QSR series Ruby Lasers

State-of-the-art Ruby lasers

QSR series lasers are robust, compact pulsed Ruby laser sources suitable for use in both industry and research.

Two different models are available giving 300mJ or 1.5J pulse energies. Q-switching is fitted as standard, or the laser can be run in fixed Q (free running) mode. A TEM 0,0 aperture provides a Gaussian beam profile, or it can be removed to give a flat top profile. Optional extras are available to tailor each laser to suit your requirements, including on-board energy monitoring, telescopes to collimate the beam or adjust beam diameter, and second harmonic (347nm) generation.

The lightweight laser head uses our revolutionary carbon fibre structure. Optical components are mounted in a cage of carbon fibre rods, to achieve excellent mechanical and thermal stability - far surpassing traditional materials such as Invar - meaning our lasers stay aligned, even in the toughest environments.

A self-contained chiller system regulates the temperature of the laser, so no external water supply is required.

The laser is controlled via PC using our intuitive software. Coupled with advanced fault diagnostics and fully configurable remote control, this makes our lasers easy to integrate and simple to operate.

model	QSR6	QSR9
max. pulse energy, Q switched	300mJ	1.5J
max. pulse energy, fixed Q	5J	10J
beam diameter	6.5mm	9.5mm
wavelength	694.3nm	
beam diameter - TEM 0,0	2mm	
max. pulse energy - TEM 0,0	30mJ	
pulse length, Q switched	20-30ns	
pulse length, fixed Q	1ms	
max. pulse repetition rate	6 or 60 pulses per minute	
laser head dimensions	H225 W250 L1000 (mm)	
power supply dimensions	H900 W600 D800 (mm)	
electrical requirements	230VAC 50-60Hz 4.0kW	

About Us

Laser equipment for science & industry

InnoLas UK ltd is a UK-based manufacturer of solid-state lasers and accessories for industrial and scientific users. With a portfolio of applications ranging from drilling, cutting and welding a huge variety of metal and other materials through to holography, optical damage measurements and plasma diagnostics, we aim to provide each user with a tailored solution to their needs.

InnoLas products are based around flashlamp pumped solid-state laser technology. Our modular design approach enables highly specialised solutions to be quickly and reliably developed using well-proven sub-assemblies and robust mechanical structures.

Support

At InnoLas, we don't just sell machines - we keep them running around the clock, so you can keep working. As well as breakdown callouts, our experienced service team carry out Preventative Maintenance visits which help keep your machines in optimum condition. We offer fully traceable calibration of laser power meters, a requirement of many modern manufacturing standards.

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LASER CLASS 4