

# MERCURY-5

## Precision Laser Wire Stripping Systems



**High performance | Low cost | Compact | Flexible**

# MERCURY-5

Laser Wire Solutions' Mercury-5 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 both price and stripping performance.



*A ring slit on a 15 mm (0.59") Coroplast cable*



*Large round black cable with multiple slits*

## Technology

The Mercury-5 is designed to cross-cut and slit jackets and insulation of single conductor cables with an outer diameter of between 6 mm (0.24") and 20 mm (0.79") and with a slitting length of up to 280 mm (11"). 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 its auto-focus feature which allows for an immediate change-over of different wire diameters.



*Coroplast cable cleanly stripped using the Mercury-5 laser stripper*

## Features & Benefits

**Size:** compact benchtop unit that can be easily retro-fitted into existing production lines.

**Versatile:** strips single conductor cables with outer diameters ranging between 6mm (0.24") and 20 mm (0.79"). Smaller wires down to 2 mm (0.08") can be processed using a custom wire guide.

**Reliable:** proven laser source and optics.

**Clean and precise:** nick-free stripping with no damage to the underlying conductor.

**Flexible and fast:** fast loading of single wires / cables with auto-focus system to enable immediate change-over between wire sizes.

**Ease of use:** operator selects via a touchscreen the desired stripping parameters (strip lengths, laser power and speed, etc).

## Specifications

Element	Mercury-5
<b>Operating environment</b>	Light duty, industrial environment. Cleanliness as a typical office. Bench mounted.
<b>Operating temperature</b>	60 to 90 degrees Fahrenheit (15.5° to 32°Celsius), 20-80% humidity (non-condensing).
<b>Electrical power</b>	230V - 50 Hz, 4 Amps (Europe) 115V - 60 Hz, 8 Amps (USA)  Single phase supply, earthed and stable (spike and surge protected).
<b>Compressed air</b>	None.
<b>Processed material</b>	Jacket and large gauge single conductor insulations.  Strip width: minimum outer diameter 6mm (0.24")* and maximum outer diameter 20 mm (0.79"). Smaller wires down to 2mm (0.08") can be processed but will require a custom wire guide.  Strip length: minimum 15 mm (0.59") up to maximum 280 mm (11"). Therefore, maximum window slit length is 265 mm (10.43").  Minimum cable length = maximum required axial strip length plus 200 mm (7.9").
<b>Laser type</b>	Interlocked laser enclosure - Class 1 incorporating continuous wave 30W or 40W Class 4 Carbon Dioxide laser.
<b>Optical system</b>	Focus lenses, 3 beam mirror system with beam expander / collimator.
<b>User control</b>	4.3" PC-based colour touchscreen. Storage for >99 recipes. PC based back-up / restore of recipes. Jobs held in non-volatile on-board memory. On-board diagnostics.
<b>Safety</b>	Class 1 laser system incorporating a Class 4 laser product as per 21 CFR Chapter 1, Subchapter 1, EN60825-1:2007. Category 3 Safety Related Control architecture designed to meet performance level PL4 =d. Dual fail-safe interlocked enclosure with monitoring. Category 0 emergency stop.
<b>Acoustic noise</b>	Machine: 69 db(A) Machine and Fume Extractor: 75 db(A)
<b>Power consumption</b>	1 kW (typical)
<b>Machine dimensions</b>	650 mm x 350 mm x 580 mm 25.5" x 14" x 23" (L x W x H)
<b>Uncrated weight</b>	Bench Unit: 42 kg (95 lbs)

# OUR MARKETPLACE



We serve the global market, both directly and through the local Schleuniger sales network. All of our products comply with the latest US and European safety standards. For a full list of international contacts, visit us at [www.laserwiresolutions.com](http://www.laserwiresolutions.com).

Laser Wire Solutions is a leading provider of laser stripping solutions for the highest quality medical, automotive, consumer electronics, defense and aerospace interconnects. We can support you with proof of principle samples, contract manufacturing services or machine supply, including customization. Check out our [website](http://www.laserwiresolutions.com) for more information.

## Headquarters

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*A key factor in the design of the Mercury-5 has been the quick automatic change-over between wires of variable sizes, from 6 mm (0.24") up to 20 mm (0.79") outer diameter.*

