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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

Ex GST	Inc GST
$119,500.00	$137,425.00



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

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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

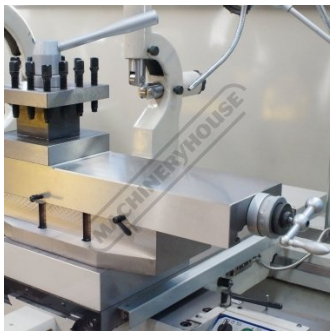

Fixed & Travelling Steadies


Removeable Gap Bed


Saddle Left View

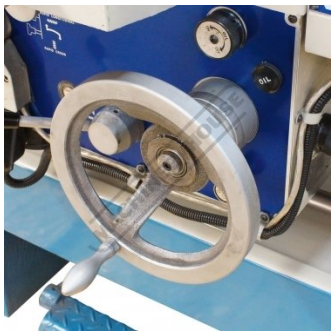

Saddle Front View


Saddle Right View


Compound Slide


Saddle Control

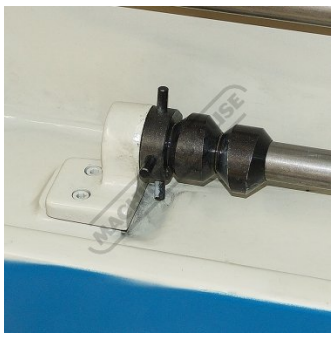

Saddle Switch Board


Saddle Hand Wheel


Thread Chasing Dial


Saddle Feed Controls


Leadscrew and Feedscrew Support Recovered


Longitudinal Feed Knockout System

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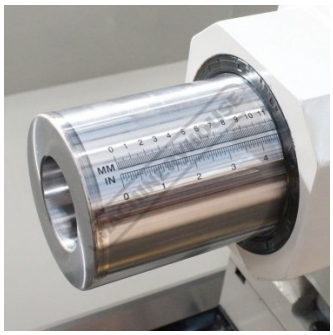
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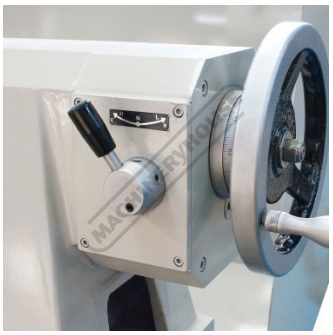

Compound Slide Hand Wheel


Cross Slide Hand Wheel


Swivel Compound Slide

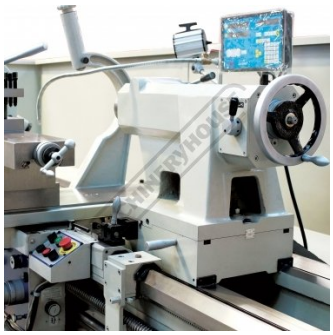

Tailstock


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 135º Precision HSS M35 COBALT Drill Set - 25 Piece



D1282
Imperial 135º Precision HSS M35 COBALT Drill Set - 29 Piece



D126
Metric 135º Precision HSS M35 COBALT 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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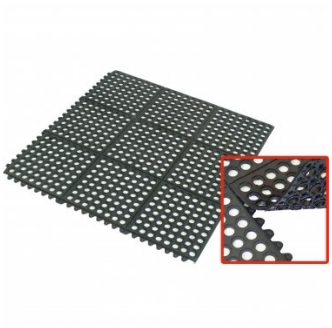
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Product Brochure For L646D

M800
Rubber Mat - Anti-Fatigue



M805
Rubber Mat - Anti-Fatigue



O043
Rust & Corrosion Preventive



O042
General Purpose Lubricant & Corrosion Inhibitor



O044
Rust & Corrosion Preventive

