

StarFiber – Sophisticated Fiber Laser Systems with Medium Power Rating

With the new fiber lasers of the StarFiber series, ROFIN Laser Micro comes out with sophisticated fiber laser systems with medium power rating. Laser sources provide 100 W and 200 W with fundamental mode beam quality and can be operated in either pulsed or cw mode. Excellent preconditions for a broad range of applications for fine welding and fine cutting.

Compact and robust set-up, excellent efficiency with optimal beam quality - these are the significant benefits of the new StarFiber lasers. For adequate applications, the laser sources can achieve extremely high welding speeds, which are higher compared to other systems, with extraordinarily small spot sizes - with less energy and lower heat input. In particular with the low-inertia scanner heads, the enormous process speed can be ideally utilized. Extremely dynamic welds, e.g. of thin metal sheets or foils are hence possible. Further applications are fine welds on electromechanic components or medical implants.

With their high beam quality, , the StarFiber lasers offer a wide range of applications also for fine cutting, e.g. in the production in the medical device industry, like cutting of implants (stents).

The ROFIN fiber lasers are controlled by the ROFIN control unit (RCU), which allows precise and reliable pulse shaping. The precise power control also considers the travel speed at the workpiece. All system functions can easily be operated via color TFT touch screen with graphical menu navigation and integrated help functions. Power supply and processing optics are integrated in compact housings and can be installed separately - a great benefit for easy integration into the production line.



Fig. 1 StarFiber – excellent efficiency at optimal beam quality



Fig. 2: Extremely dynamic welds, e.g. on thin metal sheets

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