

Product Brochure For K147

## Opti-Turn Lathe & Mill Drill Combination Package Deal - TU-2506V-20M

250 x 550mm

Included BF-20V Mill Head



OPTIMUM



**Package Deal**

Ex GST

Inc GST

**\$2,950.00**

**\$3,245.00**

**Package Contents - SAVE \$165.00 (Inc)**

1 x L689 - Opti-Turn Bench Lathe TU-2506V	<b>\$2,365.00</b>
1 x M647 - Opti-Mill Head Attachment - Geared & Tilting	<b>\$1,045.00</b>
<b>Normal Price (Inc):</b>	<b>\$3,410.00</b>

ORDER CODE:	K147
MODEL:	TU-2506V-20M
KIT Includes:	TU-2506V & BF-20V
Lathe Specifications:	LATHE SPECIFICATIONS
Tool Height To Suit (mm):	12
Distance Between Centres (mm):	550
Swing Over Bed (mm):	250
Swing Over Cross Slide (mm):	150
Centre Height (mm):	125
Spindle Bore (mm):	26
Spindle Nose Type:	Fixed
Bed Width (mm):	135
Headstock Taper (MT):	4
Tailstock Taper (MT):	2
Cross Slide Travel (mm):	110
Compound Slide Travel (mm):	70
Leadscrew:	Metric
Longitudinal Feed (Z-Axis) (mm/rev):	0.07 - 0.4
Cross Feed (X-Axis):	~
Metric Thread Range (mm):	0.2 - 3.5
Imperial Thread Range (TPI):	8 - 56
Three Jaw Chuck Size (mm):	125
Four Jaw Chuck Size:	Optional
Spindle Speeds (No. / rpm):	Variable (150 - 2500)
Motor Power - Lathe (kW / hp):	1.2 / 1.6
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):	259

### Description

TU-2506V-20M Combination Lathe & Mill-Drill consist of TU-2506V bench lathe & BF-20V mill head

A variable speed Lathe & Mill-Drill combination machine of very modern design with many convenient facilities has greater capacity due to the larger milling drilling head model BF-20V. In addition the mill head also incorporates a digital readout display ideal for the enthusiastic model engineer or with limited space in the work shop. A very rigid cast iron bed with ground slide-ways gives a high level of precision.

Featuring as standard on the lathe is a longitudinal power feed, quick lock tailstock, both metric and imperial thread cutting capability and also

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including a milling & drilling head to turn this machine into a very versatile & capable small all round machine. This machine is suitable for bench mounting, but recommended the addition of the optional stand so not to take up valuable bench space. We are sure this machine will please the model engineer or the serious enthusiast.

### Features

- LATHE: TU-2506V
- Ideal for small workshops
- Electronic infinitely variable speed 150-2500rpm
- Easy to read digital readout speed display
- Ribbed prism bed made of grey cast iron
- Inductively hardened and ground bed guideways
- Spindle nose accuracy 0.009mm
- 3 Jaw chuck running accuracy 0.04mm
- Forward & reverse spindle direction switch
- Automatic longitudinal feed
- Metric & Imperial thread cutting
- Enclosed feed and threading gearbox
  
- 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-2506V
- 125mm 3-jaw chuck
- Change gears for metric & Imperial thread cutting
- Chuck guard
- Toolpost guard
- Dead Centre
- 3-jaw chuck with reversible jaws
- Swarf 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



Left View



Front View



Toolpost Removed for Milling Application



Shown on Optional Stand



Stand Sold Separately

TU 2506V Lathe Shown with Optional Stand



TU 2506V Front View with Optional Stand



TU 2506V Left View with Optional Stand



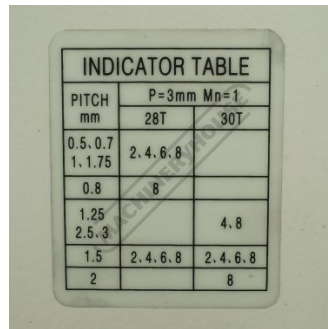
TU 2506V Safety Chuck Guard



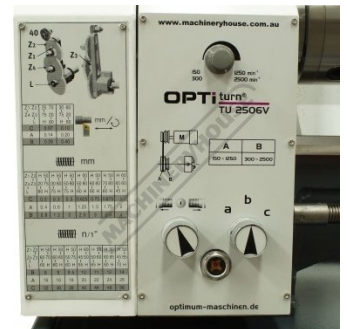
TU 2506V Lathe Controls



TU 2506V Digital Speed Readout



TU 2506V Indicator Table



TU 2506V Spindle & Gearbox Controls



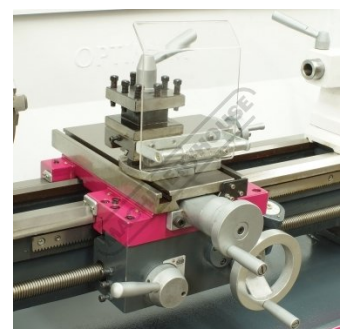
TU 2506V Feed and Thread Gearbox



TU 2506V Variable Speed Dial

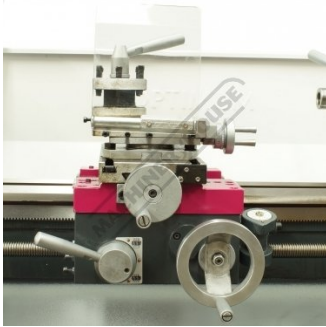


TU 2506V 3 Jaw Chuck



TU 2506V Saddle Left View

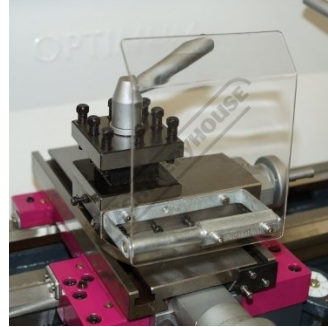
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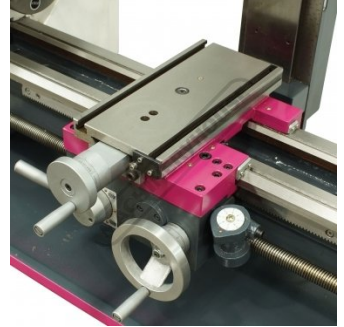
TU 2506V Saddle Front View



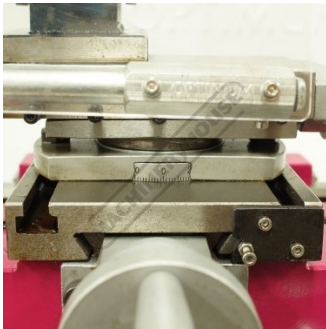
TU 2506V Saddle Right View



TU 2506V Toopost and Safety Guard



TU 2506V Mill Table



TU 2506V Compound Slide



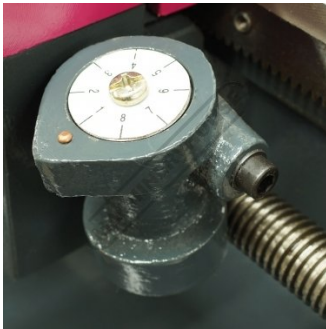
TU 2506V Cross Feed Handle



TU 2506V Saddle Hand Wheel



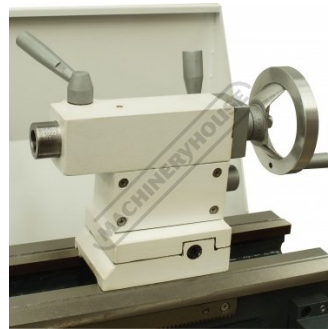
TU 2506V Compound Slide Hand Wheel



TU 2506V Thread Chasing Dial



TU 2506V Feed Engagement Lever



TU 2506V Tailstock



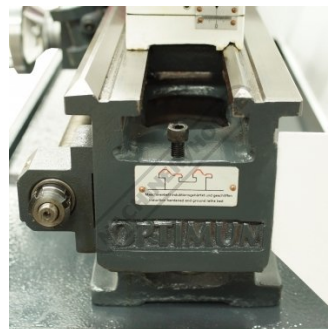
TU 2506V Tailstock Quil



TU 2506V Tailstock Adjustment



TU 2506V Tailstock Quill Hand Wheel



TU 2506V Induction Hardened and Ground Bed



TU 2506V Lathe Parts

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BF 20AV Mill Head



BF 20AV Safety Cutter Guard



BF 20AV Quill Depth Digital Readout



BF 20AV Variable Spindle Speed & Spindle DRO



BF 20AV Quill Fine Adjustment



BF 20AV Drawbar



BF 20AV Quill Handle



BF 20AV High Low Geared Drive



BF 20AV Dovetail Column



BF 20AV Z-Axis Scale



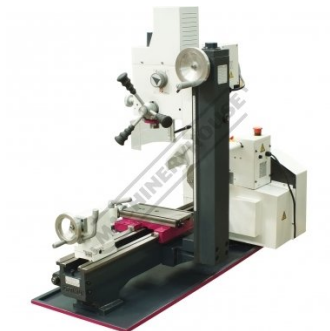
BF 20AV Z-Axis Hand Wheel



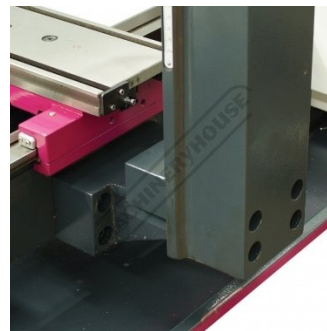
BF 20AV Swivel Head Lock



BF 20AV Light



Rear View



Mill Attachment Bracket

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**Recommended Accessories**

**L690**  
 Lathe Stand



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



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



**L0099**  
 Lathe Turning Tool Kit - 7 piece Insert Type



**L450**  
 Lathe Turning Tool Kit - 3 piece Insert Type



**L456**  
 Lathe Threading Tool Kit - Insert Type



**L464**  
 Professional Lathe Parting Tool Kit - Insert Type



**L073**  
 Parting Tool Holder - Suits 1/2" HSS Tool Bit

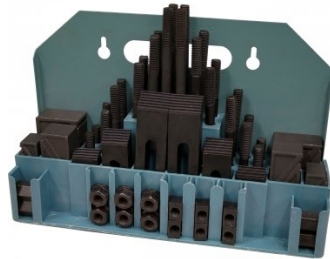


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**L0007**  
 Part Off Blade - High Speed  
 Steel Bit



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



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



**D442A**  
 2MT 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



**C050**  
 2MT Live Centre



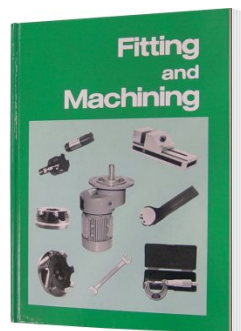
**L076**  
 Knurling Tool Holder Kit



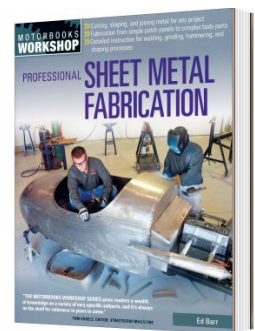
**P235**  
 Coolant Pump & Tank



**L341**  
 Fitting and Machining Technical  
 Book



**L3455**  
 Professional Sheet Metal  
 Fabrication Book



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L280  
Quick Change Toolpost



L280A  
Quick Change Toolpost Holder - Std



L277  
Vertical Mill Slide



L300  
Magnetic Swarf Remover



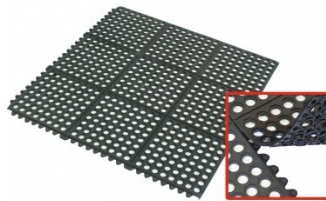
M9991  
Magnetic Floor Sweeper



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



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



S075  
Cutting Tool Lubricant Paste - 200g



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



**D720C**  
 200mm Easson Digital Readout Scale



**D728**  
 600mm Easson Digital Readout Scale



**O000**  
 SpillFix Universal Organic Absorbent



**O043**  
 Rust & Corrosion Preventive



**O042**  
 General Purpose Lubricant & Corrosion Inhibitor



**O040**  
 Rust & Corrosion Preventive



**O044**  
 Rust & Corrosion Preventive



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



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



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



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



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



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



**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



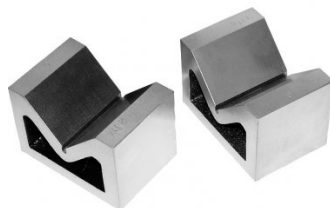
**M528**  
 Face Mill 90° - Positive Rake



**L066**  
 KYOCERA Carbide Inserts - Milling



**V004**  
 Cast Iron Vee Block



**R001**  
 Rotary Table



**R0014**  
 Tilting Rotary Table

