

ROFIN DF 060 HP

High-power fiber-coupled diode lasers
Efficient, powerful and reliable

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THE PRODUCT

ROFIN's fiber-coupled diode laser is an ideal tool for brazing, cladding and surface treatment applications due to its smooth top heat beam profile and the high efficiency. The wavelength close to $1 \mu\text{m}$ achieves high absorption in many materials and ensures best results.

The modular design allows flexible power scaling and ensures high availability as well as ease of maintenance. In addition, standardized customer interface and a remote access for diagnostics provide highest user-friendliness.

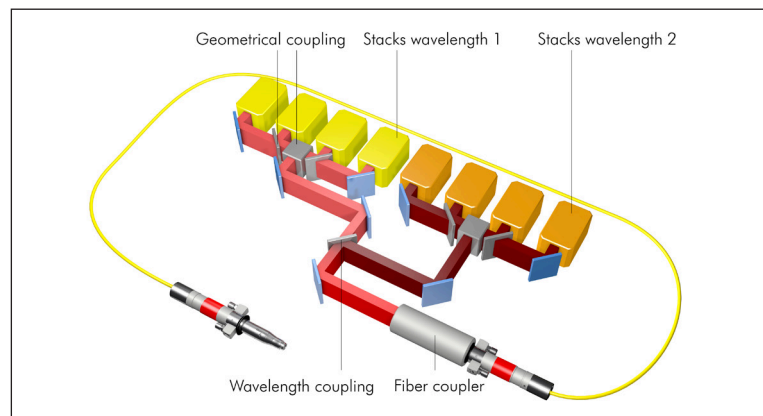
The robust system comes with an integrated cooling unit enabling the use of standard industrial tap water. As all ROFIN Macro products, the DF laser meets state-of-the-art industrial quality and safety standards.



Power scaling with 1 kW modules

THE PRINCIPLE

Converting electrical power directly into laser radiation – that's the by far most efficient way. Inside a ROFIN diode laser, multiple diode laser modules – each providing an optical output power of 1kW – are combined together and coupled into a multi-mode single core fiber. Each module is monitored individually and can be replaced on site if necessary.



THE BENEFIT

- Up to 6,000 W output power
- Homogenous energy distribution ideally for surface treatment applications or applications requiring a bigger spot size like cladding or brazing
- Cost and energy efficient
- Modular concept for high serviceability
- Comprehensive optional equipment such as climate control of the cabinet for use in extreme climatic conditions
- Integrated cooling unit, enabling the use of standard industrial tap water

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