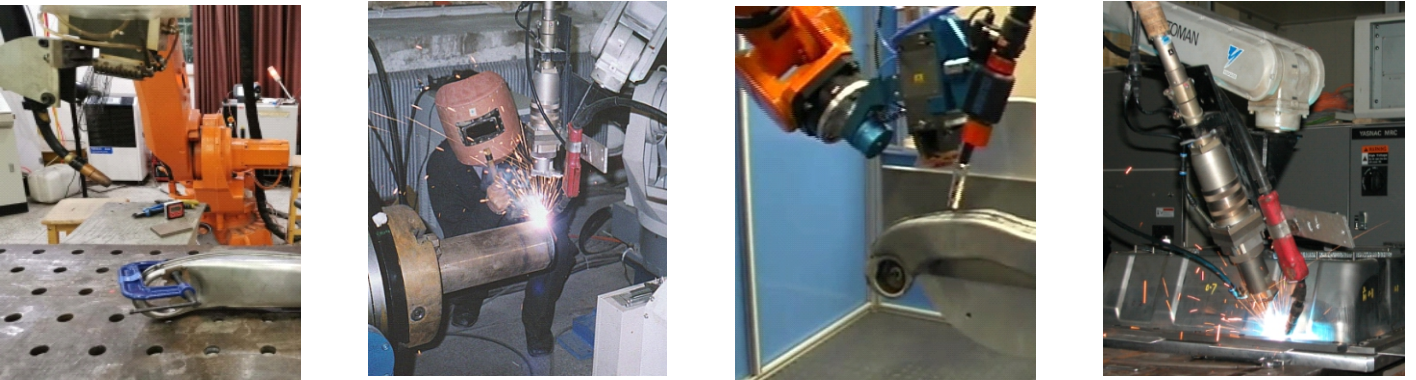


# Parameters

| Item                                | Parameters        | Remarks                         |
|-------------------------------------|-------------------|---------------------------------|
| Laser power                         | 15kW              |                                 |
| Beam quality                        | 5mm-mrad          | @100μm                          |
| Central wavelength                  | 1070nm            | ±10nm                           |
| Power stability                     | ±1%               | @24H                            |
| Modulation frequency                | Max:20kHz         |                                 |
| Welding current(max)                | 500A              | DC Mode(No Pulse)               |
|                                     | 400A              | DC Mode (With Pulse)            |
| Duty cycle                          | 100%              | @Ambient temperature below 45°C |
| Optical platform scanning range     | Max:12mm          |                                 |
| Optical platform scanning frequency | Max:500Hz         |                                 |
| Welding capacity(max)               | Carbon Steel:20mm | Effective welding quality       |
| Welding head weight                 | 35kg              | Standard configuration          |
| Rated power consumption             | Max:55kW          |                                 |

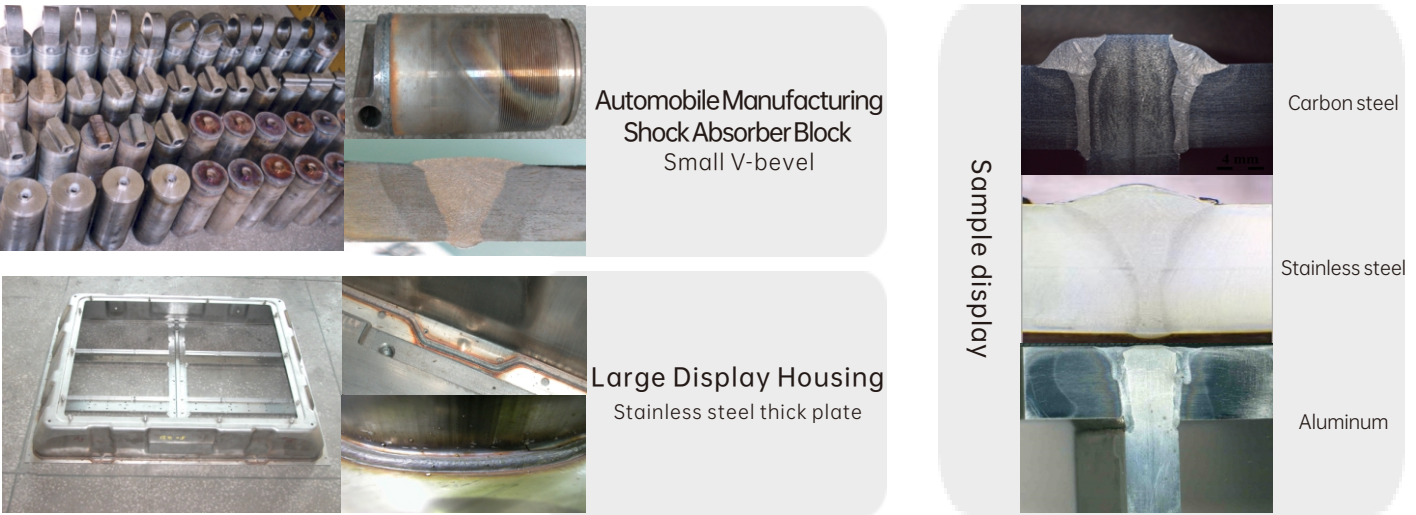


# Equipment Pictures



Auto Parts Welding    Shock Absorber Block Welding    Auto Parts Welding    Display Housing Welding

# Applications



Redefine the Performance of Laser Welding

# Laser-MIG Hybrid Welding

- Powerful Combination of Laser Welding and Arc Welding Technology Reach Higher Penetration
- Faster Welding Speed to Improve Welding Efficiency
- Lower Unit Line Energy and Lower Welding Distortion
- Strong Weld Bridging, Insensitive Weld Gap, Wide Weldable Range
- Attractive Welding Seam Better than Laser Welding



# Technical Principles

## Laser and MIG 1+1>2 Welding Effects

- The plasma cloud generated by the laser and arc further absorbs and scatters the incident laser energy.
- By using the laser to generate the keyhole effect to attract, compress and stabilize the welding arc, the current density is significantly increased and a high-efficiency heat source is established.
- Arc guidance heats up the base metal and ncreases the absorption of laser energy, thereby increasing

