



**SPECTRUM  
TECHNOLOGIES**



# Sienna™ 200 Series

**Laser Wire Stripper**

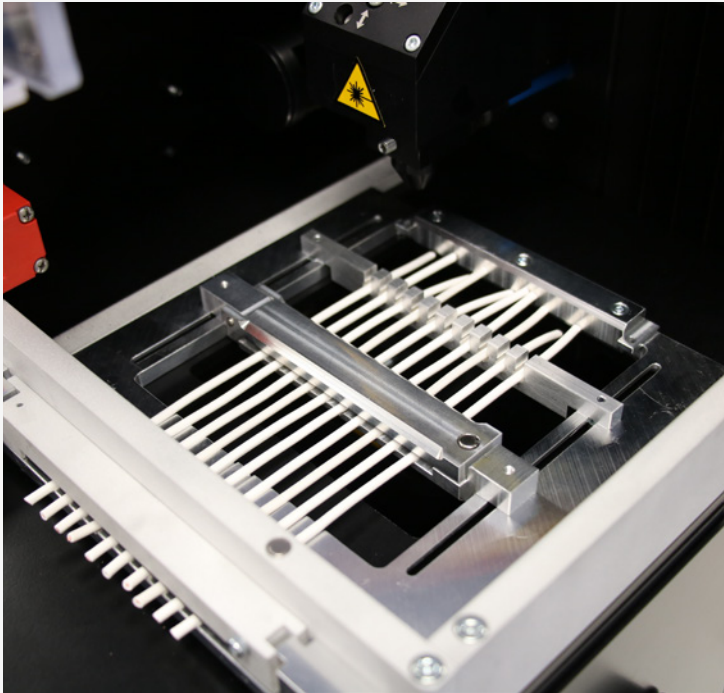
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**Laser Stripping At Its Finest™**

# Sienna 200 Series

## Compact, High-Quality Laser Stripping

The Sienna 200 Series is Spectrum's entry-level dual-beam laser wire stripper designed for precise, damage free processing of wires and cables used in modern electronics. It provides accurate, repeatable results on diverse insulation types and offers safe, easy operation in a bench-top form for consumer, medical, telecoms and other demanding applications.



Sienna 200 Series Processing Area

### Benefits

- **High-Quality, Damage-Free Stripping:** The laser reflects off metallic conductors, ensuring clean insulation removal without harming delicate surfaces.
- **Accurate and Repeatable:** Consistent results across diverse wire types and production runs.
- **Versatile for All Wire Types:** Handles single wires, twisted pairs, coaxial and ribbon cables with ease.
- **Multi-Wire Capability:** Simultaneous batch processing of multiple wires or cables to improve throughput.
- **Effective on Challenging Materials:** Easily strips high-temperature, soft, or hard insulation compounds.
- **Flexible Strip Patterns:** End strips, windows and complex patterns easily completed in one operation.

### Flexible Precision Stripping

The dual-beam configuration processes the wires from above and below, providing 360° stripping, maintaining consistent quality across a range of insulation types. With single-axis linear motion (X or Y), dual-axis (X and Y) and fixed-beam models available, the 200 Series provides flexibility to meet customers' different production needs.

### Compact, Reliable Productivity

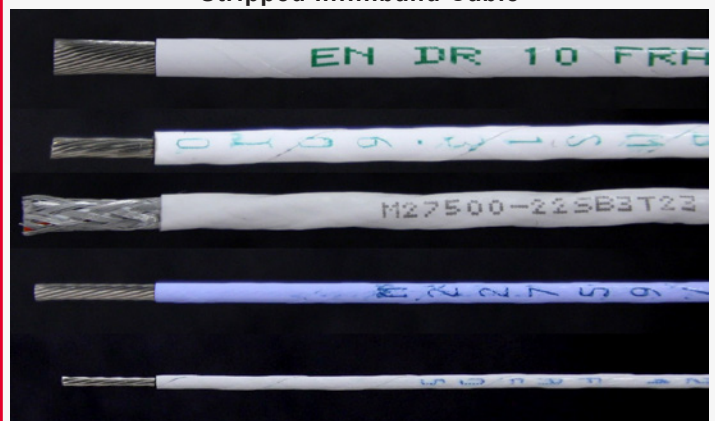
Designed for everyday manufacturing environments, the system's bench-top form factor supports efficient operation with minimal footprint. Integrated controls on single-axis, dual-axis and fixed-beam units allow quick parameter adjustment. Dual-axis versions can be fit with optional PC software to add enhanced programmability and usability.

### Adaptable Handling for Complex Assemblies

The fixed-beam configuration can be combined with a moving external stage, allowing operators to position cables and assemblies freely between the lasers. Handling single wires, multi-core cables or ribbon cables, the 200 Series provides precise, contact-free stripping across many applications.



Stripped Infiniband Cable



Stripped Fluoropolymer Wire and Cable

# Technical Specifications

## STANDARD FEATURES

Model	Sienna 210S	Sienna 210D	Sienna 225FB	
<b>Processing Specifications</b>	Wire size (OD)	< 4.5 mm / < 0.18 in (Optional jig for < 6 mm / 0.24 in)		
	Stripping length	< 101.6 mm / 4 in		
	Processing area	101.6 mm / 4 in (X or Y)	101.6 x 101.6 mm / 4 x 4 in	N/a
	Accuracy	±0.2 mm / 0.008 in		
	Wire type	Single core, twin lead, twisted pairs, multi-conductor, ribbon, coaxial		
	Insulation material	PTFE, ETFE, PVC, PUR, PI, PET, PE, SI, Fibreglass, Nylon, etc.*		
	Stripping speed (max)	45 mm/s / 1.77 in/s		
	Strip pattern	End strips	End strips, longitudinal strips, window strips, simple patterns	N/a
<b>System Specifications</b>	Laser type and power**	10 W CO <sub>2</sub> laser		25 W CO <sub>2</sub> laser
	Beam delivery system	Single axis (X or Y)	Dual axis (X and Y)	Fixed beam
	Configuration	Manual insertion with jig (Option for reel-to-reel processing)		N/a
	Dimensions (W x D x H)	410 x 1085 x 510 mm / 16.1 x 42.7 x 20.1 in		410 x 980 x 510 mm / 16.1 x 38.6 x 20.1 in
	Weight	45 kg / 99 lbs		40 kg / 88 lbs
<b>Control and Software</b>	Machine control architecture	Microprocessor X/Y motion		
	Interface	Keypad	Keypad or PC	Keypad
	Communications	RS-232		
	Program configuration	Spectrum Technologies bespoke program		
	Program recipes	Comma separated value files (.CSV), manual input		
<b>Environmental and Operational Conditions</b>	Operating temperature	+15°C to +30°C / 59°F to 86°F		
	Operating humidity	20% - 80%, non-condensing		
	Noise level	65 dB(A)		
<b>Power, Air and Fume Management</b>	Electrical connection	NA: 110 - 120 VAC, 50-60 Hz, 1Φ. EU: 220 - 240 VAC, 50-60 Hz, 1Φ		
	Electrical consumption	300 W		600 W
	Fume extraction	ACS-5 (Optional)***		
<b>Compliance and Standards</b>	Conformity	CE, FDA, FCC, Machinery Directive (MD), Class 1 laser		CE, FDA, FCC, MD, Class 4 laser
	Standards	ISO 9001		

\*Non-exhaustive list.

\*\*All Sienna 200 Series lasers are air cooled.

\*\*\*To comply with health and safety requirements, adequate air extraction must be provided when operating any laser wire stripper. If this is not available in your facility, Spectrum's ACS-5 systems remove all smoke, odours, particles and fumes from the laser stripping area and return clean, filtered air to the room.

## ACCESSORIES AND OPTIONS

Jig capable of holding < 6 mm / 0.24 in

Fume extractor (ACS-5)

Fume extractor replacement filters

Extended warranty

# About Spectrum Technologies

## Company Overview

Spectrum Technologies has been at the forefront of laser wire processing technology for over 35 years, developing and applying leading edge technology to provide solutions to problems in advanced manufacturing.

Founded in 1989 as a spin-out from BAE Systems' Advanced Technology Centre, the Company pioneered and commercialised UV laser wire marking within the aerospace industry – a process that has since become the global industry standard for identifying aerospace wire and cable. Spectrum has been independently owned since the management buyout in 1994.

Today, Spectrum Technologies is recognised as the world leader in the design and manufacture of specialised laser-based wire processing equipment. Its solutions are widely used in the production of complex wire harnesses and assemblies across aerospace, defence, medical, rail, automotive, and other critical industries.

## Excellence in Electronics Manufacturing

Electronics production demands fast, precise and reliable wire processing to keep pace with increasing product complexity and miniaturisation. Spectrum Technologies' laser systems provide the accuracy, repeatability and efficiency required by leading manufacturers in consumer electronics, industrial devices and emerging technology sectors. In addition to insulation removal, our laser marking solutions support clear source and destination coding at wire ends – helping operators work faster, reduce errors and maintain the highest manufacturing standards.

To discuss any of your requirements please contact us at [sales@spectrumtech.com](mailto:sales@spectrumtech.com) or on +44 (0)1656 655 437.



Scan for more information



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