



## Aerospace Capabilities

### INDUSTRIAL & COMMERCIAL APPROVALS

Without question, high performance equipment is a necessity in the aerospace industry. Components need to be able to withstand friction, high temperatures and corrosive environments while continuing to operate at optimum levels. SIFCO ASC works closely with you to offer practical, cost-effective options for the surface enhancement of these OEM and MRO components.

Some of the surface enhancement coatings for aerospace components include AeroNikl<sup>®</sup>, Cadmium LHE<sup>®</sup>, Cadmium No-Bake, Zinc-Nickel LHE<sup>®</sup>, Tin-Zinc LHE<sup>®</sup>, and AeroShield<sup>®</sup>. These coatings are used to enhance components for engines, actuators, landing gear and airframes, increasing their ability to perform and extend overall in-service life.

COMMERCIAL SPECIFICATIONS (PARTIAL LIST)				
American Airlines	P12-16			
Bell Helicopter	BPS 4312	FW 1309		
Boeing	BAC 5854	BAC 5664	BAC 5849	HP 4-113
British Aerospace	BAe 146			
Douglas	P.S. 13113	DPS 9.89	DPS 9.89-1	DPS 9.28
Dowty Aerospace	PS118	PS137		
Goodrich	LGPS 1102			
Gulfstream	GAMPS 6103			
Lucas Aerospace	DPD 1000			
Messier Dowty	PCS-2141	PCS-2143	PCS-2144	
Parker	BPS 4511	LP 15		
Pratt & Whitney	SPOP 321	PWA 36953	PWA 36960	
Rolls Royce - Allison	EPS 10245			
Sikorsky	SS 8494	SS 8443	SS 8481	
TRW Aeronautical Systems	SPD 1000			

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### TYPICAL APPLICATIONS

- ▶ Landing Gear
- ▶ Turbine Blades
- ▶ Turbine Frames
- ▶ Engines
- ▶ Actuators
- ▶ Airframes
- ▶ Turbine Stator



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FINISHES	DESCRIPTIONS	MILITARY	AMS	FEDERAL/AMS REFERENCE
Brush Plating	Selective Electrodeposition - US Air Force	MIL-STD-865		
Brush Plating	Selective Plating - US Navy	MIL-STD-2197 (SH)		
Brush Plating	Plating, Brush General	MIL-STD-865	2451	
Brush Plating Nickel	Nickel Brush Plating		2451/1	QQ-N-290 & AMS 2403
Brush Plating Nickel	Nickel Low Stress, Hard Brush Plating		2451/2	AMS 2423
Brush Plating Nickel	Nickel Low Stress, Low Hardness Brush Plating		2451/3	AMS 2424
Brush Plating Cadmium	LHE Cadmium Brush Plating		2451/4	QQ-P-416 & AMS 2400/2401
Brush Plating Chromium	Chromium Brush Plating		2451/5	
Brush Plating Copper	Copper Brush Plating		2451/6	
Brush Plating Nickel	Nickel Low Stress, Medium Hardness Brush Plating		2451/7	AMS 2423
Brush Plating Silver	Silver Non-Cyanide Brush Plating		2451/8	QQ-S-365 & AMS 2412
Brush Plating Zinc-Nickel			2451/9	AMS 2417
Brush Plating Tin-Zinc			2451/10	AMS 2434
Brush Plating Cobalt			2451/11	
Brush Plating Tin		MIL-T-10727*	2451/12	AMS 2408
Brush Plating Silver	Silver Brush Plating		2451/13	QQ-S-365 & AMS 2412
Brush Plating Nickel Tungsten			2451/14	
Nickel Plate	Plating, Nickel General		2403*	QQ-N-290*
Nickel Plate, Hard			2423*	
Nickel Plate, Soft			2424*	
Copper Plate	Plating, Copper	MIL-C-14550	2418	
Gold Plate	Plating, Gold	MIL-G-45204	2422	
Cadmium Plate	Plating, Cadmium		2400/2401*	
Silver Plate	Silver Plating, Electrodeposited		2412*	QQ-S-365*
Zinc-Nickel Plate	Plating, Zinc-Nickel Alloy		2417*	
Tin-Zinc Plate	Plating, Tin-Zinc Alloy		2434*	
Tin Plate	Tin Plating, Electrodeposited	MIL-T-10727*	2408*	
Anodizing	Anodized Coatings	MIL-A-8625* TYPE I, II & III		

\*Tank plating standard. SIFCO ASC does not perform tank plating, but manufactures many deposits that meet the performance requirements of the standard.

PLATING DEPOSITS		
Cadmium	Nickel	AeroNiki®
Zinc-Nickel LHE®	Copper	Cadmium LHE®
Rhodium	Gold	Nickel-Cobalt
Indium	Tin	Nickel-Tungsten
Tin-Zinc LHE®	Babbitt	Palladium
Platinum	Silver	Cobalt-Tungsten
Iron	Cobalt	Nickel-Phosphorus
AeroShield®		

PRIME APPROVALS			
Parker Hannifin Aerospace	GE AE	Pratt & Whitney	Sikorsky Aircraft
Bell Helicopter	Rolls Royce	Messier Dowty	Honeywell

QUALITY	
ISO 9001:2015	AS9100D Registered Quality System
NADCAP Chemical Processing	FAA Advisory Circular AC 43.13-1B
FAA Certified Repair Station #SOXR680K (Ohio)	
FAA Certified Repair Station #SOX3680K (Connecticut)	