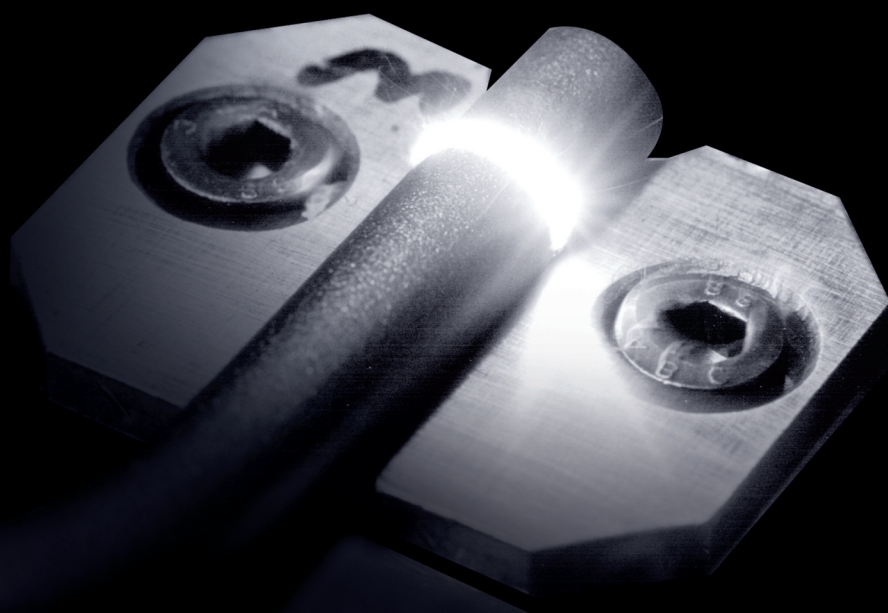


ROFIN DL SERIES

Small but strong.



THE POWER OF LIGHT

THE PRODUCT

Diode lasers are extremely compact laser beam sources which are the perfect tool for applications like heat conduction welding, brazing and hardening.

■ ROFIN DL-Q Series

Available in various wavelengths, the diode lasers of the DL-Q Series are highly adaptable to applications such as welding, cladding, brazing, and surface treatment. The beam forming can be focused to rectangle, nearly square, and round geometries.

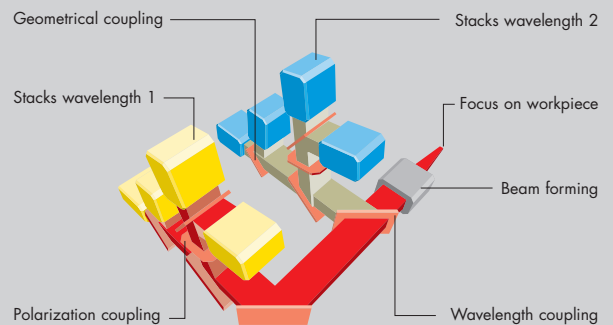
■ ROFIN DL-R Series

The diode lasers of the DL-R Series have a rectangular beam geometry developed specifically for the hardening process with homogenized beam profile and it results from uniform energy distribution for hardenings in various different types.

THE PRINCIPLE

From milliwatt to kilowatt

Special cooling and stacking techniques makes the production of high-power diode lasers possible, achieving the same power levels as conventional gas or solid-state lasers. By stacking several semiconductor laser bars to diode stacks, output powers of 1.5 kW per stack can be produced. The output power can even be increased to more than 3 kW by the combination of several stacks by means of wavelength resp. polarization coupling.



THE BENEFIT

Robust, compact and almost maintenance-free

- Nearly maintenance-free operation – no moving parts
- Low operating costs – up to 30% efficiency
- Rugged and compact size allows easy integration to existing production systems or mounting to robotic arms
- Comprehensive range of accessories

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