

## 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

\$4,590.00

\$5,049.00

### Package Contents - SAVE \$121.00 (Inc)

|                                                         |                   |
|---------------------------------------------------------|-------------------|
| 1 x L691 - Opti-Turn Bench Lathe TU-3008G               | \$4,125.00        |
| 1 x M647 - Opti-Mill Head Attachment - Geared & Tilting | \$1,045.00        |
| <b>Normal Price (Inc):</b>                              | <b>\$5,170.00</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.

## Product Brochure For K149

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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
- 
- 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



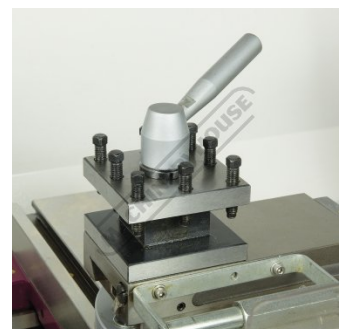
Spindle Direction and Emergency Stop Switches



On Off Switch

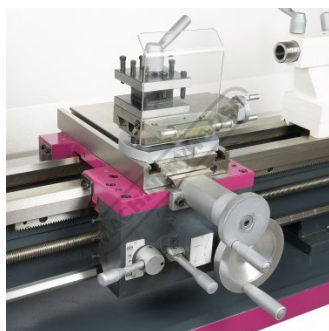


Through Spindle



4 Way Toolpost

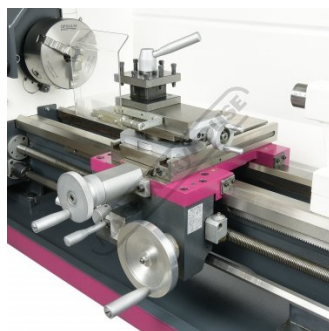
## Product Brochure For K149



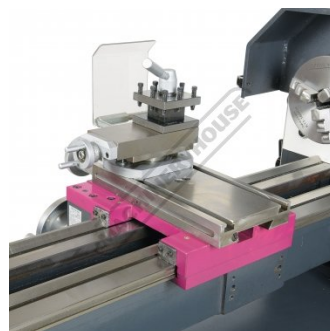
### Saddle Left View



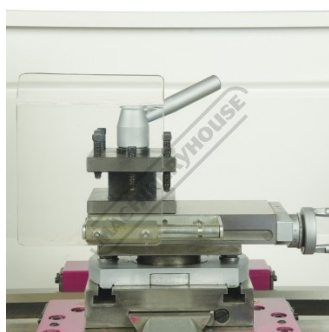
### Saddle Front View



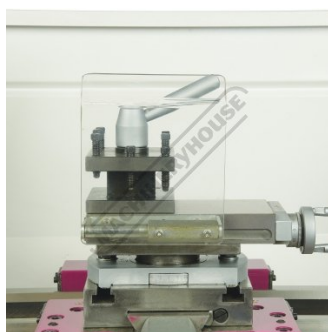
### Saddle Right View



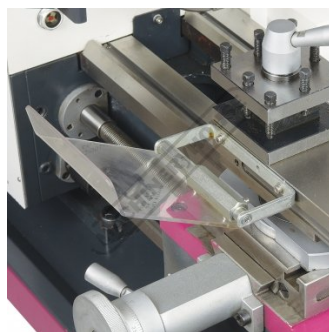
Saddle Rear View



### 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



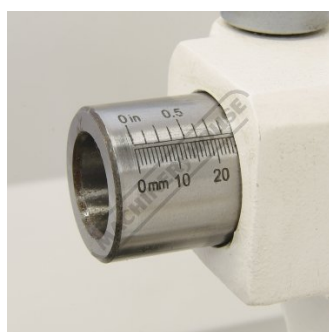
### Compound Slide Hand Wheel



### Cross Feed Hand Wheel Graduations



Tailstock



## Tailstock Quill Graduations



### Tailstock Horizontal Adjustment

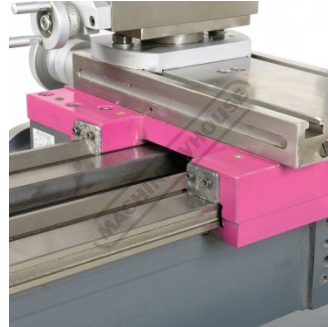
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Tailstock Hand Wheel



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



## Product Brochure For K149

**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**

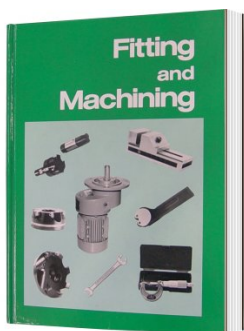
Coolant Pump & Tank



Product Brochure For K149

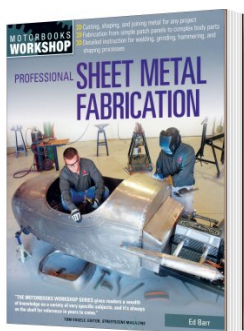
L341

Fitting and Machining Technical Book



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



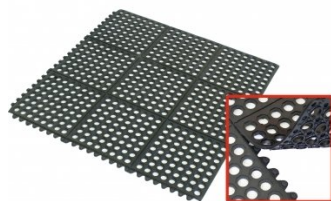
M800

Rubber Mat - Anti-Fatigue



M805

Rubber Mat - Anti-Fatigue



S090A

Soluble Metal Cutting Fluid - 1 Litre



S090

Soluble Metal Cutting Fluid - 5 Litre



S076

Cutting Tool Lubricant Fluid - 500ml



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**S077**

Drilling, Tapping & Cutting Tool  
Lubricant Spray - 400g



**S075**

Cutting Tool Lubricant Paste -  
200g



**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



## Product Brochure For K149

**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



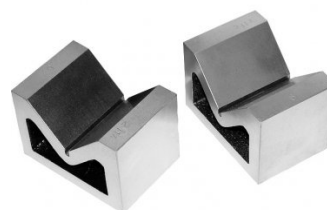
**L066**

KYOCERA Carbide Inserts - Milling



**V004**

Cast Iron Vee Block



**R001**

Rotary Table



**R0014**

Tilting Rotary Table



**O000**

SpillFix Universal Organic Absorbent



**O043**

Rust & Corrosion Preventive



## Product Brochure For K149

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O042

General Purpose Lubricant &  
Corrosion Inhibitor



O040

Rust & Corrosion Preventive



O044

Rust & Corrosion Preventive

