

# SIENNA<sup>TM</sup> 800 series

High performance scanning laser wire stripping systems for the high speed ablation of wire and cable insulation



stripping

### SIENNA™ 800

## High speed, single-sided, scanning laser wire strippers

The SIENNA 800 series is a range of single-sided laser wire strippers with high speed scanning optics for the high speed ablation of wire and cable insulations.

This type of system is particularly suitable for insulations that are bonded to the conductor and/or are very difficult to remove by hand, such as those found on flexible flat cables (FFCs) and flat laminated cables (FLCs).

The 800 series tooling offers a process area of up to 118 mm x 118 mm  $(4.65^{\circ} \times 4.65^{\circ})$  and is easy to insert and remove for repeatable processing. The material to be stripped or ablated is processed from above and an optional rotating jig is available to turn the part around to process the underside.

The system has an integrated PC for simple control and colour touch-screen for easy data input and programming.

The SIENNA 800 has been designed so that one of three different laser types can be integrated into the system depending on the application - standard insulation removal; scribing of metal shields; or enamel ablation of fine magnet wire (<0.3mm (0.01" OD)).

There is also a dual wavelength version for processing magnet wire from 28 AWG or 0.2mm (0.008") OD.

#### Key features and benefits of the SIENNA 800 series

- High accuracy levels: +/- 0.1mm (0.004")
- Large process areas of up to 118 mm x 118 mm (4.65" x 4.65"), depending on application
- PC controlled with colour touch-screen HMI for fast programming
- Large job store memory
- Password protection access at different levels
- Simple to set-up and maintain
- Choice of laser type and power depending on application (contact Spectrum to discuss and to check availability):
  - Standard stripping
  - Shield scribing
  - O Fine magnet wire enamel removal (FMWS)
- "Duo" version 50 watt CO2 <u>and</u> 30 Watt scriber for improved flexibility
- Optional rotating jig
- Optional bespoke stand with storage area for ACS5 and integrated power distribution panel

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 850	SIENNA 830 SR	SIENNA 800	SIENNA 800
	SILINIA 630		FMWS	Duo
Control	Integrated PC and colour touch screen			
Wire Types	Single core wire     Twin leads     Twisted pairs     Multi-conductor shielded cables     Ribbon cables     FFC/FLCs	Shielded wire     Shielded ribbon cables     Coax / Microcoax	Copper or Aluminium     Round, square, flat or solid	Single core wire     Twin leads     Twisted pairs     Multi-conductor shielded cables     Ribbon cables     FFC/FLCs     Shielded wire     Shielded ribbon cables     Coax / Microcoax     Various magnet wire
Wire Sizes	<6mm (0.24") OD Or ribbon cable <120 mm (4.7") width	<1 mm (0.04") OD or coax ribbon <70 mm (2.8") width	30 AWG to ~50 AWG	As per SIENNA 850 & SIENNA 830SR and Magnet wire from 0.2 mm (0.008")
Accuracy	+/- 0.1 mm (0.004")			
Process Area	118 x 118mm (4.65" x 4.65")			
Insulation types (non- exhaustive)	Kapton® PTFE PFA FEP XL-Polyalkene PVFZ / PVDF PVC Silicone XLP Formvar® Polyester Fibreglass PET Nylon®	Metal shields	PEI PAI Polyimide And more	All materials able to be processed by the SIENNA 850 & 830SR Plus Various magnet wire enamels
Power Requirements	230V-50Hz 5 Amp, single phase 110V-60Hz 10 Amp, single phase			
Operating Conditions	<ul> <li>Ambient temperature 15°C to 30°C (60°F to 86°F) as standard</li> <li>Relative humidity 20% to 80% (non condensing)</li> </ul>			
Dimensions L x W x H	1300 mm x 725 mm x 700 mm (51" x 29" x 27.5")			
Weight	113 kg (250 lbs)			126 kg (278 lbs)
Options	<ul><li>ACS-5 Air Cleaning System</li><li>Rotating jig</li><li>Bespoke stand with power distribution panel</li></ul>			

- 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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Specification subject to change without prior notice to provide for continuous product improvement.

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