

**\*\*\*\*\*Quotation\*\*\*\*\***

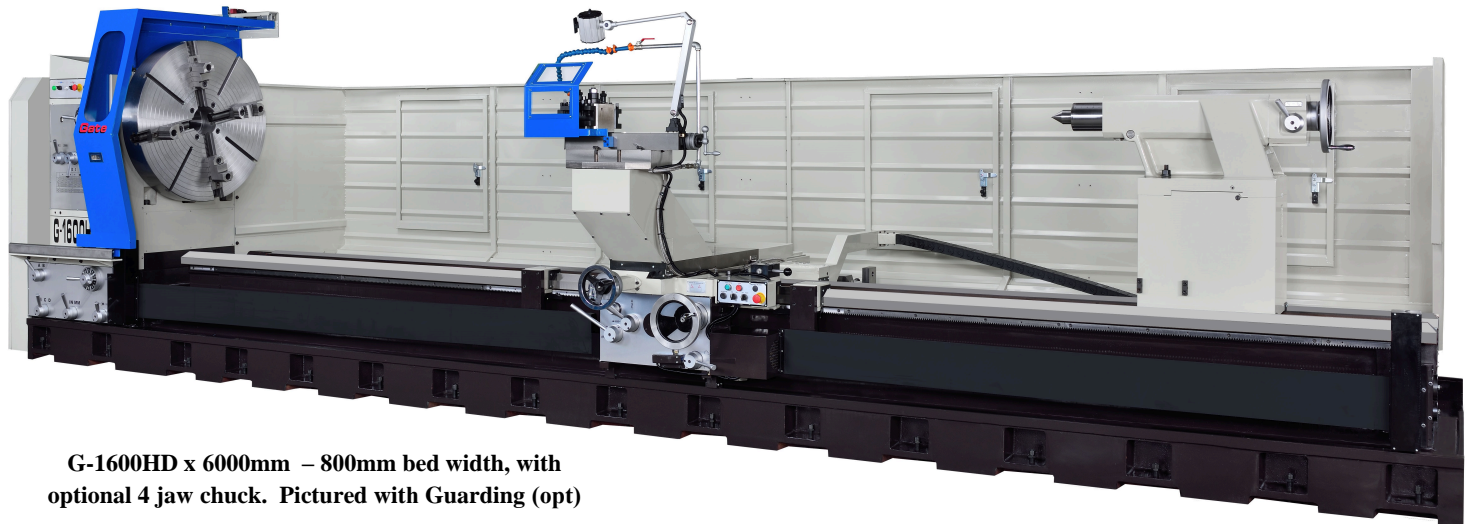
We are pleased to offer, subject to our terms and conditions of sale, which will apply to all orders placed. Copies available on request.

**Qty-1      Gate 'HD' Large Capacity Series Heavy Duty Precision Centre Lathes**

**Premium Centre Lathes – Affordably Priced**

(generally as described in our product catalogue)

**G-1120HD x 3000mm with optional 10" Spindle bore, Double Chucking, Hollow Spindle 3-jaw chucks & optional Special Guarding.**



**G-1600HD x 6000mm – 800mm bed width, with optional 4 jaw chuck. Pictured with Guarding (opt)**

**Gate 'HD' - Large Capacity Series are Heavy Duty, well built, Precision Centre Lathes that offer high levels of accuracy and precision at a price that won't break the bank. With Capacities of 1200mm & 1600mm swing over the bed and up to 8M between centres, these machines really are the heavyweights of our range. They are most suited to Oil and Gas installations, Maintenance facilities, Ship building and repair facilities, heavy duty general Engineering and Production workshops. They are highly versatile and packed with standard features and accessories that are expensive options on other makes. All machines come with a 2 year warranty, as standard.**

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## Standard

### Equipment:

### Basic Package

Main Motor, Coolant system, Chip pan and coolant tray, Face Plate with 4 jaws 1016mm (40") all models, 4 way tool post, 2-step tailstock, Rapid Long and Cross Feeds, 2 dead centres, Centre sleeve, Tool box, Levelling pads and bolts, Longitudinal Auto safety stop, Auto lubrication in X & Z Axes, Turcite coating in X & Z Axes, Fixed steady 400mm (16") (roller), Instruction & CE mark

### Specifications:

#### G-1120HD

#### G-1600HD

### Capacity

Distance between centres

2000/3000/4000/5000/6000/7000/8000mm

Centre height

560mm

800mm

Swing over bed

1120mm

1600mm

Swing over the cross slide (HDD)

810mm (710mm)

1290mm (1190mm)

Swing in the gap (HDD)

1550mm (1400mm)

2030mm (1880mm)

### Bed

Width of bed (HDD)

800mm (880mm)

Width of gap (HDD)

570mm (784.5mm)

Length of bed

3900/4900/5900/6900/7900/8900/9900mm

Length of Bed (HDD)

(4390/5390/6390/7390/9390/10390mm)

### Headstock Spindle

Spindle bore

152mm(230mm/305mm opt)

Spindle nose (camlock type)

A2-15 (A2-20)

A2-20

### Carriage

Width of carriage (HDD)

800mm (880mm)

Cross slide travel (HDD)

600mm (700mm)

Compound rest travel (HDD)

370mm (400mm)

Max tool section

40 x 40mm

### Main drive

Motor power – G-1120HD/HDD

20Hp (15 KW) 2000mm – 5000mm

Motor power – G-1120HD/HDD

30Hp (22.5 KW) over 5000mm

Motor power – G-1600HD/HDD

30Hp (22.5 KW)

Coolant Motor

1/8 & 1 HP

Speed range

(12) 7 - 266 rpm

### Tailstock

Quill stroke

305mm

Quill Diameter

115mm (150 / 200mm option)

Work holding taper

MT6 (MT7 option)

### Feeds

Longitudinal

0.06 – 7.04mm/rev

Traverse (cross)

0.03 – 3.52mm/rev

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## Specifications Cont.....

### G-1120HD

### G-1600HD

#### Thread pitches

Leadscrew diameter and pitch		60mm / Pitch 12mm
Metric	(62)	1 – 120mm
Module	(53)	0.25 – 30 MP
Whitworth	(70)	0.25 – 30 TPI
Diametral	(70)	1 – 120 DP
Complete with metric thread dial indicator		

<b>Machine Weight:</b>	G-1120HD	8300/9300/10300/11300/12300/13300/14300 Kg
	G-1600HD	TBC
<b>Dimensions:</b> Length (HD)	All Models	4100/5100/6100/7100/8100/9100/10100mm
(HDD)	All models	4740/5740/6740/7740/8740/9740/10740mm

Width	All Models	2050mm
Height	G-1120HD / HDD	1540mm / 1590mm
	G-1600HD / HDD	TBC

**Electrics:** 415V , 3 Ph , 50Hz AC supply

#### Price Information:

Ex works Watford

#### Pounds Sterling

<b>G-1120HD</b>	2000 mm bc	£ 68,315.00
	<u>3000 mm bc</u>	<u>£ 73,975.00</u>
	4000 mm bc	£ 81,860.00
	5000 mm bc	£ 91,335.00
	6000 mm bc	£106,700.00
	7000 mm bc	£123,125.00
	8000 mm bc	£ POA
<b>G-1120HDD</b>	All sizes	£ POA
<b>G-1600HD</b>	All Models	POA

**Note: \*Prices include carriage incl. offloading & positioning and commissioning, on site UK mainland only.**

\*(Excludes Scotland and Northern Ireland. For applicable additional carriage & travel costs, please enquire)

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### Extra Equipment:

2 Axis Digital Readout – Fagor 20iT	-2000mm bc	£ 2,700.00
2 Axis Digital Readout – Fagor 20iT	-3000mm bc	£ 3,520.00
2 Axis Digital Readout – Fagor 20iT	-4000mm bc	£ 6,120.00
2 Axis Digital Readout – Fagor 20iT	-5000mm bc	£ 6,900.00
2 Axis Digital Readout – Fagor 20iT	-6000mm bc	£ 7,800.00
2 Axis Digital Readout – Fagor 20iT	-7000mm bc	£ POA
2 Axis Digital Readout – Fagor 20iT	-8000mm bc	£ POA
Travelling Steady		£ 1,000.00
Fixed Steady Bearing Type – 100-350mm)		£ 3,115.00
Fixed Steady Bearing Type – 270-520mm)		<u>£ 3,565.00</u>
Halogen Light		<u>£ 188.00</u>
Extra Charge for 30 HP motor (2000-5000mm machines)		<u>£ 1,390.00</u>
Taper Turning attachment		£ 6,390.00

### The following accessories are for use with standard 6” Spindle bore machines

3-Jaw chuck 508mm (20”)	£ 2,260.00
3-Jaw chuck 635mm (25”)	<u>£ 6,700.00</u>
4-Jaw Independent chuck 1016mm (40”)	£ 5,750.00
4-Jaw Independent chuck 1270mm (50”)	£ 6,920.00

### The following accessories are for use with 230mm, 250mm or 305mm Spindle bore machines

Extra charge for 230mm (9”) spindle bore instead of 152mm (A2-15)	£18,950.00
Extra charge for 250mm (10”) spindle bore instead of 152mm (A2-15)	<u>£24,675.00</u>
Rear adaptor A2-20 / 230/250mm through hole for rear mounted chucks	£ 2,990.00
Rear Chuck Guard	£ 1,290.00
600mm (26”) 4 Jaw independent chuck with 250mm (10”) bore	£ 5,045.00
Extra charge for 305mm spindle bore instead of 152mm	£33,840.00
Rear adaptor A2-20 / 305mm through hole for rear mounted chucks	£ 3,490.00
Rear Chuck Guard	£ 1,290.00
711mm (28”) 4 Jaw independent chuck with 305mm (12”) bore	£ 5,835.00
Economy 40” 4 Jaw Chuck with 305mm (12”) bore & Back plate	£ 5,270.00

### Special Guarding (as pictured), Includes:-

(Full height Rear Splash guard, Travelling front guard with interlocks,  
Sliding chuck guard, enclosed rear chuck guard and saddle guard.)

2000mm	£15,135.00
<u>3000mm</u>	<u>£16,450.00</u>
4000mm	£17,765.00
5000mm	£19,085.00
6000mm	£21,715.00
7000 & 8000mm	£ POA

### Note:

The above option and accessory prices are available only if purchased and supplied together with the machine (s)

A wide range of accessories are available to complement our Centre Lathes. For details, please visit the Gate Tooling Services (GTS) web site at [www.gatetooling.com](http://www.gatetooling.com)



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## Terms and conditions

All orders will be subject to our standard terms and conditions of sale, which shall prevail over buyer's terms. Copies available on request.

**Delivery:** Ex-stock, subject to prior sale - Alternatively - 12-14 working weeks from receipt of an order.

**Payment Terms:** **Stock Machines:** 100% Payment prior to despatch, alternatively:-  
**Ordered Machines:** 30% with order, 70% prior to despatch

**Note :** All prices are exclusive of VAT which will be charged at the prevailing rate. Prices are based upon exchange rates current at time of quoting (USD 1.25 – 1.30 = GBP 1.00), and may be subject to alteration. If significant fluctuations occur prior to delivery of the machines, we reserve the right to invoice accordingly.

**Warranty :** Machines and equipment are offered complete with 24 month warranty from date of installation, subject to machine operation and maintenance in accordance with manufacturers recommendations.

**E. & O.E**

# Gate

## Large Capacity, Heavy Duty Gap Bed Centre Lathes

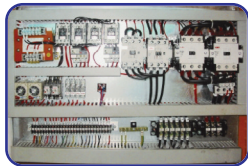
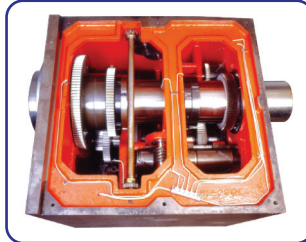
*Premium lathes affordably priced*

The Gate series of Heavy Duty Lathes have been designed and developed to provide optimum performance with high cutting power, while providing versatility of use in a wide variety of industries including: general purpose machine shops, mining, power, paper, steel, rubber & oil industries.

### G-11600HD×6000

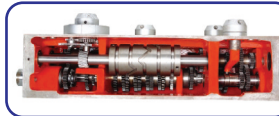
#### Spindle & Headstock

- Bore 6", 9", 12", turbine speed change mechanism with an easy speed changing mechanism and three-point support for the box.
- Fitted with adjustable, electromagnetic brake for easy braking adjustment according to different work piece materials and speeds.
- Gears and shafts are made of a super alloy material with high precision bearings to offer durable cutting and low production noise.
- Sealed oil bath lubrication system with enforced oil supply by mechanical pump to achieve better lubrication effects.



#### Electric component:

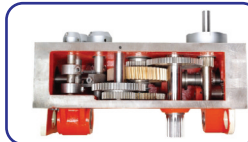
20HP/ 30HP motor, 2 stage safety start-up device and overloading power cut system.



#### Gear box:

Adopt quick-change universal metric/ inch gearbox for inch, metric, DP, MP,

threading and multiple threads, all function is reached without any change gear, wide and complete range of threads and operating easily to improve production efficiency.



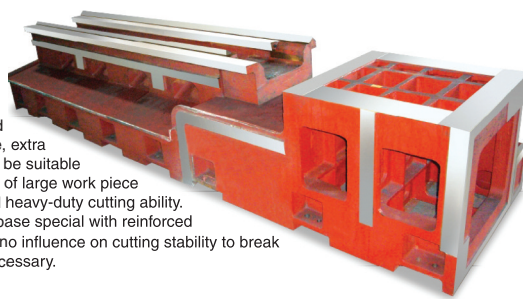
#### Apron:

Equipment with rapid feeding, rapid transmission, forward and reverse movement and safety device matched with

sealed oil bath auto-lubricating system.

#### Base:

- One piece casting work with reinforced inner structure, extra 3rd support to be suitable for processing of large work piece and enhanced heavy-duty cutting ability.
- The gap part base special with reinforced structure, it is no influence on cutting stability to break the gap for necessary.



#### Saddle:

Anti-friction processed surface with regular oil injection, lubricated and friction durable.

#### Casting:

FC-30 steel are used for main structures like base, spindle, saddle and tailstock, which are annealed and have no deformation.

#### Processing:

Base, spindle, saddle, dovetail slot surface of cross slide, top slide and tailstock quill are high frequency treated, precision ground for extending service life.

#### Tailstock:

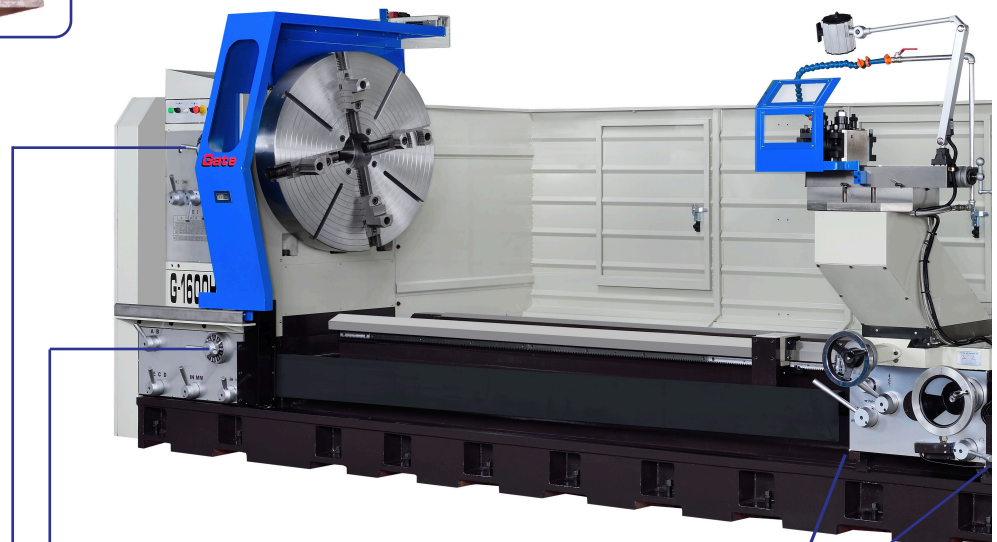
Two stage feeding device, swing arm movement to have smooth and labour saving operation.

### SPINDLE BORE: 6", 9", 12"

#### BED WIDTH: 24" (HD series) / 32" (HDD series)

- Swing over bed above 1130-1600mm is available to be customised on request.
- Distance between centres above 8 metres is available to be customised on request.

**FEATURES:** It is suitable for turning and cutting large work pieces and steel rod materials for heavy industries like oil pipe network, aerospace and heavy-duty shaft processing.



Special design for spindle speed change mechanism, turbine rotary type, for easy speed changing without jumping.

- Extra 3rd support suitable for processing large work pieces and enhanced heavy-duty cutting ability.

#### MODEL

#### G-1120HD/HDD

#### Capacity

Swing over bed	1120mm
Swing over cross slide <b>HD</b>	810mm
Swing over cross slide <b>HDD</b>	710mm
Swing over gap <b>HD</b>	1550mm
Swing over gap <b>HDD</b>	1400mm
Distance between centres	2000mm / 3000mm / 4000mm / 5000mm

#### Bed

Height from floor to spindle centre <b>960HD/960HDD</b>	1165mm
Distance from floor to spindle centre <b>1120HD/1120HDD</b>	1245mm
Width of bed <b>HD/HDD</b>	610 / 810mm
Width of gap (spindle end face) <b>HD/HDD</b>	570 / 784.5mm
actual turning diameter changed by different	
3900/4390mm	4900/5390mm
5900/6390mm	6900/7390mm

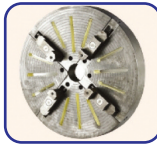
#### Length of bed **HD/HDD**

#### Headstock

Spindle bore diameter	OP: 230mm
Spindle nose	A2-15 / OP: A2-20
Number of spindle speeds	
Range of spindle speeds	

#### Carriage

Width of carriage <b>HD/HDD</b>	800 / 880mm
Cross slide travel <b>HD/HDD</b>	600 / 700mm
Compound rest travel <b>HD/HDD</b>	370 / 400mm
Maximum cutting size	40mm x 40mm



**ST10**  
Face plate with 4-jaw 40"



**OP2**  
Follow rest



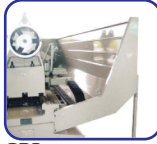
**OP3**  
4-jaw independent chuck 40", 50"



**OP4**  
3-jaw chuck (strong type) 20", 25"



**OP5**  
Steady rest ø16", ø24"



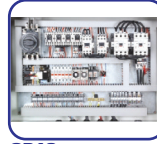
**OP8**  
Back splash guard



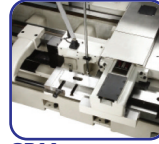
**OP9**  
Quick change tool post (Standard style)



**OP9**  
Quick change tool post (European style)



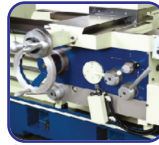
**OP10**  
CE electric



**OP11**  
Taper turning attachment



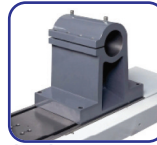
**OP12**  
Grinder



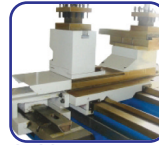
**OP15**  
Longitudinal adjustable position feed stop



**OP17**  
Tailstock with quill dia. 150 / 200mm



**OP19**  
Boring attachment



**OP20**  
Rear tool post

## Standard Accessories

- 1 Lubricating device for headstock
- 2 Spindle motor 20HP
- 3 Electromagnetic brake
- 4 Metric / Inch gear box
- 5 Longitudinal & cross rapid feeding
- 6 Tailstock two steps device
- 7 X, Z-axes auto lubrication system
- 8 X, Z-axes with Turcite-B
- 9 Steady rest ø16"
- 10 Face plate with 4-jaw 40"
- 11 Dead centre
- 12 Centre Sleeve MT-6
- 13 Toolpost screw wrench
- 14 Level pads
- 15 Tools & Tool Box
- 16 Operation manual
- 17 CE mark and EC declaration of conformity

## Optional Accessories

- 1 Coolant device
- 2 Follow rest
- 3 4-jaw independent chuck 40", 50"
- 4 3-jaw chuck (strong type) 20", 25"
- 5 Steady rest ø16", ø24"
- 6 Halogen light
- 7 Digital readout
- 8 Back splash guard
- 9 Quick change tool post (instead of tool post) (standard style) (European style only for 960 series)
- 10 CE equipment – standard on all models
- 11 Taper turning attachment
- 12 Grinder
- 13 Hydraulic copy attachment
- 14 Automated rapid tool post
- 15 Longitudinal adjustable position feed stop
- 16 Five position carriage stop
- 17 Tailstock with quill dia. 150 / 200mm
- 18 Tailstock with semi-rotary quill
- 19 Boring attachment
- 20 Rear tool post



Chuck shown on the picture is optional 4-jaw independent chuck.

photo shows G-1600HDx6000

TURNING

### G-1600HD/HDD

### MODEL

### G-1120HD/HDD & G-1600HD/HDD

1600mm  
1290mm  
1190mm  
2030mm  
1880mm  
6000mm / 7000mm / 8000mm

chuck size  
7900/8390mm 8900/9390mm 9900/10390mm

OP: 305mm  
A2-20  
12 steps  
7-266rpm

**Tailstock**  
Diameter of barrel

Travel of barrel  
Taper of barrel

**Threads**  
Lead screw diameter and pitch  
Range of metric pitches  
Range of inch pitches  
Range of diametral pitches  
Range of module pitches

**Feeds**  
Feed rod diameter  
Range of longitudinal feeds  
Range of cross feeds

**Motor**  
Main spindle motor

Coolant pump motor  
Coolant pump motor

**Dimensions**  
Machine size (LxWxH) HD  
Machine size (LxWxH) HDD

ø115mm  
OP: ø150 / 200mm  
305mm  
MT6  
OP: MT7

ø60mm Pitch 12mm  
1-120mm (62Nos)  
0.25-30TPI (70Nos)  
1-120DP (70Nos)  
0.25-30MP (53Nos)

32mm  
0.06-7.04mm/rev  
0.03-3.52mm/rev

20HP (15KW) for HD2000-5000  
30HP (22.5KW) for HD6000-8000  
OP: 30HP(22.5KW) / 40HP (30KW) / 50HP(37.5KW)  
1/8HP (0.1KW)  
1HP (0.75KW)

4100 / 5100 / 6100 / 7100 / 8100 / 9100 / 10100mm × 2050mm × 1540mm  
4740 / 5740 / 6740 / 7740 / 8740 / 9740 / 10740mm × 2170mm × 1590mm