

SIENNA™ 300 series

High power dual beam laser wire stripping systems for stripper thicker and tougher insulation materials



stripping

SIENNA™ 300

High power dual beam laser wire strippers

The SIENNA 300 series is the higher power version of the SIENNA 200 CO2 infra-red laser wire stripping systems designed and manufactured by Spectrum Technologies.

SIENNA 300 series systems are bench-top systems suitable for processing wire and cable with tougher, higher resistance insulation materials, as well as the more standard wire and cable used in electronics manufacture.

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

The systems are available in two laser powers: 25 or 50 Watt, and in two configurations: single axis where the laser head has only one direction of movement; or dual axis where there are two axes of movement.

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 300 series

- 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
- 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 with to PC software
- Higher power laser options

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.



Europe:
Spectrum Technologies PLC
Western Avenue
Bridgend,
CF31 3RT
UK

North America:
Spectrum Technologies USA Inc
Fossil Creek Tech Center
3934 Sandshell Drive
Fort Worth, TX, 76137
USA

Asia-Pacific:
Spectrum Technologies Asia Pacific
5/F Yang Guang World Tower, 2000,
Pudong Avenue,
Shanghai, 200135
P. R. China

T: +44 (0)1656 655437
F: +44 (0)1656 655920

T: +1 817 232 2373
F: +1 817 232 4354

T: +86 (0)21 6182 8088 ext.. 5263

www.spectrumtech.com

sales@spectrumtech.com

Summary Specification

Model	SIENNA 325S	SIENNA 325D	SIENNA 350S	SIENNA 350D
Laser	25 Watt air cooled CO2 Class 1		50 Watt air cooled CO2 Class 1	
Configuration	Single axis	Dual axis	Single axis	Dual axis
Control	Microprocessor with keypad	Microprocessor with keypad or PC	Microprocessor with keypad	Microprocessor with keypad or PC
Wire Types	Single core wire Twin leads Twisted pairs Multi-conductor & ribbon cables			
Wire Sizes	<6mm (0.24") OD Or ribbon cable <100mm (4") wide			
Accuracy	+/- 0.2 mm (0.008")			
Process Area	100mm (4") in X or Y direction	100 x 100 mm (4" x 4")	100mm (4") in X or Y direction	100 x 100 mm (4" x 4")
Strip Patterns	End strips only	End strips, longitudinal strips, window strips, simple patterns	End strips only	End strips, longitudinal strips, window strips, simple patterns
Insulation types (non-exhaustive)	PTFE / Teflon® Tefzel® PVC Polyurethane Silicon Kapton® Polyimide Polyesterimide Polyester Fibreglass Polyethylene Nylon			
Power Requirements	110 - 120 Vac, 50/60 Hz 3 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	1045 x 605 x 510 mm (41" x 24" x 20")			
Weight	65kg (143 lbs)		65kg (143 lbs)	
Options	• ACS5			

Examples of cable and strip patterns that can be processed

16 mm ribbon cable, end stripped and partially removed by a single axis SIENNA 325 system



4 x 2 Infiniband cable, outer jacket, mylar layer and inner polymer insulation stripped with SIENNA 300 system



- 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

SIENNA is a trademark of Spectrum Technologies PLC
COPYRIGHT 2012 SPECTRUM TECHNOLOGIES PLC. All rights reserved.
Specification subject to change without prior notice to provide for continuous product improvement.