TruDisk with green wavelength

Welding on the green side of light

Increased laser power of 2 kW

01 Top quality

02 Maximum reproducibility

03 Highest productivity

04 Proven disk laser technology
Top quality

The green wavelength is absorbed very well in copper: At room temperature, the absorption of the green wavelength is 8 times higher than that of infrared. With the TruDisk with green wavelength, it is therefore possible to weld copper with superb stability and almost free of spatter. This fulfills the highest of quality requirements for the weld seam and the welded part.

Absorption curve of copper

With a wavelength of 515 nm, the green TruDisk lasers are the ideal tool for copper welding.

Maximum reproducibility

The TruDisk with green wavelength is perfectly suited for the reliable heat conduction welding of thin copper sheets and of edges. This could not be done reproducibly with IR lasers. With deep penetration welding, the TruDisk with green wavelength is known for its very constant welding depth. You get ideal weld seam quality with both applications, regardless of the material surface. Previous steps involved in process preparation can now often be omitted.

Heat conduction welding of copper foil with v = 10 m/min, seam surface and cross section.

Maximum reproducibility

Welding of copper contacts on DCB substrate with well controlled welding depth using TruDisk 1020.

Welding of electronic components with minimum spatter formation thanks to green wavelength.

Welding of battery foil stacks consisting of 100 copper foils with TruDisk 2021. Left: Regular seam surface without ejections. Right: Cross section of the poreless weld seam with large joint area.

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Proven disk laser technology

When it comes to robustness, reliability and industrial suitability, put your trust in the TruDisk lasers from TRUMPF. There are already 12,000 disk lasers in use around the world. TRUMPF offers you a unique all-inclusive package: laser, laser light cable, focusing optics and sensor system – developed and tested for the green wavelength.

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