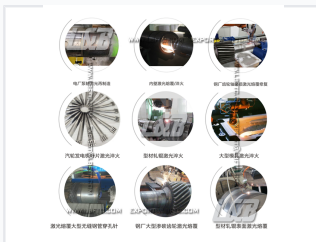


Laser Cladding System for Surface Treatment

This laser cladding system is engineered for precision surface treatment and material deposition. It uses a high-power laser source with multi-axis motion control for creating coatings with enhanced metallurgical properties.



ADDITIONAL IMAGES



Overview

Laser Cladding System for Surface Treatment

This advanced laser cladding processing system utilizes a high-energy-density laser beam to facilitate solid phase transition and rapid fusion cladding on metal surfaces. Designed to significantly enhance wear, corrosion, and oxidation resistance, it is also an ideal solution for precision repair of worn or damaged industrial components. The system integrates high-efficiency actuators, a high-precision servo drive, and an automated powder feeder to ensure stable, reliable, and repeatable surface treatment operations.

Technical Features

Core Components

- Imported high-energy laser source
- High-efficiency composite cladding actuators
- High-precision servo drive system
- Automated laser cladding powder feeder

Optical System Stability

Lens water cooling, Positive pressure protection, Anti-interference design

Performance Metrics

Performance Improvements

3 x

Service Life Increase

Processing Capabilities

Capability	Description
Cladding Layers	Single or multiple layers
Heating Speed	High speed
Deformation	Minimal

Applications

Common Industrial Applications

Pump shaft remanufacturing • Internal wall cladding • Gear shaft repair • Turbine blade quenching • Large mold quenching • Seamless steel pipe perforation needles