

COMPANY PROFILE

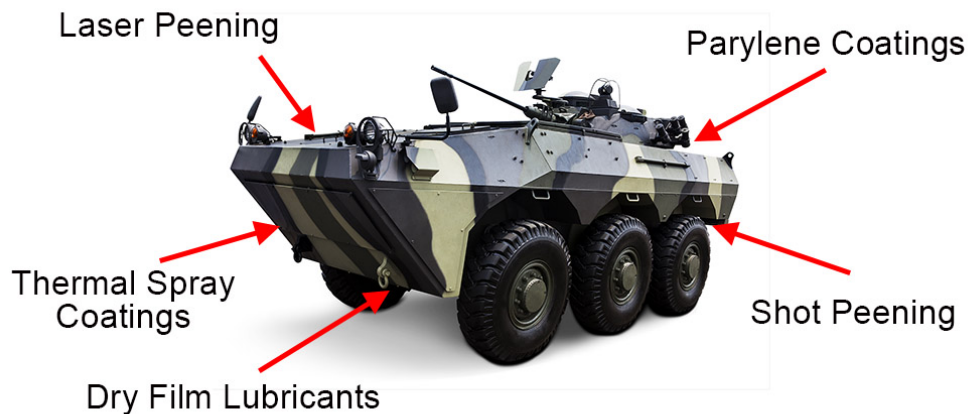
Curtiss-Wright Surface Technologies (CWST) offers a single source solution and point of contact for all your surface treatments. We can reduce your turnaround times and costs through our network of 65 worldwide facilities.

Our proven surface treatments meet industry demands for lighter materials, improved performance and life extension in key markets such as Aerospace, Automotive, Energy and Medical. We can prevent premature failures due to fatigue, corrosion, wear, galling and fretting.



Surface Technologies is a Division of Curtiss-Wright (NYSE: CW) a global innovative company that delivers highly engineered, critical function products and services to the commercial, industrial, defense and energy markets. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing reliable solutions through trusted customer relationships.

Military Vehicle Material Improvement and Testing



Problems We Solve:

- Fatigue Cracking
- Stress Corrosion Cracking
- Wear
- Galling
- Corrosion
- EMI-RFI Shielding

Enhancements:

- Increase reliability of engine components
- Increase powertrain horsepower capability by improving fatigue strength of gears
- Increase reliability of tank gas turbines by improving thermal performance of turbine hot section
- Increase reliability of tank gas turbines by improving mechanical fatigue performance of compressor and rotary components
- Increase fuel efficiency of tank gas turbines by improving thermal performance of turbine hot section
- Increase horsepower of tank gas turbines by improving thermal performance of turbine hot section



Laser Peening

Fatigue & Stress Corrosion Cracking

- Armor Plate
- Vehicle Frames
- Engine Components
- Crankshaft, connecting rods and pistons
- Gears
- Turbine Hot Section
- Compressor and other rotary components

Shot Peening

Fatigue & Stress Corrosion Cracking

- Transmission Components
 - Gears, Shafts
- Suspension Components
 - Torsion bars, Springs
- Engine Components
- Steering Components
 - Steering knuckle assembly
- Axles & Wheels
 - Wheel bearing flanges
- Parts subject to vibrational failure
- Notch sensitive fatigue loaded parts

Engineered Coatings

Corrosion, Wear, Galling & EMI-RFI Shielding

Dry Film Lubricants

- Hood and Door Pins
- Hood Latch
- Hinges
- Hood and Door Hinges
- Springs
- Compression Springs
- Clock Springs
- Torsion Springs
- Extension Springs
- Fasteners / Washers, Bolts / Nuts

Parylene Coatings

- Electronics
- Seals and flanges
- Cables

Thermal Spray Coatings

- Engine Inlet components
- Engine pistons
- Exhaust Components
- Chains and Sliding Components
- Pistons, Valves, Pins, Sleeves
- Joints, Axles, Forks
- Brake Components
- Compressor Housing abrasible
- Fasteners, Bolts, Nuts
- Door and Window Frame Seal
- Electronic Devices, Sensors

Analytical Services

Determine Material/Component Suitability

- Weld Evaluation
- Component Reliability
- Microstructure Examination of metals
- Chemical Analysis
- Mechanical Strength (tensile)
- Shear testing
- High Temperature Fatigue Testing
- Residual Stress Measurements
- Failure Analysis
- Fracture/Crack Studies
- Hardness Testing
- Salt Spray and other corrosion testing

