ti80 CO₂ Laser

Compact laser with more than 80 Watts average power for high-speed marking, cutting, and 3D printing applications

Industrial CO₂ laser engineered for high performance and power at 9.3 µm, 10.2 µm, and 10.6 µm wavelengths

- Improve marking, engraving, cutting, and SLS 3D printing throughput with over 80 W average power regardless of wavelength
- Ensure efficient energy delivery and better throughput with fast rise/fall times
- Utilize space efficiently with the compact footprint consistent across all the ti series lasers
- Choose the most effective and economical cooling option for your system: available in air, fan, or water-cooled models
- Maximize design flexibility with consistent beam exit height across all lasers in the ti and vi series
- Patented taper technology enables a hybrid unstable and waveguide resonator to maximize optical efficiency and power output at all CO₂ wavelengths
- Optimize your application: available in multiple CO₂ wavelengths, cooling options, and in a high stability package

Maximize Design Flexibility

The consistent beam exit height across all lasers in the ti Series enables easy upgrading of laser power for laser processing equipment. OEMs can now offer their customers more upgrade options without extensive reengineering costs.

Synrad
A Novanta Company
ti80 CO2 Laser

Technical Illustrations dimension are in mm (inches)

Outline and mounting drawings for fan and water-cooled models are available on the Synrad website at: https://www.synrad.com/products/lasers/ti-series.

Air-Cooled

Recommended Applications

General Cutting

High Speed Coding

3D Printing

80 W of power and fast rise/fall times ensure clean, crisp cutting. Multiple wavelength options enable cutting across a wide range of materials.

Perfectly suited for high speed production lines where permanent marks and codes are required to ensure product quality and traceability.

Excellent choice for SLS printing, patented taper technology maximizes optical efficiency and power output.

Contact Us

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