

Dear Valued Customer,

I just wanted to take a moment of your time to say thank you.

With all the metal finishers available throughout the country, you allowed Hixson Metal Finishing an opportunity to assess your processing needs, and for that, my staff and I are very grateful.

We at HMF are continuing to strive everyday and in every way to better serve our customers. We truly are committed to being an extension of your company to create and become beneficial partners.

If my staff or I can be of any assistance or you have a comment or suggestion to help us better serve you in the future, please do not hesitate to contact me directly.

Again, I want to thank you for the trust you have placed in us. I assure you we take nothing more seriously.

Sincerely,



Douglas C. Greene
President
Hixson Metal Finishing

Hixson Metal Finishing is a premier metal finishing company whose vision is rooted in excellence, integrity, and accountability. From our original location in Newport Beach, California, we have worked diligently since 1960 to demonstrate just how far these values extend by providing a broad range of services to the military, aerospace, and commercial aircraft communities with competitive prices, timely delivery, and outstanding quality.

We offer more than 80 finishing processes that run the gamut from simple "rack-and-run" jobs to very complex multi-process jobs, including anodizing, precious metals, cadmium and nickel plating, non-destructive testing, painting, and many more. A great source of pride for us is our persistent pursuit of improving our current processes and our willingness to develop new and innovative methods and technologies to meet the needs and expectations of our customers.

In an effort to better serve you, we have established ourselves as a dynamic enterprise with a quality system that is fully computerized and in compliance with the strict standards of all customer and governmental specifications, including the National Aerospace and Defense Contractors Accreditation Program (NADCAP) and the Federal Aviation Administration (FAA). Additionally, we strive for efficient and effective communication which is most notably exemplified in our online order tracking system which allows our customers to check the real time current status of their jobs on-line via our website, 24/7.

With hundreds of years of collective metal finishing experience, our employees are among the most qualified and committed in the industry. Whether you have the size and reputation of a Boeing, Lockheed, or Parker Hannifin or you run a two-person company, you can rest assured that each and every one of us at Hixson will work tirelessly to make your experience with us rewarding and worthwhile.

Services



Anodize

Chromic Anodize (NADCAP Approved)	MIL-A-8625/AMS-A-8625	Type I, IB	Class 1 - Non Dyed Class 2 - Dyed
	BAC 5019	Type I	Class 1, 3
	AMS 2470		
Sulfuric Anodize (NADCAP Approved)	MIL-A-8625/AMS-A-8625	Type II, IIB	Class 1 - Non Dyed Class 2 - Dyed
	AMS 2471		
	AMS 2472		
Hard Anodize	MIL-A-8625/AMS-A-8625	Type III	Class 1 - Non Dyed Class 2 - Dyed
	AMS 2468		
	AMS 2469		
TFE Hard Anodize	MIL-A-63576	Type I	
Salvage Hard Anodize	MIL-A-8625	Type III	

Anodize Sealing

Nickel Acetate Seal	Natural color, Clear	Specify when desired
Deionized Water Seal	Natural color, Clear	Specify when desired
Sodium Dichromate Seal	Type I Chromic Green color Type II Sulfuric Green color Type III Hard Olive Drab color	
Duplex Seal		

NOTE: Unless otherwise specified by specification or purchase order, Sodium Dichromate is the default Seal used by Hixson.

Chemical Conversion

Chemfilm (NADCAP Approved)	MIL-C-5541	Class 1A Clear or Gold Class 3 Clear or Gold
	AMS C-5541	Class 1A Clear or Gold Class 3 Clear or Gold
	AMS 2473 AMS 2474 ASTM-B449 DPS 9.45 STP 58-405	Clear or Gold Type I, II, III
	MIL-DTL-5541 (Non Chromate)	Class 1 Class 2

Chemical Cleaning

Titanium Cleaning-Acid (NADCAP Approved)	Titanium Cleaning-Alkaline (NADCAP Approved)	Cleaning-Etching
Cleaning-FPL Etching	Clean-Degreasing	

Cadmium Plating

Bright Cadmium (NADCAP Approved)	QQ-P-416/AMS-QQ-P-416	Type I as plated Type II Gold, Clear, Olive Drab Type III Phosphate	Specify class/thickness required
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Services (Cont.)



Cadmium Plating (cont.)

Bright Cadmium (cont.) (NADCAP Approved)	AMS 2400	
Fluoroborate-Cadmium	NAS 672	
Dull Cadmium (NADCAP Approved)	QQ-P-416/AMS-QQ-P-416	Type I as plated Type II Gold, Clear, Olive Drab Type III Phosphate
	AMS 2400	
LHE Cadmium (NADCAP Approved)	AMS 2401	

Nickel Plate

Bright Nickel	QQ-N-290/AMS-QQ-N-290		Specify thickness required
Diffused Nickel-Cad (NADCAP Approved)	AMS 2416		
Electroless Nickel (NADCAP Approved)	MIL-C-26074/AMS-C-26074	Class 1-4	Specify grade/thickness required
	AMS 2404		Specify grade/thickness required
	AMS 2405		(Superseded MIL-C-26074)
Sulfamate Nickel (NADCAP Approved)	QQ-N-290	Class 1, 2	Specify thickness required
	AMS 2403		Specify thickness required
	AMS 2424		Specify thickness required

Tin and Copper Plating

Bright Tin (NADCAP Approved)	MIL-T-10727	Type I	Must specify Bright
	ASTM B 545		Must specify Bright
Tin-Lead (NADCAP Approved) /	MIL-P-81728/AMS-MIL-P-81728		60/40
Copper (NADCAP Approved)	MIL-C-14550	Class 0-4	Specify thickness required
	AMS 2418	Type I, II	Specify thickness required
Dull Tin (NADCAP Approved)	MIL-T-10727		Specify thickness required

Precious Metal Plating

Silver (NADCAP Approved)	QQ-S-365	Type I, II, III Grade A, B	Specify thickness required
	AMS 2410		Specify thickness required
	AMS 2411		Specify thickness required
	AMS 2412		Specify thickness required
	ASTM-B700		Specify thickness required
Gold (NADCAP Approved)	MIL-G-45204	Type I, Grade A & C Type II, Grade C	Specify class/thickness required
	AMS-2422		Specify thickness required
	ASTM-B-488	Type II, Code A Type II, III, Code C	Specify thickness required

Pricing



Anodize

Chromic Anodize, Type I	\$ 80.00
Sulfuric Anodize, Type II	\$ 60.00
Hard Anodize, Type III	\$ 100.00
TFE Hard Anodize	\$ 160.00

Minimum Charge List

Chemical Film	\$ 60.00
Salvage Hard Anodize	\$ 250.00
Dyes-Class 2 (additional charge)	\$ 5.00
Metalast Hard Anodize	\$ 150.00

Plating

Cadmium Plating, Type I & Type II	\$ 90.00
Cadmium Plating, Type II, Olive Drab	\$ 100.00
Cadmium Plating, Type III	\$ 115.00
Low Embrittlement Cadmium Plating	\$ 250.00
Nickel-Cadmium Diffused Plating	\$ 250.00

Electroless Nickel Plating	\$ 100.00
Nickel Plating, Bright	\$ 120.00
Nickel Plating, Sulfamate	\$ 110.00
Nickel-Tin Plating	\$ 180.00

Precious Metal Plating

Tin Plating	\$ 90.00
Tin-Lead Plating	\$ 95.00
Copper Plating	\$ 80.00

Silver Plating	\$ 145.00
Gold Plating	\$ 300.00

Painting

Prime	\$ 105.00
Prime and Topcoat (Stocked Coatings)	\$ 175.00
BR-127 Type I, Class I, Call for Class II	\$ 400.00

Fuel Tank Coating	\$ 150.00
Adhesive Bond Primer	\$ 300.00
Solid Film Lubricant	\$ 100.00

Special Processes

Vacuum Cadmium Plating	\$ 120.00
Brush Plating (Dalic)	\$ 180.00
Black Oxide Coating	\$ 80.00

Dow 7	\$ 115.00
Passivation	\$ 65.00
Phosphate Coating- Manganese & Zinc	\$ 95.00

Non-Destructive Testing

Fluorescent Penetrant Inspection	\$ 70.00
Rockwell Hardness Testing	\$ 60.00
Conductivity Testing	\$ 60.00

Magnetic Particle Inspection	\$ 65.00
Technical Sheet for MPI	\$ 45.00

Laboratory Testing

Salt Spray Testing (up to 24 hours)	\$ 55.00
High Humidity Test	\$ 65.00
Copper Sulfate Test	\$ 25.00
Solderability Test	\$ 75.00

Water Immersion Test	\$ 50.00
Coating Weight Test	\$ 65.00
T-Peel Test	\$ 350.00
Stainless Test Panel(s) Ea For T-Peel Test	\$ 30.00

Special Charges

Masking	\$ 60.00
Abrasive Blasting	\$ 60.00
Stripping	\$ 50.00
Embrittlement Relief (up to 8 hours)	\$ 50.00
Embrittlement Relief (additional hours)	\$ 5.00
High Temp Bake (400 F >)	\$ 125.00
Application of Oil	\$ 50.00
S/N Verification, Documentation (/hour)	\$ 70.00

Inert Atmosphere Baking (up to 1100 F)	
First 6 Hours	\$ 250.00
Each Additional Hour (7-24)	\$ 12.00
Identification	\$ 60.00
Source Inspection (per hour)	\$ 85.00
Chemical Cleaning	\$ 50.00
Etch or Titanium Clean and Etch	\$ 60.00

Expedite/Opening Charges

Monday thru Friday Expedite Charges and Opening Charges for Saturday, Sunday and Holidays - Please Call Customer Service

Please see Notes, Terms and Conditions on the reverse

Statement of Policy

The members of the Metal Finishing Association of Southern California and the National Association of Metal Finishers wish to remind you of the established practices of the metal finishing industry in processing your materials. These practices have been formalized and unanimously adopted by the members of this Association and Hixson Metal Finishing (HMF) as a Statement of Policy. It is generally recognized that even after employing all the science known to us, and capable persons with years of training and experience, there still remain hazards in the electro-plating and metal finishing fields. As a consequence, in order to avoid misunderstandings, we are hereby setting forth the below conditions under which your material will be accepted for processing:

1. Whenever we are given work for processing with detailed instructions as to treatment, our responsibility shall end with the carrying out of those instructions. Type of material, tolerance and specifications for processing shall be declared in writing prior to our processing.
2. Our liability for any cause is limited to the lesser of the cost of either the direct labor and material of the product damaged by our processing or:
 - A. One times our processing charges for product processes with precious metals.
 - B. Three times our processing charges for product processed without precious metals.

Compensation will only be given in the form of credit towards future processing unless agreed otherwise in writing prior to processing the job.

3. Liability greater than that outlined in paragraph 2 above will be assumed by HMF only when so agreed upon in writing. In such event, a higher charge may be made for our services.
4. Parts, materials, etc. as processed by HMF shall be presumed to be accepted as satisfactory by you if we are not notified of damages, shortages or other discrepancies within ten (10) working days of your receipt of the same. Rejected parts must be returned to us for rework. Further processing or assembly of rejected parts, materials, etc., by you or any other party shall constitute a waiver of any liability on our part.
5. Where operations or processes performed by HMF are in the nature of "salvage" or "salvaging" parts or material, the work is accepted on a "best effort" basis and no liability shall attach to HMF unless previously agreed upon in writing prior to processing the job.
6. In the event that results of the metal finishing operation(s) are unsatisfactory due to metal imperfections, changes in grade or composition of materials, manufacturing and/or fabrication imperfections, usages for which the plating or other metal finishing operation was not reasonably designed, and similar variables over which we have no control, the customer would be required to pay the contracted amount for the finishing operation(s) performed.
7. Due to the high risk of damage from differential heating of alloy constituents in high copper aluminum alloys, all 2000 series aluminum alloys will only be hard anodized (type III) on a "best effort" basis and HMF shall have no liability for parts damaged during the process.
8. This statement of policy supersedes all prior written or verbal terms and conditions. Furthermore, at the time and date material is processed, this statement of policy supersedes all other terms and conditions and is the sole document outlining HMF's terms, conditions and liabilities under which we will accept material for processing.

In the event that credit is due to the customer within the above conditions, said credit will be given towards future work and shall not be paid by HMF in cash.

Minimum charges for multiple processes will be evaluated based on part size, quantity and estimated labor to complete the processes. No Minimum Charge List can alone accurately provide the most competitive price for your parts without a thorough review of your blueprints and plating requirements.

We trust you will agree with us that the conditions above set forth are realistic and reasonable and that acceptance of the material for processing subject to such conditions will permit us to continue to provide high quality metal finishing at a fair and reasonable cost.

Hixson Metal Finishing is an approved supplier to the following Prime Contractors.

ACR Industries	Pacific Scientific	Hixson Metal Finishing FAA REPAIR STATION #OYYR040J	Rating	Spec.
Bell Helicopter	Parker Hannifin (All Divisions)			
Boeing (Division Approvals can be found on the Boeing Web site D1-4426) Huntington Beach Long Beach Mesa St. Louis North America	Raytheon			
	Remco Hydraulics	Magnetic Particle Inspection		NAS 410 MIL-STD-410E MIL-STD-6866 ASTM-E1417
	Rolls-Royce Gear Systems			
	Rolls-Royce Engine Services (Oakland)	Liquid Penetrant Inspection		NAS 410 MIL-STD-410E ASTM-E1444
Boeing Space & Communications	Sundstrand Aerospace			
Eaton Corporation	Shur-Lok	Black Oxide		MIL-DTL-13924
Fairchild-Aerospace Fastener Group	Sperry Corporation	Brush Plating		MIL-STD-865
Fairchild-Control Systems	Smiths Aerospace Actuation Systems-LA	Cadmium Plate		QQ-P-416
General Electric-Aircraft Engine	Talley Defense Systems	Chemical Film		MIL-C-5541
Goodrich Aerospace Cleveland Pneumatics Rohr-San Diego Riverside	Textron-Divisions Bell Helicopter HR (Hydraulic Research) Lycoming Cessna Aircraft Company	Chromic Anodize		MIL-A 8625 TYPE I
Gulfstream Aerospace		Copper Plate		AMS 2418
Honeywell-Allied Signal Aerospace Aerospace Equipment & Systems Auxiliary Power Controls & Accessories Flight Systems Aircraft Landing Systems Propulsion Engines	TRW Astro Aerospace	Dry Fill Lubricant		MIL-L-46010
	United Technologies	Electroless Nickel		MIL-C-26074
	Unidynamics (Crane)	Hard Anodize		MIL-A-8625 TYPE III
	Vickers	Nickel Plate		QQ-N-290
	NADCAP APPROVED	Painting		MIL-F-18264
HR Textron	Alloy Plating	Silver Plate		QQ-S-365
ITT Cannon - Military Aerospace Division	Brush Plating			
	Anodizing	Sulfuric Anodize		MIL-A 8625 TYPE II
Kaiser Aerospace	Chemical Cleaning-Titanium Acid			
	Chemical Cleaning-Titanium Alkaline	Vacuum Cadmium		AMS-C-8837
Kaman Aerospace	Conversion/Phosphate Coatings			
Lockheed Martin	Electroless Nickel Plating			
Sunnyvale	Electroplating Cadmium			
Fort Worth	Electroplating Copper			
Georgia	Electroplating Gold			
Denver	Electroplating Nickel			
Orlando	Electroplating Silver			
New Orleans	Electroplating Tin			
Palmdale	FPL Etch			
L3 Communications Corporation	Liquid Penetrant Inspection			
Ocean Systems Division	Magnetic Particle Inspection			
	Metal Bond Anodize Processes			
Moog Aerospace	Painting & Dry Film Coatings			
East Aurora	Pre-Penetrant Etch			
Torrance	Stripping			
Salt Lake City	Surface Treatment/Passivation			
Northrop/Grumman-Divisions				
Commercial Aircraft				
B-2				
Teledyne Ryan				

Services (Cont.)

Special Processes

Vacuum Cadmium	MIL-C-8837/AMS -C -8837	Type I as plated, Type II supplementary treatment Type III Phosphate	Specify class/thickness required
	AMS 2426		Specify thickness required
Brush Plating (Dalic) (NADCAP Approved)	MIL-STD-865		
Black Oxide (NADCAP Approved)	MIL-C-13924 AMS 2485	Class 1, 4	Steel, Stainless Steel
Dow 7 (NADCAP Approved)	MIL-M-3171	Type III	
Passivation (NADCAP Approved)	QQ-P-35/AMS-QQ-P-35	Type II, VI, Type VII, VIII	Specify testing
	ASTM A 967		Specify testing
	ASTM-A-380		Specify testing
Phosphate (NADCAP Approved)	DOD-P-16232 AMS 2480 AMS 2481 TT-C-490	Type M, Z	Classes 1-3 only
Masking			Liquid, tape, plugs, other

Non-Destructive

Fluorescent Penetrant (NADCAP Approved)	ASTM E - 1417 BAC 5423		
Magnetic Particle (NADCAP Approved)	ASTM E - 1444 BAC 5424 STP 53-001		
Hardness Testing	ASTM E - 18		

Painting

Solid Film Lubricants (NADCAP Approved)	Most-Specs	Type I, II, III	Please inquire for availability
Primer	Most-Specs		Please inquire for availability
Topcoats	Most-Specs		Please inquire for availability
Fuel Tank Coating	Most-Specs		Please inquire for availability
Adhesive Primer	Most-Specs		Please inquire for availability

Contact Us



Customer Support (Fax: 949.645.9043)

Alicia Frutos <i>Customer Service Representative</i>	Extension 4411	alicia@hixsonmetalfinishing.com
Liz Cervantez <i>Customer Service Representative</i>	Extension 4431	liz@hixsonmetalfinishing.com
Greg Gannon <i>Customer Service Supervisor</i>	Extension 4551	greg@hixsonmetalfinishing.com

Sales (Tel: 949.645.4800 Ext 4200, Fax: 949.645.0534)

Pricing and Estimating (Fax: 949.645.0534)

Gary Ragan <i>Pricing/Estimating</i>	Extension 4221	gary@hixsonmetalfinishing.com
Danielle Elbandagji <i>Pricing/Estimating</i>	Extension 4231	danielle@hixsonmetalfinishing.com

Contracts and Planning (Fax: 949.645-0534)

Sharon Rogers <i>Planning Supervisor</i>	Extension 4211	sharon@hixsonmetalfinishing.com
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Quality (Fax: 949.650.2525)

Debbie Sykes <i>Quality Manager</i>	Extension 4671	dsykes@hixsonmetalfinishing.com
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Accounting (Fax: 949.645.0920)

Jordan Elbandagji <i>Accounting</i>	Extension 4821	jordan@hixsonmetalfinishing.com
Debbie Davis <i>Accounts Receivable</i>	Extension 4831	debbie@hixsonmetalfinishing.com

Environmental (Fax: 949.645.0920)

Bruce Greene <i>Environmental/Health & Safety</i>	Extension 4771	bgreene@hixsonmetalfinishing.com
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NOTE: Please contact Customer Support for order status, pickup and delivery.

CUSTOMER INFORMATION	
<input type="checkbox"/> Company Name and Address*	<input type="checkbox"/> Company Main Phone Number*
<input type="checkbox"/> Company Fax Number	<input type="checkbox"/> Contact Name*
<input type="checkbox"/> Contact Direct Phone Number and Extention*	<input type="checkbox"/> Contact Email Address
ORDER INFORMATION	
<input type="checkbox"/> Purchase Order Number*	<input type="checkbox"/> Customer Job Number, Shipper Number or Work Order Number (If Applicable)
<input type="checkbox"/> Hixson Quote Number (If Applicable)	<input type="checkbox"/> Preferred Shipping Method (Provide Account Number if Fed/Ex, UPS, etc.)
<input type="checkbox"/> Order Request Date, Customer Need By Date (Dock Date). If AOG or DX-rated, Provide Aircraft Tail No.	<input type="checkbox"/> Is Part(s), Drawing(s), or Program ITAR Controlled?
<input type="checkbox"/> Is this a rework/reject? Specify reason and responsible party.	<input type="checkbox"/> Prime Contractor, is Approval Required?
PART INFORMATION	
<input type="checkbox"/> Part Number(s)*	<input type="checkbox"/> Part Revision*
<input type="checkbox"/> Part Description(s)	<input type="checkbox"/> Part Quantity(s)*
<input type="checkbox"/> Base Material of Part(s) (i.e 7075 Alum, 4140 Steel, Etc.)*	<input type="checkbox"/> Heat Treat/Temper (i.e. T6, H1075, Etc.)*
<input type="checkbox"/> Hardness (KSI, RC, Etc.)	<input type="checkbox"/> Parts List Revision (As required)
<input type="checkbox"/> Aircraft Program, Model and Type (Required for all Boeing Work)	<input type="checkbox"/> Flight Safety/Fracture Critical/Mission Critical/Primary Part? (Specify When Known)
PROCESSING INFORMATION	
<input type="checkbox"/> Process(es) Specification(s) and Application Specification(s) (As Required)	<input type="checkbox"/> Specification Revision(s), Including EO's, ECN's, PSD's, Etc. (As Required)
<input type="checkbox"/> Process Classifications: Type, Class, Grade, Method, Level, Color (or Federal Standard Number), Etc. (As Applicable)*	<input type="checkbox"/> Special Testing Required (If Applicable)
<input type="checkbox"/> If Test Panels Are Included, State Material Type, Size, and Quantity	<input type="checkbox"/> If Required, Supply Gages with Order
<input type="checkbox"/> Non-Destructive Testing Acceptance Criteria (State Level)	<input type="checkbox"/> Coating Thickness Requirement If Not Specification or Blueprint Defined.
<input type="checkbox"/> Are There Any Critical Dimensions, Surface Finishes, or Tight Tolerances on Parts?	<input type="checkbox"/> Masking (If Required) Provide Readable Blueprint (s), Sketch(es), Drawing (s), or Electronic File(s) (DXF or DWG).
<input type="checkbox"/> Stress and/or Embrittlement Bakes (As Required), State Time and Temperature	<input type="checkbox"/> Inspection Sampling (I.E. AQL, 100% Inspect, Etc.) If not Specification or Blueprint Defined
<input type="checkbox"/> Special Handling Requirements	<input type="checkbox"/> Special Packaging Requirements
<input type="checkbox"/> If Source Inspection is Required, State if It's Government or Customer and Provide Contact Info	<input type="checkbox"/> Supply All Applicable Quality Clauses
<p>Please note that all information requested followed by an asterisk (*) and are in Bold text are required information. HMF cannot process your parts without this vital information. The purpose of the document is to help you provide HMF a complete and accurate PO to better serve your company's needs and to reduce the delays that may occur due to a lack of required information needed to process your parts (as per AS 9100 and NADCAP requirements). Note: Combining multiple parts on a single PO is preferred, however parts must be of like processing, including same material type, hardness, etc. If you have any questions, comments, or require help in writing your PO, please feel free to contact the HMF Planning Department at (949) 645-4800</p>	