



## SIENNA™ 800 SERIES



HIGH PERFORMANCE SCANNING  
LASER WIRE STRIPPING SYSTEMS

For the high speed ablation of  
wire and cable insulation

# 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).

# HIGH PERFORMANCE SCANNING LASER WIRE STRIPPING SYSTEMS FOR THE HIGH SPEED ABLATION OF WIRE AND CABLE INSULATION

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

- Strip accuracy: +/- 0.2mm (0.008")
- Large process areas of up to 110 mm x 110 mm (4.33" x 4.33"), 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
  - Fine magnet wire enamel removal (FMWS)
- "Duo" version containing two lasers of different wavelengths for processing magnet wire and 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.

Model	SIENNA 850	SIENNA 830 SR	SIENNA 800 FMWS	SIENNA 800 Duo
Control	Integrated PC and colour touch screen			
Wire Types	<ul style="list-style-type: none"> <li>• Single core wire</li> <li>• Twin leads</li> <li>• Twisted pairs</li> <li>• Multi-conductor shielded cables</li> <li>• Ribbon cables</li> <li>• FFC/FLCs</li> </ul>	<ul style="list-style-type: none"> <li>• Shielded wire</li> <li>• Shielded ribbon cables</li> <li>• Coax / Micro-coax</li> </ul>	<ul style="list-style-type: none"> <li>• Enamelled wires</li> <li>• Copper or Aluminium</li> <li>• Round, square, flat or solid</li> </ul>	<ul style="list-style-type: none"> <li>• Single core wire</li> <li>• Twin leads</li> <li>• Twisted pairs</li> <li>• Multi-conductor shielded cables</li> <li>• Ribbon cables</li> <li>• FFC/FLCs</li> <li>• Shielded wire</li> <li>• Shielded ribbon cables</li> <li>• Coax / Micro-coax</li> <li>• Enamelled wire</li> </ul>
Wire Sizes	<6mm (0.24") OD Or ribbon cable <110 mm (4.3") width	<1 mm (0.04") OD or coax ribbon <110 mm (4.3") width	30 AWG to ~50 AWG	As per SIENNA 850 & SIENNA 830SR and Enamelled wire >0.2 mm (0.008")
Accuracy	+/- 0.2mm (0.008")			
Process Area	110 x 110mm (4.33" x 4.33")			
Insulation types (non-exhaustive)	Kapton® PTFE ETFE / XLETFE PFA FEP XL-Polyalkene PVF2 / PVDF PVC Silicone XLP Formvar® Polyester Fibreglass PET Nylon®	Metal shields	PEI PAI Polyimide Other enamels and resins	All materials able to be processed by the SIENNA 850 & 830SR, plus various enamels and resins
Power Requirements	100-240VAC, 60/50 Hz			
Operating Conditions	<ul style="list-style-type: none"> <li>• Ambient temperature +15°C to +35°C (59°F to 95°F) as standard</li> <li>• Relative humidity 20% to 80% (non condensing)</li> </ul>			
Dimensions L x W x H	1267 mm x 639 mm x 676 mm (50" x 25" x 27")			
Weight	113 kg (250 lbs)		126 kg (278 lbs)	
Options	<ul style="list-style-type: none"> <li>• ACS-5 Air Cleaning System</li> <li>• Rotating jig</li> <li>• Bespoke stand with power distribution panel</li> </ul>			

The 800 series tooling offers a process area of up to 110 mm x 110 mm (4.33" x 4.33") 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 – including standard insulation removal; marking onto metal, marking onto polymers; enamel ablation of magnet wire.

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

- 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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