.NEW

TruFiber G – Your economical cutting solution

Unleash Cutting Excellence

05

VariMode

Tailored cutting processes with adjustable beam parameters for diverse materials and thicknesses

01

Unrivaled beam quality

Superior precision with better defined beam parameter product

02

Boosted power redundancy

High power redundancy, maintaining stable performance and reducing downtime

04

Uncompromised safety

Global safety standards with Performance Level e (PLe)

03

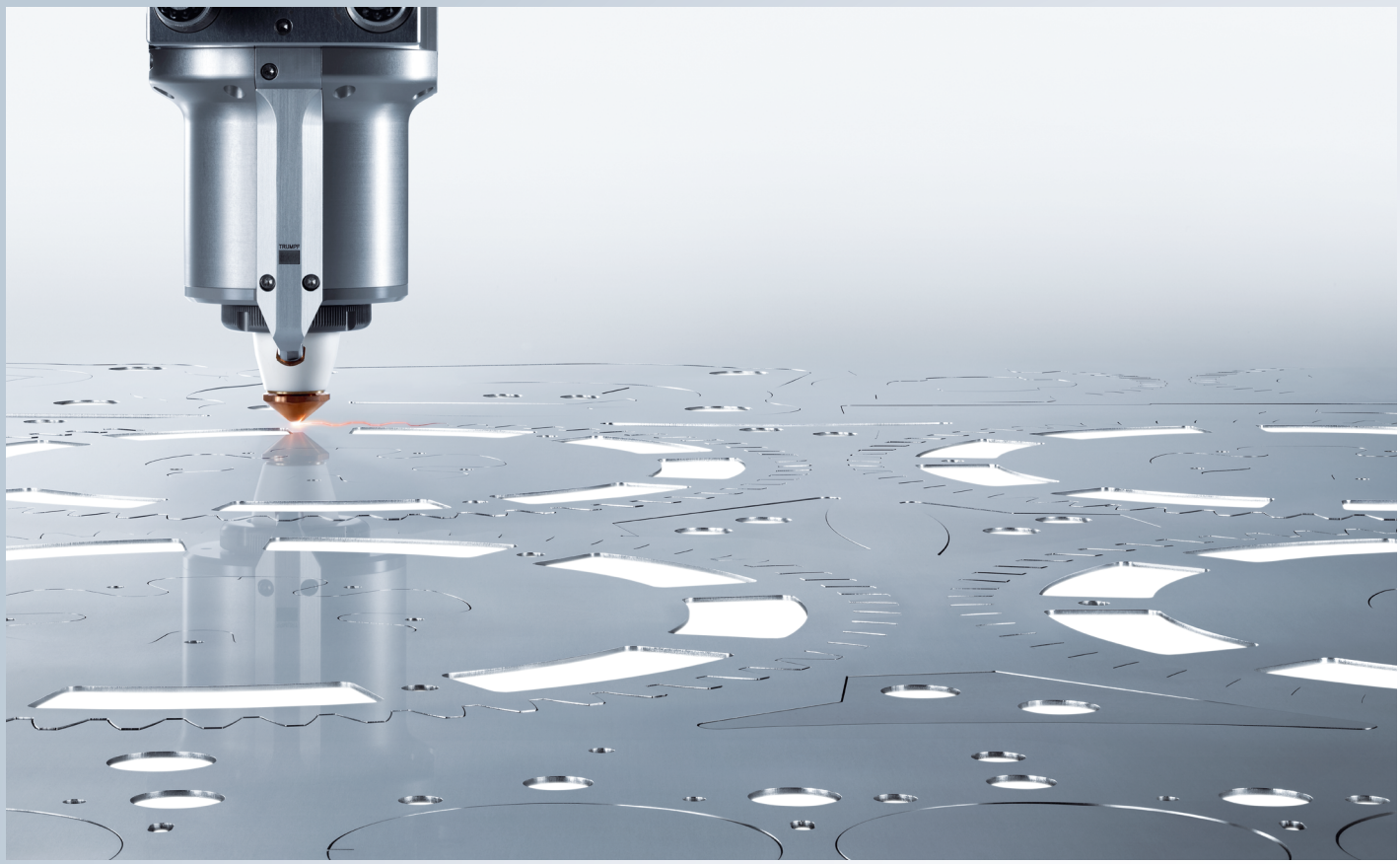
Enhanced power stability

Consistent cutting performance with ±1% power stability

TRUMPF

Machine Tool / Electrical Tool

Laser Technology / Electronic product



Unrivaled beam quality

The TruFiber G series boasts exceptional beam quality across all models, delivering unmatched cutting precision and accuracy. This superior beam quality enables clean, precise cuts for a wide variety of materials and applications, setting the TruFiber G apart from its competitors.

VariMode option

With VariMode, you can dynamically switch between low and high beam parameter product modes for optimal cutting performance. Adapt the beam profile in real-time to best suit your specific cutting application, resulting in faster process speeds and improved cut quality.

Boosted power redundancy

The TruFiber G series features plenty of power redundancy. This built-in power overhead feature maintains consistent performance over the full deployment lifetime and ensures sufficient power for every situation.

Enhanced power stability

The TruFiber G Series ensures consistent cutting performance with ±1% power stability. This high level of stability guarantees reliable results every time, maintaining quality and efficiency in your cutting operations.

Compliant, safe & user-friendly

The fully-featured laser control and safety suite ensures seamless integration into global working environments. The TruFiber G Series is compliant with Performance Level e (PLe) and CE standard. With IP54 rating and EtherCAT integration, it meets and exceeds operational standards worldwide.

Rapid modulation

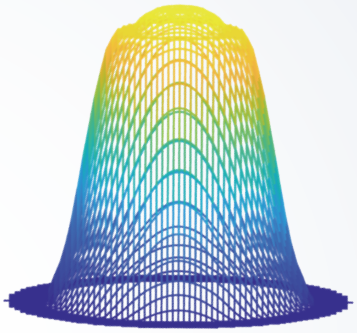
Translate full power into full productivity with the TruFiber G's modulation speed of up to 10 kHz and a full suite of control modes. Several analog, digital and software modulation modes enable optimised process control. Smart functionality reduces processing time and boosts overall performance.

Experience the TruFiber G series advantage, stay ahead of the competition.

Patented TRUMPF VariMode option

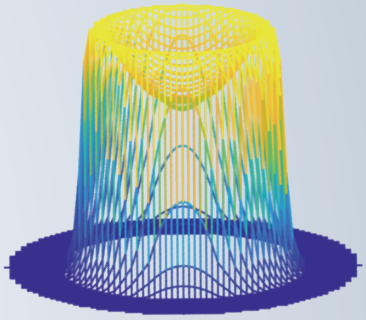
Benefits:

- Beam profile tailored to your process
- Vastly increases process window → dramatically reduces set up times
- Optimised processing of wider range of materials and thicknesses → improved system flexibility
- Potential to use standard focus head, replacing a zoom version → reduced weight and cost of overall system



Switch between beams at your convenience

<40 ms



Low BPP Mode

Optimised for high speed, high quality piercing in thick sheets and giving fastest cut speeds in thin materials.

High BPP Mode

Optimised for cutting through thick metal sheets at high speed, producing an excellent surface finish

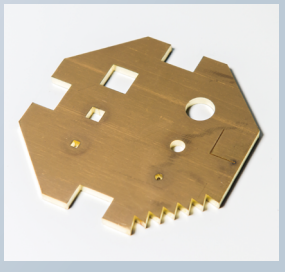
Various applications in the area of laser cutting

Material magician

TruFiber G Laser – your go-to solution for cutting various materials with confidence: from mild to stainless steel all the way to highly reflective materials.

Shape your vision

TruFiber G Laser – navigating complex contours effortlessly for unmatched cutting results. Our powerful laser technology smoothly follows the curves of your designs, ensuring a flawless finish every time.



TruFiber G				
		TruFiber 3001 G	TruFiber 6001 G	TruFiber 12001 G
Output power (at delivery fiber output)	kW	3	6	12
Polarization		Random		
Pulse duration		20 µs – CW		
Rise time	µs	< 10		
Fall time	µs	< 10		
Max. modulation frequency	kHz	10		
Lowest stable output power	W	60	120	240
Power stability (over 8 hours)		±1% (±0.5% customizable)		
Beam quality	mm·mrad	3.3 / 3.8 / other customizable		
Output fiber length	m	20		
Terminator type		QBH / QD		
Coolant temperature (non condensing)	°C	25±2		
Chiller connection diameter	mm	25.4 (1 inch)	25.4 (1 inch)	32 (1.25 inch)
Coolant materials compatibility		Stainless steel and plastic (only use DI water)		
Width	mm	600		
Depth	mm	1200		
Height	mm	900		
Weight	kg	250	280	370
IP rating		IP54		
Operation environment		5 – 45 °C, 5 – 80% RH		
Storage environment		-20 – 70 °C, 0 – 95% RH		
Option		VariMode: customizable beam parameter product from 3.3 mm·mrad to 4.5 mm·mrad Fieldbus: EtherCAT Pierce detection		

*Subject to alteration. Only speci fications in our offer and order con firmation are binding.

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