

*Metal Finishing Company*  
*Aerospace Finishing, Non-Destructive Testing and Heat Treatment*  
*metalfinishingco.com*

- Metal Finishing Company, Inc. Established in Wichita, Kansas, USA, in 1940
- The largest family-owned aerospace processing facility in North America and the only one to also provide heat treatment services
- Over 450 full-time employees, with over 500,000 square feet of process area
- Open capacity, staffing three shifts
- Offering over 100 aerospace finishing and pre-finish disciplines
- Metal Finishing Company holds hundreds of aerospace and commercial OEM processing approvals
- Metal Finishing Company holds more Boeing Process Approvals than any other processing company worldwide
- MFC has in-house RFID (Radio Frequency Identification) to track orders through processing and maintain traceability
- MFC currently holds seventeen NADCAP accreditations companywide for Chemical Processing, Non-Destructive Testing, Heat Treatment, and Surface Enhancement

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Metal Finishing Company, Inc. has plants in Wichita, Kansas; Wellington, Kansas (DSI); and Chihuahua City, Mexico.

### Aluminum Processing

There are a total of (7) Seven Aluminum Processing lines. Chromic Acid, Boric / Sulfuric Acid, Sulfuric Acid, and Dyed Sulfuric Acid, The largest lines being (20) twenty feet long by (8) feet deep in Wichita, and at the Wellington facility (80) eighty feet long by (54") fifty-four inches deep. This includes (2) Two Type III Hard anodize lines.

### Plating and Coatings

Capabilities include Zinc Nickle, Cadmium, Dow 7 and 17, Hard Chrome, Nickel, Electroless Nickle, Copper Strike, Silver Strike, Passivation, Phosphate Coatings, and Phosphate Fluoride, as well as support bake ovens and blasting services.

### Spray on Coatings

Primer, Top-coat, and others such as Teflon, Fuel Cell, Dry Film Lube, Non-Skid Coating, and Sol-Gel are applied using one of the (37) thirty-seven spray booth stations. An additional 10,000-square-foot paint shop will be in service at the Mclean facility third quarter of 2023, adding (8) eight more paint stations.

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### Non- Destructive Testing

Extensive NDT/NDI/MRO capabilities in Metals, Composites, and Bonded Assemblies. These disciplines include Penetrant Inspection, Magnetic Particle Inspection, Ultrasonic Inspection, X-Ray, Eddy Current, Phased Array, Weld Inspection, and several others. Metal Finishing Company also provides on-site NDT inspection.

### Heat Treatment

Metal Finishing Company is unique to other aerospace processing plants by also performing Heat Treatment, complementing our other processes. We also provide support services, including Straightening, Aging, and Testing of Aluminum Parts and Wrought Materials. We can also perform Heat Treatment of Titanium, Alloy, Carbon, Stainless, and PH steel. Quench, Temper, Normalizing, Annealing, Stress Relieving, Air Aging, and Carburizing. Utilizing an in-house fully equipped Metallurgical Lab.

### Other Service

Include Polishing, Shot Peening (Surface Enhancement), Thermal Spray (Tungsten Carbide), Commercial Powder Coating, and Commercial Electro Zinc Plating.

Metal Finishing Company Corporate McLean Facility  
1423 S. McLean Wichita Kansas 67213

295K Sq. Ft.  
Nine Buildings



Metal Finishing Company Murdock Facility  
721 E. Murdock, Wichita KS 67214

140K Sq. Ft.



Metal Finishing Company Aluminum Heat Treatment Facility  
701 E. Murdock, Wichita KS 67213

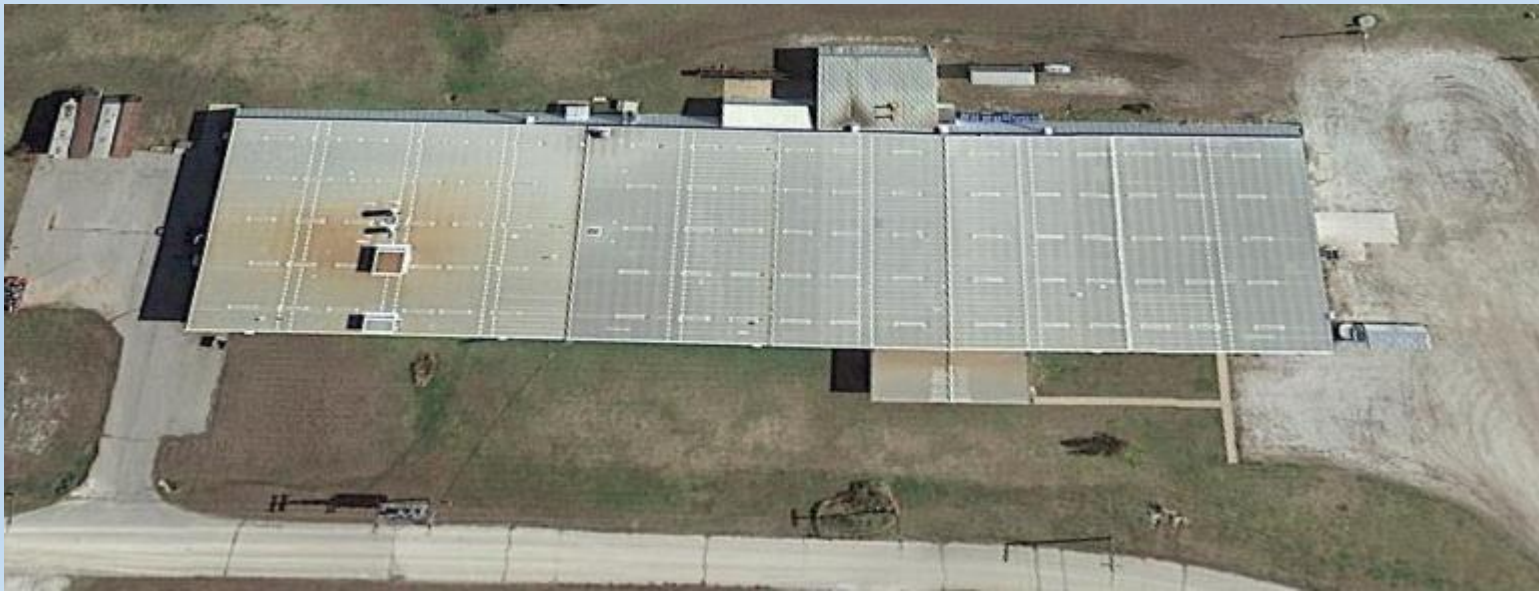
20K Sq. Ft.



Metal Finishing Company Steel Heat Treatment Facility  
1630 W. Harry, Wichita KS 67213  
36k Sq. Ft.



Diversified Services Facility  
27 Clark Ave. Wellington Kansas 67152  
180k Sq. Ft.



Metal Finishing Company Chihuahua Facility  
AV. Nicolas Gogol 11332, Chihuahua City, Chihuahua 31136  
120K Sq. Ft.



# *Metal Finishing Company*

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## Company Processes and Capacities (Alphabetical by Location)

### Metal Finishing Company, McLean, Wichita KS

Abrasive Blasting (Glass, Aluminum Oxide, Plastic Media, Satin Finishes)

Acid Pickle (tank sizes – Cad 84" x 30" X 48", Nickel 96" X 29" X 48", Zinc 144" X 48" X 84")

Alkaline Cleaning (tank sizes – Cad 84" X 21" X 42", Nickel 96" X 29" X 48", Zinc 144" X 40" X 84")

Alodines (Chem Film) 600, 1200, 1500, 1800 (tank sizes – 60" X 24" X 192")

Anodizing (Sulfuric, Boric/Sulfuric & Chromic) Types I & III 60" X 36" X 190")

Anodizing Type 2, Class 2 Dyes, Gold, Black, Blue, Red, Green (tank size 36" X 23" X 60")

Black Oxide Coating (tank sizes – 24" x 24" x 24")

Cadmium Plating (tank sizes – 84" x 48" x 42") Types I, II & III

Chemical Conversion Coating (tank sizes – 192" x 24" x 60") Type I, II

Cleaning and Descaling

Copper Plating (tank sizes – 36" x 23" x 36")

Curing Prime/Paint

Dow 17 Anodize( tank sizes – 48" x 30" x 38") Types I & II, Classes C & D

Dow 7 Treatment (tank sizes - 84" x 29" x 42")



Metal Finishing Company, McLean, Wichita KS cont.

Dry Film Lubrication

Electroless Nickel Plating (tank sizes – 24" x 36"x 32") Class 1 & 2

Hard Anodize Type III (tank sizes - 96"x 24" x 48") Class 1 & 2

Hard Chrome Plating Class 1 & Class 2 – 5 Cells – Tank Sizes (24" x 36" x 48")

Hydrogen Embrittlement Relief & Stress Relief Bakes 10 Ovens (0-1000°F)

Masking, all media

Nickel Plating (tank sizes – 96"x 54" x 48")

Nickel Strike (tank sizes – 84" x 21" x 42")

Passivation (tank sizes – 115" x 26" x 42"); Type II, VI & VIII

Part Marking

Phosphates Coating- Zinc & Manganese (tank sizes - 34" x 26" x 42")

Phosphate Fluoride Coating of titanium (Tank sizes - 96" x 22" x 40")

Pickle & Oiling (tank sizes – 86" x 36" x 42")

Polishing

Prime/Paint, (37) Thirty Seven total Paint Stations

Shot Peen Machine,(2) Wheelabrator Pneumatic, 18" wheel

Shot Peening Inner Diameter Machine

Shot Separator, Sweco



## Metal Finishing Company, McLean, Wichita KS

Silver Plating and Tin Plating

Stress Relieve Baking

Teflon Coating

Vapor Degreasing

Zinc Nickel (tank sizes – 84” x 48 x 42”)

Zinc Plating Rack and Barrel Types I & II Commercial

## Metal Finishing Company, NDT Services, Wichita KS

ASNT NDT Level III consulting

AWS Certified Weld Inspection

Conductivity, Hardness Testing and Temper Verification

Eddy Current Inspection

Fluorescent Penetrant Inspection

Magnetic Particle Inspection units, four total

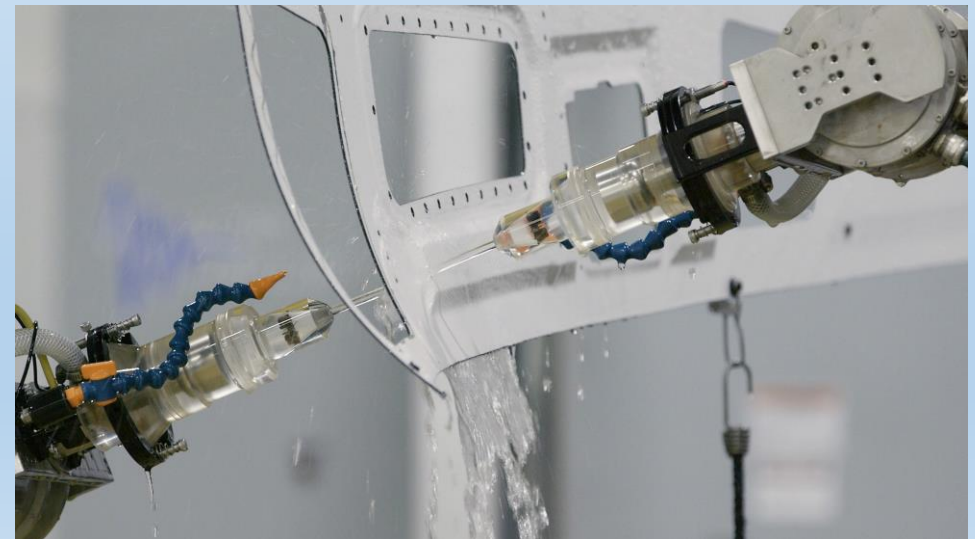
Pre-weld/braze cleaning of ferrous and non-ferrous materials

Phased Array Ultrasonic Inspection

Ultrasonic Inspection of Composite and Bonded Structures 16' X 30' max

Welder and Weld Procedure Qualification (MIL-STD, AWS, ASME, Aerospace)

X-Radiography of composites, cast and welded sub-assemblies



Metal Finishing Company, Flame Spray. Wichita KS

Thermal coatings / Tungsten Carbide  
Testing Services

Metal Finishing Company, Murdock, Wichita Ks

NDT Services for Aluminum, Steels, and Composites  
One Boric Sulfuric Anodize Lines 144" long X 60" deep  
One Boric Sulfuric line 240" long X 96" deep  
Two Chemical Conversion Lines 144" long X 60" deep  
One Commercial Hard Anodize Tank Line (black dye available)  
Ten Paint Stations for Prime, Paint, and Top Coat Applications

Diversified Services Division, Wellington, tanks are 80 feet (24.3 Meters) Long

Processes tanks 960" (80 feet) x 54" x 24"  
Chemical Conversion Type 1 and 3, Chromic Acid Anodize Type I and IB  
Fluorescent Penetrant Inspection  
Parts Masking  
Prime/Paint/ Part Marking  
Shot Peening



Metal Finishing Company, Chihuahua City, Chihuahua Mexico  
(AS9100 Rev D and NADCAP Accredited)

NDT Services for Aluminum Penetrant Inspection, Type 1 Method A Level 3

Chemical Conversion Coat (Alodine 1200)

Chemical Conversion Coat ( Type 1C, MIL-C-5541, MIL-DTL-5541, Hand Chem Film)

Chromic Anodize Type 1, CL 1, CL 3, CL 5

Boric Sulfuric Anodize Type 1C

Dry Film Lube Application

Sulfuric Acid Anodize MIL-A-8625 Type II Class I Clear, several dyed options available.

Masking Services

Primer Application

Fuel Tank Coatings

Top Coat Application

Services currently being added in 2023

Magnetic Particle Inspection

Shot Peening Manual and Automatic Table Peening

Cadmium Plating

Zinc-Nickle Plating

Passivation

Sol-Gel Application

Ultra Sonic Inspection



## Metal Finishing Company, Aluminum Heat Treatment, Wichita, Ks

Aluminum Processing Capabilities; for Sheet, Plate, Bar, Rod, Tubing, Forgings, Castings, Extrusions, and Weldments

Solution Heat Treating

Artificial Aging and Stress Relieving Aluminum

Partial and Full Annealing Aluminum

Cold straightening: Aluminum, Carbon Alloys, Stainless Steel, Titanium, and Aluminum Alloys

Hot Straightening: Aluminum Alloys

Freezer -10F 279" x 174" x 108"

Hardness and Conductivity Testing



## Metal Finishing Company, Hard Metal Heat Treatment, Wichita KS

Heat Treatment Services for Titanium, PH Stainless Steels, Alloy Steels, and Carbon Steels

Air Stress Relieve and Anneal mild steel and medium carbon steels

Vacuum Stress Relieve, Anneal, Bright Anneal, 300 series SS, Inconel, PH SS, Titanium, Alloys.

Vacuum Solution HT Tools Steels, PH SS, 400 series SS, Inconel, and, Titanium

Air Aging 13-8, 15-5, 17-4, Custom 335 & 455.

Tempering Mild Steels, Medium, and High Carbon Alloys

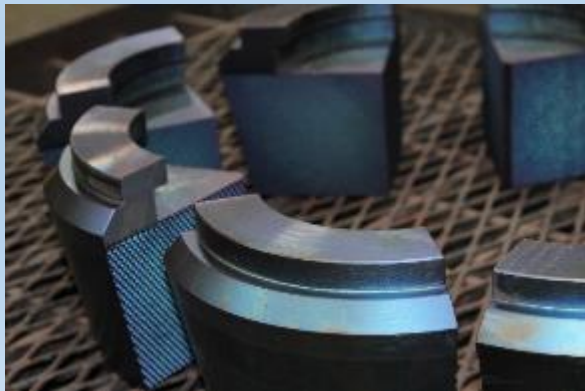
Commercial Carburizing

Normalizing in Atmosphere of Mild Steel, Medium and High Carbon Steels Vacuum Full Anneal for machined parts. Mild Steel, Medium &

High Carbon Alloys Beryllium Copper Aging 600-650F

Cryogenic Processing

In-house Hardness Testing, Case Depth Analysis (commercial), Metallography, and Tensile Pulls. Additional required testing is available locally from partnering approved outside lab sources.



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Metal Finishing Company currently holds (17) seventeen separate NADCAP approvals companywide for Chemical Processing, Surface Enhancement, Aluminum and Steel Heat Treatment, and Non- Destructive Testing.



*This certificate is granted and awarded by the authority of the Nadcap Management Council to:*

*Metal Finishing Co*

*1423 S. McLean Blvd  
Wichita, KS 67213  
United States*

*This certificate demonstrates conformance and recognition of accreditation for specific services, as listed in [www.eAuditNet.com](http://www.eAuditNet.com) on the Qualified Manufacturers List (QML), to the revision in effect at the time of the audit for:*

*Chemical Processing*

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MFCO International Headquarters - 1329 S. McLean Blvd. Wichita KS 67213, 316-267-7280

MFCO Wichita Facility - 1423 S. McLean Blvd. Wichita KS 67213, 316-267-7289

MFCO NDT Division - 1329 S. McLean Blvd. Wichita KS 67213, 316-267-1259

MFCO Murdock Div. - 701 E. Murdock Wichita KS 67214, 316-263-1610

Diversified Services Div. - 27 Clark Ave. Wellington KS 67152, 620-326-7655

MFCO Flame Spray Div. - 1441 S. McLean Blvd. Wichita KS 67214, 316-267-8041

Metal Finishing Co. MX Div.- AV Nicolas Gogol #11332 Chihuahua City MX 31136, 614-483-1559

Metal Finishing Co. Aluminum Heat Treatment Div. - 401 E. Murdock Wichita KS 67214 316-440-0990

Metal Finishing Co. Steel Heat Treatment Div. – 1630 W. Harry Wichita KS 67213 316-260-2263

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