LASER WIRE SOLUTIONS

Mercury-4

Meet the Mercury-4, the most versatile wire stripping machine available on the market. With 4 different wire loading options, the Mercury-4 can be changed to suit your application within minutes. It is suitable for stripping a variety of polymer insulated single conductor, coax and ribbons from 52 AWG to 6 AWG.

The laser-safe enclosure guarantees safety and precision. Say goodbye to wire stripping hassles—say hello to the Mercury-4, your flexible, efficient, and precise wire stripping solution.

Easy to Use, Fast Changeover

- Simple, recipe controlled operation and programming requires minimal training and ensures consistent results.
- Bench top system takes up minimal space within the production line.
- Built in camera to monitor processing.
- Any strip pattern can be accomodated.
- Short cycle time and simple programming ensures efficiency.

Wide Range of Applications

- Controlled processing of single conductor, coax, and ribbons 50 - 6 AWG.
- Suitable for all insulation types.
- Extended option available for a larger processing area.
- Can be used as a stand-alone machine or integrated into an existing line.
- Interchangeable door fixture - single wire, fixture loading, or in-line.
- Extended fixture model available for processing longer strip lengths.

Mercury-4 in-line fixture with Schleuniger MultiStrip 9480. Also compatible with other brands/models.

Sliding Aperture Fixture

Door Fixture

Rotary Indexing Fixture

Single Strip	Hatch	Cross Cut & Strip	Window Cut

Mercury-4 Technical Specifications

Operating Environment	Light-duty Industrial Environment. Cleanliness as a typical office Bench mounted
Operating Temperature	60 to 90 degrees Fahrenheit, 20-80% humidity (non-condensing)
Electrical Power	230V – 50 Hz, 3 Amps (Europe) 120V -60 Hz, 6 Amps (USA) Single-phase supply earthed and stable (spike and surge protected).
Processed Materials	Polymer insulation such as PTFE, ETFE. PVC not to be processed unless agreed in writing. Strip length: zero to 50 mm / 2 inches Strip width: up to 50 mm / 2 inches Diameter: typically, up to 5 mm (0.2 inches) to ensure bottom and top strips join up.
Processing Area	50 x 50 mm (2"x2") on standard model, or 100 x 100 mm (4 x 4") on Mercury-4E
Laser Type	Interlocked laser enclosure – class 1 incorporating a continuous wave class 4 Carbon Dioxide laser
Laser Power Options	20 W, 30 W, or 40 W, our team will recommend the right power for your requirements following a study of your wire.
Optical System	Dual scan heads for stripping top and bottom of cable with shared power between scan heads for simultaneous stripping Dual axis motion 80 inch /s positioning speed maximum 2-inch processing length maximum
User Control	7" Colour touchscreen Storage for unlimited recipes (power, speed, pattern) On board diagnostics Job start via HMI or footswitch
Safety	Class 1 laser system incorporating a Class 4 laser product as per 21 CFR Chapter 1, Subchapter J EN60825-1:2007 Category 3 Safety Related Control architecture designed to meet performance level PLr = d Dual failsafe interlocked enclosure with monitoring Category 0 Emergency Stop
Acoustic Noise	Machine 65 dB(A), Machine and fume extractor 75 dB(A)
Power Consumption	1.5kW (typical)
Machine Dimensions, Weight	6" (w) x 16" (d) x 20" (h) desk unit, 60kgs

As an industry leader in automated wire processing, Laser Wire Solutions delivers cutting-edge solutions to customers around the world.

Our comprehensive portfolio includes top-quality laser wire processing machinery with intelligent software, ensuring safe, flexible, and efficient processes. Our global sales and service network supports customers in maximizing their investments.

For queries contact sales@laserwiresolutions.com