Press Release

TRUMPF Group
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Press/Public Relations

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Pulsed solid-state lasers from TRUMPF

Finely graded: Twelve models in the TruPulse series provide the right laser for any application

The newest TruPulse models are the latest in the series of pulsed solid-state lasers that TRUMPF introduced just last year. As a result, the TruPulse series now encompasses twelve different models with their average power ranging from 20 W (TruPulse 21) to more than 500 W (TruPulse 556). With pulse peak powers in the kilowatt range beam qualities of 4 to 25 mm*mrad can be achieved. At PRODUCTRONICA TRUMPF shows in a live demonstration the TruPulse 156 integrated into the TruLaser Cell 3002 welding plugs in burst mode.

All TruPulse lasers feature the so-called Power Regulated Burst. It allows the average power to be briefly exceeded and increases the pulse frequency – thereby reducing the welding cycle. With Long Pulse Welding a complete seam can be welded with one single pulse by moving the workpiece or the laser beam.
The maximum average power, pulse energy, focusability and beam quality can be selected depending on the requirements of the application area. A removable touch-screen operator panel with turn-push button simplifies the laser operation.
Improved real-time power control represents another impressive feature that provides very high pulse-to-pulse stability. Graphical pulse shaping supports cutting and welding of critical materials like copper. All lasers are water cooled. Up to an average power of 150 W they can also be provided with air cooling instead. With up to six laser light cables, the laser can be used by several workstations. The TRUMPF TelePresence Portal provides the option for service technicians to securely access the lasers for remote maintenance regardless of their location.

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For decades, pulsed solid-state lasers have been used to weld and cut a wide range of components. They have become indispensable in industrial production. The TruPulse series is used in the automotive industry, for example, in the manufacture of sensors, actuators, and fuel injection components. Pulsed solid-state lasers are also used in the production of consumer electronics, precision machined components, and medical devices - primarily to weld and cut filigree components.

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TRUMPF is a high-tech company focusing on production, laser and medical technology. Further information on the company can be found at www.trumpf.com, about the laser technology business field at www.trumpf-laser.com.

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