Fraunhofer Laser Cladding Technology

Through years of experience in laser cladding process development, Fraunhofer has developed laser cladding nozzles for a variety of applications. Basic configurations include coaxial powder feeding (COAX series) and side axis feeding nozzles (Cyclone nozzle). The nozzles are suitable for CO₂, fiber, disk, and diode lasers. Nozzles can be customized for each application.

CNC Laser Cladding System for large Oil Drilling Components

Fraunhofer offers its expertise in laser cladding and process equipment to perform system integration of turn-key pilot cladding systems. We can provide you with the latest in laser technology for a cost-effective solution for coating or repair of your components. Systems can be developed with CNC or robotic handling systems, and with CO₂ or fiber delivered lasers (diode, fiber or disk). With its systems Fraunhofer performs on-site training & support of your personnel, to help you master the process.

Laser Cladding System Integration

Fraunhofer offers its expertise in laser cladding and process equipment to perform system integration of turn-key pilot cladding systems. We can provide you with the latest in laser technology for a cost-effective solution for coating or repair of your components. Systems can be developed with CNC or robotic handling systems, and with CO₂ or fiber delivered lasers (diode, fiber or disk). With its systems Fraunhofer performs on-site training & support of your personnel, to help you master the process.

Laser Cladding

Nozzle Technology

Center for Coatings and Laser Applications

Making innovation a reality