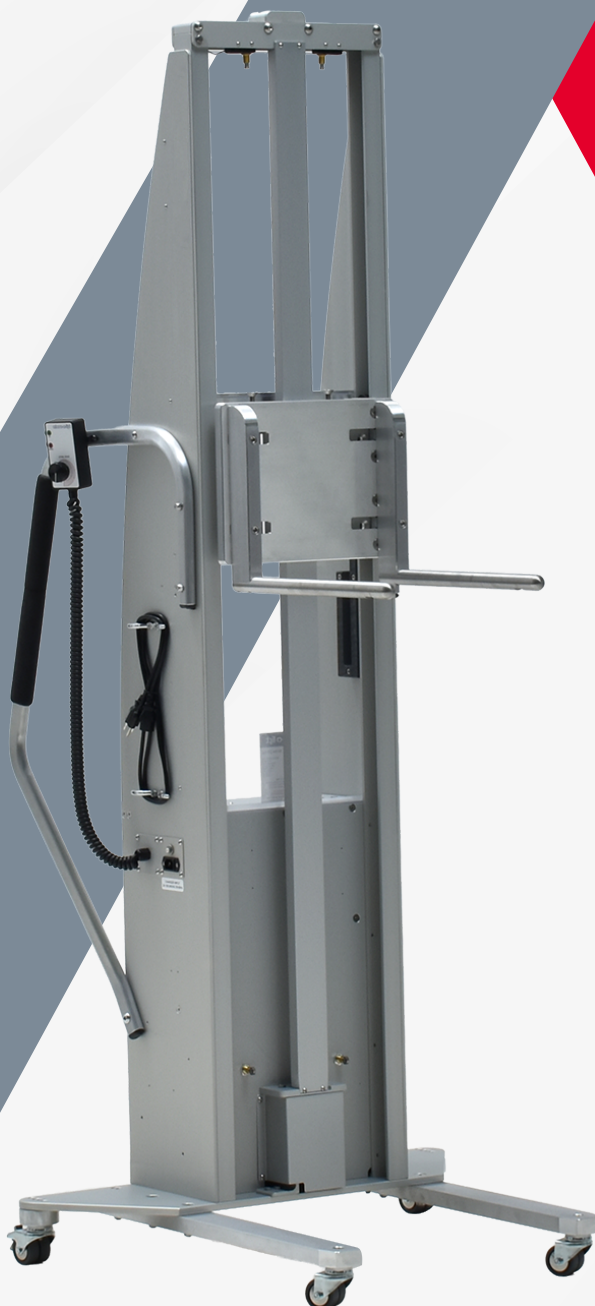




NovaTM Lift

Reel Handling & Loading System

Nova Lift

Compact, High-Quality Laser Stripping

The Nova Lift is an ergonomic reel handling and loading system designed to safely lift, position, and manage heavy reels with ease. Compact, manoeuvrable, and operator friendly, the Nova Lift improves safety, reduces manual handling risks, and enhances workflow efficiency across manufacturing, cable processing, and industrial applications.



Operation and Positioning of Nova Lift

Benefits

- **Safe, Damage-Free Handling:** Designed to remove the strain of manual lifting while protecting reels, shafts, and equipment during handling.
- **Handles Challenging Loads:** Ideal for heavy, bulky or awkward reels that are difficult to manage manually.
- **Accurate & Controlled Positioning:** Smooth, repeatable vertical travel ensures reels can be aligned precisely with machine mandrels, payoff stations, or storage racks.
- **Versatile for Multiple Reel Types:** Supports a wide range of reel sizes, diameters, and weights through custom or interchangeable end-effectors.
- **Flexible Configurations:** Multiple end-effector options such as mandrel-lifting attachments, V-blocks, expanding shafts or custom tooling.

High-Stability Lifting System

The dual-mast aluminium frame and precision ball-screw drive deliver rigid, stable lifting performance with minimal deflection – ideal for safely positioning heavy reels at height.

Battery-Powered, Cable-Free Operation

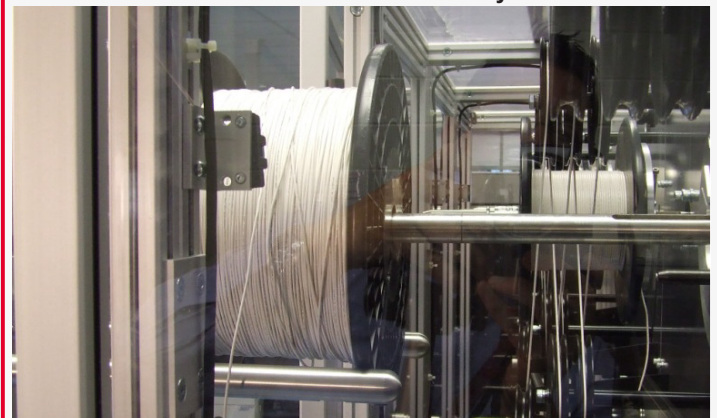
A long-life gel-cell battery and integrated charger enable full-shift mobility without trailing cables, supporting flexible use across production areas with no dependency on fixed power points. Quick exchange battery available as optional extra.

Customisable Tooling for Reel Handling

Interchangeable end-effectors – such as V-blocks, mandrels or reel forks – allow the system to adapt quickly to different reel sizes and processes, improving usability and reducing changeover time.



Nova Lift Vertical Control System



Alignment of Reel

Technical Specifications

Product Specifications

	Model	Nova Lift
System Specifications	Lifting capacity (max)	25 kg / 55 lbs (Option for up to 50 kg / 110 lbs)
	Lifting height (max)	158.8 cm / 62.5 in
	Vertical travel speed	0.05 m/s / 2 in/s (Dependant on loading conditions)
	Lift mechanism	DC gear-motor driven ball-screw
	End-effectors	Custom reel-handling attachments available
	Controls	Pendant-mounted Up/Down, optional speed control
	Safety features	Limit switches, overload protection, optional EMO, optional Fly-A-way system
	Dimensions (W x D x H)	813 x 685 x 1975 mm / 32.0 x 27.0 x 77.8 in
	Weight	88 kg / 194 lbs
Environmental and Operational Conditions	Operating temperature	+15° to +30°C / +59°F to +86°F
	Operating humidity	20% - 80%, non-condensing
	Noise level	65 dB(A)
Power Management	Power source	12V gel-cell battery (optional 24V upgrade)
	Battery capacity	31.5 A gel electrolyte battery
	Charger	On-board automatic 90-264 VAC smart charger
Compliance and Standards	Regulatory compliance	CE; Machinery Directive 2006/42/EC
	Safety standards	EN 60204-1, SEMI S2 (Optional)

Options and Accessories

Options for lifting capacity up to 50 kg / 110 lbs
Lifting hooks/straps
Spreader bars
Quick exchange battery
Docking features
Ball screw enclosure

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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