

# Metal Cut-Off Saws / Metal Lathes

## Metal Cut-Off Saws and Metal Lathes

### ECS 250 / 315 Metal Cut-Off Saws



An ideal solution where preparation of steel and non-ferrous stock is regularly required but space is limited. The ECS 250 produces clean, accurate cuts in heavier bar stock or tube, and has surprising capacity for a machine of this type. A coolant supply system is built-in and the 3ph model has two speeds for greater versatility. The machine is easy to use and features a quick action vice mechanism - ideal for repeat work. Angles and mitred cuts are quickly set up using the swivelling headstock with pre-set detents for 45 and 90 degrees. This is a heavy, precision-built machine for long life and smooth vibration-free running.

*N.B. Work supports (see SF-ROLLERSTANDS in prices below) must be used for long pieces to stop tipping.*

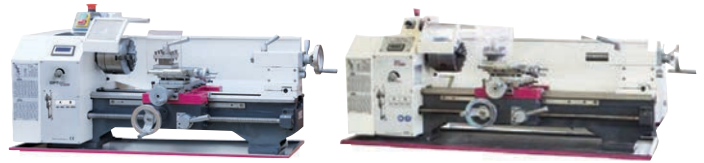
Specification	ECS250	ECS315
Blade Diameter:	250mm	315mm
Cut Capacity Solid Rod:	30mm Diameter	50mm Diameter
Cut Capacity Round Tube:	75mm Diameter	100mm Diameter
Cut Capacity Square Tube:	65 x 65mm	82 x 82mm
Cut Capacity Rectangular Tube:	90 x 50mm	110 x 70mm
Motor:	0.75kW (1hp)	1.50kW (2hp)
Motor Speed:	45rpm (1ph), 45/90rpm (3ph) - 2 speed	44/88rpm - 2 speed
Coolant Pump:	90W	
Coolant Tank:	2 Litres	5 Litres
Weight:	131kg	175kg
Dimensions:	960(W) x 940(D) x 1570(H)mm	1020(W) x 990(D) x 1830(H)mm
Power Requirements:	240V 0.75kW or 415V 0.75kW Lockable rotary isolator	415V 1.50kW Lockable rotary isolator
Warranty:	UK Mainland: 1 Year On-Site Elsewhere: 1 Year Return and Collect	

#### Standard Accessories:

Machine Stand, Coolant System, High Speed Blade, Quick Action Vice.

Prices £*		*See Pricing Information on page 2
MM-CIRCSAWM1KFT	ECS 250 Metal Cutting Circular Saw (3 phase) + Keyswitch + Emergency Foot Stop	
MM-CIRCSAWM1KFS	ECS 250 Metal Cutting Circular Saw (1 phase) + Keyswitch + Emergency Foot Stop	
MM-CIRCSAWM2KF	ECS 315 Metal Cutting Circular Saw (3 phase) + Keyswitch + Emergency Foot Stop	
<b>Spare Blades</b> (one blade included with machine)		
MT-BM-BL6	250mm Dia. Spare Blade for MM-CIRCSAWM1	
MT-BM-BL7	315mm Dia. Spare Blade for MM-CIRCSAWM2	
SF-ROLLERSTANDS	Height Adjustable Roller Stand. (1000 x 400 x 650-950mm)	

### TU2304V/TU2406V Variable Speed Metal Lathes



MM-METALLATHE44

MM-METALLATHE43

Optional  
Stand

Optional  
Stand

Emergency Foot Stop  
supplied as standard

Emergency Foot Stop  
supplied as standard

These light duty lathes will be ideal in a multi-materials workshop where metal-turning needs to be among the many facilities available for students. Several of these would provide a cost-effective, space-saving solution in a training environment where demand is high but space is limited. Compact and generously equipped, they provide all the key capabilities needed for surfacing, facing and screw-cutting in steel and non-ferrous alloys. Both machines include all necessary guards, stops and interlocks to make them suitable for educational use.

Specification	TU2304V	TU2406V
Distance Between Centres:	450mm	550mm
Swing Over Bed:	230mm	250mm
Spindle Speeds:	150-2200rpm	150-2500rpm
Tailstock Taper:	2MT	2MT
Motor:	0.75kW	1.1kW
Weight:	114Kg	125Kg
Dimensions:	960(W) x 590(D) x 510(H)mm	1310(W) x 520(D) x 560(H)mm
Power Requirements:	240V 0.75kW, Lockable rotary isolator	240V 1.1kW, Lockable rotary isolator
Warranty:	UK Mainland: 1 Year On-Site Elsewhere: 1 Year Return and Collect	

#### Standard Accessories:

Interlocked Chuck Guard, Leadscrew Guard, Machine Tray, Rear Splash Guard, Change Gear Kit, 3-Jaw Chuck - 100mm, MT2 Steady Centre, MT3 Steady Centre

Prices £*		*See Pricing Information on page 2
MM-METALLATHE44F	TU2304V Variable Speed Metal Lathe (1 phase) 230 x 450mm c/w Emergency Footstop and fitted leadscrew cover	
MM-METALLATHE43F	TU2406V Variable Speed Metal Lathe (1 phase) 250 x 550mm c/w Emergency Footstop and fitted leadscrew cover	
<b>Recommended Tooling Pack</b> This Tooling Pack provides a useful selection of tools and accessories to "get you going".		
MT-LM-PK78	Tooling Pack for MM-METALLATHE43/44. (Includes Quick Change Toolpost; Live Centre; Keyed Drill Chuck and Arbor; Indexable tools 12mm - 60deg RH, 60deg LH, vee, boring + blade- type parting tool)	
MT-LM-TTS50	External Threading Tool 12mm	
<b>Recommended Extras</b>		
MM-METALLATHE43C	2 Axes Digital Read Out fitted to MM- METALLATHE43/44*	
MM-METALLATHE43A	Stand for MM-METALLATHE43/44	

\* Must be fitted at time of purchase

### Optimum TH3309D & TH3610D Metal Lathes



These heavy duty, well engineered, quality machines will more than meet all the turning needs for Design and Technology work at KS3, A level, and beyond. All machines feature heavily ribbed beds with hardened and ground vee guide ways. They are supplied with power feed on both axes, coolant and a large brake/stop pedal.

The education versions of these machines, supplied by TechSoft, include all necessary guards, stops and interlocks to make them suitable for educational use.

Specification	TH3309D	TH3610D
Distance Between Centres:	830mm	980mm
Swing Over Bed:	329mm	356mm
Digital Readout:	2 Axis	
Coolant System:	Inbuilt	
Spindle Speeds:	70-2000rpm	
Tailstock Taper:	3MT	3MT
Powerfeed:	X and Z axis	
Motor:	1.5kW (2hp)	1.5kW (2hp)
Weight:	495kg	690kg
Dimensions:	1690(W) x 750(D) x 1590(H)mm	1930(W) x 730(D) x 1620(H)mm
Power Requirements:	415V 1.5kW Lockable rotary isolator	
Warranty:	UK Mainland: 1 Year On-Site Elsewhere: 1 Year Return and Collect	

#### Standard Accessories:

2 Axis Digital Readout, In-built Coolant, Machine Light, Interlocked Chuck Guard, Leadscrew Guard, 3-Jaw Chuck, 4-Jaw Chuck, 250mm Faceplate, Fixed Steady, Travelling Steady, MT3 Dead Centre, MT5-MT3 Sleeve.

Prices £*		*See Pricing Information on page 2
MM-METALLATHE15T	Optimum Lathe TH3309D (3 phase)	
MM-METALLATHE16T	Optimum Lathe TH3610D (3 phase)	
<b>Recommended Tooling Pack</b>		
This Tooling Pack provides a useful selection of tools and accessories to "get you going".		
MT-LM-PK76	Tooling Pack for MM-METALLATHE15/16 (Includes quick change toolpost with 4 standard, 1 vee and 1 Morse taper tool holder, live centre, keyed drill chuck and arbor, indexable tools 12mm - 60 deg RH, 60 deg LH, vee, boring + blade-type parting tool)	
MT-LM-TTS50	External Threading Tool 12mm	
<b>Recommended Extras</b>		
MT-LM-TTA22	Taper Turning Attachment for TH3309D*	
MT-LM-TTA21	Taper Turning Attachment for TH3610D*	

\* Must be fitted at time of purchase

### Optimum TH4010D Metal Lathe



This industrial-quality, large capacity lathe is designed for heavy use and is ideal for colleges and schools with an Engineering specialism where precision work with high throughput is a daily requirement. The lathe is equipped with a powerful two stage 1.5/2.4 kW motor and a robust mechanical gearbox offering a stepped speed range from 45 to 1800rpm. The TH4010D is supplied with power feed on both axes, coolant and a large brake/stop pedal.

The education versions of these machines, supplied by TechSoft, include all necessary guards, stops and interlocks to make them suitable for educational use.

Specification	TH4010D
Distance Between Centres:	1000mm
Swing Over Bed:	410mm
Digital Readout:	2 Axis
Coolant System:	Inbuilt
Spindle Speed:	45-1800rpm
Tailstock Taper:	3MT
Powerfeed:	X and Z Axis
Motor:	2.4kW (3.2hp)
Weight:	850kg
Dimensions:	1920(W) x 740(D) x 1560(H)mm
Power Requirements:	415V 2.4kW, Lockable rotary isolator
Warranty:	UK Mainland: 1 Year On-Site Elsewhere: 1 Year Return and Collect

#### Standard Accessories:

2 Axis Digital Readout, In-built Coolant, Machine Light, Interlocked Chuck Guard, Leadscrew Guard, 3-Jaw Chuck, 4-Jaw Chuck, 250mm Faceplate, Fixed Steady, Travelling Steady, MT3 Dead Centre, MT5-MT3 Sleeve.

Prices £*		*See Pricing Information on page 2
MM-METALLATHE42	Optimum Lathe TH4010D (3 phase)	
<b>Recommended Tooling Pack</b>		
This Tooling Pack provides a useful selection of tools and accessories to "get you going".		
MT-LM-PK77	Tooling Pack for MM-METALLATHE42 (Includes quick change toolpost with 4 standard, 1 vee and 1 Morse taper tool holder, live centre, keyed drill chuck and arbor, indexable tools 16mm - 60 deg RH, 60 deg LH, vee, boring + blade-type parting tool)	
MT-LM-TTS51	External Threading Tool 16mm	
<b>Recommended Extras</b>		
MT-LM-TTA23	Taper Turning Attachment for TH4010D*	

\* Must be fitted at time of purchase