



LASER WELDING SOLUTIONS & SPMs

Customized Robotic, Gantry, Rotary, Linear etc. CAD-CAM/Automation
Integration of 100-6000W IR Laser as Per Application.

Benefits at a Glance

High quality welds with great strength & fully reproducible

Minimized thermal heating / Heat affected zone (HAZ)

Ability to weld dissimilar metals

Jigs & Automations

Aeronautical · Automotive · Electrical & Electronics · Tool & Mold Making · Medical · Solar · Laboratory and Research Centers

European components selected carefully

LASER WELDING ON EV BATTERY PACKS



Tab to busbar welding*

·Busbar Material – Cu , Al
·Thickness –
For Cu – 0.5 mm to 2.5 mm
For Al – 1.0 mm – 2.0 mm



Foil to tab welding*

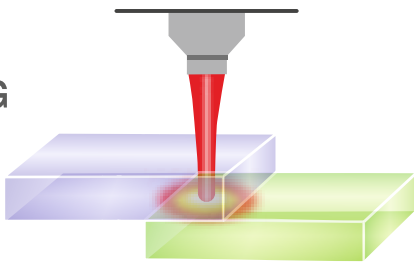
·Foil Material – Cu , Al
Total foil thickness – 400 microns(approx)
·Tab Material – Cu (Ni Plated)
Thickness - 200 Microns(approx)



Tab to tab welding*

·Tab Material – Cu (Ni Plated)
·Thickness - 200 Micro metre

LASER WELDING SOLUTION FOR PLASTICS

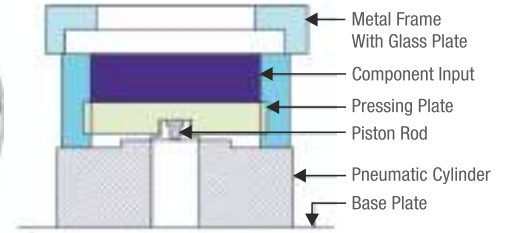


Transmissive laser welding
Weldable Material

Acrylic, PC, PE, PA, PP, PET, PETE, ABS, etc...



Plastic Laser Welding



Special clamping module
with uniform contact pressure
Laser
300 W Diode lasers (800-1000 nm)

LASER WELDING SOLUTION FOR OTHER INDUSTRIES/MATERIALS



Laser Spot Welding on
Li-ion Battery Tab



Keyhole Welding on
Automotive Gears



Heat Conduction Welding on
Medical Implants

LASER WELDING TECHNOLOGY/TYPES

Spot & Seam Welding · Scanner Welding · Wobble Welding · Laser Welding of Plastics/Polymers
Deep penetration/Keyhole Welding · Heat Conduction Welding

*Laser source: 300-1000W IR Laser depending upon the nature and thickness of the materi

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