



SIENNA™ 200 SERIES



LASER WIRE STRIPPER

SIMPLIFY MANUFACTURING
INCREASE PRODUCTIVITY – REDUCE COST

From Spectrum Technologies - the global leader in laser wire processing systems

SIENNA™ 200 SERIES

Entry-level dual beam laser wire stripping system for small gauge wires used in electronics applications. The SIENNA™ 200 series is the entry-level range of CO2 infra-red laser wire stripping systems designed and manufactured by Spectrum Technologies.

SIENNA 200

SIENNA 200 series systems are compact, bench-top systems suitable for processing the majority of wire types and insulation materials used in electronics manufacture, specifically consumer electronics, medical and telecommunications applications.

The systems have laser beam focussing heads at the top and bottom of the tooling fixture and the beam alternates between the two to process above and below the wire.

Examples of cable and strip patterns that can be processed:



The systems come in three configurations: single axis where the laser head has only one direction of movement; dual axis where there are two axes of movement; and fixed beam, where the laser head is fixed in one place.

The fixed beam version is usually set up with a moving external stage allowing the cables and/or assemblies to be moved around freely beneath the laser beam. This offers more processing flexibility.

Speed and laser power are easily adjusted using the integrated control keypad on the single axis and fixed beam versions; the dual axis version can also be programmed and controlled by PC.

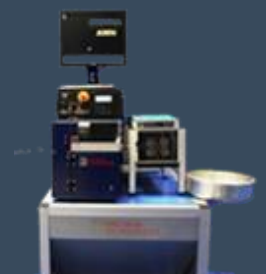
BENEFITS OF THE SIENNA 200 SERIES

- High quality and damage-free - the laser is reflected off the conductor, plating, or other metallic surfaces
- Accurate
- Repeatable
- One machine for all wire configurations - single wire, twisted pairs, coaxial and ribbon cables
- Processes multiple wires or cables simultaneously
- Laser strips high temperature, hard or soft insulation materials effectively
- End strips, window strips and other patterns easily performed in one operation
- Increased job storage on dual axis versions due to PC software

LASER WIRE STRIP, MEASURE & CUT SYSTEM

SIENNA wire strippers can be configured for automated wire handling where they can be able to perform a strip, measure and cut operation pairing the fast, non-damaging accuracy of laser stripping with the convenience and efficiency of a mechanical measure and cut system.

This integrated bench-top system can feed wire automatically through the laser stripper from a reel and then measure and cut it to length. Using this method jobs can be automatically processed as batches via the SIENNA system



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Summary specifications

Model	SIENNA 210S	SIENNA 210D	SIENNA 225FB
Laser	10 Watt air cooled CO ₂ Class 1		25 Watt air cooled CO ₂ Class 4
Configuration	Single axis	Dual axis	Fixed beam
Control	Microprocessor with keypad	Microprocessor with keypad or PC	Microprocessor with keypad
Wire Types	Single core wires Twin leads Twisted pairs Multi-conductor & ribbon cables		
Wire Sizes	<6mm (0.24") OD Or ribbon cable <100mm (4mm) wide		
Accuracy	+/- 0.2 mm (0.008")		
Process Area	100mm in X or Y direction	100mm x 100mm (4" x 4")	N/A
Strip patterns	End strip only	End strips, longitudinal strips, window strips, simple patterns	N/A
Insulation Types PTFE / Teflon® (non-exhaustive)	PTFE / Teflon® Tefze® PVC Polyurethane Silicon Kapton® Polyimide Polyesterimide		
Power Requirements	110 - 120 Vac, 50/60 Hz 6 Amp. 1 phase 220 - 240 Vac, 50/60 Hz 1.5 Amp. 1 phase		
Operating Conditions	Ambient temperature 15°C to 30°C (60°F to 86°F) as standard Relative humidity 20% to 80% (non-condensing)		
Dimensions L x W x H	1085 x 410 x 510 mm (43" x 16" x 20")	1085 x 410 x 510 mm (43" x 16" x 20")	980 x 410 x 510 mm (38.5" x 16" x 20")
Weight	45kg (99lbs)	45kg (99lbs)	40kg (88lbs)
Options	<ul style="list-style-type: none"> ACS-5 air cleaning system 		

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

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





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