



Facility Overview

Charlotte, North Carolina

Facility Scope & Industries Served

Curtiss-Wright's Charlotte, North Carolina facility supports application requirements such as high-cycle fatigue resistance under bending, torsion, and vibration, fretting fatigue mitigation, stress corrosion cracking control, gear tooth flank fatigue improvement, forming and contour correction of titanium and aluminum aircraft structures, and thermal fatigue resistance through advanced shot peening solutions across aerospace and industrial applications.

Aerospace

Power Generation

Construction

Railroad

Mining

Chemical & Food Processing

Oil & Gas

Military

Automotive

Off-Highway Vehicles

Industrial

Recreational Vehicles

Facility Capabilities & Services

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

Customer Approvals & Specifications

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

Shot Peening Applications

Aircraft and Rotorcraft Components

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

Auto Power Train & Auto Engine Components

Auto Power Train: Flex Plates, Parking Pawls, Gears: All designs, Shafts

Auto Engine: 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 Blocks, Trunk Crankshafts

Other Components and Applications

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

On-Site Shot Peening

Aircraft Fuselage / Wings, Hydro Water Wheels, Oil Refinery Coker Structure, Gas or Steam Turbines, Mining Ball Mills and Drag Line Gears, Weldments – Pipelines, Railcars, Ships



Contact Information

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