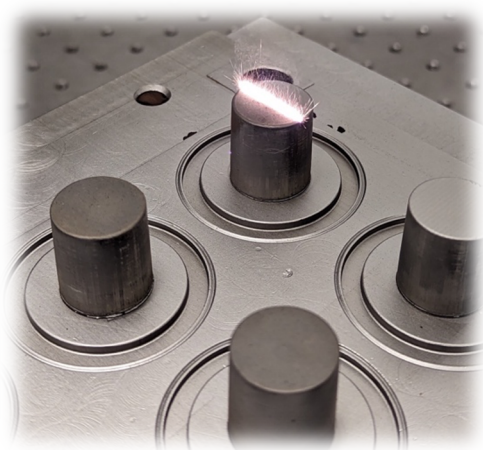


ELASER-A

Air-cooled Laser-Cleaning Systems



Product Features

- Up to 300 Watts
- Fiber-Laser Engine
- Compact 2D Scan Head
- Pulse Energy up to 10mJ
- Manufactured in the UK
- Touchscreen Interface
- Low Operating Costs
- Market-Leading Value

Applications

- Weld Seam Preparation
- Post-Weld Cleaning
- Paint and Coating Removal
- Contamination Removal
 - Rust & Mill Scale
 - Oil & Carbon
- Mould Cleaning
- Graffiti Removal
- Heritage Conservation

Performance and Reliability without the Cost

Laser-cleaning eliminates the need for consumables in surface cleaning processes. Unlike traditional media-blasting, water-jetting and chemical cleaning methods, no water, chemicals or abrasives are required. Laser-cleaning generates minimal waste, no mess and the underlying surface is unaffected by the process.

ELASER-A, air-cooled portable laser-cleaning systems are unique to the market-place - UK-manufactured, high-quality, performance and reliability, yet priced competitively to drive expansion of laser-cleaning within industrial applications.

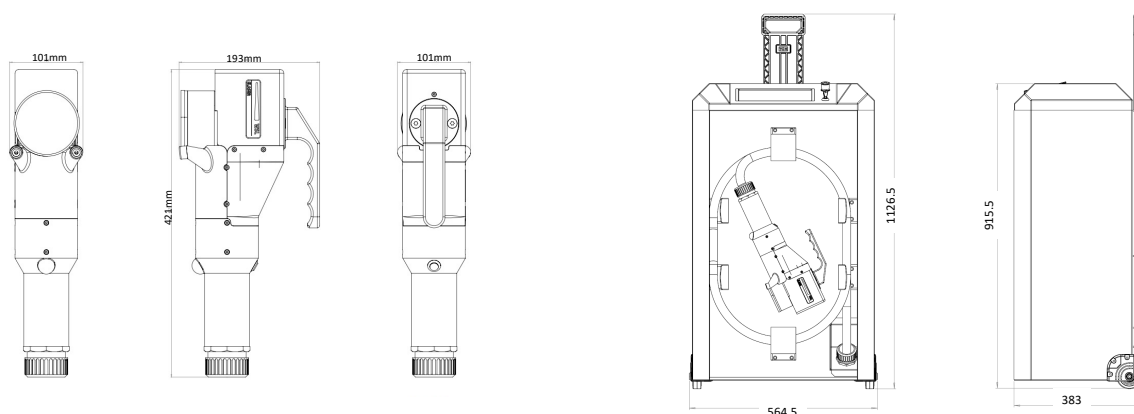
Powered by compact, robust fiber lasers and incorporating a portable, lightweight 2D laser-scanner and intuitive user-interface, ELASER will adapt to optimise any surface-cleaning, surface-preparation or coating-removal application.

ELASER technology will drive down your operating costs, extend lifetime of equipment and parts and enable maximised uptime within manufacturing.

ELASER-A

	ELASER-100-A	ELASER-200-A	ELASER-300-A
LASER SPECIFICATIONS			
Average Power	100 Watts	200 Watts	300 Watts
Pulse Energy ¹	Up to 1.5mJ	Up to 10mJ	
Pulse duration ¹	Adjustable 50nsecs to 500nsecs		
Wavelength ²	1064nm		
Power Tunability	0 to 100%		
Pulse Repetition Rate	1-4000 KHz		
Repetition Rate for Max Energy	50KHz	20KHz	30KHz
Beam Profile	Gaussian-like	Top-Hat Profile	
HAND-HELD SCANNER and FIBER DELIVERY			
Scanner type	2-D Galvanometer		
Maximum scan rate	10 m/sec		
F-Theta Lenses available (working distance)	Interchangeable lenses 160mm up to 500mm		
Lens-protection windows	Included and replaceable		
Standard Cable Length	5m Longer lengths available		
ELECTRICAL, MECHANICAL & INTERFACES			
Supply Voltage		110-250 VAC Single-Phase	
Power Consumption	<600 Watts	<1000 Watts	
Laser-Safety	Class IV Product Integrated Safety Interlock System		
Weight	<3.0kg – Handheld scanner < 50kg – laser-system		

- 1- Maximum pulse energy is achieved at 500 nanoseconds and reduces with shorter pulses – contact WSL for Information
 -2- ELASER-RHZ under development at :15xxnm for reduced hazard zone “Eye-safe” operation - contact WSL for information



Woodrow Scientific has a continuous technology development programme to ensure our products operate at the highest performance and quality levels. As a result, the specifications in this document are subject to change without notice.



The ELASER Platform is a Class 4 laser comprising a 1064nm Ytterbium doped fiber laser. Woodrow Scientific recommend that appropriate eye wear should be worn, and laser-safety procedures followed at all times according to BS EN 60825-1



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WSL

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