

Product Brochure For K149

## Opti-Turn Lathe & Mill Drill Combination Package Deal - TU-3008G-20M

300 x 700mm

Included BF-20V Mill Head



OPTIMUM



### Package Deal

Ex GST	Inc GST
<b>\$5,280.00</b>	<b>\$6,072.00</b>

### Package Contents - SAVE \$524.40 (Inc)

1 x L691 - Opti-Turn Bench Lathe TU-3008G	<b>\$5,262.40</b>
1 x M647 - Opti-Mill Head Attachment - Geared & Tilting	<b>\$1,334.00</b>
<b>Normal Price (Inc):</b>	<b>\$6,596.40</b>

ORDER CODE:	K149
MODEL:	TU-3008G-20M
KIT Includes:	TU-3008G & BF-20V
Lathe Specifications:	LATHE SPECIFICATIONS
Tool Height To Suit (mm):	16
Distance Between Centres (mm):	700
Swing Over Bed (mm):	300
Swing Over Cross Slide (mm):	190
Centre Height (mm):	150
Spindle Bore (mm):	38
Spindle Nose Type:	D1-4
Bed Width (mm):	180
Headstock Taper (MT):	5
Tailstock Taper (MT):	3
Cross Slide Travel (mm):	150
Compound Slide Travel (mm):	65
Leadscrew:	Metric
Longitudinal Feed (Z-Axis) (mm/rev):	0.085 - 0.83
Cross Feed (X-Axis):	0.01 ~0.10
Metric Thread Range (mm):	0.2 - 3.5
Imperial Thread Range (TPI):	8 - 56"
Three Jaw Chuck Size (mm):	160
Four Jaw Chuck Size:	Optional
Spindle Speeds (No. / rpm):	12 (125 - 2400)
Motor Power - Lathe (kW / hp):	1.5 / 2
Voltage / Amperage - Lathe (V / amp):	240 / 10
Mill Specifications:	MILL SPECIFICATIONS
Spindle Taper (MT):	3
Column Type:	Dovetail
Swivel Head (Left ~ Right) (± Deg):	±90
Vertical Travel (Z-Axis) (mm):	280
Drilling Capacity (mm):	16
End Milling Capacity (mm):	20
Face Milling Capacity (mm):	63
Spindle Speeds Vertical (No. / rpm):	Variable (90-3000)
Motor Power - Mill (kW / hp):	0.85 / 1.13
Voltage / Amperage - Mill (V / amp):	240 / 10
Nett Weight (kg):	383

### Description

TU-3008G-20M Combination Lathe & Mill-Drill consist of TU-3008G bench lathe & BF-20V mill head

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.

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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.

### Features

- LATHE: TU-3008G
  - 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
  - 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 and bed length designed to adapt Optimum DRO scales
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- MILL: BF-20V
  - Electronic infinitely variable speed
  - 3MT spindle taper
  - Dovetail vertical Z-Axis
  - Digital readout speed display
  - Work light mounted underneath mill head
  - Digital depth display with zero reset for quill
  - Tilting head to  $\pm 90^\circ$  from vertical
  - 2 speed gearbox (high / low) drive
  - Forward and reverse spindle switch
  - Scale collars for all Axis are adjustable
  - Adjustable dovetail slideway on Z-Axis
  - Adjustable drill length stop
  - Metric dial graduations
- Note: The lathe rear splash tray is required to be removed to fit Mill Head Attachment.

### Includes

- LATHE: TU-3008G
  - 160mm 3 jaw chuck with reverse jaws
  - 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
- 
- MILL: BF-20V
  - 3MT x JT6 drill chuck arbor
  - Safety cutter guard
  - Bracket kit for optional digital readout.

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Specific Features



Front View



Left View



Right View with Mill Table Ready



Front View with Mill Table Ready



Left View with Mill Table Ready



Front View with Mill Head Tilted



Right View with Mill Head Tilted



Mill Head Rear View



Mill Head Left View



Mill Head Right View



Shown on Optional Stand Right View



Shown on Optional Stand Front View



Shown on Optional Stand Left View



Shown on Optional Stand with Mill Table Ready



Shown on Optional Stand with Mill Table Ready Front View



Shown on Optional Stand with Mill Table Ready Left View

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Shown on Optional Stand with Mill Table Ready Rear View



Stand Sold Separately  
Lathe



Top 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



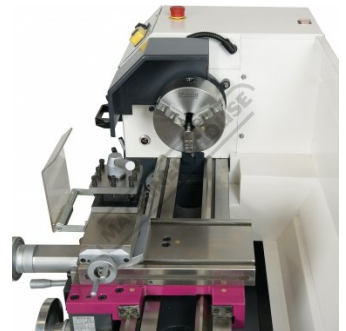
Headstock Controls



Spindle Speed Levers and Speed Chart



Headstock Controls



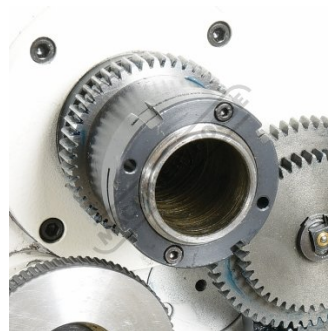
Top View Saddle and Chuck



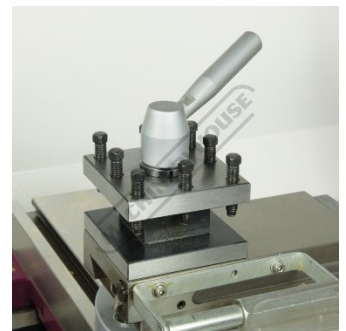
Spindle Direction and Emergency Stop Switches



On Off Switch

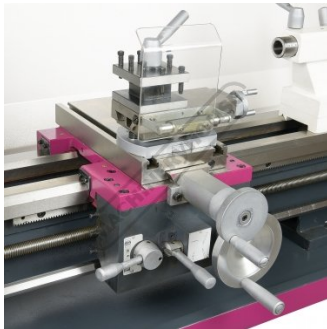


Through Spindle



4 Way Toolpost

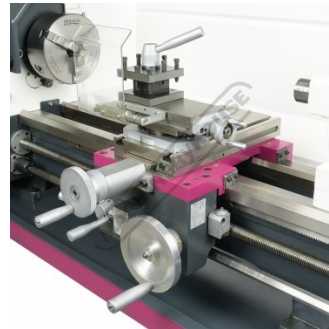
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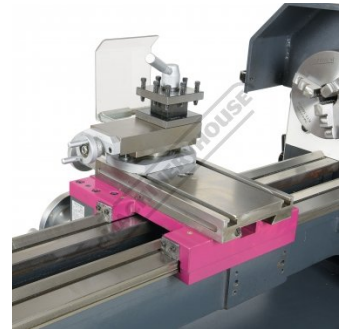
Saddle Left View



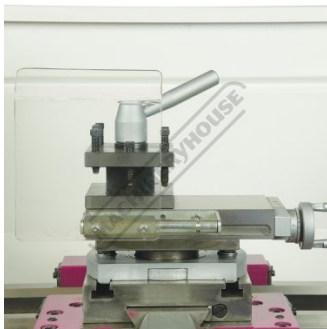
Saddle Front View



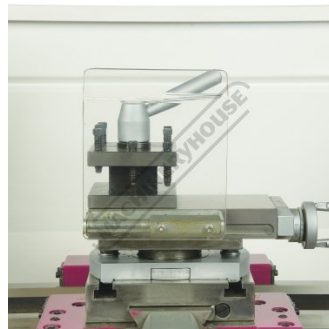
Saddle Right View



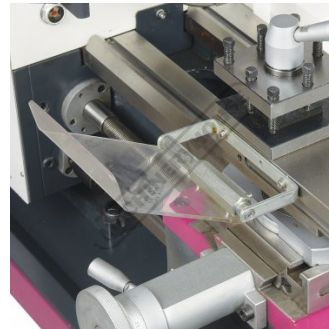
Saddle Rear View



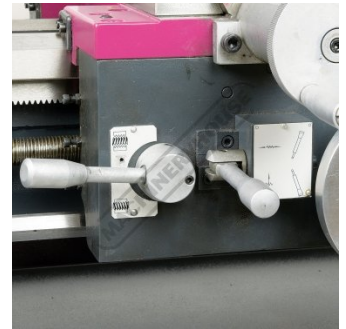
Safety Cutter Guard Left



Safety Cutter Guard Right



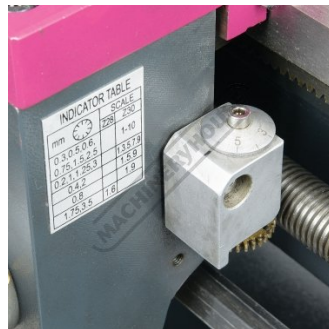
Safety Cutter Guard Tilted Down



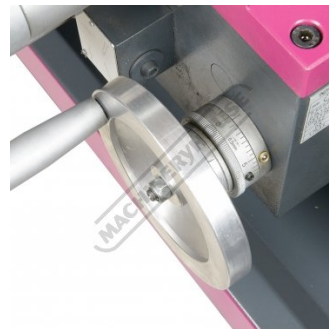
Feed and Thread Engagement Levers



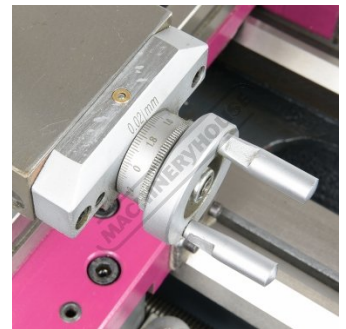
Swivel Compound Slide



Thread Chasing Dial



Saddle Handwheel Graduations



Compound Slide Hand Wheel



Cross Feed Hand Wheel Graduations



Tailstock



Tailstock Quill Graduations

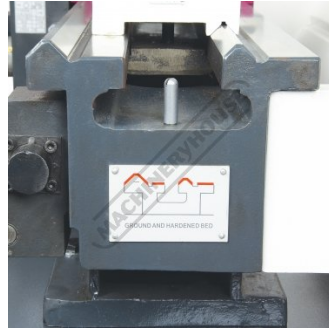


Tailstock Horizontal Adjustment

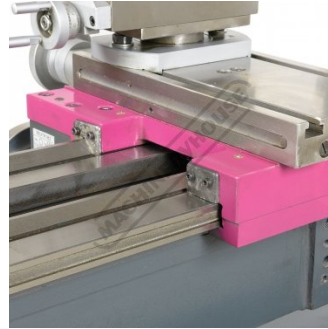
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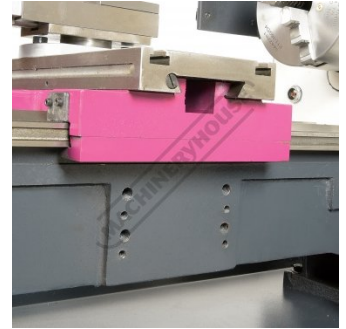
Tailstock Hand Wheel



Ground and Hardened Bed



Slides Ready For Mounting of DRO Scales



Mounting Point for Optional Milling Head



Change Gears



Parts Included



Mill Head



Safety Cutter Guard



Digital Readout For Quill Depth



Control Panel



Quill Fine Adjustment



Drawbar



Quill Handle



High Low Handle



Head Height Scale



Head Height Adjustment Handle

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Tilt Head Adjustment



Dovetail Column



Light

**Recommended Accessories**

L690  
Lathe Stand

C252  
4 Jaw Independent Lathe Chuck

L6917  
Lathe Steady - Travelling

L6916  
Lathe Steady - Fixed



D695  
3-Axis Optimum Digital Readout Counter - 1µm

D694  
1500mm Optimum Magnetic Digital Readout Scale

L017  
Right Hand Turning Tool Holder

L018  
Left Hand Turning Tool Holder



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**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



**C0945**  
Clamp Kit 58 piece - Workshop  
Series



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



**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



**C052**  
3MT Live Centre



**L076**  
Knurling Tool Holder Kit

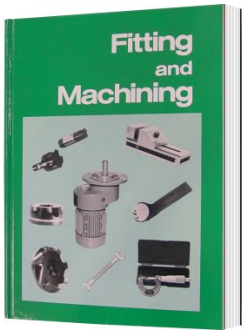


**P235**  
Coolant Pump & Tank



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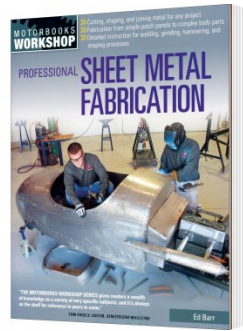
L341  
Fitting and Machining Technical Book



L345  
Handy Workshop Tips & Techniques - 1st Edition



L3455  
Professional Sheet Metal Fabrication Book



L280  
Quick Change Toolpost



L280A  
Quick Change Toolpost Holder - Std



L277  
Vertical Mill Slide



M9991  
Magnetic Floor Sweeper



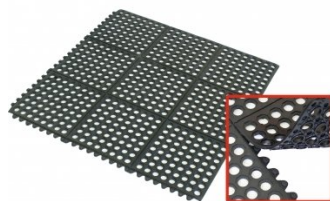
L300  
Magnetic Swarf Remover



M800  
Rubber Mat - Anti-Fatigue



M805  
Rubber Mat - Anti-Fatigue



S090A  
Soluble Metal Cutting Fluid - 1 Litre



S090  
Soluble Metal Cutting Fluid - 5 Litre



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**S076**  
Cutting Tool Lubricant Fluid - 500ml



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



**S074**  
Cutting Tool Lubricant Paste - 500g



**D720C**  
200mm Easson Digital Readout Scale



**D728**  
600mm Easson Digital Readout Scale



**C926**  
Collet & Chuck Set - 20 Piece



**C922B**  
Collet & Chuck Set - 8 Piece



**C090**  
Clamp Kit 58 piece - Workshop Series



**C0948**  
Mini Clamp Kit 10 piece - Workshop Series



**M3301**  
Metric HSS Slot Drill & End Mill Set - 10 Piece



**M3321**  
Imperial HSS Slot Drill & End Mill Set - 10 Piece



**M3280**  
13mm HSS End Mill Long Series



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M182  
Precision Boring Head Kit



M192  
Boring Head Shank



M180  
Boring Bar Set - 9 piece



M250  
Parallel Set - 8 Piece



M530  
Universal Milling Kit - 4 Piece



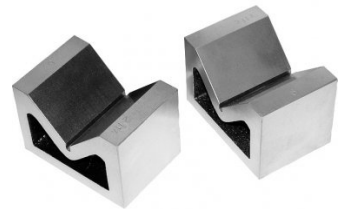
M528  
Face Mill 90° - Positive Rake



L066  
KYOCERA Carbide Inserts - Milling



V004  
Cast Iron Vee Block



R001  
Rotary Table



R0014  
Tilting Rotary Table



O043  
Rust & Corrosion Preventive



O042  
General Purpose Lubricant & Corrosion Inhibitor



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O044

Rust & Corrosion Preventive

