



Nova™ Mini-Max

Measure & Cut System

Nova Mini-Max

Compact Precision for Wire Measuring and Cutting

The Mini-Max is a compact, all electric measure and cut system designed for processing a wide range of wire and cable types used in complex electrical harness assemblies. Ideal for aerospace, defence rail and other specialist manufacturing environments, the Mini-Max delivers efficient batch processing with simple operation and reliable precision.



Nova Mini-Max Processing Wire

Benefits

- **Accurate Measuring and Cutting:** Dedicated measurement rollers ensure precise cut lengths across a wide range of wire materials and insulations types.
- **Compact Bench-Top Design:** Small footprint allows the system to fit easily into existing workstations and production environments.
- **Cost-Effective Production:** Provides a reliable automated solution for measuring and cutting wire without the complexity of larger systems.
- **Versatile Wire Processing:** Handles circular and non-circular wires, ribbon cable, heat shrink tubing, pneumatic tubing, and silicon/rubber tubing.
- **Simple Operation:** Control via touch pad or integrated PC enables quick setup and easy job management.

Compact Design for Flexible Workspaces

The Mini-Max is engineered as a compact bench-top system, making it easy to integrate into laboratories, assembly stations and production cells where space is limited. Its small footprint allows manufacturers to introduce automated wire measuring and cutting capability without major changes to existing workflows.

Efficient Batch Production

Designed for both short and extended production runs, the Mini-Max supports efficient batch processing with straight forward setup and operation. Jobs can be entered directly via the touch pad or uploaded from a PC, allowing operators to manage production quickly and accurately while maintaining consistent output quality.

Versatile Operation and Seamless Integration

The Mini-Max offers both manual and automatic operation for flexible production, with built-in cable slip detection, over-tension protection and wire jam detection to ensure reliable performance. It can also be integrated with laser wire strippers to form a fully automated strip, measure and cut workflow.



Mini-Max Touchpad Interface



Mini-Max Paired with Tabletop Dereeler

Technical Specifications

STANDARD FEATURES

	Model	Nova Mini-Max
Processing Specifications	Wire size (OD)	Up to 10 mm / 0.394 in
	Feed rate	0.04 - 0.5 m/s / 0.13 - 1.64 ft/s
	Processing length	2 - 999999 mm / 0.1 - 99999.9 in
	Number of cuts	1 - 9999
	Accuracy	±1 mm / ±0.039 in
	Wire type	Circular wire, non-circular wire, ribbon cable, heat shrink tube, pneumatic tube, rubber / silicon tube
System Specifications	Configuration	Benchtop
	Temperature control	Air-cooled
	Dimensions (W x D x H)	194 x 301 x 228 mm / 7.6 x 11.9 x 9.0 in
	Weight	10 kg / 22 lbs
Control and Software	Machine control architecture	Windows based control software
	Interface	Touchpad or PC
	Communications	RS-232, DB25
	Program recipes	Manual input, or bespoke software
Environmental and Operational Conditions	Operating temperature	+15°C to +30°C / +59°F to +86°F
	Operating humidity	20% - 80%, non-condensing
	Noise level	<70 dB(A)
Power Management	Electrical connection	100-240 VAC, 50/60 Hz, 1Φ
	Electrical consumption	150 VA
Compliance and Standards	Conformity	CE, Machinery Directive, EMC Directive
	Standards	ISO 12100, ISO 13857

ACCESSORIES AND OPTIONS

Spares kit

About Spectrum Technologies

Company Overview

Spectrum Technologies has been at the forefront of laser wire processing technology for over 35 years, developing and applying leading edge technology to provide solutions to problems in advanced manufacturing.

Founded in 1989 as a spin-out from BAE Systems' Advanced Technology Centre, the Company pioneered and commercialised UV laser wire marking within the aerospace industry – a process that has since become the global industry standard for identifying aerospace wire and cable. Spectrum has been independently owned since the management buyout in 1994.

Today, Spectrum Technologies is recognised as the world leader in the design and manufacture of specialised laser-based wire processing equipment. Its solutions are widely used in the production of complex wire harnesses and assemblies across aerospace, defence, medical, rail, automotive, and other critical industries.

Setting the Aerospace Standard Since 1989

We pioneered the use of UV laser wire marking in the late 1980s, as the safest possible method of identifying aircraft wire and cable. This process is now accepted as the global aerospace industry standard, and Spectrum is the world market leader in this field, trusted by leading aircraft OEMs and suppliers worldwide. Today the global fleet of civil and military aircraft relies on our technology for the precise, permanent and safe marking and identification of the electrical wiring system.

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



Scan for more information



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