Techmetals, Inc.

For over 50 years, our customers have relied upon Techmetals for unmatched metal plating, reliability and customer service. We take great pride in our ability to work closely with our customers, offering a personal and efficient solution for over 86 finishing processes and engineered performance coatings — helping to set us apart from our competitors.

We support a variety of industries such as Aerospace, Automotive, Medical, Military, Power Generation, Agriculture and more with certified solutions backed by Nadcap CP & CT, ISO 13485:2016, ISO 9001:2015, ITAR, FAA Repair Station and Medically Validated Coatings and Processes to name a few.

Large-part Capabilities and Automated Lines help maximize our services to you with regards to quality, turnaround and customer service. With a 172,000 sq. ft. campus and up to 20-ton capacities, no job is too large or too small. Techmetals truly is a one-stop-shop for a variety of finishing solutions. Just a few of our services include:

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<th>Anodized Aluminum</th>
<th>Copper Plating</th>
<th>Laser Etching</th>
<th>Nickel, Electrolytic</th>
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<td>Mag Particle NDT</td>
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<td>Masking Dept.</td>
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<td>Grinding, Centerless</td>
<td>Nickel, Electroless</td>
<td>PVD (DLC, TiN, etc.)</td>
<td>Zinc Nickel</td>
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</tbody>
</table>

This list is just a few of the processes and services we offer. Our automated lines and large-part capabilities for industries such as automotive, medical, aerospace and others help set us apart from our competitors.
Aerospace & Defense Finishes

Techmetals has been instrumental in helping some of the aerospace industry’s most recognizable names with high-quality and dependable metal plating solutions. We work closely with each of our clients to develop unique metal finishing procedures for commercial and military aircraft, helicopters and even spacecraft.

We assist both OEM component and MRO facilities — providing metal plating and anodizing for a variety of parts. With the reputation as an industry leader, Techmetals ensures the highest quality is obtained through our certifications such as Nadcap Chemical Processing, Nadcap Coatings, AS9100D — as well as our participation in the FAA flight safety program. We proudly are recognized as an FAA Repair Station and able to handle the most flight-critical components available.

ISO 13485:2016 • ISO 9001:2015 • ATF-FFL 7 & 10 • FAA Repair Station

Medical Coatings & Processes

Parts utilized in the medical field demand precision, quality and compliance to the highest degree.

Techmetals is certified to provide a variety of metal finishes including both titanium and aluminum anodizing, passivation and medical grade chrome plating, just to name a few. We also provide the laser etching services now required by the medical industry to properly track or document each part’s use.

Our medical processes have all undergone and passed biocompatibility testing for bioburden, cytotoxicity and wear resistance — with our MedaDize finish meeting even aerospace requirements.

Medical Processes Include:

- **BioBrite** (Validated Electropolish)
- **MedaPass** (Validated Passivation)
- **TM-Rx** (Medical Grade Chromium Coating; ISO 10993-1, Validated)
- **Medically Validated PVD Coatings:**
  - TechCoat 100, 200, 300, 400
  - TiN, AlTiN, DLC, CrN & more
- **Aluminum & Titanium Anodizing**
- **Laser Etching/Dark Marking**
- **Blasting, Testing, Prototyping**
- **Ultrasonic Cleaning**
- **Research & Development**
- **MedaDize Color Titanium Anodize**
  - TM-0079 (Aqua)
  - TM-0064 (Magenta)
  - TM-0092 (Dk. Blue)
  - TM-0003 (Green)
  - TM-0001 (Gold)
  - TM-0005 (Seafoam)
  - TM-0096 (Purple)
  - TM-0004 (Lt. Blue)
  - TM-0093 (Bronze)
  - TM-0002 (Blue)
  - TM-0134 (Teal)
  - AMS2488 (Type II Gray)

Custom colors available upon request. Provided they fall within titanium anodize color spectrum. All TM-MedaDize colors have a high and low color acceptance standard — standards can be provided.

ISO 13485:2016 • ISO 9001:2015 • ATM-FFL 7 & 10 • FAA Repair Station
Grinding Services

Techmetals can do pre-grinding on parts before plating, as well as post-grind hard chrome projects to meet dimensional specifications. Having these resources under a single roof helps improve turnaround times and efficiency.

Just another example of Techmetals commitment to being a one-stop-shop for customers in Aerospace, Nuclear, Heavy Machinery and more.

**Vertical Grinding Capabilities:** 72" Vertical Stroke ■ 60" Table ■ 30,000 lbs.

**Horizontal Grinding:** Up to 100" Length ■ 20" Diameter ■ 2,500 lbs.

**5-Axis Grinder:** (30" x 30" x 30")

Centerless Grinding is also available (call for details)

Engineered Performance Coatings  
(MV - Medically Validated)

- OxyTech
- OxyLube
- Armatech
- Diamoforce
- Splatter Guard
- TM105
- TM111
- TM119
- TM121
- TM-Rx Medical Chromium (MV)
- E-Krome
- TM103
- TM104
- TM117C
- TM117P
- TM129
- TM133
- UltraKoat
- TM109
- OPTAKOAT
- Optic EN
- TechCoat 100 (MV)
- TechCoat 100 Med (MV)
- TechCoat 200 (MV)
- TechCoat 200 Med (MV)
- TechCoat 300
- TechCoat 345 Med (MV)
- TechCoat 400 (MV)
- TechCoat 500
- TechCoat 600
- TechCoat 103
- TM107
- TM108
- TM117C
- TM117P
- TM129
- TM133
- UltraKoat
- TM209
- OPTAKOAT
- Optic EN
- TechCoat 100 (MV)
- TechCoat 100 Med (MV)
- TechCoat 200 (MV)
- TechCoat 200 Med (MV)
- TechCoat 300
- TechCoat 345 Med (MV)
- TechCoat 400 (MV)
- TechCoat 500
- TechCoat 600

Nondestructive Testing (NDT)

Techmetals currently is certified in Magnetic Particle Testing, allowing our customers to verify their equipment or parts with techniques that do not damage them. Magnetic particle inspection is the most efficient and affordable testing method available. We have three separate NDT benches, with the largest able to accommodate parts up to 54" in length.
Techmetals Industry Specifications

Below are specifications that are most often provided by Techmetals. We also offer metal plating solutions to additional specifications such as AMS, MIL, ASTM, SAE and Customer Specifications. Techmetals also offers R&D, Optical Coatings, Medical Coatings, Large ID & OD Grinding & Areas with 20-Ton Capacities.

- **Alkaline Zinc**
  - ASTM B 633

- **Anodize**
  - MIL-A-8625
  - AMS 2469
  - AMS 2471
  - AMS 2472
  - ASTM B 580* (Hex)

- **Brush Plating**
  - Nickel, Cobalt, Copper
  - MIL-STD-865C (USAF)
  - AMS 2451

- **Copper**
  - AMS 2418

- **Chemfilm**
  - MIL-C-5541
  - AMS 2473
  - MIL-DTL-5541 (Hex)
  - MIL-DTL-5541 (Hex Free)
  - BAC 5719

- **Cadmium**
  - QQ-P-416
  - AMS QQ P 416

- **Electropolish**
  - ASTM B 912

- **Gold**
  - ASTM B 488

- **Hard Chrome**
  - MIL-DTL-23422
  - MIL-STD 1501 F

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  - MIL-DTL-23422
  - MIL-STD 1501 F

- **Nickel Boron**
  - AMS 2433
  - ASTM B 607*

- **Nickel/EN**
  - AMS C 26074*
  - AMS 2404
  - AMS 2405
  - ASTM B 733
  - MIL-C-26074
  - MIL-DTL-32119

- **Nadcap™ Accredited Processes are Shown in Blue.**
  - Other Nadcap™ processes may be available upon request.
  - *Nadcap™ Accredited “other” under scope.

- **Passivation**
  - AMS QQ P 35
  - AMS 2700
  - ASTM A 380
  - ASTM A 967
  - ASTM F86*
  - FED-QQ-P-35

- **PVD / Thin Film Vacuum**
  - AMS 2488
  - AMS 2417
  - BAC 5680
  - BAC 5637

- **Testing**
  - NDT Mag Particle
  - Adhesion Scratch & Chisel
  - Corrosion/Salt Spray & Porosity
  - B12 Adhesion Bend
  - Thickness & Magnetic
  - Eddy Current
  - XRF Micro-hardness
  - Water Immersion Bond
  - Strength-tape
  - Metallography & Microstructure

- **Tin**
  - ASTM B 545*

- **Titanium Coating**
  - AMS 2488

- **Titanium Coating**
  - AMS 2488

- **Tin**
  - ASTM B 545*

- **Zinc Nickel**
  - AMS 2417
  - BAC 5680
  - BAC 5637

- **Other**
  - MIL-STD-186
  - MIL-STD-171
  - BAC 5625
  - MPR 1059 Navy
  - NAVAIR/NAVSEA/NAWCAD
  - Nickel PTFE, Diamond Coatings, OptaKoat, Hard Chrome, Replacements & more

- **Silver**
  - AMS 2410
  - AMS 2411
  - AMS 2412
  - ASTM B 700
  - QQ-S-365

- **Testing**
  - NDT Mag Particle
  - Adhesion Scratch & Chisel
  - Corrosion/Salt Spray & Porosity
  - B12 Adhesion Bend
  - Thickness & Magnetic
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  - RandD@techmetals.com

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