



# Custom Brush Design Eliminates Manual Deburring

## Engineering Precision, Increasing Performance

### Challenge

An aerospace manufacturer was struggling with a major bottleneck. Their in-machine brush could only reach part of a complex component, forcing operators to remove each piece and hand-deburr hard-to-access areas - wasting time, driving up labor costs, and risking inconsistent finishes.

They had already seen success with an Osborn brush in another department and decided to test it here. The finish met their standards - but the same limitation remained: the brush couldn't reach critical areas of the part.

### Solution

Osborn's engineering team quickly recognized that a standard brush couldn't meet the customer's needs. After an on-site review, our engineer designed a custom brush precisely matched to the part geometry and machine setup.

We provided samples for testing and stayed closely involved—refining the design, responding to feedback, and validating each improvement until performance was perfect. This collaborative, hands-on approach delivered a seamless solution without disrupting production.

### Result

The new custom brush delivered immediate, measurable results:

- Eliminated manual hand deburring, freeing operators for higher-value tasks
- Reduced rework and scrap, thanks to more consistent finishes
- Increased efficiency and throughput by completing the deburring process entirely in-machine

By solving what had long been a tedious and costly pain point, Osborn helped the customer strengthen both their process reliability and part quality.

### From Our Customer

“Osborn didn't just give us a brush—they gave us a solution. Their team worked side by side with us, refining the design until it performed exactly as we needed. We eliminated manual deburring and gained a faster, more consistent process.”

### About Osborn

For over 125 years, Osborn has been a leader in providing expert application solutions to customers worldwide. As the industry's foremost authority in surface treatment and finishing, we hold more patents for products and processes than all other brush companies combined.