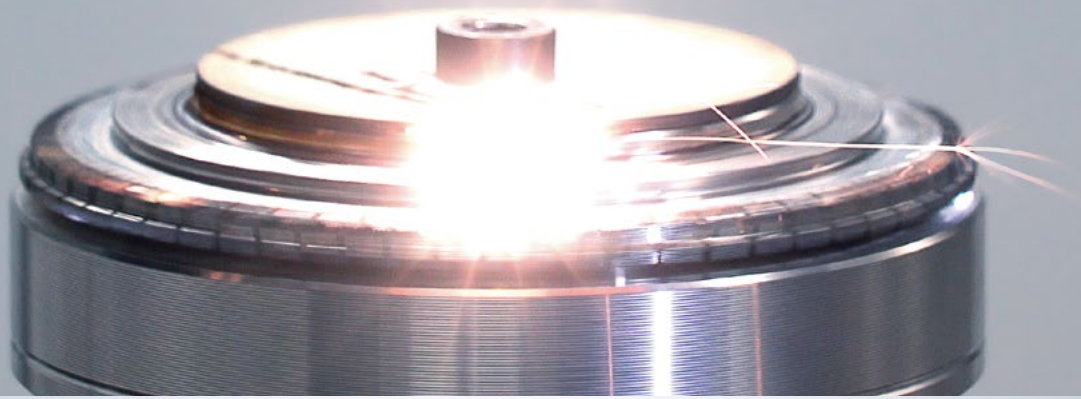


.NEW

BrightLine Weld

Low-spatter
welding



01

**Minimum spatter and
top-quality weld seams**

02

**Increased
productivity**

03

**Lower energy
consumption**

04

**Reduced
operating costs**

01

Minimum spatter and top-quality weld seams

BrightLine Weld enables laser welding almost free of spatter. The result is high-quality welding seams able to meet high-strength requirements and showing neither seam collapse nor end scratches. Distortion in the part is also reduced because of the lower energy input.

02

Increased productivity

With BrightLine Weld, you can increase your productivity with significantly higher feed rates, and do this with unchanged seam quality. You can, for example, increase your feed rate with mild steel by about 300% to 20 m/min.

03

Lower energy consumption

This new technology can be used to optimize energy efficiency. A lower laser power is needed to achieve the same welding depth. Your energy costs, therefore, drop by up to 40%.

04

Reduced operating costs

Because of the low spatter formation, there is less dirt on the components, clamping fixtures and optics. You profit from low machine idle times, less post-processing of your components and a longer protective glass service life.



The innovative TRUMPF BrightLine Weld technology consists of a TruDisk laser with the BrightLine Weld option, the patented 2in1 laser light cable and a standard focusing optics of the BEO or PFO series.



TruDisk laser



Optics series BEO, PFO



2in1 laser light cable

You can weld materials such as mild steel, stainless steel or even copper and aluminum almost free of spatter using BrightLine Weld. Especially with powertrain processes, the new BrightLine Weld technology shows its advantages, for example, with the welding of gear wheels.



TruDisk laser with BrightLine Weld option

Easy operation: Setting the optimal power distribution in TruControl

Flexible use: Different processing modes for maximum part variety

Modular design: A retrofit of the BrightLine Weld option is possible in the field

Maximum utilization: Up to 5 outputs with BrightLine Weld

