MAKING LIGHT WORK

Who We Are

Fraunhofer CLA has been operating in the USA since 1994 developing and commercializing laser technology. Our state-of-the-art Plymouth Michigan facility conducts contract research and development in the field of laser materials processing. With our extensive expertise in laser welding, laser cladding, laser cutting, and laser heat treatment, Fraunhofer is your ideal partner for laser applications development!

What We Offer

• Contract Research & Development
• Process Development
• Prototyping & Consulting
• Technical Support
• Pilot Production Systems

Areas of Expertise

Laser Cladding/Additive Manufacturing
• Additive Manufacturing/Rapid Prototyping
• Remanufacturing and Wear Coatings
• ID (Internal Diameter) Cladding
• Induction Assisted Laser Cladding
• Powder & Wire Fed Processing Heads

Laser Welding & Joining
• Laser Beam Welding
• Remote Laser Welding
• Laser Hybrid Welding
• Laser Brazing/Laser Soldering

Laser Heat Treatment
• Laser Hardening
• ID (Internal Diameter) Laser Hardening
• Laser Softening/Laser Assisted Forming
• Color Marking

Laser Cutting & Drilling
• Remote Laser Cutting
• Micromachining/Drilling
• Laser Ablation/Coating Removal
Our Success

Over the last 20 years we have been successfully developing and introducing new laser applications into industrial production. Applications include Automotive Joining and Aerospace Additive Manufacturing. We have received the Henry Ford Technology Award for our development of a laser beam welding process to improve the roof strength of the Ford F150 Truck.

Lab Capabilities

- 7 Robotic & CNC Work Cells
- Fiber, Disk, Diode & CO₂ Lasers up to 16kW Power
- State-of-the-Art Metallographic Lab

Partnership

Fraunhofer CLA works in close cooperation with the Fraunhofer Institute for Material and Beam Technology (IWS) in Dresden Germany, one of Europe’s leading research institutes for laser material processing.

Internal Diameter Laser Cladding System

OUR SERVICES

From Concept to Implementation

Design Evaluation

Process Development

Prototyping

Production Start

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1. Fraunhofer IWS COAX™ 14 additive buildup of thin walled prototype part.

2. COAX™ wire process head for Additive Manufacturing.