



Quasi-pulsed (QCW) cleaning laser systems **NARRAN ROD Q**

Company introduction

- Focus on industrial and scientific applications of laser technology, optics and optomechanics.
- Establishment of the company in **2013**.
- Over **500 laser systems** delivered and installed.

Our background

- By 2024, a total of **2000m²** of corporate space including production areas.
- **Own development** department.
- Projects for the army of the Czech Republic, CAS, nuclear industry.

Company vision

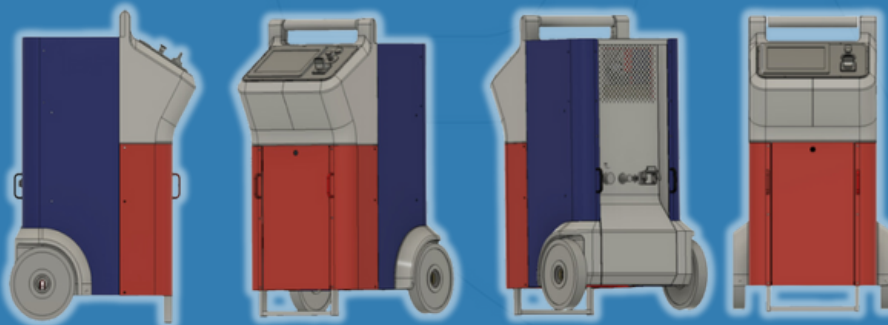
Our vision is to **find solutions for new markets** and develop new business trends with our customers and partners.

Company mission

The company's goal is to **innovate, continuously develop and push the boundaries** in the industrial and scientific sectors using laser technology.

ROD Q

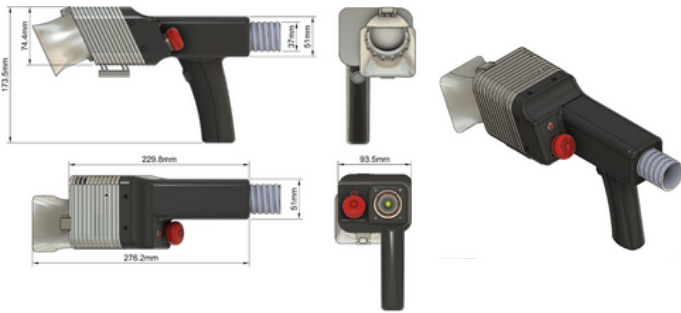
The ROD Q system represents the pinnacle of laser cleaning technology and offers a revolutionary approach to surface treatment. Its design combines the precision of laser cleaning with the ability to create textured surfaces, making it the ideal solution for a variety of industrial applications.



Quasi-pulsed (QCW) cleaning laser system NARRAN ROD Q

Technical parameters

ROD Q 450	MOBILE VERSION
MAXIMUM AVERAGE POWER	450 W
MAXIMUM PEAK POWER	4 500 W
MAXIMUM PULSE ENERGY	45 J
COOLING	AIR
WAVELENGTH	1070 NM
OPERATING TEMPERATURE RANGE	10 - 35 °C
HUMIDITY, TEMPERATURE RANGE	≤ 40°C 10-95%
POWER SUPPLY	200-240 V AC, 50/60 HZ
WEIGHT	100 KG
DIMENSIONS (MM)	1060 X 710 X 640

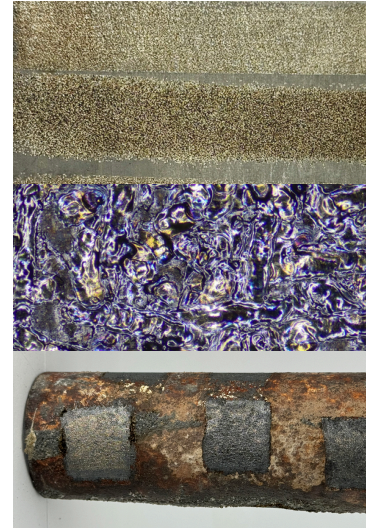


Key features and benefits

cleaning efficiency:
ROD Q can clean surfaces without damage, but can also actively create a texture on the surface to be cleaned by adjusting the settings. This ability is essential for applications requiring specific roughness.

Surface roughening:
The laser can modify the surface of a material by creating surface texture, which is essential for better adhesion of coatings or layers in industrial applications such as welding.

Removing deep rust:
The ROD Q's powerful laser beam penetrates deep into materials to remove rust and other stubborn contaminants, ensuring thoroughly cleaned surfaces even on heavily corroded parts.



Cost-effective laser performance

Although similar to CW lasers, QCW lasers offer a remarkable difference: their peak power is 10 times higher than their average CW power. As a result, QCW lasers deliver tens of joules of energy in long pulses from 50 microseconds to 50 milliseconds.

