# CURTISS -WRIGHT

# INDUSTRIES SERVED

AIRCRAFT WING FORMING



**AEROSPACE** 



MINING



# **Company Overview**

Curtiss-Wright operates the world's largest network of shot peening facilities to meet today's challenging requirements. Located in Grand Prairie, Texas 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**

Robotic Shot Peening Shot Peen Forming Glass Bead Peening Corrective Peening

On-Site Shot Peening Roto-Peening (Flapper Peening)

**Precision Texturing** 

# **Customer Approvals/Specifications (Partial Listing)**

The Grand Prairie facility is approved to meet numerous OEM, industrial

and military requirements including:

Boeing Bombardier Lockheed-Martin Sikorsky Gulfstream Goodrich

Bell Helicopter Textron (Cessna / Beechcraft / Hawker)

Northrup Grumman Pratt & Whitney

Rolls Royce L3

## **Contact Information**

**Curtiss-Wright: Metal Improvement Company** 

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# Shot Peening **Applications**















**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**

Gears: All designs Flex Plates

**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

Powdered Metal (Fatigue & Porosity Sealing) Springs: All Designs

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.