

# CURTISS - WRIGHT

## INDUSTRIES SERVED



AEROSPACE / MILITARY



POWER TOOLS



FIREARMS



HELICOPTER

## Company Overview

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

### Design Challenges and Problems Solved

High-Cycle Metal Fatigue (bending, torsion, vibration)  
Thermal Fatigue  
Gear Tooth Flank Fatigue (micro-pitting, rolling-sliding contact fatigue)  
Precision Texturing / Surface Finish / Drag Reduction  
Stress Corrosion Cracking

### Markets and Industries Served

|                  |                     |
|------------------|---------------------|
| Aerospace        | Firearms            |
| Power Generation | Automotive          |
| Military         | Steelmaking         |
| Industrial       | Chemical Processing |

### Facility Capabilities and Services

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Controlled Shot Peening          | Dual Shot Peening                     |
| Robotic Shot Peening             | Bead Blasting and Finishing           |
| Glass Bead Peening (wet and dry) | Surface Preparation/Abrasive Blasting |

### Customer Approvals and Specifications

|                        |                                |
|------------------------|--------------------------------|
| Pratt & Whitney        | Rolls Royce                    |
| Pratt & Whitney Canada | Honeywell                      |
| GE Aviation            | Sikorsky                       |
| GE Energy              | Goodrich                       |
| Siemens Power          | Kaman Aerospace                |
| Hamilton Sundstrand    | FAA & EASA Repair Station      |
| Boeing                 | Federal Firearms License (FFL) |

### Contact Information

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Curtiss-Wright has a full-service coatings application facility with Nadcap and FFL certifications in New Britain, Connecticut (20 miles from the Windsor facility).



# Shot Peening Applications

## TYPICAL APPLICATIONS



JET ENGINE FAN BLADES



DRIVE SHAFTS



HELICOPTER ROTOR



SPRINGS



BLISK

### Aircraft and Rotorcraft Components

Engine hubs, disks, blades, shafts, spacers, seals, cases, bearing houses, rotor hubs, swashplates, pitch housings, retention plates, gearbox carriers bearing cages, transmission gears, rod ends, links, bodies

### Power Generation Components

Fan/compressor blades  
Bucket inserts

Support clamps

*On-site shot peening available*

### Firearm Components

Firing pins  
Receivers  
Springs

Extractors

Slide catch levers

### General Industrial and Commercial Components

Power tool nail drivers, engagement dogs

Drive shafts

Springs

Gears: all sizes and geometries

Sleeves, couplings

Steel sheet rollers

Welded fabrications

### Automotive

Powertrain Components: shafts, gears, flex plates, housings

Engine Components: connecting rods, rocker arms, crankshafts

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

- Shot Peening
- Laser Peening
- Application of Coatings for Corrosion Prevention and Solid Film Lubrication
- Material Testing / Analytical Services
- Thermal Spray
- Sale of Coating Products under the Everlube® brand

Please visit our website at [www.cwst.com](http://www.cwst.com) and select "Find a Location" to see which business units are nearby.