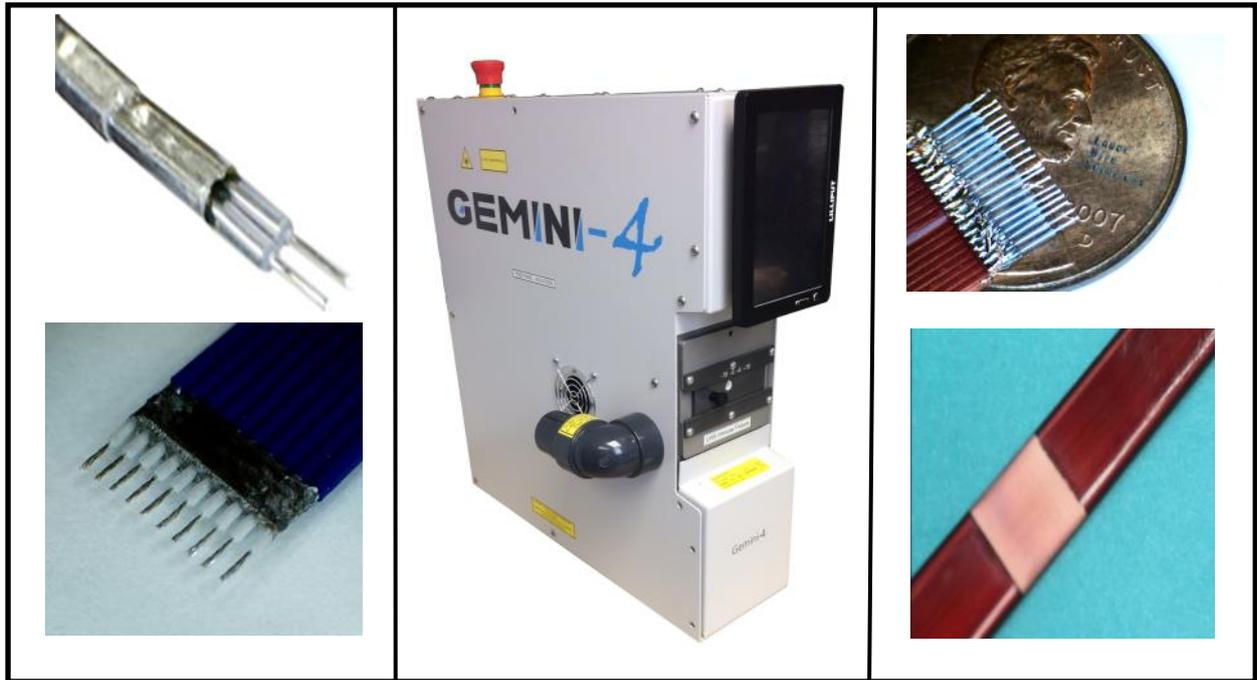


GEMINI-4

Precision Laser Wire Stripping Systems



High performance | Low cost | Compact | Flexible

GEMINI-4

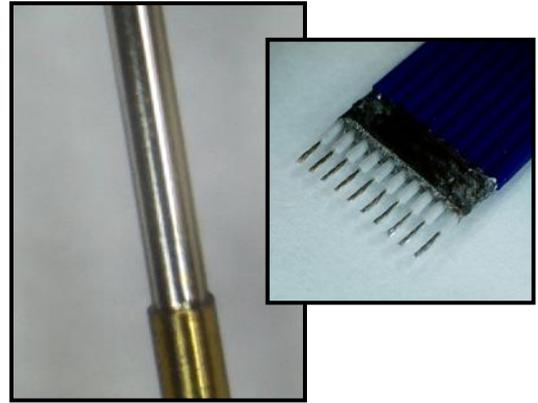
Laser Wire Solutions' Gemini-4 laser wire strippers offer a breakthrough in terms of both price and stripping performance. Equipped with rugged fiber laser technology, the Gemini-4 is the perfect tool for shield cutting or enamel ablation.



Fine wire coil

Technology

Unlike conventional laser wire strippers, the Gemini-4 utilizes high speed double sided galvo-scanner technology. This allows high accuracy of the laser beam at unprecedented speeds. The laser can be simply configured for end-strips, window cuts, slits or even area vaporization



The Gemini-4 is designed for working with one cable at a time. The standard cable guide allows a single wire or cable to be hand-fed into the machine like any mechanical stripper. For very fine wire or complex cables, the standard guide can be quickly swapped for a mini fixture. The Gemini-4 can strip any pattern, including angled lines or curves to perfectly match your cable layout within a 50mmx50mm (2"x2") area.

Features & Benefits

Compact: smallest footprint laser wire stripper on the market: 6" x 14" (152 mm x 355 mm) and can be easily retro-fitted into existing production lines.

Versatile: strips single conductor and ribbons, 0.0003² to 0.0127² (52 AWG to 36 AWG).

Reliable: fixed optics path, proven laser source and optics.

Fast: up to 80" (2000 mm) per second stripping speed for fastest processing.

Clean and precise: nick-free stripping, with +/- 0.004" (0.102 mm) repeatability for the best quality every time. In-built camera allows the whole process to be monitored.

Flexible: fast loading of single wires / cable or use a fixture plate for complex multi-conductors or ultra-thin wires.

Lowest cost of ownership: no laser or machine wear parts.

LASERWIRE
S O L U T I O N S

Specifications

Element	Gemini-4
Laser	Sealed, maintenance-free industrial laser for 24/7/365 operation. Air cooled. - 30 Watts standard - 40, 60, 100 Watts options
Stripping processes	Dual axis motion for: - cross-cuts of foil - cross-cut and slit of foil - area ablation of bonded enamels, such as polyimide, etc.
Processing area	Up to 50 x 50 mm (2 x 2 inches)
Wire Size	No minimum: 50 / 52 AWG stripped without problem Maximum: above 36 AWG wire may need to be rotated to strip a full 360 degrees
Materials processed	- Enamels, polyimide, PEI, PAI etc - Foils - Micro-coax shields
Speed	Maximum: 80" (2000 mm) /s positioning speed maximum Minimum: none
Control	Full color touchscreen interface. Storage for 99 process recipes. Upload and download stripping recipes to and from a laptop via Ethernet for backup. Simple programming wizards—no need for external PC.
Accuracy	+/- 0.004", +/- 0.1 mm
Machine dimensions	Bench Unit: 500 x 150 x 560 mm (20 x 6 x 22") Control Cabinet: 250 x 400 x 500 mm (10 x 16 x 20")
Weight	50 lbs / 22 kg (desk unit)
Facility requirements	115V single phase power, 10 Amps 230V single phase power, 5 Amps Fume extraction for health and safety reasons (HEPA filtered air filter unit is supplied).
Applicable standards	Fully compliant with CE & OSHA requirements. Class 1 laser system. Supplied with full declaration of Conformity. RoHS compliant.
Wire loading	Configurable snap-in wire guide system—either single wire load or mini-fixture for complex cables.

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.

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](#) for more information.

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A key factor in the design of the Gemini-4 has been to minimize the machine footprint on the operator's bench and set the wire load height at an ergonomic level when used from a sitting position. The small bench unit does not dominate the workspace allowing it to be used from a sitting position, with plenty of room for hand tools, wire and finished goods etc.

