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Figure 5: A flexible laser processing head in action, which is suitable for cutting, welding and additive processes. Image courtesy of Fraunhofer ILT, Aachen, Germany.

IPG welding head technology delivers the highest laser powers in a compact and cost-effective package. The modular design enables users to select the head configuration best suited for their process and ...

In particular, it compares the capabilities and characteristics of diode lasers with other welding laser technologies, reviews the applications best suited for diode welding and provides some guidance on ...

Before delving further into welding with diode lasers, it makes sense to discuss the different laser welding techniques: keyhole and conduction welding. Both of these are typically ...

This page describes the difference between semiconductor (LD) laser welding, also called laser diode (LD) welding, and gas laser or solid-state laser welding. This page also explains the excitation ...

Laser Welder Head works by directing and focusing the laser beam onto the material being welded, using a system of lenses, mirrors, and sensors. The laser welder head receives the ...

From surface cladding to precision welding and intelligent temperature-controlled hardening, our heads deliver optimized results across demanding applications and materials.

Laser beam sources in the visible wavelength range (VIS) prove to be an alternative due to an increased absorption of the laser energy in copper-based alloys. This paper presents the ...

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