

# CHOOSE A PARTNER THAT WILL HELP YOU SOAR

MANUFACTURING QUALIFIED  
STAMPED COMPONENTS  
FOR THE AEROSPACE  
INDUSTRY SINCE 1939



As the global aerospace industry grows, new challenges emerge. From production delays, manufacturing and materials shortages, to counterfeit parts, it often seems that obstacles are keeping pace with advancement.

At Boker's, Inc., we know that aerospace OEMs and their supply chain demand manufacturing partnerships with highest levels of precision, quality management and performance, with a strong understanding of unique industry requirements ranging from space/non-space qualifications to AMS specifications.

Here's what to look for when selecting a stamped components provider and how Boker's stacks up.

## Industry Experience

Experience cannot be emphasized enough. Boker's has been in business since the dawn of the aviation era and producing parts specifically into the aerospace industry since at least 1939. Today, Boker's continues to meet the evolving challenges of the industry as a best-in-class manufacturer of aerospace-grade fastening components including custom washers, shims, spacers, precision stampings and stamped components to OEMs and their tier of manufacturing providers, helping them efficiently solve their product engineering challenges quickly.

## Quality and Compliance Standards

The highest international measure of quality and safety in the aviation, space and defense industries is SAE Aerospace Quality Standard AS9100 rev D. Boker's Quality Management System holds this stringent designation along with ISO 9001:2015, and can comply with DFARS and RoHS, with the ability to manufacture to customer provided AN, NAS, MS and MIL spec standards.





Stampings and washers available in a complete range of sizes up to 12" x 12" (flat) with thickness ranging from .005" to .190" (varies by material) and draws up to 3" deep and 8" in diameter.

## Manufacturing Agility and Readiness

A highly-qualified provider should maintain the highest levels of production readiness, with state-of-the-art manufacturing facilities and capacity. Boker's meets these qualifications. Along with immediate access to over 2,000 commonly specified and hard-to-find materials, maintenance of over 32,000 stock tools that eliminate tooling charges, and customization options, Boker's facilitates millions of possibilities in non-standard flat washers, spacers, shims and complex stampings.

## Manufacturing Range and Tolerances

Capabilities and range must meet your specific manufacturing requirements, and not all providers are equal in this regard. Boker's focuses on precision custom washers in outside diameters ranging from .080" to 12", with material thickness as low as 0.005". Boker's custom stamping offering includes flat blanking and piercings in sizes up to 12" x 12", metal forming in thicknesses from .005" to .190" (varies by material) and draws up to 3" deep and 8" in diameter.

## Materials Availability

To meet varying performance requirements for extreme temperatures, corrosion resistance and high strength-to-weight ratios, a wide range of available materials are a must. Boker's metallic materials include low-carbon sheet steel, numerous super alloys, stainless steel, aluminum, brass, copper and nickel silver. Non-metallic materials

include ABS, acetal, polyester, nylon, MD nylon, polycarbonate, fiber, polyethylene and NEMA grade laminates. In all, over 2,000 stock material choices.

## Secondary Operations

Achieving the standards and tolerances you need starts with manufacturing and ends with secondary operations. Boker's employs advanced secondary and finishing operations including deburring, tapping, reaming, counterboring, spotfacing and metrology services, plus availability of heat treating, plating and non-destructive testing services.

## Custom Capabilities, Technologies, Supply Chain and QA

A principal consideration is the provider's custom manufacturing capabilities and their structure for performance. Boker's offers expedited custom design capabilities with multiple in-house technological advantages, including the tight tolerances of wire EDM-produced tooling, complete Statistical Process Control (SPC) and 3D rapid prototyping capabilities to validate designs.

Combined with industry-leading manufacturing capabilities and capacity, JIT and Dock-To-Stock inventory options, a dedicated quality assurance team, and the experience of over 100 years in operation, Boker's is among a select group of stamped components manufacturing partners that meets the stringent demands of the aerospace OEM and their supply chain.