



FZE Manufacturing Solutions Adds Capacity for Electropolishing Stainless Steel Services

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FZE Manufacturing Solutions, a full-service machining and manufacturing company based in Wisconsin, announced today that it has expanded its electropolishing stainless steel services capacity to meet increasing demand from customers in the medical, aerospace, automotive, and food and beverage industries.

The expansion allows FZE Manufacturing Solutions to process a greater volume of parts through its electropolishing stainless steel services line while maintaining the tight tolerances and surface finish quality the company is known for. The added capacity comes as manufacturers across multiple sectors increasingly specify electropolished components for applications requiring superior corrosion resistance and sanitary surface conditions.

Electropolishing, also known as electrochemical or anodic polishing, is an electrolytic finishing process that removes microscopic surface layers from metal parts. The technique works as the reverse of electroplating, passing an electric current between an anode and cathode submerged in a chemical electrolyte solution to dissolve surface imperfections such as burrs, roughness, and micro-depressions. With its expanded electropolishing stainless steel services capacity, FZE Manufacturing Solutions can now achieve finishes as

smooth as five micro inches Ra, a level of precision suited to medical device and food-grade applications.

"Demand for electropolishing stainless steel services has grown steadily as more of our customers require parts that can withstand harsh operating environments without corroding or contaminating sensitive processes," said Doug Pribyl, CEO of FZE Manufacturing Solutions. "Expanding this capability allows us to keep pace with that demand and continue delivering the surface finish quality our customers depend on, without extending lead times."

Unlike traditional mechanical polishing methods, electropolishing removes surface contaminants and irregularities without introducing the mechanical fatigue associated with buffing or grinding. The process also eliminates the need for the harsh chemicals typically used in other metal finishing methods, and the electrolyte solution used during electropolishing can be reused, reducing waste. These properties have made electropolishing stainless steel services increasingly attractive to manufacturers seeking both performance benefits and more environmentally responsible finishing options.

Parts that undergo electropolishing exhibit improved resistance to pitting, crevice corrosion, and stress corrosion cracking, along with a brighter, more reflective surface appearance. Because the process removes surface-level contaminants that can otherwise harbor bacteria, electropolished stainless steel is widely specified for equipment used in medical, dental, pharmaceutical, food, beverage, and dairy production, where sanitation and cleanability are critical requirements.

FZE Manufacturing Solutions has served manufacturers across the agriculture, oil and gas, recreational marine, hydraulics, pneumatics, firearms, and firefighting and safety equipment industries for more than four decades. The company operates as a full-service machining and manufacturing partner, offering capabilities that include CNC machining, welding, metal fabrication, passivation, assembly and kitting, inspection, and now expanded electropolishing stainless steel services, allowing customers to source multiple finishing and fabrication needs from a single supplier.

"Customers come to us because they want a manufacturing partner who can handle their part from raw material to finished, ready-to-ship product," Pribyl said. "Growing our electropolishing capacity is part of that commitment. It means fewer vendors for our customers to manage and more consistency in the quality of the parts they receive."

The company holds ISO 9001:2015 certification and follows Lean manufacturing, Kaizen/5S, and Six Sigma Black Belt principles across its operations. FZE Manufacturing Solutions also offers design assistance, inventory management, just-in-time manufacturing support, and supply chain optimization services, along with expedited turnaround for customers with urgent project timelines.

The newly expanded electropolishing stainless steel services capacity is now available to both new and existing customers. FZE Manufacturing Solutions has indicated that the additional capacity will support current production volumes as well as anticipated growth in the medical, aerospace, and recreational marine sectors, where demand for corrosion-resistant, sanitary stainless steel components continues to rise.

Additional information about FZE Manufacturing Solutions' electropolishing stainless steel services and other capabilities is available at <https://fzemanufacturing.com/capabilities/stainless-steel-electropolishing-services/>.

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FZE Manufacturing Solutions is as a leading full-service machining, manufacturing, sub-assembly, and value-added service provider.

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