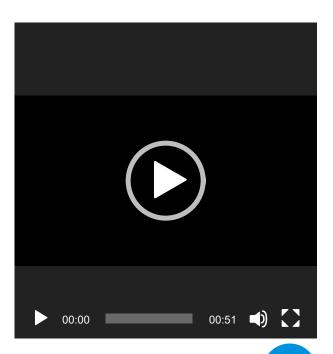








Mercury-4



The Mercury-4 is the culmination of years of research into laser stripping of wires and cables. It has been developed in partnership with Schleuniger and optimized in every way for your production needs. It boasts an array of features:

Features include:

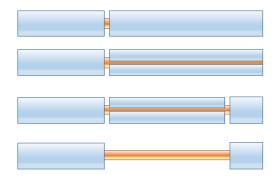
- Low cost / excellent ROI: for its functionality lowest cost model available – opens up a massive range of applications. No laser or machine wear parts.
- Compact: lowest footprint model on the market – use from a sitting position with space for other tools and parts.
- Fast: up to 80" (2000mm) per second stripping speed for fastest processing.
- Versatile: strips single conductor, coax and ribbons; 0.0010mm2 to 16mm2 (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: curves and hatched areas, not just straight lines.
- Flexible: fast loading of single wires /
 cable via a port or use a fixture plate for
 complex multi-conductors or ultra-thin
 wires. In-line stripping operation also
 available.
- Clean and precise: featuring double-sided galvo-scanner technology to allow 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.
- Ease of use: operator selects via touchscreen the desired stripping parameters from the programmed library and all parameters (strip

- lengths, laser power and speed, etc) are automatically set.
- Energy efficient: runs from a standard 115 / 230 V electrical supply with no compressed air requirement.

+ APPLICATION

Strip Types

The Mercury-4 dual axis optics allows flexible wire stripping:



From top to bottom:

- cross-cut: laser separates the slug of insulation - Operator pulls off as a second operation
- slit: laser makes a cross cut but also slits along the insulation to aid peeling off a long length. Especially used for cable jackets
- window: like a slit, but two cross cuts are made to allow a window section of insulation to be removed - used especially for accessing the shield of a cable for attaching to the shield

 area ablation: the laser passes back and forth over the wire multiple times to completely vaporize an area of insulation.

Materials

The Mercury-4 strips wires and shielded cable ranging in size from 0.001" to 0.24" (0.025 mm to 6 mm) outer diameter.

The Mercury-4 is suited to:

- removing jackets from shielded multi-conductor cables
- removing jackets and dialetrics from high performance microwave cables
- cutting aluminized mylar foils of twin-ax cables
- removing bonded insulations.

The laser is strongly absorbed by the wire/cable insulation causing it to melt or vaporize. By stripping from both sides automatically a slug of insulation can be separated from the main wire/cable. Full vaporization can be achieved by passing the laser spot over the wire multiple times at high speed in a hatch pattern. For bonded materials this may be the best method for insulation removal. In the case of shielded cables, the shield needs to be reasonably complete (>80% coverage) in order to protect the inner wire insulation whilst laser cutting the outer jacket.

All polymer insulations can be cut with the Mercury-4 laser. The amount of melt, vaporization or chemical decomposition depends on the exact polymers used. Below is a non-exhaustive list of materials that can be stripped:

- Fluoropolymers, such as PTFE, ETFE, PFA
- Polyethylene
- Nylon
- Silicone
- PVC
- Rubber
- Mylar
- Fiberglass
- Polyurethane
- Polyester

+ SPECS

Technical Data

Min. Outer Cable Diameter	0.025 mn
Max. Outer Cable Diameter	6 mm
Stripping Length Increments	0.1 mm
Strip types	Cross cuts, slits, wir
Max. Stripping Length	50 mr
Speed	Up to 2000 r
Cable Loading	Either single cable port or for holding co
Dimensions (L x W x H)	150 x 400 x 500 r

Enquiries and Sales

To find out more about the Mercury-4 Wire Stripping Machine or your exact requirements, please get in touch with one of our experts today.

CALL US ON: +44(0) 144 384 1738

SEND US A MESSAGE

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