

TruDisk Pulse 421:

Efficient
welding
of copper.



New technology: Pulsed disk laser with green wavelength.

The laser TruDisk Pulse 421 is based on disk laser technology. It operates with pulses in the millisecond range and an average power of 400 W. The green laser light with 515 nm wavelength is generated in the resonator via frequency conversion, guaranteeing extremely high efficiency.

Ideal for welding copper.

The TruDisk Pulse 421 offers numerous benefits, especially where the welding of copper is concerned. Copper absorbs green laser light far better than infrared, enabling the melt temperature to be reached faster. That means that welding can begin sooner, and you need less laser power. There is also far less spatter formation during this energy-efficient welding process. Welding results are also more reproducible than with other well-known laser methods. The TruDisk Pulse 421 welds copper seams with constant quality regardless of surface characteristics, ensuring sound and stable production.

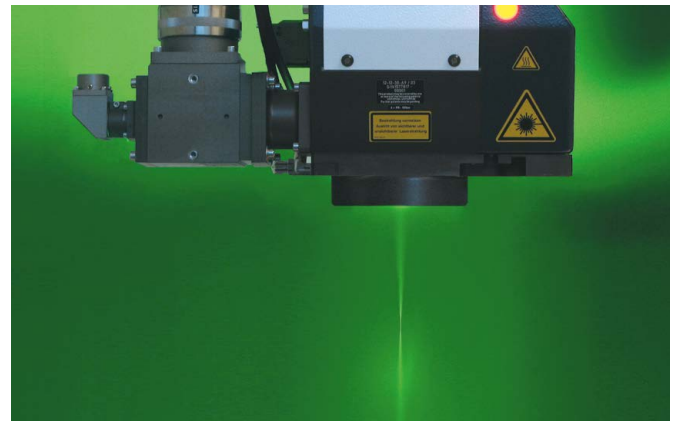
Great diversity of material.

The TruDisk Pulse 421 enables not only copper but also further materials such as gold, brass and bronze to be welded with high efficiency. It goes without saying that the TruDisk Pulse 421 also welds mild steel, stainless steel and aluminum with-

TruDisk Pulse 421: Your benefits at a glance.

- 1 High reproducibility of welding results.
- 2 Minimal spatter formation during welding of copper.
- 3 Highest efficiency.

out a problem. Whether surfaces are oxidized, ground, sand-blasted, rough, or polished to a fine shine, the green laser light gives you weld seams of constant quality. Production costs are also greatly reduced, since the usual auxiliary processes are no longer required.



	TruDisk Pulse 421	TruDisk Pulse 221
Wavelength	515 nm	515 nm
Average laser power	400 W	200 W
Max. pulse power	4 kW	2 kW
Max. pulse energy	40 J	20 J
Beam quality	4 mm · mrad	4 mm · mrad
Minimum Ø of laser light cable	100 µm	100 µm

Subject to alteration. Only specifications in our offer and order confirmation are binding.