

## HAFCO-METALMASTER AL-356



### Centre Lathe

Ø356 x 1000mm Turning Capacity - Ø51mm Spindle Bore



## HAFCO-METALMASTER Centre Lathe AL-356



2 Axis Digital Readout



Spindle Speed Selectors



Headstock Controls



Gearbox Feed Dials

leadscrew threads: 4mm

a	30T							
b	40T							
LEVER	4	1	4	2	3	1	3	3
	T	T	R	S	S	U	R	U
A D	10	8.0	7.5	6.0	5.6	4.8	4.5	3.6
B D	5.0	4.0	3.75	3.0	2.8	2.4	2.25	1.8
A C	2.5	2.0	1.875	1.5	1.4	1.2	1.125	0.9
B C	1.25	1.0	0.9375	0.75	0.7	0.6	0.5625	0.45

Metric Thread Chart

leadscrew threads: 4mm

a	40T				
b	40T				
LEVER	1	2	1	3	3
	T	S	U	R	U
A D	2 1/4	3	3 3/4	4	5
B D	4 1/2	6	7 1/2	8	10
A C	9	12	15	16	20
B C	18	24	30	32	40

Imperial Thread Chart

Cross screw threads: 2.5mm

a	30T			
LEVER	OT	OS	OR	OU
A D	1.044	0.975	0.783	0.627
B D	0.298	0.278	0.224	0.179
A C	0.522	0.487	0.392	0.313
B C	0.149	0.139	0.112	0.089
A D	0.261	0.244	0.196	0.157
A C	0.075	0.070	0.056	0.045
B C	0.131	0.122	0.098	0.078
B C	0.037	0.035	0.028	0.022

Longitudinal and Cross feed Chart

INDICATOR TABLE									
mm	0.45	0.6	1.5	3.0	4.5	6.0			
27T	scale					1/5/9			
28T	mm					0.7	3.5	8.0	
	scale					1/4/7/10	1/7		
30T	mm					1.25	2.5	5.0	10
	scale					1/3/5/7/9/11			
OT	mm					1.0	2.0	4.0	
	scale								

Indicator Table For Thread Chasing



3 Jaw Chuck and Safety Guard



Quick Change Toolpost



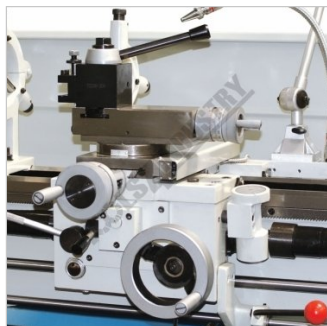
Swivel Compound Table



Fixed and Travelling Steadies



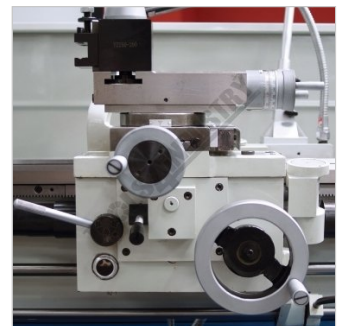
LED Work Light and Coolant Hose



Saddle Right View

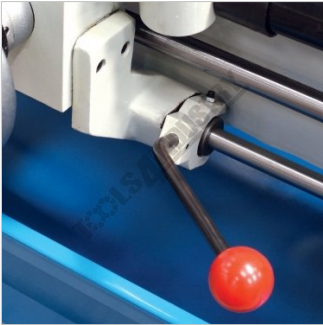


Feed And Screw Cutting Lever



Saddle Front View

## HAFCO-METALMASTER Centre Lathe AL-356



Spindle Engagement Lever



Thread Chasing Dial



Cross Feed Handwheel



Saddle Feed Handwheel



Compound Slide Handle



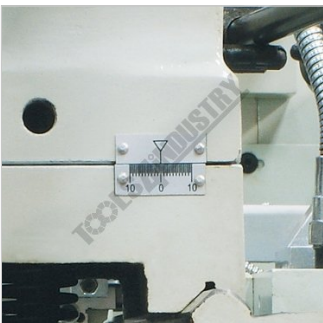
Leadscrew Covers



Tailstock



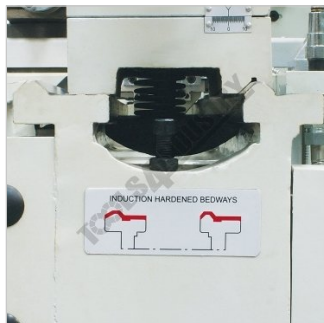
Tailstock Quill Graduations



Adjustable Tailstock



Tail Stock Feed Handwheel



Induction Hardened Bed Ways



Slideout Swarf Tray



2 Speed Switch

**HAFCO-METALMASTER Centre Lathe AL-356****Features**

- 2 Axis digital readout system
- Quick change toolpost with 4 holders
- Concertina leadscrew cover
- Gear drive headstock for quick change of spindle speeds
- Precision 'V'-beds are hardened and ground, incorporating a rigid webbed casting
- Foot operated spindle brake with safety cut out switch
- Slide out front swarf tray for easy cleaning
- Change gears for metric and imperial thread cutting
- Oil sight glass for head stock and gearbox
- Adjustable taper roller bearings support the spindle
- Inching button is incorporated on the control panel for convenient spindle speed selection
- Enclosed quick action gearbox for thread cutting and auto feeding
- Powered longitudinal and cross feeds
- D1-5 camlock spindle for quick chuck changes and safe reverse-direction turning. ISO standard
- Removable gap bed-way for larger diameter jobs
- Dual calibrated dials (except for saddle hand-wheel)
- Chuck & change gear guards are fitted with micro switches
- Coolant system with flexible hose
- Low voltage LED work light
- Slide out swarf tray

**Includes**

- 2 Axis digital readout system
- Concertina leadscrew covers
- Slide out front swarf tray
- Quick change tool-post with 4 holders
- 200mm 3-jaw chuck with reverse jaws
- 200mm 4-jaw chuck
- Face plate
- Fixed steady
- Travelling steady
- Change gears
- Dead centres
- Thread-chasing dial
- LED Work light
- Stand
- Rear splash guard & swarf tray
- Tool box
- Instruction booklet

## HAFCO-METALMASTER Centre Lathe AL-356

### Specifications

<b>ORDER CODE</b>	L564E
<b>MODEL</b>	AL-356
<b>Swing Over Bed (mm)</b>	356
<b>Distance Between Centres (mm)</b>	1000
<b>Spindle Bore (mm)</b>	51
<b>Swing In Gap (mm)</b>	476
<b>Swing Over Cross-slide (mm)</b>	224
<b>Digital Readout System Fitted</b>	Yes
<b>Quick Change Toolpost Fitted</b>	Yes
<b>Leadscrew Covers Fitted</b>	Yes
<b>Taper Turning Attachment</b>	~
<b>Coolant System</b>	Yes
<b>Tool Height To Suit (mm)</b>	16
<b>Centre Height (mm)</b>	178
<b>Spindle Nose Size or Type</b>	D1-5 Camlock
<b>Bed Width (mm)</b>	187
<b>Headstock Spindle Taper (MT)</b>	6
<b>Tailstock Taper (MT)</b>	4
<b>Cross Slide Travel (mm)</b>	160
<b>Compound Slide Travel (mm)</b>	68
<b>Leadscrew Type</b>	Metric
<b>Metric Cross Feed (X-Axis) (mm/rev)</b>	0.022 - 0.298
<b>Imperial Cross Feed (X-Axis) (inch/rev)</b>	~
<b>Metric Longitudinal Feed (Z-Axis) (mm/rev)</b>	0.078 - 1.044
<b>Imperial Longitudinal Feed (Z-Axis) (inch/rev)</b>	~
<b>Metric Thread Steps &amp; Pitch (No. / mm)</b>	32 (0.45 - 10)
<b>Imperial Thread Steps &amp; TPI (No. / TPI)</b>	20 (2-1/4 - 40)
<b>3 Jaw Chuck Diameter (mm)</b>	200
<b>4 Jaw Chuck Diameter (mm)</b>	200
<b>Spindle Steps / Speeds (No. / rpm)</b>	16 (35 - 1900)
<b>Motor Power (kW / hp)</b>	1.8 / 2.4
<b>Voltage / Amperage (V / amp)</b>	415
<b>Nett Weight (kg)</b>	650