

SIENNA™ 500 series

High power rotary laser wire stripping systems for complete and accurate stripping around the circumference of large gauge wire and cable



stripping

SIENNA™ 500

Rotary laser wire strippers

The SIENNA 500 series utilises Spectrum Technologies' patented rotary laser beam delivery technology to move the beam 360 degrees around the wire, as well as along the wire.

This patented beam delivery method makes the SIENNA 500 series particularly well suited for stripping larger gauge wires and cables up to 22 mm (0.88") in diameter.

With two axes of movement, radially and longitudinally, cross-cuts and slits along the wire lengths are possible. End strips up to 200 mm (7.87") in length are possible as well as window strips for backshell termination purposes.

SIENNA 500 series systems are compact, bench-top systems with a 10 or 30 Watt laser making them suitable for processing a range of insulation types including thicker, tougher materials.

Speed and laser power are easily adjusted using the integrated control keypad however there is an option for PC control software for easier programming and increased job storage.

The SIENNA 500 series comes with a set of interchangeable wire guide tubes depending on the diameter of the wire or cable to be stripped.

Benefits of the SIENNA 500 series

- Complete and clean stripping around the circumference of large gauge wire and cable
- High quality and damage-free - the laser is reflected off the conductor, plating, or other metallic surfaces
- Easy and clean stripping of tough insulation materials
- Accurate
- Repeatable
- Laser strips high temperature, hard or soft insulation materials effectively
- End strips, cross cuts, window strips
- Increased job storage with PC software

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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Summary Specification

Model	SIENNA 510	SIENNA 530
Laser	10 Watt CO2 air cooled	30 Watt air cooled CO2
Configuration	Rotary axis	Rotary axis
Control	Microprocessor with keypad	Microprocessor with keypad
Wire Types	Single wires Jacketed, shielded multi-conductor cables	Single wires
Wire Sizes	1 mm < 22mm OD	1 mm < 22mm OD
Accuracy	+/- 0.2 mm (0.008")	+/- 0.2 mm (0.008")
Process Area	Strip lengths <200mm (7.8")	Strip lengths <200 mm (7.8")
Rotation Speed	175 rpm	175 rpm
Linear slit speed	50mm / sec	50mm / sec
Insulation types (non-exhaustive)	PTFE / Teflon® Tefzel® PVC Polyurethane Silicon Kapton® Polyimide Polyesterimide Polyester Fibreglass Polyethylene Nylon	PTFE / Teflon® Tefzel® PVC Polyurethane Silicon Kapton® Polyimide Polyesterimide Polyester Fibreglass Polyethylene Nylon
Power Requirements	110 - 120 Vac, 50/60 Hz 6 Amp. 1 phase 220 - 240 Vac, 50/60 Hz 3 Amp. 1 phase	110 - 120 Vac, 50/60 Hz 6 Amp. 1 phase 220 - 240 Vac, 50/60 Hz 3 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)	• 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	780 x 330 x 520 mm (31" x 13" x 20.5")	780 x 330 x 520 mm (31" x 13" x 20.5")
Weight	45kg (99 lbs)	45kg (99 lbs)
Options	• ACS5 • PC and control software • Power calibration kit	• ACS5 • PC and control software • Power calibration kit

Examples of cable and strip patterns that can be processed

13mm (0.5") OD tape wrapped aerospace power lead with an end-strip and window strip performed by a SIENNA 530



12mm (0.47") OD power lead, end-stripped with a slit using a SIENNA 530



- All SIENNA systems are Class 1 laser products for use on open shop floor, unless otherwise stated
- Complies to CAT 3 electrical safety category and all CE marking and FDA regulations
- 12 month return to base warranty on all new systems
- Worldwide customer support from a dedicated team of Field Service Engineers or by fully trained Service Agents
- Technical helpline operating across the global clock
- Operational training for Production and Technical personnel carried out at installation
- Maintenance contracts available to keep systems operating at optimum performance

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