



Datasheet

# Mercury-4



## Precision Laser Wire Stripping System

The Mercury-4 laser wire strippers offer a breakthrough in terms of both price and stripping performance. It has been designed with cost in mind for general purpose stripping of performance electronics.

The interchangeable door fixtures allow for a quick change-over from single strip to multiple strip wires and the in-line option can be programmed quickly and used with an external dereeler and controller.

Any strip pattern can be accommodated, including angled lines, curves, windows, cross-cuts and slits to perfectly match your cable layout.

### 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; 0.0010mm<sup>2</sup> to 16mm<sup>2</sup> (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
- Fast processing time
- Interchangeable door fixture

## Key Applications

- Removing jackets from shielded multi-conductor cables
- Removing jackets and dielectrics from high performance microwave cables
- Cutting aluminized mylar foils of twin-ax cables
- Removing bonded insulations

## Suitable Materials

- Fluoropolymers, such as PTFE, ETFE, PFA
- Polyethylene
- Nylon
- 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>• 10.6µm</li><li>• 20, 30 or 40W available</li></ul> |
|---|---|

## 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>• 50x50mm (2"x2")</li><li>• Up to 2m/s (80"/s)</li><li>• Up to 50mm (2")</li><li>• Up to 6mm (0.24")</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> |
|--|---|

## 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> |
|--|---|

## Electrical

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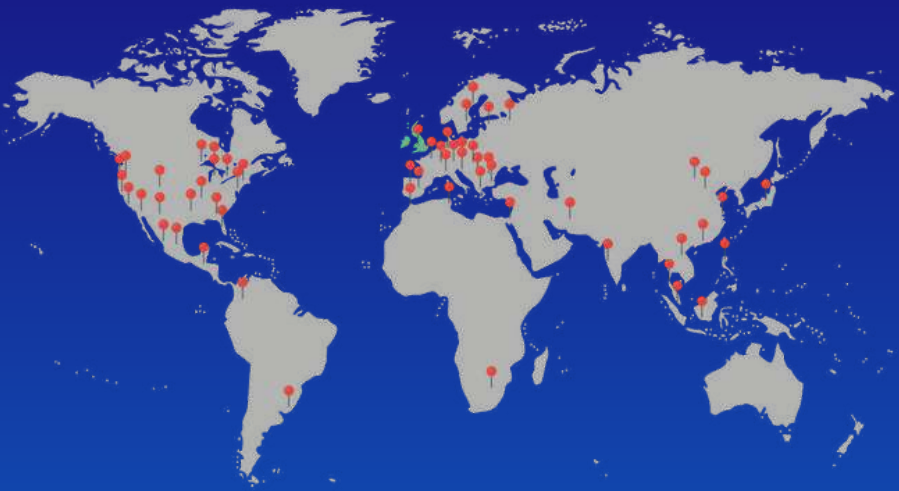
## Acoustic Noise

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

## Mechanical

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





## 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

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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.