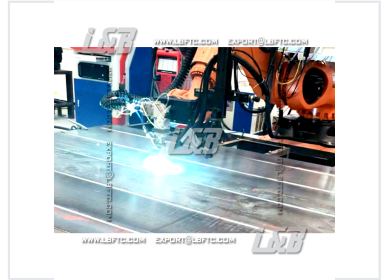
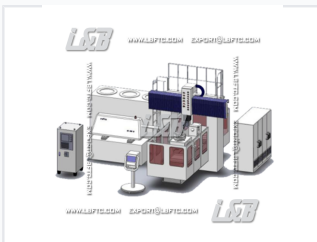


Laser-Arc Hybrid Automated Welding System

This automatic machine integrates laser and arc welding for high-precision and efficient welding. It features a robotic arm and advanced controls for automated manipulation and precise parameter adjustments.



ADDITIONAL IMAGES



Product Overview

Advanced Laser-Arc Hybrid Welding

This automated welding system integrates laser and arc technologies to deliver high-precision results for both small batches and complex structural products. It effectively addresses common manufacturing challenges like inconsistent weld quality and poor mechanical properties in large welding gaps. Designed for versatility, the system supports a wide range of materials and provides robust expansion capabilities for future process requirements.

Technical Capabilities

Key Process Features

- Laser-arc composite welding process
- High-precision automated control
- Effective gap bridging for inconsistent joints
- Support for complex structural parts
- Scalable process expansion

Compatible Materials

Low-alloy high-strength steel, Stainless steel, Magnesium, Aluminum, Titanium, Red copper, High temperature alloys, Dissimilar metals

System Configuration

Core System Components

Component	Function
Robotic Arm	Automated manipulation and positioning
Control Console	Programming and parameter monitoring
Welding Power Source	Energy delivery for hybrid process
Cooling System	Thermal management
Safety Cabin	Operational protection and viewing