

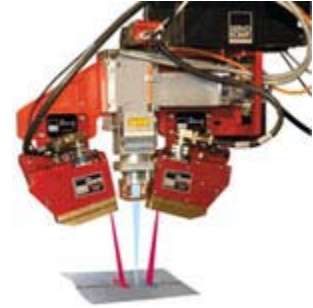
Product Feature

DIGI-LAS/MDL™

INTELLIGENT LASER JOINING HEAD

with 3D Laser-Vision and Video Monitoring for Joint Tracking and Inspection

The Modular **DIGI-LAS/MDL** instrumented laser joining system integrates two 3D laser-cameras, one digital laser-camera allowing for high-accuracy positioning of the welding laser focal point by automatically compensating for part dimensions and fit-up tolerances. A second 3-D laser-camera enables weld bead inspection while welding is performed as well as real-time process control.



Features:

- Capable of welding curved joints and complex 3-D parts with an articulated robot combined with precision high speed actuators.
- Automatic validation of weld bead geometry.
- Detection of pinholes.
- 2D camera for monitoring of the process.
- Optional automatic calibration of focal spot position system through vision channels.
- Easily integrates with any robot brand or CNC machine.

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APPLICATIONS

- Mono-thickness laser welded blanks.
- Bi-thickness laser welded blanks.
- Car roof welding
- Any part requiring laser welding

INDUSTRIES USING LASER WELDING

- [Shipbuilding](#)
- [Automotive](#)
- [Aerospace](#)

QUANTA™ LASER-CAMERA

The QUANTA laser-camera is a very high resolution laser-camera with an embedded 2D camera for remote monitoring. QUANTA is designed to perform both seam tracking and inspection for high precision joining processes like Laser, TIG and Plasma Welding.

Features:

- Rugged frame for industrial environment.
- Dynamic programmable region of interest (ROI) which automatically maintains the camera field of view centered on the joint or the weld.
- Run at frequencies up to 2000Hz.
- Extremely high resolution which allows for tracking of precision joints as well as detection of very small defects during inspection.
- Automatic laser shut-off when the protective lens is not present.
- Automatic laser power control for optimum quality profile.
- Pressurized air flow to protect lens from fume and dust.
- Immunity to high frequency electromagnetic noise environments (optional).
- Long stand-off for easy access to the parts.



QUANTA laser-camera with illustration of laser and 2D field of view

NEWS & EVENTS

[Jeffrey Noruk of Servo-Robot Corp. elected to the 2008 Class of Counselors of the American Welding Society](#) 11-2008

February 5-7, 2009
[WeldIndia Expo 2009](#)
Bombay Exhibition Centre
Mumbai, India

May 12-15, 2009
[Schweissen & Schneiden Russia](#)
Krasnaya Presnya Fair Complex
Moscow, Russia

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