

The Exel CNC TL-160 CNC Tube Laser Cutter is a high-performance fiber laser cutting system designed for precise processing of round, square and rectangular tube. With support for tube lengths up to 6000mm and diameters up to Ø160mm, it delivers fast, accurate cutting for modern fabrication environments.

Built on a heavy-duty welded machine bed and driven by Delta servo motors, the TL-160 delivers structural rigidity with smooth motion control for consistent, repeatable tube processing.



Model	Laser Power	Price (3m)	Price (6m)
TL-160	1.5kW	£19,995	£22,995
TL-160	3kW	£22,995	£25,995

Available in 3m and 6m tube configurations. Prices exclude VAT.

Why Choose the TL-160?

- Tube capacity up to Ø160mm
- 3m and 6m machine options
- Automatic focusing fiber laser head – consistent cutting performance across materials
- Dual pneumatic rotary chuck system – secure tube clamping and precise rotation
- Automatic tube support system – prevents sagging during longer cuts
- High-precision servo motion control – smooth movement and accurate positioning
- Heavy-duty welded machine frame – built for stability and long-term reliability

TYPICAL APPLICATIONS:

- Metal furniture manufacturing
- Structural steel fabrication
- Automotive components
- Agricultural machinery
- Tube fabrication
- Architectural metalwork
- Engineering components
- Structural frames


SUITABLE MATERIALS

- Mild steel tube
- Stainless steel tube
- Carbon steel
- Aluminium tube
- Galvanised steel
- Copper & brass (application dependent)

TL-160 CNC TUBE LASER CUTTER

Standard Technical Specifications

UK
Support 

2 Year
Warranty 

Machine & Performance

- Tube Length Capacity: 3000mm / 6000mm
- Round Tube Capacity: Ø10 – Ø160mm
- Square Tube Capacity: 160 × 160mm
- Maximum Linkage Speed: 60m/min
- Maximum Acceleration: 0.6G
- Positioning Accuracy: ±0.03mm
- Repositioning Accuracy: ±0.02mm
- Machine Structure: Heavy-duty welded steel bed

Laser System

- Laser Type: Fiber
- Laser Source: Raycus CE
- Laser Power Options: 1.5kW / 3kW
- Control System: Tube Laser CNC Control
- Supported Formats: CAD, DXF and other standard files

Drive & Motion System

- Servo Motors: Delta Servo Drives
- Transmission: Rack & Pinion System
- Linear Guide Rails: Precision square rail guides
- Rotary Chuck System: Dual pneumatic chuck

Installation Requirements

- Power Supply: 3-phase
- Operating Temperature: 0–40°C
- Humidity: <80% (no condensation)

Warranty

- 2 Year Warranty

What's Included

- TL-160 CNC Tube Laser Cutter
- Raycus Fiber Laser Source
- Industrial CNC Control System
- Delta Servo Motors & Drives
- Electrical Cabinet Air Conditioning
- Automatic Tube Support System
- Starter consumables

SCAN HERE



All prices exclude VAT. Prices correct at time of publication and may vary depending on specification.

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