

TruMark 5050:

Productive
and flexible.



01

**Productive
and flexible**

02

Easy to integrate



03

Impressively versatile



01

Productive and flexible

The TruMark 5050 complements the successful TruMark Series 5000. For high-quality engraving and the finest of structures, this fiber laser is the first choice – thanks not only to its good focusability based on excellent beam quality but also its high productivity due to its high average power. Pulse form and duration can both be flexibly varied by the operator. Short pulses enable precise energy transfer and ensure higher part quality, while long pulses boost productivity. The low-maintenance, air-cooled marking laser system is always economically efficient.

Technical data		
		TruMark 5050
Wavelength	nm	1062 ± 3
Pulse repetition frequency	kHz	cw, cwm, 1–1000
Adjustable pulse duration	ns	7–500
Max. size of marking field ^[1]	mm	290 × 290 f = 420
Min. focal diameter ^[2]	µm	44
Max. internal focal position adjustment ^[3]	mm	± 60
Laser medium		Yb: fiber
Beam quality M ² Intensity allocation		1.6 Low-order-Mode
Protection class		IP 54
Weight of processing unit/power-supply unit	kg	8/47
Dimensions of processing unit (L × W × H)	mm	414 × 131 × 157
Dimensions of power-supply unit (L × W × H)	mm	414 × 131 × 157

^[1] Other lens and marking field sizes available. ^[2] Where f = 100 mm.

^[3] Depending on the focal length.

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



02

Easy to integrate

This marking laser of modular design is always easy to integrate thanks to its plug-and-produce connectors and its compact processing head. With the help of its internal defocusing, the focus can easily be shifted without an additional Z axis. A mechanical shutter guarantees user safety, while the optical insulator protects the laser from back reflections.

03

Impressively versatile

With its infrared wavelength, this fiber laser is highly versatile in use. It marks metals such as aluminum, stainless steel or copper as easily as plastics. Its combination of high average power and different pulse forms also makes it suitable for microprocessing. The laser is used wherever especially high productivity is important. Typical areas of application include precision engineering, medical technology, the electronics industry and the automotive industry.

