

COMPANY PROFILE

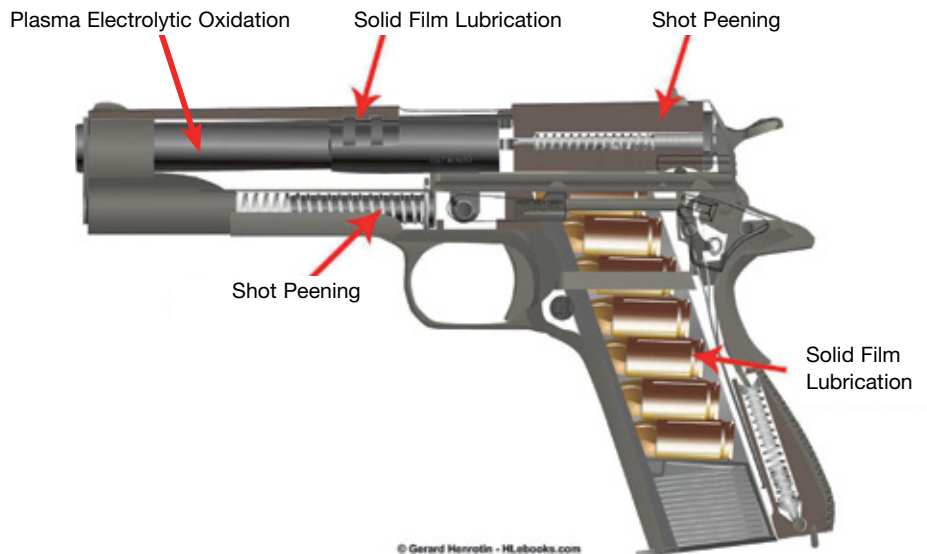
Curtiss-Wright Surface Technologies (CWST) offers a single source solution and point of contact for all your surface treatments. We can reduce your turnaround times and costs through our network of over 65 worldwide facilities.

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.

Firearm Materials Improvement and Testing



Shot Peening • Engineered Coatings • Analytical Services

Surface engineering techniques are proven to extend the life of components, and ensure optimum operating performance. These 3 methods should be considered, especially where components are exposed to harsh environments and challenging operating conditions. See details on page 2.





Shot Peening

Provides Fatigue Strength Enhancement in Small Radii

- Fatigue enhancement of cyclically-loaded parts
- Ejector pins
- Springs
- Firing pins
- Notch-sensitive geometry
- Texturing to specified finish
- Media types
 - Steel
 - Stainless steel
 - Glass bead

Engineered Coatings

Bullets

Coating: Microseal

- Friction Reduction

Coating: 10014 case coat + 6108 top coat

- Corrosion, Lubricity, Color

AR/M15 Platforms

Coating: Anodizing, Mil-DTL-16232, EM6226

- Color Matching, Cleaning, Assembly, Reliability

Steel Components

Coating: Mil-Std-171 and Everfube 6226, EM8256, Powder Coatings, Csrakote

- Break In, Wear, Lubrication, Stiction, Corrosion Resistance

Magazines

Coating: Mil-DTL 16232 and overcoat of SFL EM6256

- Lubrication, Stiction, Corrosion Resistance

Military weapons

Coating: Mil-Std-171 and Everfube 6226, EM6256, Powder Coatings, Cerakote

- Break In, Wear, Lubrication, Stiction, Corrosion Resistance

Barrels / Handrails

Coating: PEO

- Enhanced Corrosion, Wear Protection, Lightweighting (magnesium)
- Cleaner Process – Less FOD and Particulate



Analytical Services

- Chemical analysis for alloy identification
- Chemical and thermal analysis for polymer identification
- Hardness
- Microstructure examination of metals
- Coating identification
- Mechanical strength (tensile)
- Fatigue testing of springs
- Residual stress measurements of bullet casings
- Failure analysis
- Lubricant identification
- Salt spray and other corrosion testing