



Company Overview

Curtiss-Wright operates the world's largest network of shot peening facilities to meet today's challenging requirements. Located in northeast Ohio and previously known as Metal Improvement Company, we are a full service shot peening facility with most OEM and industry approvals.

INDUSTRIES SERVED



AEROSPACE



OFF-HIGHWAY



OIL & GAS

TYPICAL APPLICATIONS



LARGE PART CAPABILITY

Design Challenges and Problems Solved

- High-Cycle Metal Fatigue (bending, torsion, vibration)
- Gear Tooth Flank Fatigue (micro-pitting, rolling-sliding contact fatigue)
- Contour Correction of titanium and aluminum aircraft structures
- Stress Corrosion Cracking
- Thermal Fatigue

Markets and Industries Served

- | | |
|----------------------------|-----------------------|
| Aerospace | Mining |
| Automotive | Power Generation |
| Chemical & Food Processing | Off-Highway Vehicles |
| Construction | Oil & Gas |
| Industrial | Railroad |
| Military | Recreational Vehicles |

Facility Capabilities and Services

- | | |
|-----------------------------|---|
| Shot Peening | Dual Shot Peening |
| Glass Bead Peening | Glass Bead Blasting |
| Peenforming | Contour Correction (peen straightening) |
| ID Pipe Directional Peening | Precision Texturing to a specified finish |
| On-Site Shot Peening | Paint / Rust Removal, Surface Preparation |

Customer Approvals/Specifications (Partial List)

- | | |
|-----------------------|-------------------------------|
| AS 9100 | AMS 2430 |
| ISO 9001:2015 | AMS 2432 (computer monitored) |
| Nadcap | AMS-S-13165 |
| GE Power / Locomotive | Sikorsky |
| AAR / ORX | Boeing Aircraft |
| General Dynamics | General Electric |
| Moog | American Axle Mfg. |
| Hamilton Sundstrand | BAE |

Contact Information

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Shot Peening Applications



DRIVE SHAFTS

Aircraft and Rotorcraft Components

- | | |
|-----------------------|---------------------------------|
| Engine Main Shaft | Blades, Hubs |
| Propellers and Rotors | Bearing Cages |
| Wings, Fuselage | Structures (spars and struts) |
| Landing Gear | Transmission Gears: All designs |

Auto Power Train Components

- | | |
|---------------|--------------------|
| Flex Plates | Gears: All designs |
| Parking Pawls | Shafts |



Auto Engine Components

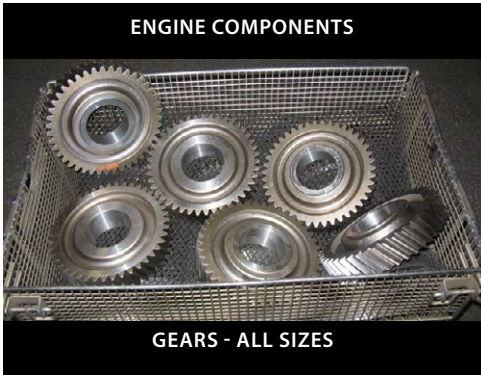
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|-----------------|---------------|
| Connecting Rods | Crankshafts |
| Rocker Arms | Valve Springs |

Military, Off-Highway Vehicle Components

- | | |
|-----------------------|------------------|
| Suspension Lugs | Torsion Bars |
| Wheel Bearing Flanges | Steering Flanges |

Oil & Gas

- | | |
|------------------------------|---------------------------------|
| Drill Collars, Bits and Rods | Hydraulic Fracking Fluid Blocks |
| Shovel Buckets and Screens | Trunk Crankshafts |



ENGINE COMPONENTS

GEARS - ALL SIZES

Other Components/Applications

- | | |
|-------------------------------------|---|
| Gears: Large Industrial and Mining | Architectural Texturing |
| Precision Texturing (architectural) | Threaded Connections |
| Springs: All designs | Tools, Dies, Moulds |
| Welded Fabrications | Powdered Metal (Fatigue & Porosity Sealing) |

On-Site Shot Peening

- | | |
|--|---------------------------------------|
| Field crews can shotpeen any size part at your facility or site to Mil Spec: | |
| Aircraft Fuselage / Wings | Gas or Steam Turbines |
| Hydro Water Wheels | Mining Ball Mills and Drag Line Gears |
| Oil Refinery Coker Structure | Weldments: Pipelines, Railcars, Ships |



LANDING GEAR



POWDERED METAL

Curtiss-Wright operates a network of over 70 business units in 10 countries performing the following surface treatment technologies:

- Controlled Shot Peening
- Laser Peening
- Engineered Coatings (including CARC & Solid Film Lubricants)
- Materials Testing / Analytical Services
- Thermal Spray (including HVOF)
- Sale of Coating Products under the Everlube® brand
- Peen Forming
- CASE Super Finishing

Please visit our website at www.cwst.com and select "Find a Location" to see which business units are nearby.