



INDUSTRIES SERVED



COMMERCIAL FREIGHTLINES



AEROSPACE



RACING



COMMERCIAL & MILITARY
HELICOPTER

Company Overview

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

Design Challenges and Problems Solved

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

Automated Shot Peening	Computer Monitored Shot Peening
Glass Bead Peening	Directional Peening (Pipe)
On-Site Shot Peening	Magnetic Particle Inspection
Precision Texturing	Super Finishing

Customer Approvals/Specifications (Partial Listing)

The Charlotte facility is approved to meet numerous OEM, industrial and military requirements including:

GE Power	Cummins Meritor
GE Energy	Honeywell
GE Aviation	PSM (Ansaldo Energy Group)
Boeing	DDTC (AECA, ITAR)
Bell Helicopter	Hartzell Propeller
Siemens	Dowty Propellers
Curtiss-Wright	Gulfstream

Contact Information

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**CURTISS -
WRIGHT**

Shot Peening Applications



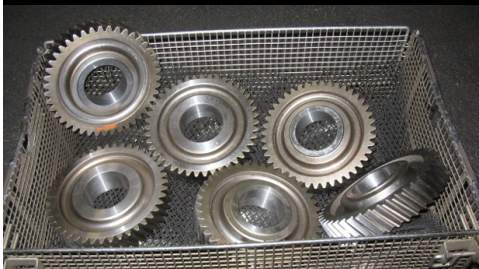
LANDING GEAR



HELICOPTER ROTOR



FIREARMS



GEARS



SPRINGS

Aircraft and Rotorcraft Components

Wing Panels	Spars
Wing Ribs	Landing Gear
Bulkheads	Slat Tracks
Landing Gear	Transmission Gears: All designs

Automotive Power Train Components

Flex Plates	Gears: All designs
Parking Pawls	Shafts

Automotive Engine Components

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

Other Components / Applications

Gears: Large Industrial and Mining	Threaded Connections
Precision Texturing (Architectural)	Tools, Dies, Molds
Springs: All Designs	Powdered Metal (Fatigue & Porosity Sealing)
Welded Fabrications	

On-Site Shot Peening

Field crews can shot peen any size part to Mil spec at your facility or site:

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

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

- Controlled Shot Peening
- Peening Forming
- CASE Super Finishing
- Laser Peening
- Application of Coatings for Corrosion Prevention and Solid Film Lubrication
- Material 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" to see which business units are nearby.