



Datasheet

# Mercury-5



## Precision Laser Wire Stripping System

Laser Wire Solutions' Mercury5 benchtop laser wire strippers identify a gap in the market for a laser method of stripping large gauge wires. They offer a breakthrough in terms of price and stripping performance.

The Mercury-5 is designed to cross-cut and slit jackets and insulation of single conductor cables with an outer diameter of between 6mm and 20mm, with a slitting length of up to 280mm. It grips, strips, and releases the cable with a unique auto-focusing system that enables speed and repeatability.

The distinct advantage of the Mercury-5 is the auto-focus feature which allows for an immediate change-over of different wire diameters.

### Compact

A small footprint laser wire stripper at 650 x 350 x 580 mm which can be easily retrofitted into existing production lines.

### Fast and Precise

Fast loading of single wires / cables with is easily achieved with auto immediate change-over between wire sizes

### Versatile

The Mercury-5 strips single conductor cables with outer diameters ranging between 6mm (0.79"). Smaller wires down to 2 mm (0.08") (0.24") and can be processed using a custom wire guide.

## Key Features

- Automatic cable centralizer to ensure repeatability
- Nick-free stripping
- Compact size

## Key Applications

- Ideal for large gauge wires
- Up to 280mm strip length
- Cross cut, window cut, slit and more options available

## Suitable Materials

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

### Laser

<ul style="list-style-type: none"><li>• Type</li><li>• Wavelength</li><li>• Power</li></ul>	<ul style="list-style-type: none"><li>• Integrated CO2</li><li>• 10.6<math>\mu</math>m</li><li>• 30 or 40W available</li></ul>
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### Processing

<ul style="list-style-type: none"><li>• Processing Area</li><li>• Processing Speed</li><li>• Processing Length</li><li>• Wire Diameters</li></ul>	<ul style="list-style-type: none"><li>• Single Wire</li><li>• Up to 1m/s (3.94"/s)</li><li>• &gt;15mm up to 280mm (11")</li><li>• 6mm to 20mm</li></ul>
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### User Interface

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

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

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

<ul style="list-style-type: none"><li>• Power</li><li>• Power Consumption (Typical)</li></ul>	<ul style="list-style-type: none"><li>• 230V, 50Hz, 4A or 115VV, 60Hz, 8A Single phase supply</li><li>• 1kW</li></ul>
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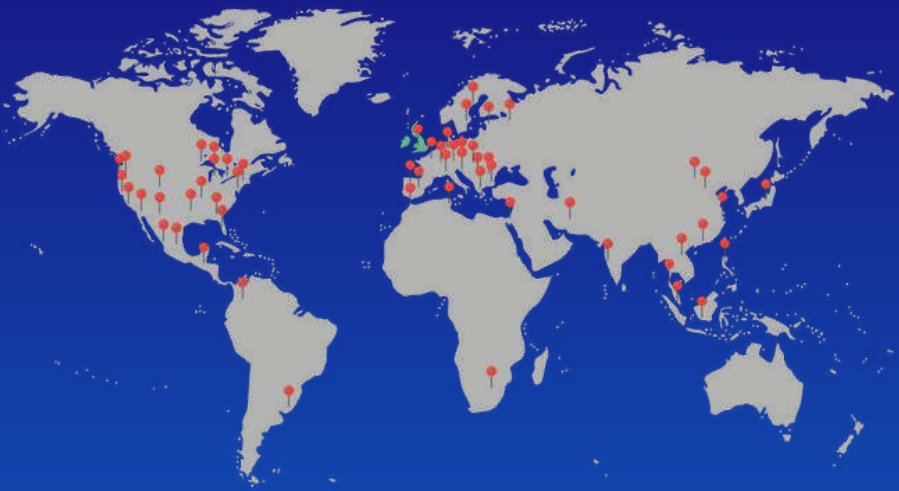
## Acoustic Noise

<ul style="list-style-type: none"><li>• Machine</li><li>• Fume Extractor (Optional)</li></ul>	<ul style="list-style-type: none"><li>• ~69dB(A)</li><li>• ~75dB(A)</li></ul>
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## Mechanical

<ul style="list-style-type: none"><li>• Dimensions (LxWxH)<ul style="list-style-type: none"><li>◦ Laser Processing Unit</li></ul></li><li>• Umbilical Length (m)</li><li>• Weight<ul style="list-style-type: none"><li>◦ Laser Processing Unit</li></ul></li></ul>	<ul style="list-style-type: none"><li>• 650 x 350 x 580mm</li><li>• &gt; 1.5M</li><li>• 45kg (95lbs)</li></ul>
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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.

## Get in Touch Today

+44 1443 841 738

[sales@laserwiresolutions](mailto:sales@laserwiresolutions)

[www.laserwiresolutions.com](http://www.laserwiresolutions.com)

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### 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.