



Press Release

TRUMPF showcases new disk lasers with up to 24 kilowatts power

New TruDisk lasers excel at cutting and welding thick sheets to deliver stellar quality // USP: TRUMPF BrightLine tech puts laser power to versatile use // the most powerful industrial disk laser on the market today

Ditzingen/Munich, Germany, April 26, 2022. The high-tech company TRUMPF presented the latest generation of its TruDisk high-power, solid-state lasers at the leading global laser trade show, LASER – World of Photonics in Munich, Germany. The most powerful industrial disk lasers on the market today deliver a hefty 24 kilowatts of output power. Suitable for cutting, welding and machining surfaces, these new TruDisk lasers are a great choice for jobs that require a combination of high power output and maximum beam quality – for example, to cut thick sheet metal and steel, and to weld thick sheets. “With this powerful new TruDisk generation, we are primarily addressing the heavy industry’s welding needs,” says Evangelos Papastathopoulos, the TRUMPF product manager responsible for these new disk lasers. This industry is comprised of shipbuilders, crane and construction machine engineer companies and automakers in general. High-power lasers of this sort see frequent use in hybrid applications that combine laser and arc welding.

BrightLine technology – peerless on the market

“That said, the new TruDisk generation is also perfect for cutting sheet metal and steel,” adds Papastathopoulos. “TRUMPF’s BrightLine technology gives customers so much flexibility that they can cut thick and thin materials almost at the touch of a button! That’s our unique selling point – and it offers real added value for our customers.”

At the heart of this BrightLine technology is a two-in-one laser light cable (LLK) with an inner and an outer fiber core patented by TRUMPF. A TruDisk disk laser couples the laser light into the LLK and distributes the laser power to the inner and outer cores using a device known as a wedge switch. This affords the user greater latitude and precision in adjusting laser power and the beam profile to the



Press Release

given sheet's thickness. When cutting and welding, BrightLine distributes the laser beam and its energy on the part to achieve optimum results for the given material and thickness. As a cutting tool, it produces smooth edges. As a welding tool, it reduces spatter and results in a higher quality seam.

This sixth TruDisk generation also comes with an impressive set of proven features such as the beam guidance system. It enables users to plug cables into multiple outputs to use the laser light for several systems without compromising power and beam quality. Active Power Control keeps the high power output and process stable. With the patented TruDisk resonator and the newly designed LLK-X connector, this laser is also able to machine highly reflective materials such as copper without disruptions caused by reflected light.

Digital photos in print-ready resolution are available to illustrate this press release. They may be used only for editorial purposes. Photographs may be reproduced free of charge provided acknowledgment is made of the source ("Photo: TRUMPF"). No alterations may be made to graphical content, with the exception of modifications designed to emphasize the central motif. Additional photos are available from the [TRUMPF Media Pool](#).



TruDisk optics

Cables may be plugged into the multiple outputs to use the laser light for several systems without compromising power and beam quality.



TruDisk's 24 kilowatts

The most powerful industrial disk lasers on the market, the new TruDisk models deliver hefty 24 kilowatts of output.



Press Release



About TRUMPF

TRUMPF is a high-tech company offering manufacturing solutions in the fields of machine tools and laser technology. The Company drives digital connectivity in the manufacturing through consulting, platform products and software. TRUMPF is a technology and market leader in highly versatile machine tools for sheet metal processing and in the field of industrial lasers.

In 2020/21, the company employed some 14,800 people and generated sales of about 3.5 billion euros. With over 80 subsidiaries, the TRUMPF Group is represented in nearly every European country as well as in North America, South America and Asia. The company has production facilities in Germany, France, the United Kingdom, Italy, Austria, Switzerland, Poland, the Czech Republic, the United States, Mexico and China.

Find out more about TRUMPF at www.trumpf.com

Press contact:

Dr. Manuel Thomä
Head of Media Relations TRUMPF
+49 7156 303 30992
Manuel.Thomae@TRUMPF.com

TRUMPF SE + Co. KG, Johann-Maus-Straße 2, 71254 Ditzingen, Germany