

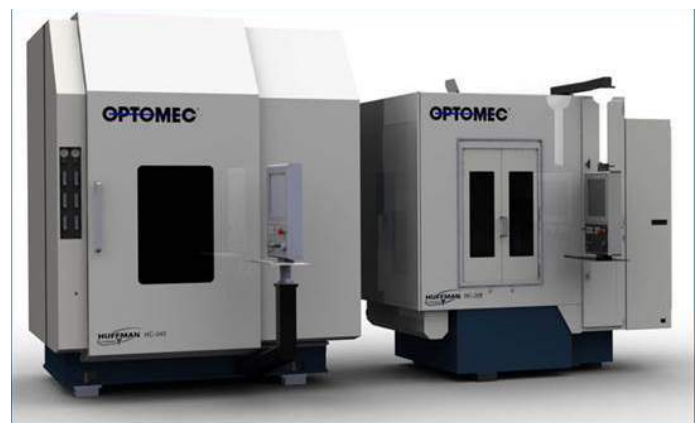


FULLY AUTOMATED LASER CLADDING

For repair of high value metal components. Fully-integrated vision and simple-to-use automation software enables single-button Start.

Huffman- The leader in turbine MRO

- Directed Energy Deposition (DED) systems for automated laser cladding of complex components
- Complete range of 3, 4, 5 and 6-axis systems
- Patented software automatically adapts the process to part variations
- Proven repair processes for blade tips, blisks, vanes and other gas turbine components



Advantages of the Huffman process

- Reduced Heat Affect Zone (HAZ) and cracking
- Minimized base metal dilution and distortion
- Near net shape, minimized post-weld machining
- 25 years of proven success in IGT repair

Hundreds of installed systems world-wide

SIEMENS

ST Aerospace
A company of ST Engineering

Williams
International

Honeywell

Rolls-Royce

Solar Turbines
A Caterpillar Company



Pratt & Whitney
A United Technologies Company

MITSUBISHI
HEAVY INDUSTRIES

CHROMALLOY





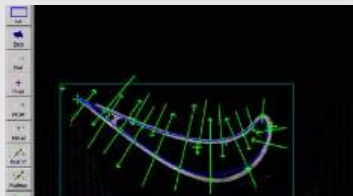
Industry's Most Advanced Software

- ▶ **Automatically generates** tool path to the part profile
- ▶ **Adapts** process parameters as a function of part thickness
- ▶ **Ensures consistency** in part repair



AutoCLAD™ Software

- ▶ Fully integrated with Cognex VisionPro
- ▶ Telecentric lens eliminates distortion
- ▶ Integrated LED lighting with optical filtering



HC-205 DED Laser Cladding System

Linear axes	X,Y,Z	356 x 356 x 356 mm
	Feed rate	0 - 8.9 m/min
	Accuracy	0.067 mm/m
	Repeatability	0.067 mm/m
Rotary axes	C axis	0 - 40 rpm
	Max. part weight	22 kg
	B axis	0 - 5.5 rpm
	Resolution	0.001 deg
	Accuracy	+/- 20 arc seconds



HC-245 DED Laser Cladding System

Linear axes	X,Y,Z	762 x 457 x 508 mm
	Feed rate	0 - 10 m/min
	Accuracy	0.067 mm/m
	Resolution	0.001 mm
Rotary axes	A axis	0 - 3.3 rpm
	C axis	0 - 5.5 rpm
	Repeatability	20 arc seconds
	Resolution	0.001 deg
	Accuracy	+/- 20 arc seconds



Indian Representative:
Tesscorn Nano Science, Inc.
info@tesscorn-nanoscience.com
www.tesscorn-3d.com

Optomec HQ
3911 Singer Blvd. NE
Albuquerque, NM 87109 USA
+1.505.761.8250
sales@optomec.com
optomec.com

Optomec and AutoClad are trademarks of Optomec, Inc
Specifications are subject to change without notice.