 mm (2-1/4")	68 mm (2-2/3")		75 mm (2-7/8")	
Main Drive Motor		5HP (3.75KW) / 7.5HP (5.625KW. Opt.)	7.5HP (5.625KW) / 10HP (7.5KW. Opt.)		7.5HP (5.625KW) / 10HP (7.5KW. Opt.)	
Coolant Pump		1/8HP (0.1 KW)			1/8HP (0.1 KW)	
Compound Rest Travel		125 mm (4-7/8")			200 mm (7-7/8")	
Cross Slide Travel		245 mm (9-2/3")		275 mm (10-4/5")	300 mm (11-4/5")	
Machine Dimensions (cm)		L : 189,215,265,317 W : 81 H : 119	L : 189,215,265,317 W : 81 H : 122	L : 189,215,265,317 W : 81 H : 125	L : 229,298 W : 99 H : 125	L : 229,298 W : 99 H : 130
Packing Dimensions (cm)		L : 198,228,279,337 W : 95 H : 162	L : 198,228, 279,337 W : 95 H : 162	L : 198,228,279,337 W : 95 H : 162	L : 238,290 W : 115 H : 170	L : 238,290 W : 115 H : 170
Net Weight (Kgs)		1680,1760, 2050,2320	1720,1800, 2075,2380	1760,1810, 2135,2440	2000,2400	2250,2450
Gross Weight (Kgs)		1780,1860, 2200,2470	1820,1900, 2225,2530	1860,1910, 2285,2590	2350,2550	2400,2600

*All specifications above are subject to change without notice.

STANDARD ACCESSORIES

- Tool Box 1 pc
- Centers 2 pcs
- Safety pin 1 pc
- Screw wrench for cutter setting 1 pc
- Back plate 1 pc
- Coolant system 1 set
- 4-way tool post 1 set
- Auto-feed stopper ring 1 set
- Center sleeve 1 pc
- Levelling pads 1 set

OPTIONAL ACCESSORIES

- 3-jaw scroll chuck
- 4-jaw independent chuck
- Face plate
- Steady rest
- Follow rest
- Work light
- 4-position carriage stop
- Micro carriage stop
- Live centers
- Rear cutter rest
- Taper turning attachment
- Rear splash guard
- Chuck guard
- American tool post
- Change gears for D.P and module thread
- 5C lever collet closer
- Driving plate
- Quick change tool post
- Digital readouts
- Hydraulic copying machine
- Chip guard
- ID/OD Grinder
- Rapid Traverse(L series)

L series (Bed width: 400mm)

SPECIFICATIONS

Specifications	Model	BMT 2240L/2260L/2280L/ 22100L/22120L/22160L	BMT 2640L/2660L/2680L/ 26100L/26120L/26160L	BMT 3040L/3060L/3080L/ 30100L/30120L/30160L
Swing Over Bed		560 mm (22")	660 mm (26")	760 mm (30")
Swing Over Cross Slide		340 mm (13-1/3")	440 mm (17-1/3")	540 mm (21-1/4")
Center Height		280mm (11")	330mm (13")	380mm (15")
Center Distance		1000,1500,2000 mm 2500,3300,4300 mm (40°,60°,80°,100°,120°,160°)	1000,1500,2000 mm 2500,3300,4300 mm (40°,60°,80°,100°,120°,160°)	1000,1500,2000 mm 2500,3300,4300 mm (40°,60°,80°,100°,120°,160°)
Swing Over Gap		788 mm (31")	890 mm (35")	990 mm (39")
Bed Width		400 mm (15-3/4")		
Spindle Nose		ASA D1 - 8 / D1 - 11 (Opt.)		ASA D1 - 11
Spindle Bore		85 mm (3-1/3") / 120 mm (4-1/2") (Opt.)		120 mm (4-1/2")
Taper of Spindle Bore		MT 7		
Spindle Speed		15~1500 rpm (12 steps) / 10~1000 rpm (12 steps,Opt.)		10~1000 rpm (12 steps)
Inch Threads Range		2~56TPI		
Metric Threads Range		0.5~14 mm(PITCH)		
Longitudinal Feeds Range		0.05~0.82 mm (0.002"~0.032")		
Cross Feeds Range		0.02~0.4 mm (0.001"~0.0094")		
Leadscrew Diameter		38 mm (1-1/2")		
Leadscrew Pitch		4 TPI or 6mm		
Taper of Tail Center		MT 5		
Tail Spindle Travel		165 mm (6-1/2")		
Tail Spindle Diameter		85 mm (3-1/3")		
Main Drive Motor		10HP (7.5 KW) / 10HP (7.5 KW,6P,Opt.)		10HP (7.5 KW,6P) / 15HP (11 KW,6P,Opt.)
Coolant Pump		1/8HP (0.1 KW)		
Compound Rest Travel		200 mm (8")		
Cross Slide Travel		375 mm (14-3/4")		
Machine Dimensions (cm)		L: 238,290,347, 398,473,555 W: 103 H: 126	L: 238,290,347, 398,473,555 W: 103 H: 131	L: 238,290,347, 398,473,555 W: 103 H: 136
Packing Dimensions (cm)		L: 250,300,356, 426,485,573 W: 115 H: 194	L: 250,300,356, 426,485,573 W: 115 H: 194	L: 250,300,356, 426,485,573 W: 115 H: 194
Net Weight (kgs)		2200,2550,2900, 3150,3620,4830	2280,2630,2980, 3230,3700,4910	2360,2710,3060, 3310,3780,4990
Gross Weight (kgs)		2300,2650,3050, 3300,3770,5030	2380,2730,3130, 3380,3850,5110	2460,2810,3210, 3460,3930,5190

*All specifications above are subject to change without notice.



Bearings on the spindle are imported from Germany.

Varied spindle bore diameters :

G series : Ø58mm & Ø78mm(Opt.)

M series : Ø85mm

L series : Ø85mm & Ø115mm(Opt.)

Plastic gear on the rear side of headstock. (Opt.)



V series

Inverter Transmission Lathe



Characteristics

1. Power-saving, stable electric current, and fine cutting trace.
2. Being controlled by a rotary switch, gear shifting is simplified.
3. Stepless speed shifting, any speed in the range is available.
4. Cutting depth reaches 8mm(at 1000rpm).



GV series (Inverter Transmission Lathe)

SPECIFICATIONS

Specifications	Model	BMT 1730GV/1740GV/ 1760GV/1780GV	BMT 1930GV/1940GV/ 1960GV/1980GV	BMT 2130GV/2140GV/ 2160GV/2180GV
Swing Over Bed		430 mm (17")	470 mm (18-1/2")	520 mm (20-1/2")
Swing Over Cross Slide		240 mm (9-1/2")	280 mm (11")	330 mm (13")
Center Height		215mm(8-1/2")	235mm(9-1/4")	260mm(10-1/4")
Center Distance		760,1000,1500,2000mm (30°,40°,60°,80°)	760,1000,1500,2000mm (30°,40°,60°,80°)	760,1000,1500,2000mm (30°,40°,60°,80°)
Swing Over Gap		650 mm (25-1/2")	690 mm (27-1/8")	740 mm (29-1/8")
Bed Width		300 mm (11-4/5")		
Spindle Nose		ASA D1 - 6 / D1 - 8 (Opt.)		ASA D1 - 8
Spindle Bore		58 mm (2-1/4") / 78 mm (3") (Opt.)		78 mm (3")
Taper of Spindle Bore		MT 6 / MT 7 (Opt.)		MT 7
Spindle Speed		20~2000 rpm (12 steps)-spindle bore:58mm/ 40~2000mm (12 steps)-spindle bore:78mm		
Inch Threads Range		4~56 TPI		
Metric Threads Range		P0.5~P7		
Longitudinal Feeds Range		0.05~0.82 mm (0.002~0.032")		
Cross Feeds Range		0.02~0.4 mm (0.001~0.0094")		
Leadscrew Diameter		35 mm (1-1/3")		
Leadscrew Pitch		4 TPI or 6 mm		
Taper of Tail Center		MT 4		
Tail Spindle Travel		150 mm (5-7/8")		
Tail Spindle Diameter		58 mm (2-1/4")	68 mm (2-2/3")	
Main Drive Motor		5HP (3.75KW) / 7.5HP (5.625KW. Opt.)	7.5HP (5.625KW) / 10HP (7.5KW. Opt.)	
Coolant Pump		1/8HP (0.1 KW)		
Compound Rest Travel		125 mm (4-7/8")		
Cross Slide Travel		245 mm (9-2/3")		275 mm (10-4/5")
Machine Dimensions (cm)		L : 189,215,265,317 W : 81 H : 119	L : 189,215,265,317 W : 81 H : 122	L : 189,215,265,317 W : 81 H : 125
Packing Dimensions (cm)		L : 198,228,279,337 W : 95 H : 162	L : 198,228, 279,337 W : 95 H : 162	L : 198,228,279,337 W : 95 H : 162
Net Weight (Kgs)		1680,1760, 2050,2320	1720,1800, 2075,2380	1760,1810, 2135,2440
Gross Weight (Kgs)		1780,1860, 2200,2470	1820,1900, 2225,2530	1860,1910, 2285,2590

*All specifications above are subject to change without notice.

STANDARD ACCESSORIES

■ Tool Box	1 pc
■ Centers	2 pcs
■ Safety pin	1 pc
■ Screw wrench for cutter setting	1 pc
■ Back plate	1 pc
■ Coolant system	1 set
■ 4-way tool post	1 set
■ Auto-feed stopper ring	1 set
■ Center sleeve	1 pc
■ Levelling pads	1 set

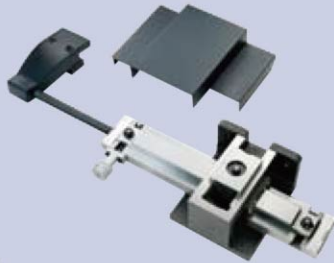
OPTIONAL ACCESSORIES

■ 3-jaw scroll chuck	■ Chuck guard
■ 4-jaw independent chuck	■ American tool post
■ Face plate	■ Change gears for D.P and module thread
■ Steady rest	■ 5C lever collet closer
■ Follow rest	■ Driving plate
■ Work light	■ Quick change tool post
■ 4-position carriage stop	■ Digital readouts
■ Micro carriage stop	■ Hydraulic copying machine
■ Live centers	■ Chip guard
■ Rear cutter rest	■ ID/OD Grinder
■ Taper turning attachment	
■ Rear splash guard	

OPTIONAL ACCESSORIES



■ Change Gears for D.P. and Module Thread



■ Taper Turning Attachment



■ Steady Rest



■ Follow Rest



■ Chip Guard



■ Chuck Guard



■ Quick Change Tool Post



■ American Tool Post



■ Rear Cutter Rest



■ 4-position Carriage Stop



■ Micro Carriage Stop



■ Rear Splash Guard



■ Work Light



■ 5C Lever Collet Closer



■ Live Center with Replaceable Inserts



■ Face Plate



■ Driving Plate



■ Rapid Traverse



■ Hydraulic Copying Attachment



■ Digital Readout



■ ID/OD Grinder



BMT 1940 GV



BMT 1940 G



BMT 26120 L / 2280 L / BMT 3040 L / BMT 30160 L

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