



Datasheet

# Gemini-2



## Precision Laser Wire Stripping System

The Laser Wire Solutions Gemini-2 laser shield cutters are an excellent tool for any precision shield cutting.

Featuring fiber laser technology, the Gemini strippers vaporize a small volume of shield material cleanly and precisely. For most polymer insulation the laser light harmlessly reflects from it.

The Gemini system is ideally suited to cutting aluminized mylar foil and micro-coax shields.

For more susceptible dielectrics, apply solder to the shield and partially cut through the shield to allow it to be snapped.

### 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 (9.84") per second stripping stage speed for working with the thinnest cables. +/- 0.1 mm (0.004") repeatability for the best quality every time.

### Easy to Use

The system can be controlled via a footswitch and touchscreen from a sitting position for easy of use for the operator.

## 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"><li>• Type</li><li>• Wavelength</li><li>• Power</li></ul>	<ul style="list-style-type: none"><li>• Integrated Fiber Laser</li><li>• 1.06<math>\mu</math>m</li><li>• 30 or 50W 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>• 127x178mm (5" x 7")</li><li>• 250mm/s (9.84"/s)</li><li>• Up to 125mm (5")</li><li>• Up to 2.5mm (0.1")</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>• 115V, 10A or 230V, 5A. Single phase supply</li><li>• 1.5kW</li></ul>
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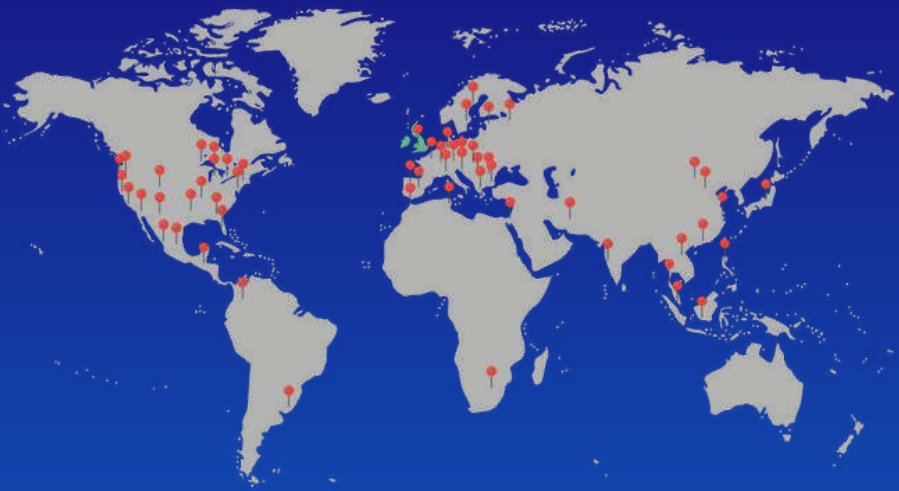
## Acoustic Noise

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

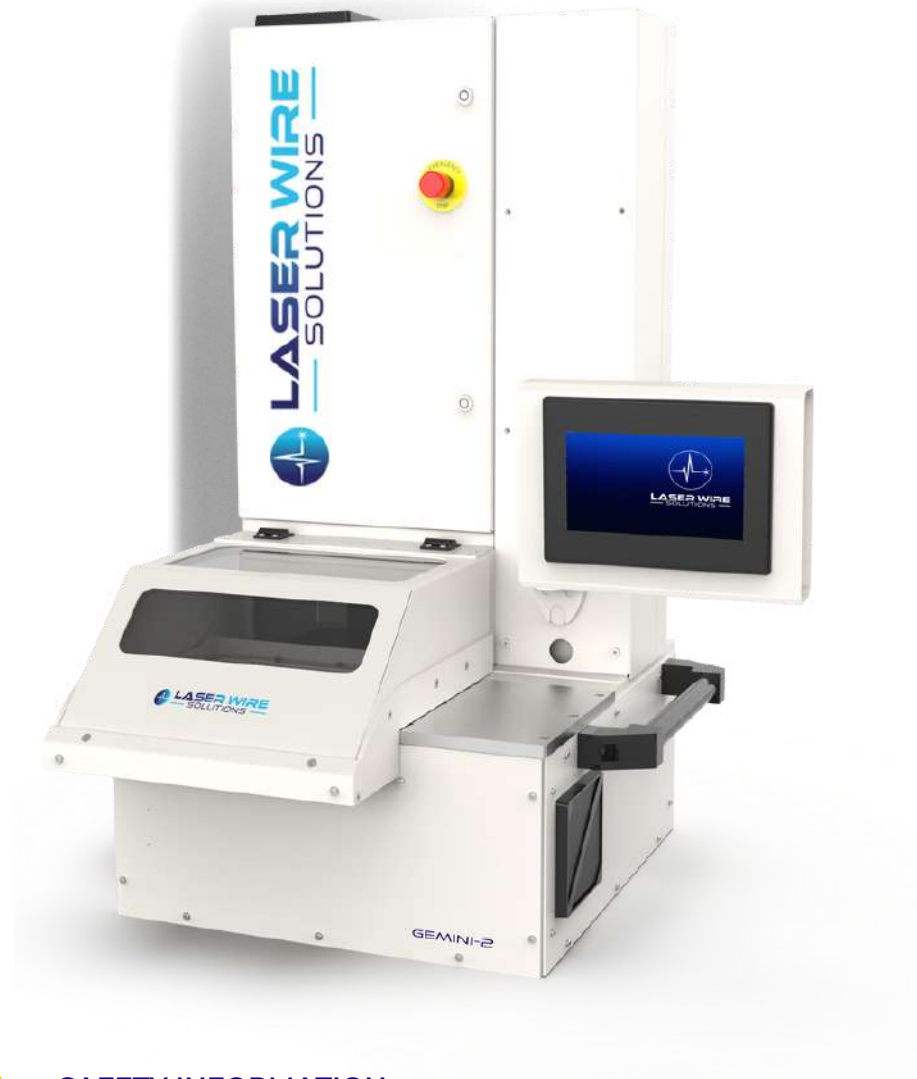
## Get in Touch Today

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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.