

Product Brochure For L691

## TU-3008G - Opti-Turn Bench Lathe

Ø300 x 700mm Turning Capacity - Ø38mm Spindle Bore  
 12 Geared Head Speeds 125 ~ 2400rpm



Stand Sold Separately

OPTIMUM



**Ex GST**  
**\$3,890.00**

**Inc GST**  
**\$4,279.00**

ORDER CODE:	L691
MODEL:	TU-3008G
Swing Over Bed (mm):	300
Distance Between Centres (mm):	700
Spindle Bore (mm):	38
Swing In Gap (mm):	~
Swing Over Cross-slide (mm):	190
Digital Readout System Fitted:	Optional
Quick Change Toolpost Fitted:	Optional
Leadscrew Covers Fitted:	~
Taper Turning Attachment:	~
Coolant System:	~
Tool Height To Suit (mm):	16
Centre Height (mm):	150
Spindle Nose Size or Type:	D1-4
Bed Width (mm):	180
Headstock Spindle Taper (MT):	5
Tailstock Taper (MT):	3
Cross Slide Travel (mm):	150
Compound Slide Travel (mm):	65
Leadscrew Type:	Metric
Metric Cross Feed (X-Axis) (mm/rev):	0.01 ~0.10
Imperial Cross Feed (X-Axis) (inch/rev):	~
Metric Longitudinal Feed (Z-Axis) (mm/rev):	0.085 - 0.83
Imperial Longitudinal Feed (Z-Axis) (inch/rev):	~
Metric Thread Steps & Pitch (No. / mm):	18 (0.2 - 3.5)
Imperial Thread Steps & TPI (No. / TPI):	21 (8 - 56")
3 Jaw Chuck Diameter (mm):	160
4 Jaw Chuck Diameter (mm):	Optional
Spindle Steps / Speeds (No. / rpm):	12 (125 - 2400)
Motor Power (kW / hp):	1.5 / 2
Voltage / Amperage (V / amp):	240 / 10
Nett Weight (kg):	280

### Description

This new TU-3008G model geared head lathe of very modern design has many convenient facilities ideal for the enthusiastic model engineer for small component manufacturer. A very rigid 180mm cast iron bed width, induction hardened and ground slideways gives a high level of precision turning. The lathe capacity is 700mm between the centres and 300mm swing over the bed and with a generous 38mm spindle bore allowing larger stock to be placed through the headstock. The workhorse that drives this lathe has an upgraded powerful 2hp (1.5kW) motor providing smooth running.

Other very useful features included are cross and longitudinal power feeds that's not normally found of small conventional lathes, quick lock tailstock and both metric and imperial thread cutting, ranging from 8-56 tpi or 0.2-3.5mm pitch. Also included are a 4-way indexing tool post with 16mm tool shank capacity, fine adjustment on the tailstock for taper turning and the rear splash guard. A 160mm 3-jaw chuck with reverse jaws is also supplied. There are many additional options available including a milling head (BF-16AV) or (BF-20AV) to turn this machine into a very capable all round machining centre.

### Features

- Geared headstock for quick change of 12 spindle speeds 125-2400rpm
- Ribbed prism bed made of grey cast iron
- Inductively hardened and ground bed guideways
- Automatic cross & longitudinal power feeds
- Spindle nose accuracy 0.009mm
- 3 Jaw chuck running accuracy 0.04mm
- D1-4 camlock spindle for quick chuck changes

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- Forward & reverse spindle direction switch
- Oils sight glass on head-stock & gearbox
- Change gears for metric and imperial thread cutting
- Enclosed feed and threading gearbox
- Belt cover with tamper proof safety micro switch
- Heavy duty rotating safety chuck guard with micro switch
- Sliding tool post safety guard
- Cross slide & bed length are designed to fit Optimum DRO scales

### Includes

- Change gears for metric & Imperial thread cutting
- Chuck guard
- Toolpost guard
- 2 dead centres
- 3-jaw chuck with reversible jaws
- Swarf drip tray
- Rear splash guard

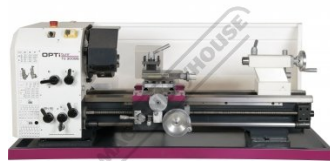
### Optional Accessories

- Stand with cabinet and drawers - L690
- 200mm 4 jaw independent chuck - C252
- Travelling steady - L6917
- Fixed steady - L6916

### Specific Features



Right Front View



Front View



Shown with Optional Stand L690 Top View



Shown with Optional Stand L690 Left View



Safety Chuck Guard



Safety Chuck Guard Open Position



Headstock Controls



Spindle Speed Levers and Speed Chart

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Headstock Controls



Top View Saddle and Chuck



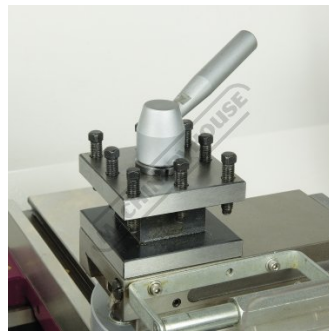
Spindle Direction and Emergency Stop Switches



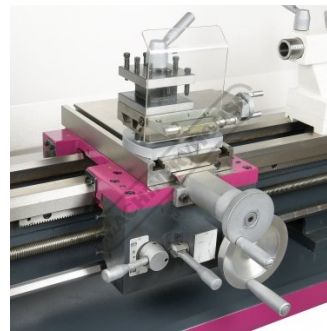
On Off Switch



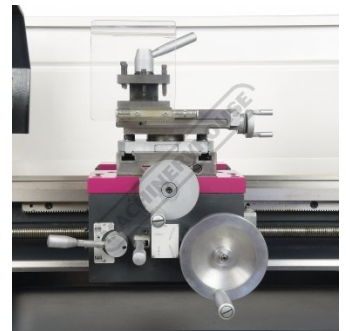
38mm Through Spindle Bore



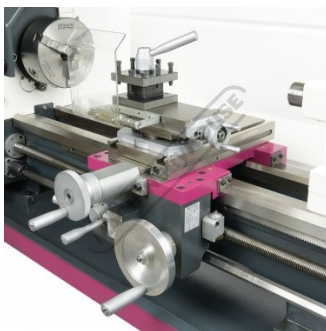
4 Way Toolpost



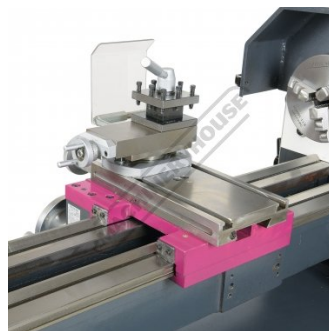
Saddle Left View



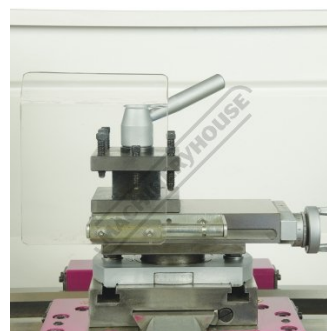
Saddle Front View



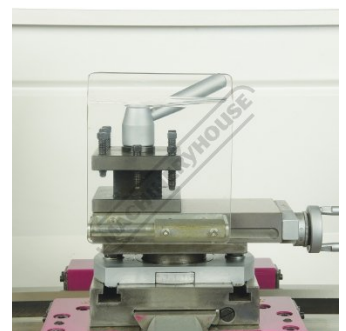
Saddle Right View



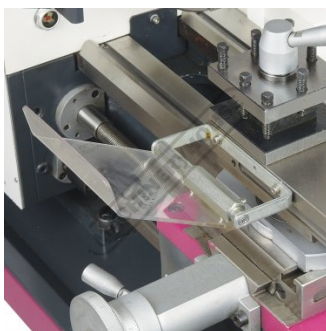
Saddle Rear View



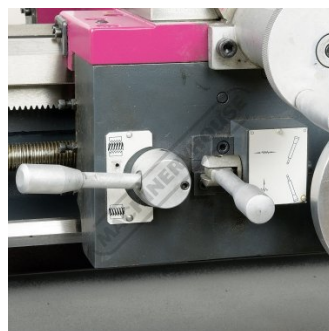
Safety Cutter Guard Left



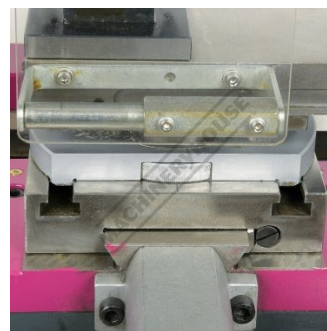
Safety Cutter Guard Right



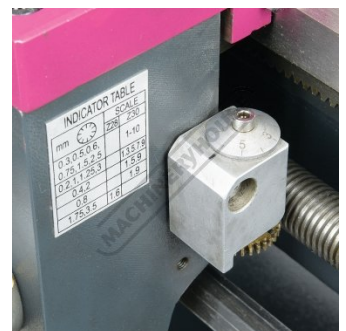
Safety Cutter Guard Tilted Down



Feed and Thread Engagement Levers



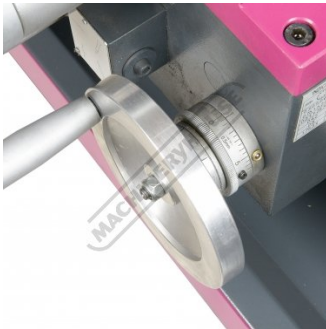
Swivel Compound Slide



Thread Chasing Dial

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sales@machineryhouse.com.au  
 www.machineryhouse.com.au



Saddle Handwheel Graduations



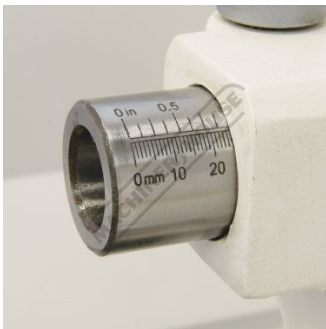
Compound Slide Hand Wheel



Cross Feed Hand Wheel Graduations



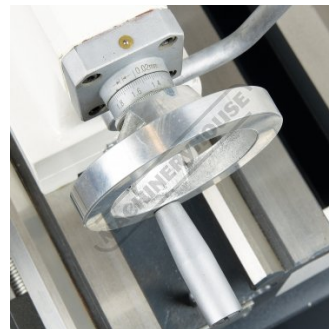
Tailstock



Tailstock Quill Graduations



Tailstock Horizontal Adjustment



Tailstock Hand Wheel



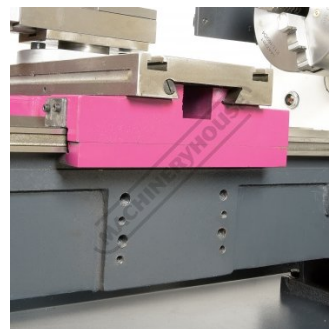
Ground and Hardened Bed



Change Gears



Slides Ready For Mounting of DRO Scales



Mounting Point for Optional Milling Head



Parts Included

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**Recommended Accessories**

**K0012**

Opti-Turn Bench Lathe Package Deal



**K149**

Opti-Turn Lathe & Mill Drill Combination Package Deal



**L690**

Lathe Stand



**C252**

4 Jaw Independent Lathe Chuck



**L292**

Quick Change Toolpost



**L6917**

Lathe Steady - Travelling



**L6916**

Lathe Steady - Fixed



**M647**

Opti-Mill Head Attachment - Geared & Tilting Head



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**D695**  
3-Axis Optimum Digital Readout Counter - 1µm



**D694**  
1500mm Optimum Magnetic Digital Readout Scale



**P235**  
Coolant Pump & Tank



**L017**  
Right Hand Turning Tool Holder



**L018**  
Left Hand Turning Tool Holder



**L0077**  
Lathe Turning Tool Kit - 7 piece Insert Type



**L451**  
Lathe Turning Tool Kit - 3 piece Insert Type



**L457**  
Lathe Threading Tool Kit - Insert Type



**L465**  
Professional Lathe Parting Tool Kit - Insert Type



**C052**  
3MT Live Centre



**C290**  
Heavy Duty Drill Chuck - Keyed Type



**D443A**  
3MT x JT3 Drill Chuck Arbor Kit



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D1272

Metric Precision HSS Drill Set - 25 Piece



D1282

Imperial Precision HSS Drill Set - 29 Piece



D126

Metric Precision HSS Drill Set - 170 Pieces



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



S075

Cutting Tool Lubricant Paste - 200g



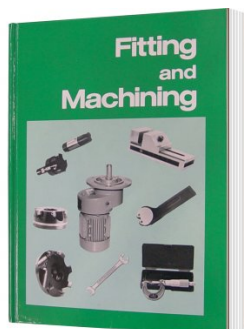
S074

Cutting Tool Lubricant Paste - 500g



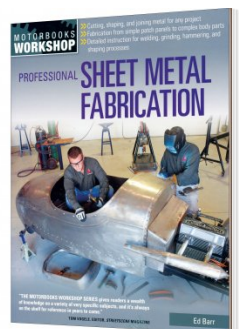
L341

Fitting and Machining Technical Book



L3455

Professional Sheet Metal Fabrication Book



L300

Magnetic Swarf Remover



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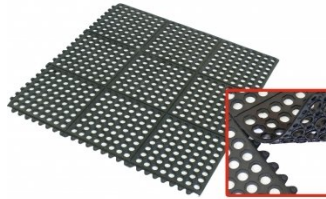
M9991  
 Magnetic Floor Sweeper



M800  
 Rubber Mat - Anti-Fatigue



M805  
 Rubber Mat - Anti-Fatigue



O000  
 SpillFix Universal Organic Absorbent



O000A  
 Natural Zeolite Absorbent



O043  
 Rust & Corrosion Preventive - Penetrant & Lubrication



O042  
 General Purpose Lubricant & Corrosion Inhibitor



O040  
 Rust & Corrosion Preventive - Penetrant & Lubrication



O044  
 Rust & Corrosion Preventive - Penetrant & Lubrication

