



Datasheet

Mercury-2



Precision Laser Wire Stripping System

Laser Wire Solutions' Mercury-2 benchtop laser wire strippers provide a robust and highly flexible method for stripping a variety of polymer insulated wires and ribbons, ranging in size from 0.025 mm – 5 mm (0.001" – 0.2").

Featuring carbon dioxide laser technology, the Mercury-2 laser wire strippers vaporize any polymer insulation cleanly and precisely, whilst harmlessly reflecting from the shield or conductor—giving a perfect, nick-free strip every time.

The Mercury-2 features dual axis (X & Y) motion, which allows slitting along the wire as well as the wire ends. This makes the job of peeling back a long jacket, or making a window a simple process.

Compact

A small footprint laser wire stripper at 620 x 720 mm which can be easily retrofitted into existing production lines.

Fast and Precise

Up to 250 mm (10") per second stripping stage speed to maximize your production. +/- 0.1 mm laser repeatability for the best quality every time.

Versatile

52 AWG to 6 AWG, single conductor, coax and ribbons. All polymer insulations. A large 5" x 7" (127 mm x 178 mm) working area allows multiple wires to be stripped simultaneously.

Key Features

- Compact bench top system
- Fast processing time
- A standard fixture plate to position wires

Key Applications

- Dual axis (X & Y) motion allows cross-cuts, window strips, cross-cuts with slits (for easy jacket removal).
- Dual laser focus nozzles to give a 360 degree strip around the wire

Suitable Materials

- All polymer materials
- 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• 30W or 55W available
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Processing

<ul style="list-style-type: none">• Processing Area• Processing Speed• Processing Length• Wire Diameters	<ul style="list-style-type: none">• 127x178mm (5" x 7")• 250m/s (9.84"/s)• Up to 125mm (5")• Up to 5mm (0.2")
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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
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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
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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
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Electrical

<ul style="list-style-type: none">• Power• Power Consumption (Typical)	<ul style="list-style-type: none">• 230V, 5A or 115V, 10A Single phase supply• 1.5kW
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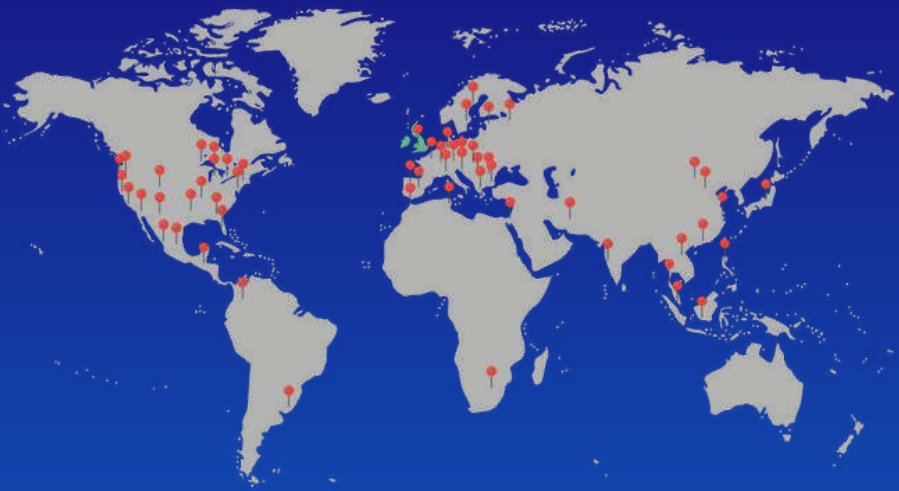
Acoustic Noise

<ul style="list-style-type: none">• Machine• Fume Extractor (Optional)	<ul style="list-style-type: none">• ~69dB(A)• ~75dB(A)
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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">• 620 x 720 x 1000 mm• N/A• > 1.5M • 100kg (220lbs)• N/A
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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.

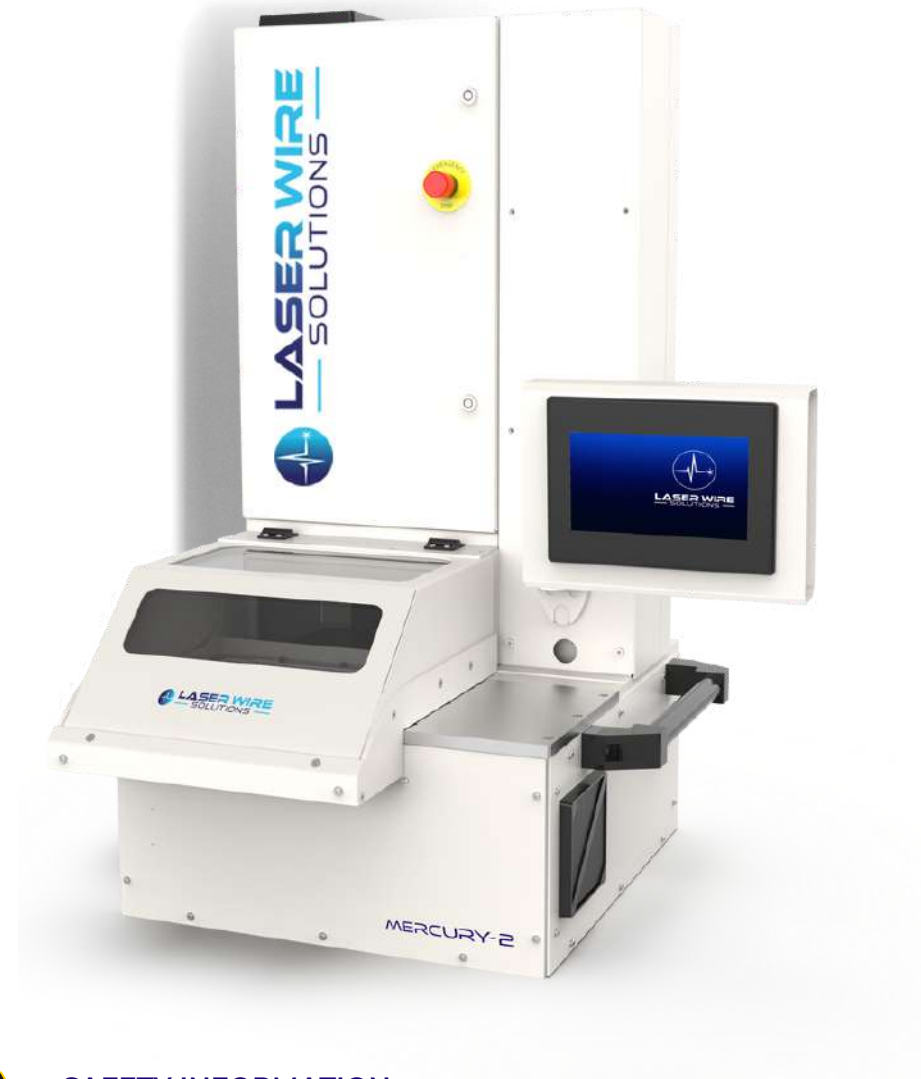
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Mercury-2



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.