



Company Overview

Curtiss-Wright Surface Technologies, also known as Metal Improvement Company, operates the world's largest network of shot peening facilities to meet today's challenging requirements. Located in Phoenix, Arizona, we are a full-service shot peening facility with numerous OEM and Industry approvals.

INDUSTRIES SERVED



AEROSPACE



AUTOMOTIVE



MILITARY



JET ENGINE FAN BLADES

Design Challenges and Problems Solved

High-Cycle Metal Fatigue (bending, torsion, vibration)

Fretting Fatigue

Stress Corrosion Cracking

Thermal Fatigue

Gear Tooth Flank Fatigue (micro-pitting, rolling-sliding contact fatigue)

Markets and Industries Served

Aerospace

Automotive

Construction

Industrial

Military

Mining

Power Generation

Off-Highway Vehicles

Oil & Gas

Railroad

Recreational Vehicles

Facility Capabilities and Services

Controlled Shot Peening

Glass Bead Peening

Wet Grit/Glass Peening

Surface Preparation with Abrasive Blasting

Light Rust Removal

Glass Bead Blasting and Finishing

Contour Correction Peening

On-Site Shot Peening

Customer Approvals/Specifications (Partial List)

Nadcap Accredited

FAA Repair Station

Bell Helicopter

Boeing Commercial

Boeing Military & Defense

Collins

GE Aviation

Honeywell

Parker Lord

Pratt & Whitney

Safran

Textron

Contact Information

Curtiss-Wright Metal Improvement Company

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Shot Peening Applications

TYPICAL APPLICATIONS



HELICOPTER ROTOR



SPRINGS



GEARS



DRIVE SHAFTS



ENGINE COMPONENTS

Aerospace and Rotorcraft Components

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

Auto Power Train Components

Flex Plates
Parking Pawls
Gears: All designs
Shafts

Power Generation

Fastener Bars
Rotor Disc / Wheels
Rotor Blades / Buckets
Rotor Shafts

Military, Off-Highway Vehicle Components

Suspension Lugs
Wheel Bearing Flanges
Torsion Bars
Steering Flanges

Oil & Gas

Drill Collars, Bits and Rods
Shovel Buckets and Screens
Electronic Chassis
Trunk Crankshafts

Other Components/Applications

Feedscrews
Welded Fabrications
Threaded Connections
Gears: Industrial and Mining
Springs: All designs
Tools, Dies, Molds

On-Site Shot Peening

Field crews can shot peen any size part at your facility or on-site to spec:
Aircraft Fuselage / Wings
Hydro Water Wheels
Oil Refinery Coker Structure
Gas or Steam Turbines
Mining Ball Mills and Drag Line Gears
Weldments - Pipelines & Railcars

Curtiss-Wright operates a network of about 65 business units in 10 countries, including North America, Asia and Europe, performing the following surface treatment technologies:

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

Please visit our website at www.cwst.com and select "Find a Location" for the location nearest you.