

**CURTISS -
WRIGHT**

Surface Technologies

www.cwst.com | www.cwst.co.uk

COMPANY PROFILE

Curtiss-Wright Surface Technologies (CWST) is a single source solution 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, Military and Industrial. 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.

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East Windsor, Connecticut, US Thermal Spray Facility

Curtiss-Wright operates a network of facilities that apply engineered coatings to meet challenging user environments. Located in East Windsor CT our proven surfaces treatments meet industry demands for lighter materials, improved performance and life extensions in key markets such as Military, Aerospace, Automotive, Energy and Industrial markets.

MARKETS & INDUSTRIES SERVED

- Aerospace
- Industrial
- Energy
- Automotive
- Military

DESIGN CHALLENGES AND PROBLEMS SOLVED

- Corrosion
- Wear
- Oxidation
- Dielectric
- Abrasion
- Erosion
- Thermal Insulation
- Clearance Control
- Dimensional Restoration



CUSTOMER APPROVALS

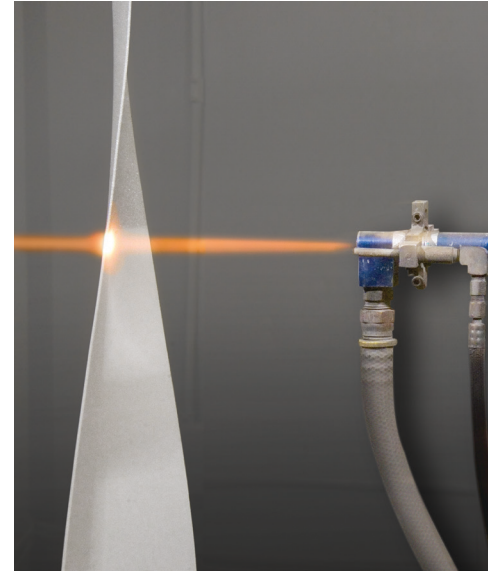
- Boeing
- Pratt & Whitney
- Hamilton Sundstrand
- Goodrich
- GEAE
- Rolls Royce
- Alstom
- Collins Aerospace
- Messier-Dowty
- Stryker
- Honeywell
- Military
- Sikorsky Aircraft
- Siemens
- Pratt & Whitney Canada
- BASF
- Bell Helicopter

CERTIFICATIONS

- NADCAP
- ISO 9001/AS9100
- FAA Certified
- EASA European Aviation Safety Agency

For more information on all our services and full worldwide contact:

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THERMAL SPRAY COATINGS

Thermal spray coatings provide corrosion, abrasion and wear resistance, thermal management for high temperature oxidation/hot corrosion protection, corrosion control at low temperature and solid particle erosion control.

- **High Velocity Oxy-Fuel Spray (HVOF)**
- **Plasma Spray**
- **Wire Arc Spray**
- **Electric Arc Spray**
- **Flame spray**
- **Fused Coatings**
- **Cold Spray**
- **Solution Plasma spray**

METALLURGICAL LAB TESTING

- **Sample Preparation**
- **Microscopy Evaluation**
- **Bond Line Contamination**
- **Micro-Hardness/Macro-Hardness**
- **Adhesion Tests for Bond and Tensile (ASTM C633)**
- **Micrographic Evaluation Complete with Computer Generated Photomicrographs**
- **Bend Testing**
- **Lap Shear Testing**
- **Erosion Testing**
- **Almen Testing/Residual Stress per SAE J442**

COATING REMOVAL

- **Wet Chemical Process**

Capabilities

- **Coatings:** Hydrochloric, Nitric (50/50) (70/30), Sodium Cyanide, Caustic, Enstrip, N-Prpyl Bromide, Wax Masking
- **Nitric Acid Stripping Coatings**
 - Alumina/Nickel-Aluminide Cermet, Aluminum-Bronze Nickel, Copper-Nickel-Indium, Molybdenum, Nickel Fine, Nickel-Aluminum Porous, Nickel-Graphite, TriballoyBase Materials - Cobalt Alloys, Nickel Alloys, Titanium Alloys, Selected Stainless Steel Alloys, Rene 95
- **Hydrochloric Acid Stripping Coatings**
 - NiCrAlY (Nickel-Chromium- Aluminum-Yttrium), NiCoCrAlY (Nickel-Cobalt-Chromium-Aluminum- Yttrium, SS-14, SV-20Base Materials
 - Hastelloy, Inconel, Titanium Alloys, Cobalt Alloy

Thermal Spray Coating Specifications

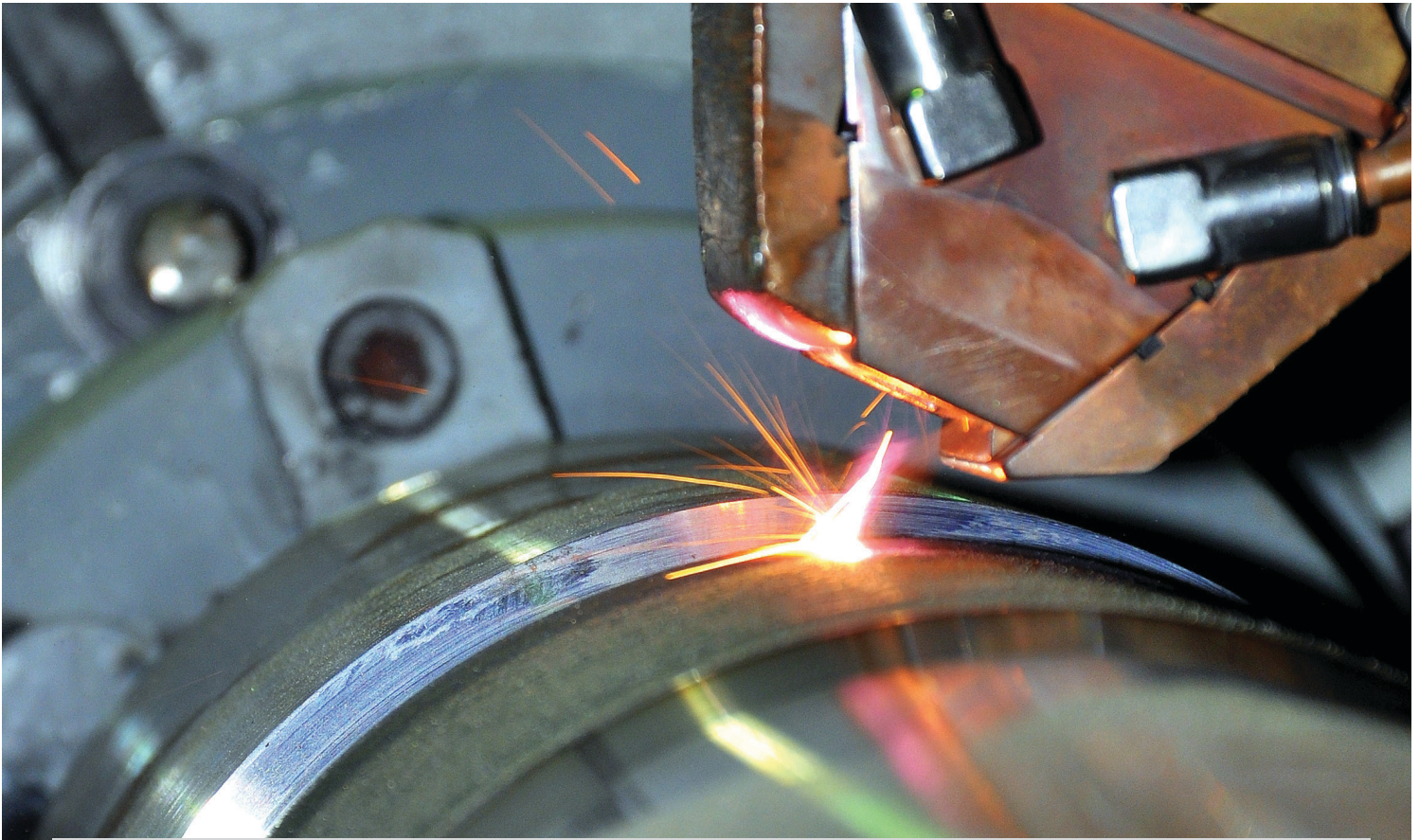
East Windsor, Connecticut Facility

NADCAP	AC7109 Thermal Spray	Stripping Coating Evaluation	Heat Treat Hardness Paint	Anti-Gall	
ISO 9001	Quality Systems				
SAE AS9100	Quality Systems				
Allied Signal/Garrett (Honeywell)	EMS 52353 EMS 52432 EMS 52467	EMS 52510 EMS 52521 EMS 57737	EMS 57750 EMS 57753 FP5045	FP 5088 FP5091 GPS3227	PNCP52519 PNCP52551
Rolls-Royce	EDS1306 EMS39660 EMS39662 EMS56755 EMS56757 EMS56764 EMS56765 EMS56771 MSRR9507/1 MSRR9969 RPS300	RPS392 EMS70013 EPS10411 EPS10414 EPS10416 EPS10417 EPS10418 EPS10419 EPS10420 MSRR9507/5 RPS367	RPS427/26 RRP51000 EPS10422 EPS10423 EPS10430 EPS10431 EPS10436 EPS10438 EPS10456 EPS10462 MSRR9507/54	RPS386 RPS427/31 RRP58007 EPS10473 EPS10479 EPS10483 EPS10498 EPS10505 EPS10540 RRU5 RRU6	MSRR9507/66 RRQ2 RPS629 RRP50000 CME 5033/2/E1-1 CME 5033/2/E1-5 CME 5033/2/E1-17 CME 5033/2/E1-54 CME 5033/2/E1-66 CME 5033/2/E3-69 EPS 10475
Alstom	91-328A8664				
Boeing	HP4-66 HP2-8	BAC 5851 PS13152	PS15989 PS13152	PS15989	
Dresser-Rand	PS-0321 015-206-009				
General Electric	F50TF Series GT-193 Coating Evaluation S1000	GT-193 for Thermal Spray P16A-AG6	P16B-AG3 P16B-AG8 P16B-AG11	P16B-AG15 P16TF5 P28TF6	P16B-AL2105
Hamilton Sunstrand	HMS2 HS427	HS15580 HS806	HS4412 AMS 2447-7		
Honeywell	A6712 M3951 M3952 M3953	M3954 M3955 M3956 M3958	M3959 M3960 M3961 M3962	M3963 M3964 M3965 M3966	P6400 P6405
Stryker	HPS 5022	HPS 12022	IMS0113	IMS0131 OS 167	OS747
Messier-Dowty Military	NAS 410	LCS	MIL-STD-153	MIL-P-83348	
Pratt & Whitney	QA-101 (PWES) QAS E 58 (Grinding) IM-6265 IM-6267 PWA 35 PWA 44 PWA53-1 PWA53-2 PWA53-5 PWA53-7	PWA53-10 PWA53-11 PWA53-13 PWA53-15 PWA53-16 PWA53-17 PWA53-18 PWA53-18 PWA53-20 PWA53-21 PWA53-22	PWA53-33 PWA53-35 PWA53-37 PWA53-38 PWA53-46 PWA53-47 PWA53-69 PWA53-78 PWA-72 PWA74-1 PWA74-2	PWA75-1 PWA 110-2,-4,-21 PWA 253-1 PWA 254-1 PWA 255 PWA 257-1 PWA 257-2 PWA 261 PWA 262 PWA 265 PWA 271	PWA 277 PWA474 PWA 36206-1 PWA 36254 PWA 36288 PWA 36206-2 PWA 36206-9
Pratt & Whitney Canada	CPS 107 CPW 693	CPW 33 CPW 716	CPW 385 CPW 672		
Sikorsky Aircraft	SS8491 SS9212				
Siemens	PDS 8362A3 PDS 83262AP PDS 83269A3 PDS	83269A4 PDS 83324Z1 PDS 83324Z2	PDS 83336AA PDS 83336AB PDS 83336AC	PDS 83336Z2 PDS 83336Z5	
Snecma/Safran	DMP14-032				
Bell Helicopter	BPS Class A Type I, II				

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