

# CURTISS - WRIGHT

## INDUSTRIES & APPLICATIONS



MILITARY



AEROSPACE



HELICOPTER



AIRCRAFT WING FORMING

## Company Overview

Curtiss-Wright operates the world's largest network of shot peening facilities to meet today's challenging requirements. Also known as Metal Improvement Company, we have locations across the Greater Los Angeles area in Lynwood and Santa Ana. Each facility is equipped with full-service shot peening capabilities and 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

Shot Peening	Shot Peen Forming
Glass Bead Peening	Corrective Peening
On-Site Shot Peening	Grit Blasting
Precision Texturing	

### Customer Approvals (Partial List)

The Greater Los Angeles facilities are approved to meet various OEM, industrial and military requirements including:

Boeing	Bombardier
Lockheed-Martin	Goodrich
Gulfstream	Textron (Cessna / Beechcraft / Hawker)
IAI	Nadcap
Embraer	L3
Airbus	Parker
Messier-Dowty	UTC

### Contact Information

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# CURTISS - WRIGHT

## APPLICATIONS



LANDING GEAR



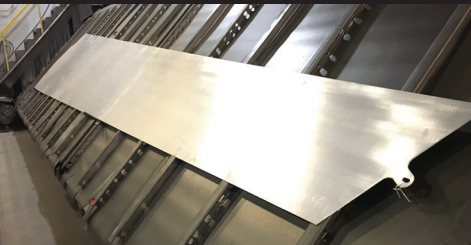
HELICOPTER ROTOR



FIREARMS



GEARS



AIRCRAFT SPAR

## Shot Peening Applications

### Aircraft and Rotorcraft Components

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

### Auto Power Train Components

Flex Plates  
Parking Pawls  
Gears: All designs  
Shafts

### Auto Engine Components

Connecting Rods  
Rocker Arms  
Crankshafts  
Valve Springs

### 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  
Hydraulic Fracking Fluid Ends  
Trunk Crankshafts

### Other Components and Applications

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

### On-Site Shot Peening

Field crews can perform Mil Spec shot peening to any size part at your facility  
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 more than 70 business units in 10 countries, performing the following surface treatment technologies:

- Controlled Shot Peening / Peen Forming
- Laser Peening
- Application of Coatings for Corrosion Prevention & Solid Film Lubrication
- Materials Testing / Analytical Services
- Thermal Spray
- Sale of Coating Products under the Everlube brand

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](http://www.cwst.com) and select "Find a Location" to see which business units are nearby.