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Hybrid Laser Arc Welding Has Its Time  
Finally Arrived? During the 2010  
Fabtech show, Lincoln Electric and  
IPG Photonics announced a strategic  
partnership for the development of  
HLAW welding systems. The  
promotion of HLAW by one of the  
world's largest arc welding companies  
suggests a positive shift in how  
industries view the process.

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Hybrid Laser Arc Welding — Has Its Time Finally Arrived? Paul Denney, Senior Laser Applications Engineer, Lincoln Electric Corporation, Cleveland, OH History of HLAW Having traditional welding companies embrace a laser based technology has not occurred overnight. The combination of a laser with an arc process to address

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Hybrid Laser Arc Welding Has Its Time Finally Arrived? During the 2010 Fabtech show, Lincoln Electric and IPG Photonics announced a strategic partnership for the development of HLAW welding systems. The promotion of HLAW by one of the world's largest arc welding companies suggests a positive shift in how

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As an extension of the revolutionary Power Wave® Waveform Control Technology®, Lincoln Electric's patentpending Hybrid Laser GMAW process allows for the use of a single controller to manage the synergic operation of BOTH welding current and laser power, unlike conventional offerings.

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2009-06-26 Hybrid laser-arc welding (HLAW) is a combination of laser

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Electric welding with arc welding that overcomes many of the shortfalls of both processes. This important book gives a comprehensive account of hybrid laser-arc welding technology and applications. The first part of the book reviews the characteristics of the

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Lincoln Electric and IPG Photonics partner for the development of Hybrid Laser Arc Welding (HLAW) welding systems. The promotion of HLAW by one of the world's largest arc welding companies suggests a positive shift in how industries view the process.

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Laser Arc Welding (HLAW) welding systems. The promotion of HLAW by one of the world's largest arc welding companies suggests a positive shift in how industries view the process.

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Hybrid laser-arc welding is a joining process simultaneously combining arc and laser welding in the same weld pool. In theory, the beam from any welding laser source (CO<sub>2</sub>, Nd:YAG, diode, Yb fibre, Yb:YAG disk etc) can be combined with any arc process (MIG/MAG, TIG, SAW, plasma). Typically, however, hybrid laser-MIG/MAG and laser-TIG are the most common process combinations.

Hybrid Laser Arc Welding at TWI -  
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In most cases, the combination of the laser with an arc process was to address the fit up, chemistry, or power limitation of the laser. And while most hybrid processing has been centered on gas metal arc welding (GMAW) (Figure 2), there have been others who have investigated combining lasers with gas tungsten arc welding (GTAW) (Diebold and Albright, *Welding Journal*, 1984) and plasma (Walduck and Biffin, *Welding Research Abroad*, 1995).

Hybrid laser arc welding: Has its time arrived ...

Laser arc hybrid welding, which simultaneously uses a high power laser and a conventional arc, has been developed to improve the welding speed and quality. After the development of hybrid welding

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techniques, a considerable number of studies have been carried out on system configurations, parameter optimization and the characteristics of weld beads.

Laser-Arc Hybrid Welding - an overview | ScienceDirect Topics  
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This hybrid laser-arc complex  
contains: IPG fiber laser LS-15, arc

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power source with current of up to 1500 A, and numerical control filler wire feeding equipment, special working tools, CNC module of preparation, and distribution of used gases, monitoring system of the welded joint, tracking system with scanner laser sensor, process monitoring system, and control system.

## Laser and Hybrid Laser-Arc Welding | IntechOpen

Researchers generally believe that synergy effect between laser and arc enables laser-arc hybrid welding to acquire obvious advantages of efficiency and quality in welding aluminum alloys. However, influences of physical essence of the synergy effect on welding process were not clear.

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