



Datasheet

Mercury-6



Precision Laser Wire Stripping System

The Mercury-6 is an industrially sealed carbon dioxide rotary laser stripping machine customized for the stripping of multi-layer cables up to an outer diameter of 1.18" (30 mm). It can strip the Coroplast outer insulation and the Mylar foil inner insulation of electric vehicle cables.

The Mercury-6's 2D optical system features a rotary and linear axis for circumference cut and longitudinal slit, up to a maximum length of 7.84" / 200 mm. It also has a unique cable end finding system to ensure accurate wire lengths are processed.

The optics head has independent, auto-adjust focus to allow for changes in cable diameter at the push of a button.

Compact

The bench-top unit can be operated from a sitting position with space for other tools and parts.

Fast and Precise

Perfect, nick-free stripping with no damage to the underlying conductor or shield. Unique cable end locating system for accurate length processing.

Versatile

The Mercury-6 has the capability to strip single multi-layer conductor cables, such as outer Coroplast insulation and inner Mylar foil on electric vehicle cables.

Key Features

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

Key Applications

- Ideal for large gauge wires
- Up to 200mm 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">• Type• Wavelength• Power	<ul style="list-style-type: none">• Integrated CO2• 10.6µm• 40W 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">• Single Wire• Up to 250m/s (9.84"/s)• >15mm up to 200mm (7.84")• Up to 30mm (1.84")
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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 3• 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, 50Hz, 4A or 115VV, 60Hz, 8A Single phase supply• 1.2kW
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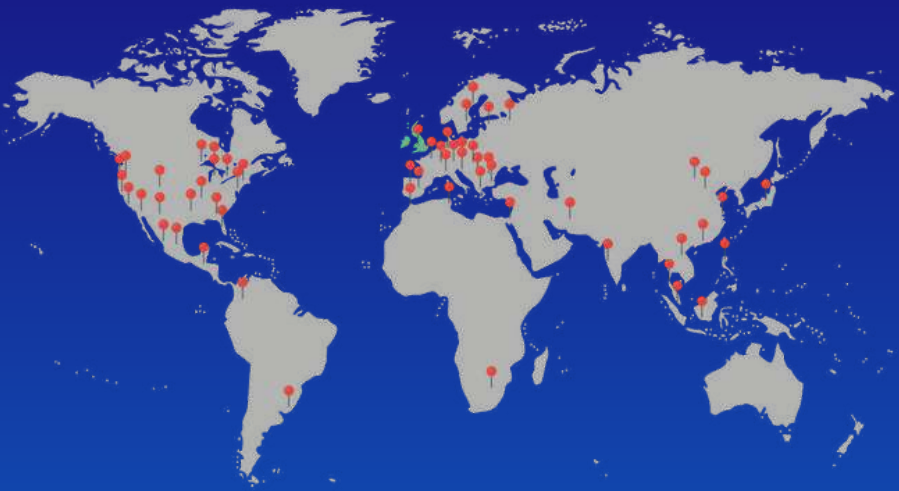
Acoustic Noise

<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• Umbilical Length (m)• Weight<ul style="list-style-type: none">◦ Laser Processing Unit◦ Electrical Cabinet	<ul style="list-style-type: none">• 650 x 350 x 580mm• > 1.5M• 75kg (165lbs)• 35kg (77lbs)
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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.