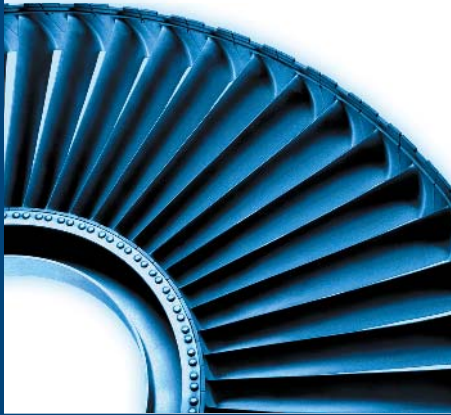


HUFFMAN ▼
Technologies
LLC

Precise, Multi-Axis
GRINDING & LASER
Process Development and
Production



Markets, Customers & Example Applications



FLIGHT & INDUSTRIAL GAS TURBINE

Customers

OEMs and their Suppliers, PMA manufacturers, Repair and Overhaul shops

Example Applications

Blades, Vanes, Shrouds, Seals and more
New Parts Manufacture
Overhaul & Repair



MEDICAL

Customers

Orthopedic implant and instrument OEMs and their Suppliers

Example Applications

Femoral Knee Implants
Surgical Instruments



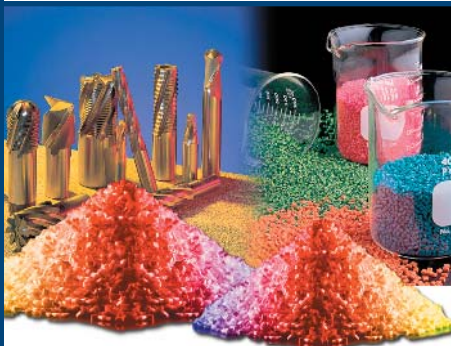
VEHICLE

Customers

On- & Off-Road Vehicle OEMs and their Suppliers

Example Applications

Diesel Fuel Injector Components



OTHER

Customers

OEMs, Suppliers and Repair Shops for High-Precision, High Value Components

Example Applications

Ceramics, Glass, Plastics Cutters, Tools, and Much More...

Case Studies: Proven Results



A diesel fuel injector manufacturer –

and existing Huffman Corporation customer – needed to relocate some production grinding machines. The customer needed to build up enough inventory to ensure his customers would be supplied while the machines were being relocated. We configured our production machines to produce the same

part, to the same high-quality standards, *helping the customer build inventory and supply production parts* while the production machines were being moved.

A turbine engine component supplier –

made the strategic decision to manufacture components in-house rather than to buy and resell. Without sufficient internal resources and infrastructure to start manufacturing, the customer called on us to *design and develop a full, turnkey manufacturing process*. Due to unforeseen delays, the customer then engaged us to carry on with initial part production. The customer enjoyed the benefits of Huffman Corporation's grinding technology without yet actually possessing the equipment. When the customer's infrastructure was in place, the entire system and proven process was transferred to his facility, where it was placed into production within days of its arrival.

A turbine component repair & overhaul company –

keen on the technical and commercial benefits of our laser powder fusion welding (laser cladding) process had an insufficient volume of business to justify an investment in a new laser cladding system. We were there to *help with a new process validation, FAA qualification and to start with short-run production to help ramp up business volume*. When the business volume supported it, the decision to purchase a system was easy. It was based on proven, demonstrated technical and commercial results.

About Huffman Technologies

History

Huffman Technologies, LLC (HTLLC) is a wholly-owned subsidiary of Huffman Corporation. Started in 2001, HTLLC is organized to provide Huffman Corporation customers and prospects innovative manufacturing process development using grinding and laser technology. Like our parent company, HTLLC focuses on high value, high precision, multi-axis applications in the turbine, medical, vehicle, tool, materials and other markets, where grinding and/or laser technologies create exceptional technical and commercial results for our customers.

Synergy with Huffman Corporation

HTLLC has the latest grinding and laser cladding technology as well as a full compliment of mechanical, electrical, controls, and applications engineering personnel. Working together with our customers and suppliers-including proven industry experts in lasers, welding materials, metallurgy, grinding fluids, filtration systems, grinding wheels, and fixtures-HTLLC delivers innovative and oftentimes breakthrough manufacturing processes.



Equipment List

(subject to change)

- 1 – Huffman HS-155S 5-axis precision grinder
- 1 – Huffman HS-75R 5-axis precision grinder
- 2 – Huffman HS-205R 5-axis precision grinders
- 1 – Huffman HS-225S 5-axis precision grinder
- 1 – Huffman HS-154R 4-axis precision grinder
- 1 – Huffman HP-115CL 5-axis laser cladding system
- 1 – Huffman HC-205 5-axis laser cladding system

Temperature Controlled Inspection Lab with:

- 1 – Zeiss CMM
- Micro Height Gage
- 1 – Comparator

Tool Room: Surface Grinder, Lathe, Bridgeport Mill

Programming tools: Solid Works, SurfCam, Delmia Virtual NC, Vericut, Unigraphics, Huffman Graphical User Interface.



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HUFFMAN TECHNOLOGIES, LLC
1050 Huffman Way
Clover, SC 29710
Tel: 803-222-4561
Fax: 803-222-7599
E-mail: info@huffmantechllc.com

