



Datasheet

Mercury-4E



Precision Laser Wire Stripping System

Laser Wire Solutions' Mercury-4E laser wire stripper is an extended version of the highly popular Mercury-4 model, allowing for a greater number of wires to be processed at any one time.

The Mercury-4E is an excellent multi-purpose tool for any precision wire stripping requirements. Designed with cost in mind for general purpose stripping of performance electronics.

Unlike conventional laser wire strippers, the Mercury-4E utilizes high speed double-sided galvo-scanner technology. This allows high accuracy positioning of the laser beam at unprecedented speeds.

Compact

Smallest footprint laser wire stripper on the market: 6" x 14" (152mm x 355mm) and can be easily retrofitted into existing production lines.

Clean and Precise

Nick-free stripping, with +/- 0.004" (0.102mm) repeatability for the best quality every time. In-built camera allows the whole process to be monitored.

Versatile

Strips single conductor, coax and ribbons; 0.0010mm² to 16mm² (50 AWG to 6 AWG). All insulations. With dual (X & Y) axis motion it handles all strip types: cross-cut, windows and area ablation; and any shapes.

Key Features

- Compact bench top system
- Built-in camera allows the whole process to be monitored
- Up to 2000 mm per second stripping speed

Key Applications

- Easy configuration for end-strips, window cuts, slits or even area vaporization
- Strips wires and shielded cable ranging from 0.025 mm to 6 mm outer diameter
- Suitable for bonded and shielded materials

Suitable Materials

- All polymer insulations
- Fluoropolymers, such as PTFE, ETFE, PFA
- Polyethylene
- Nylon
- Silicone
- PVC
- Rubber
- Mylar
- Fiberglass
- Polyurethane
- Polyester

Laser

<ul style="list-style-type: none">• Type• Wavelength• Power	<ul style="list-style-type: none">• Integrated CO2• 10.6µm• 20, 30 or 40W available
---	---

Processing

<ul style="list-style-type: none">• Processing Area• Processing Speed• Processing Length• Wire Diameters	<ul style="list-style-type: none">• 50x50mm (2"x2")• Up to 2m/s (80"/s)• Up to 50mm (2")• Up to 6mm (0.24")
---	--

User Interface

<ul style="list-style-type: none">• HMI• Control Device• Diagnostics• Process Triggering Options	<ul style="list-style-type: none">• Integrated Touchscreen• Integrated PC with Laser Wire Software• On board diagnostics• HMI or Foot Switch
---	---

Safety

<ul style="list-style-type: none">• Overall Machine Rating• Laser Rating• Emergency Stop	<ul style="list-style-type: none">• Class 1 (As per EN60825-1:2007)• Class 4• Yes
--	---

Operating Conditions

<ul style="list-style-type: none">• Environment• Temperature• Humidity	<ul style="list-style-type: none">• Light duty, industrial environment• 15.5 – 32oC (60 – 90oF)• 20 – 80%, Non-Condensing
--	---

Electrical

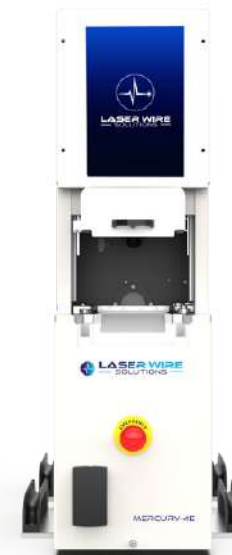
<ul style="list-style-type: none">• Power• Power Consumption (Typical)	<ul style="list-style-type: none">• 230V, 50Hz, 6A or 115V, 60Hz, 13A. Single phase supply• 1.5kW
---	--

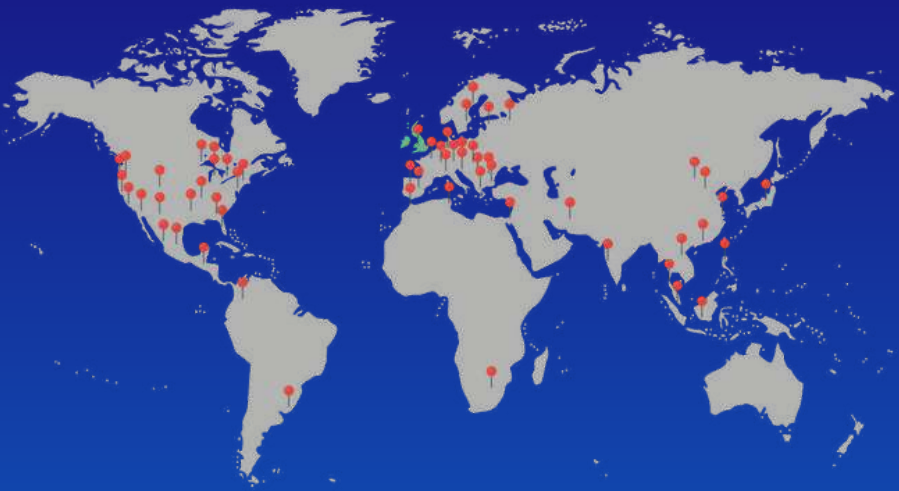
Acoustic Noise

<ul style="list-style-type: none">• Machine• Fume Extractor (Optional)	<ul style="list-style-type: none">• 65dB(A)• 75dB(A)
---	---

Mechanical

<ul style="list-style-type: none">• Dimensions (LxWxH)<ul style="list-style-type: none">◦ Laser Processing Unit◦ Electrical Cabinet• Umbilical Length (m)• Weight<ul style="list-style-type: none">◦ Laser Processing Unit◦ Electrical Cabinet	<ul style="list-style-type: none">• 500 x 150 x 560 mm (20 x 6 x 22")• 250 x 400 x 500 mm (10 x 16 x 20")• ≥1.5 meters• 25kg (55lbs)• 25kg (55lbs)
--	--





We Have A Global Footprint

With our partners, distributors, and customers located across Europe, North America and Mexico, our expert team is well prepared to help you find the right solution for your precision wire stripping needs.

Get in Touch Today

+44 1443 841 738

sales@laserwiresolutions

www.laserwiresolutions.com

Mercury-4E



SAFETY INFORMATION

Please read the instruction manual carefully in order to safely operate any Laser Wire Solutions products.

The information contained in this publication is based on Laser Wire Solutions' internal research and evaluation at the time of release and is subject to change without notice. Specifications are expressed in metric units.