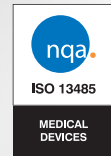




# Electropolishing

Advanced Metal Improvement Technologies



## THE WORLD'S LARGEST Electropolishing & Metal Finishing Specialist

As the largest Electropolishing specialist in the world, we believe our flexible support for nearly any alloy, our knowledgeable staff, and the ability to run one part or millions of parts sets us apart from the competition.

### WHO WE ARE

#### The Pioneers In Electropolishing & Metal Finishing

Since 1954, Able Electropolishing has been the leader in the Electropolishing and metal finishing industry, offering unmatched quality, performance, reliability and exceptional customer satisfaction.

Our state-of-the-art facility, the latest technology and the most sophisticated process control systems allow us to provide advanced metal finishing services to thousands of companies across the globe. We deliver satisfaction, reliability and results each and every time.

### SERVICES



ELECTROPOLISHING



LASER MARKING



PASSIVATION



BAKE-OUT



CONTRACT CLEANING



CUSTOM PACKAGING

### ABLE SUPPORTED ALLOYS

- 200-300 Series Stainless Steels
- 400 Series Stainless Steels
- Precipitating Hardening Grades
- Unusual Stainless Steels
- Copper Alloys
- Tool Steels
- Aluminum
- Titanium
- Nitinol
- Specialty Alloys
- Nickel Alloys
- Specialty Steels
- Carbon Steels
- And others

### DISCOVER THE DIFFERENCE

Able will work with you and your team to develop parameters for your prototypes that result in a great finish for your product. Send Us Your Part to Process for Free.



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# INTRODUCING ABLE'S FINISH FIRST METHODOLOGY

Able delivers the experience and speed that your business demands in order to bring products to market faster than your competition. From R&D Guidance, education, and prototype testing on production equipment, we create tailored solutions to your metal finishing needs that deliver results to your customers and improve your bottom line.

## 09 New Cycle

Our hope is that we have delighted our customers with the approach outlined which will lead to new metal finishing projects in the future.

## 01 Customer Metal Finishing Challenge Commences

Our OEM and contract manufacturer clients are constantly faced with the challenge of improving their product based on varying requirements. Our goal is to not only to provide electropolishing services to our clients but to provide valuable insight and perspective to our customers' projects.

## 08 Production

Able performs regular status calls as production ramps up to ensure the highest yield and consistency.

## 02 High Level Requirements Gathered

As your metal finishing partner, we want to invest early in the process to provide as much insight and perspective based on our experience to ultimately improve quality and reduce time to market. The outcome of this phase provides budgetary information, electropolishing benefits and defined next steps.

## 07 Pre-Production

Able's Performance Qualification varies the parameters to show the process is capable of achieving the desired result and finish in a consistent manner. The goal is to eliminate multiple finishing steps and to lower manufacturing costs by deburring, improving surface finish, corrosion resistance, ultra-cleaning and improving cycle life all in one step and at one location.

## 03 Able Educational Workshop

Able provides a "lunch and learn" format that provides education for engineers, management, project managers, R&D staff, and buyers on the electropolishing requirements and benefits. Please contact [sales@ableep.com](mailto:sales@ableep.com) to coordinate your Electropolishing lunch and learn.

## 06 Prototype Processing

Able works with our clients to establish processing parameters for each part which involves determining proper material removal/processing time and fixturing. In addition, we ensure shipping materials and process supports production requirements at scale which is often overlooked and contributes to damaged parts. Able has the ability to develop custom solutions in conjunction with our clients in order to maintain the integrity of each lot shipped.

## 05 Customer Requirements Defined

Able collaborates with our clients to document all drawing finish requirements, which includes special handling and special work instructions specific to each part.

## 04 R&D Guidance

Input into the metal finishing process during the R&D phase can help eliminate many problems once a product is developed and begins the metal finishing phase for the first time.

- Material and design for best metal finishing result
- Electropolishing parameter development
- Critical area review session(s) to minimize racking issues
- Optimized yield
- Testing format criteria
- Lot size review and frequency
- Forecasted schedule (if possible)

