

Birmingham Fastener

A Case Study

Brad Porter, Quality Manager at Birmingham Fastener, a leading manufacturer and distributor of fasteners based in Birmingham, Ala., has used Able to electropolish parts for nearly a decade. Specializing in parts for structural steel fabrication, transportation, water works and utilities, OEMs, and more, Birmingham uses electropolishing for finishing a variety of bolts, screws, and more.

"We used to use passivation, but it was just a dull finish that didn't look very good. I don't know who found Able for us to try the electropolishing route, but it's a night and day difference."

- Brad Porter, Birmingham's Quality Manager

Compared to passivation, which leaves parts with a dull finish, electropolishing creates the high shine that many clients value.

By removing a microscopically precise layer of surface material, electropolishing removes surface defects to leave parts with a superior finish that results in improved fit and function.

Porter's trust in Able's quality has allowed the company to skip the time-consuming and costly step of having electropolished parts shipped back to their headquarters for review. "We can always count on the quality to be there," said Porter. "We've started direct shipping to some of our customers from Able, without even seeing them."

Many of Birmingham's parts are made from forged materials such as 304 and 316 stainless steel, including rods, T-head bolts, oval-neck, and

square-neck track bolts ranging in sizes from 3/8" up to 4" in diameter.

Due to manufacturing techniques that combine forging and shot blasting, the metal fasteners can be left with discoloration and surface defects that impact durability and corrosion resistance. Electropolishing smooths the fasteners for improved corrosion resistance – a critical advantage for the company's water works customers.

Able works closely with the Birmingham team to deliver on client needs, sharing up-to-date details regarding shipping, production, timelines, and any issues that occur – something that Porter says is greatly appreciated by Birmingham's shipping manager.

"He really likes the automated processing emails that we receive," said Porter. "He said it was really great communication – probably the best of all of our vendors."



Image Courtesy of Birmingham Fastener

The Able Difference

As the world's largest electropolishing specialist, Able's processes have been honed over decades of collaboration with OEMs in industries with no room for error, like [aerospace](#), [medical device manufacturing](#) and the manufacture of critical metal parts for rescue harnesses.

With the ability to customize our processes for parts of every size and intricacy and proven processes of [quality control](#), innovation and customer service, we are the electropolishing provider of choice for some of the world's biggest and best-known companies.

As an electropolishing pioneer and industry leader, however, we are committed to providing more than high-quality metal finishing services. We work to provide our customers with solutions they can use to get their products to market with less time and effort.

That's the goal of our Trusted Supplier Network: Able clients share in a network of 2,750 reliable vendors, leveraging Able project management and metal finishing expertise for fewer obstacles and more opportunities.

That's the Able difference.

More at: <https://www.ableelectropolishing.com>