

## Product Brochure For L646D

# Heavy Duty Centre Lathe - BIG BORE - TM-33170HDX

Ø860 x 4310mm Turning Capacity - Ø158mm Spindle Bore

Larger models available on request

**On Sale**

Ex GST

Inc GST

~~\$119,500.00~~ ~~\$137,425.00~~

**\$118,700.00** **\$136,505.00**



ORDER CODE:	L646D
MODEL:	TM-33170HDX
Swing Over Bed (mm):	860
Distance Between Centres (mm):	4310
Spindle Bore (mm):	158 (Optional 238)
Swing In Gap (mm):	1000
Swing Over Cross-slide (mm):	620
Digital Readout System Fitted:	Yes
Quick Change Toolpost Fitted:	Optional
Leadscrew Covers Fitted:	~
Taper Turning Attachment:	Optional
Coolant System:	Yes
Tool Height To Suit (mm):	32
Centre Height (mm):	430
Spindle Nose Size or Type:	A2-11
Bed Width (mm):	510
Headstock Spindle Taper (MT):	7
Tailstock Taper (MT):	6
Cross Slide Travel (mm):	480
Compound Slide Travel (mm):	330
Leadscrew Type:	Metric
Metric Cross Feed (X-Axis) (mm/rev):	0.025 - 0.35
Imperial Cross Feed (X-Axis) (inch/rev):	~
Metric Longitudinal Feed (Z-Axis) (mm/rev):	0.05 - 0.7
Imperial Longitudinal Feed (Z-Axis) (inch/rev):	~
Metric Thread Steps & Pitch (No. / mm):	37 (0.8 - 14)
Imperial Thread Steps & TPI (No. / TPI):	36 (2 - 28)
3 Jaw Chuck Diameter (mm):	400
4 Jaw Chuck Diameter (mm):	500
Spindle Steps / Speeds (No. / rpm):	12 (8 - 680)
Motor Power (kW / hp):	15 / 20
Voltage / Amperage (V / amp):	415
Nett Weight (kg):	7600



## Description

The TM-33170HDX Industrial quality centre lathe is manufactured in Taiwan to a stringent precision engineering high tolerance & superior excellence to cope with the big & heavy jobs. This lathe has a 158mm big bore, 860mm turning capacity with 1000mm in the gap, a massive 510mm wide 3V induction hardened & ground bed-way to cope with all the heavy workloads.

One of the most forgotten & important feature in a quality lathe is the spindle bore support bearings & generally not mentioned or overlooked because they are hidden well within the headstock of the lathe. Not in this case as the TM-33170HDX is equipped with 3 x German quality SKF bearings offering excellent spindle support to handle extreme cutting loads to produce accurate work.

Another reliable feature in this range of precision lathes is the manufacturing process of the bed-ways, it is made up from the highest quality Meehanite® cast iron. The key to the undisputed success of Meehanite® metals is the rigid application of its patented manufacturing process to provide ultimate strength & durability performance.

To sum up this massive centre lathe although huge in every way possible in size & capacity, it is still built to the same high precision quality & ultra-tight tolerances as all the other TM models and importantly will deliver many years of valuable & reliable service.

Please Note:

This lathe can be special custom-built to order allowing you to select (and pay for) only the accessories you need:

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Bores available 158 or 238mm  
Swing available - 860, 960 & 1060mm  
Centres available - 1810, 2310, 3310, 4310, 5310, 6310, 7310 & 8310mm

### Features

- 2 Axis digital readout system
- Triple SKF German made bearings supporting headstock spindle
- Adjustable taper roller bearings providing spindle accuracy
- Precision '3V'-bed-way is induction hardened & ground
- High quality one-piece Meehanite cast base increases rigidity
- All gears and shafts made from alloy steel and are hardened & ground
- Overload protection on drive motor and coolant system
- Universal enclosed gearbox incorporating metric & imperial thread capabilities
- X & Z axis rapid traverse on the saddle @ 4.0m/min
- Adjustable 4 position length-stop mechanism for accurate repetitive operation
- 510mm wide induction hardened heavy duty cast iron bed
- Removable gap bed allowing work piece to swing up to 1000mm
- Powered longitudinal and cross feeds
- One piece cast iron base increases rigidity
- Metric calibrated dials
- 2 speed tailstock geared for large and small drilling bits
- Coolant system with flexible hose enabling operator to manipulate flow direction
- Lubrication pump on saddle oiling slides
- Oil sight glass for head stock and gearbox & apron
- Low voltage LED work light
- Ball bearing mechanism assists tail stock movement easily
- A2-11 direct spindle mount
- 12 spindle speeds 8-680rpm
- Large 158mm spindle bore, (Option 238mm)
- 15kW / 20HP 415V main motor

### Includes

- 2 Axis digital readout system
- 400mm 3-jaw chuck with reversing jaws
- 500mm 4-jaw chuck
- Faceplate
- Follow Rest
- Steady Rest
- Fixed and travelling steadies with roller fingers
- Dead centres
- Spindle reducing bush
- Full length rear splash guard
- Tailstock moving device
- LED Work Light

### Specific Features



Left View



Digital Read Out



Spindle Speed Selectors



Thread Charts

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Spindle Speeds



Universal Enclosed Gearbox



Safety Chuck Guard



Fixed & Travelling Steadies



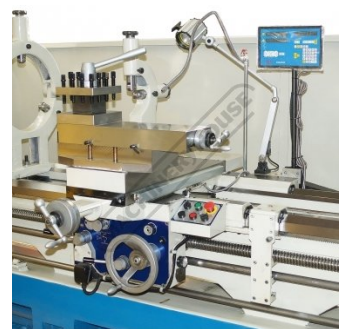
Removeable Gap Bed



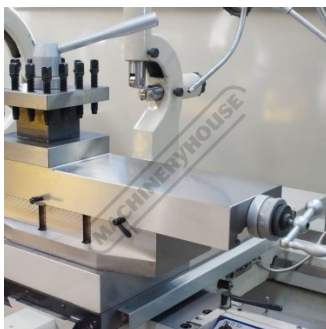
Saddle Left View



Saddle Front View



Saddle Right View



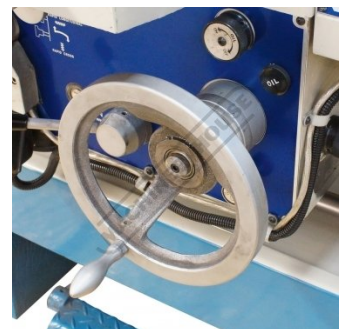
Compound Slide



Saddle Control



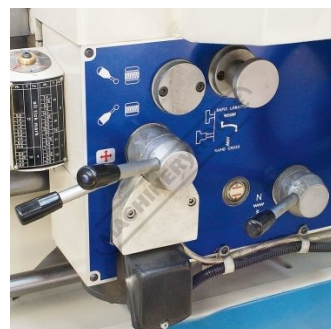
Saddle Switch Board



Saddle Hand Wheel



Thread Chasing Dial



Saddle Feed Controls



Leadscrew and Feedscrew Support Recovered



Longitudinal Feed Knockout System

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Compound Slide Hand Wheel



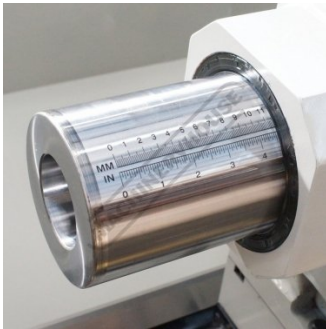
Cross Slide Hand Wheel



Swivel Compound Slide



Tailstock



Tailstock Quill



Tailstock 2 Speed



Tailstock Rear View



V Bed



Tailstock Moving Device Rear View



Tailstock Moving Device Locked Position



Foot Brake

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**Recommended Accessories**

D1272

Metric 135° Precision HSS Drill Set - 25 Piece



D1282

Imperial 135° Precision HSS Drill Set - 29 Piece



D126

Metric 135° Precision HSS Drill Set - 170 Pieces



D119

Metric 2MT HSS Drill Set



C290

Heavy Duty Drill Chuck - Keyed Type



C294

Industrial Drill Chuck - Keyless Type



D454A

4MT x JT3 Drill Chuck Arbor



D425

Drill Sleeve - Morse Taper



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D424  
Drill Sleeve - Morse Taper



D422  
Drill Sleeve - Morse Taper



S090A  
Soluble Metal Cutting Fluid - 1  
Litre



S090  
Soluble Metal Cutting Fluid - 5  
Litre



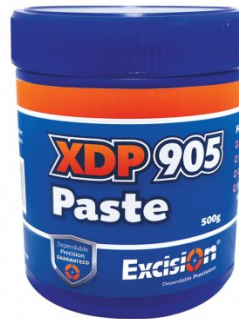
S076  
Cutting Tool Lubricant Fluid -  
500ml



S077  
Drilling, Tapping & Cutting Tool  
Lubricant Spray - 400g



S074  
Cutting Tool Lubricant Paste -  
500g



S091  
Soluble Metal Cutting Fluid - 20  
Litre



A358  
Sky Hook Lifting Device



A358A  
Chuck Hook



L300  
Magnetic Swarf Remover



M9991  
Magnetic Floor Sweeper



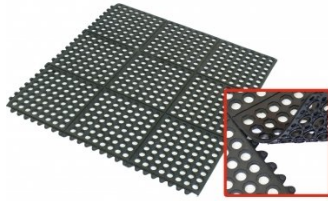
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**M800**  
Rubber Mat - Anti-Fatigue



**M805**  
Rubber Mat - Anti-Fatigue



**O043**  
Rust & Corrosion Preventive



**O042**  
General Purpose Lubricant & Corrosion Inhibitor



**O044**  
Rust & Corrosion Preventive

