

Burbach, 17.09.2026

Experience Laser Technology Live: IPG Photonics at EuroBLECH 2026

IPG Photonics will present new solutions and demonstrate live how modern laser technologies can improve precision, speed, and cost-effectiveness in sheet metal processing.

At EuroBLECH 2026 in Hannover, IPG Photonics will present laser sources, processing heads, and system solutions for key industrial sheet metal processing applications. The focus will be on solutions for high-power laser cutting, laser welding, handheld laser welding, and laser cleaning. Visitors will gain an overview of different approaches to cutting, joining, and preparing metal components and will be able to experience selected processes live.

“The key to cost-effective sheet metal processing is the coordinated interaction between the laser source, beam delivery, and the process itself. At EuroBLECH, we will demonstrate how this combination enables high processing speeds while maintaining consistent quality in cutting, welding, and cleaning,” explains Nils Heininger, European Commercial Leader at IPG Photonics.

High-Power Cutting

One focus of the company's presence at the trade fair will be high-power laser cutting. IPG Photonics will present the YLS-60000-RI with a 60 kW cutting head, as well as the YLR-12000-U3 CUT and YLR-6000-U3 CUT laser sources. Various cut samples will illustrate the processing results that can be achieved with these systems. The combination of a fiber laser source and optimized beam delivery enables high cutting speeds with consistent quality, making it particularly suitable for automated manufacturing processes.

Laser Welding

In addition to laser cutting, laser welding will be another key focus. IPG Photonics will present the YLS-40000-R CT together with a beam delivery system designed for high-power processing. In wobble welding, the laser beam is moved in a controlled pattern across a defined area. This allows the energy distribution and weld geometry to be adjusted, potentially widening the process window and increasing tolerance to fit-up variations.

“The individual processing steps directly affect the quality of subsequent processes. That is why we do not consider cutting, welding, and surface preparation in isolation, but tailor each technology to the specific manufacturing task,” adds Nils Heininger.

IPG Photonics will also demonstrate the LightWELD 2000, a solution for handheld laser welding. The system will be presented with a wire feeder and dual-wire adapter. Its lower heat input can help limit thermal distortion, particularly when processing thinner sheets. The wire feeder also supports joining applications that require additional filler material.

Laser Cleaning

Laser cleaning solutions from cleanLASER will also form part of the trade fair presentation. IPG Photonics will showcase the new CL 500iM *mobile* handheld laser cleaning system, together with practical industrial

application examples. This non-contact technology is particularly suitable for targeted surface preparation prior to welding or coating processes.

IPG and cleanLASER will also present high-speed cleaning solutions, including line-focus and polygon scanner systems for the efficient processing of strip material at speeds of several meters per second. Thanks to its high intensity, the new polygon scanner is also particularly suitable for structuring and selectively modifying metal surfaces.

Live Demonstrations

Both technologies will be demonstrated under practical conditions at EuroBLECH. In an outdoor welding cell, IPG Photonics will provide live demonstrations of welding with the LightWELD 2000 and laser cleaning with the CL 500iM *mobile* from cleanLASER. This will allow visitors to see the processes and resulting finishes firsthand.

In personal discussions with IPG Photonics experts, visitors can address specific requirements relating to components, materials, sheet thicknesses, and manufacturing processes and learn more about suitable laser sources, processing heads, and system concepts.

IPG Photonics and cleanLASER will exhibit at EuroBLECH in Hannover from October 20 to 23, 2026, in Hall 16, Booth D34. Additional live demonstrations will take place in the outdoor area.

About IPG Photonics GmbH & Co. KG

Since 1990, IPG Photonics has been applying the power of light to transform the world. Today, IPG offers a broad range of high-performance lasers and laser systems used worldwide in materials processing, medical technology, and other demanding applications. IPG is proud to develop some of the most productive, reliable, and energy-efficient laser solutions on the market. The company also provides comprehensive laser process and application development services to deliver high-performance solutions for virtually any industry and application.

Clean-Lasersysteme GmbH (cleanLASER) is part of the IPG Photonics Group and a market leader in industrial laser cleaning. For more information, visit:

<https://www.ipgphotonics.com>

Press Release



Images:



Caption:

IPG Photonics Showcases Innovative Laser Technologies for Sheet Metal Processing at EuroBLECH 2026

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https://go.ipgphotonics.com/euroblech-2026_trade-fair-campaign/

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