



Mercury-4 Laser Stripping Machine

- High quality, nick-free stripping
- Strips all polymer materials and colors
- Non-contact – no wear parts
- 0.0010 to 16 mm² (50 to 6 AWG)
- Powerful and flexible processing capabilities
- 20 watt CO₂ Laser

STRIPPING

Mercury-4

Function

The Mercury-4 laser wire stripping machine, designed by Laser Wire Solutions, strips wires and cables ranging in size from 0.0010 to 16 mm² (50 to 6 AWG). Using the color touchscreen, the operator selects the desired stripping parameters from the programmed library and all parameters (strip lengths, laser power and speed, etc.) are automatically set. Once the operator selects the required program, the machine is ready for operation. The Mercury-4 can strip cables inserted into the supplied fixture aperture to an end stop, or via a custom fixture plate. A camera allows the whole process to be monitored.

Application Range

- Small gauge single conductors
- Shielded cable jackets
- Multi-conductors – strip all the wires at once
- Bonded insulation
- Flat ribbon cables
- Coaxial cable
- Shielded twisted pairs
- Fiberglass

Options

- Custom designed fixture plates
- Barcode job selection
- Inline cut & strip integration
- Foot pedal
- 30 watt laser
- 40 watt laser
- Inline cut & strip integration - unlimited strip length
- Fume extractor

Technical Specifications	
Conductor Cross-Section	0.0010 to 16 mm ² (50 to 6 AWG)
Raw Material Diameter	Maximum 6 mm (0.24"), other applications upon request
Strip Length	Minimum: 0.5 mm (0.02") Full: Maximum 50 mm (2.0")
Slitting Length	Maximum 50 mm (2.0")
Length Increments	0.1 mm (0.001")
Laser Beam Speed	Up to 80"/s (2,032 mm/s)
Lens	High speed, dual axis galvo scanners
Cycle time	2 s for most materials
Cycle start	Via touchscreen or optional foot pedal
Operation Type	Circumferential strip, linear slit, ablation, any stripping pattern in a 50 x 50 mm (2 x 2") strip area
Raw Material Type	PTFE / Teflon, Tefzel, PVC, Polyurethane, Silicon, Kapton, Polyimide, Polyesterimide, Polyester, Fibreglass, Polyethylene, Nylon
Memory Capacity	Unlimited
Interfaces	USB, external trigger / busy
User Interface	7" color touchscreen
Noise level	< 80 dB (A)
Power supply	100 / 115 VAC, 230 / 240 VAC, 1.5 kW / 50/60 Hz
Dimensions (L x W x H)	500 x 150 x 560 mm (20 x 6 x 22") 250 x 400 x 500 mm (10 x 16 x 20") control cabinet
Weight	20 kg (44 lbs.) Bench unit: 20 kg (44 lbs) control cabinet
CE-Conformity	The Mercury-4 fully complies with all CE, OSHA and FDA guidelines relative to mechanical, electrical and laser safety. Class 1 enclosure incorporating a Class 4 laser product.
Important Note	Schleuniger recommends that wire samples be submitted in cases where there is doubt as to the processing capabilities of a particular machine.