Bristol Industries is a worldwide leader in the design and manufacture of aerospace self-locking nuts and gang channel for metallic and composite applications supporting the major OEM Engine and Airframe manufactures across the globe. Our products are manufactured to the exacting and rigorous standards specified by Commercial, Defense and Civil Airframe Manufacturers, as well as the Engine Manufacturers supporting these market segments.

We are proud of our 40 year history and 70 year legacy. Operating from an 180,000 sq. foot manufacturing facility (16,722 m²) and sitting on a 20 acre site (80,937 m²), in Brea, (Orange County), California, USA, we employ a highly skilled work force manufacturing self-locking nuts and gang channel from our single location.

Our manufacturing is dedicated to producing quality products within a framework of Continuous Improvement. Re-investing annually in capital equipment and technology is a hallmark of our dedication to continually increase our production performance and capacity.

With a full on site engineering staff, we are able to provide technical support to your design and manufacturing engineers in developing self-locking internally threaded fasteners to meet and exceed your requirements for performance and installation. We manufacture our products from a wide variety of all aerospace materials for our self-locking nuts, and are qualified to many of the commercial and military aerospace standards including AN, ASNA, B standards, BACN, DIN, EN, J standards, JSF, MS, NAS, NSA, ST3M, U755 standards, 3D and 3M.

Customer Service

As an industry leading manufacturer of self-locking aerospace nuts, Bristol Industries takes pride in our dedication to customer service. With our flexibility, honesty, and responsiveness to our valued customers' needs and requirements; you can count on Bristol Industries to deliver high quality products, competitive prices and on time deliveries.

Quality Commitment

Bristol Industries Quality Assurance System is ISO 9001:2008 and EN / JISO / AS 9100:2009 Rev "C" approved and has been audited in conformance with the requirements of AS 9104A for the Manufacture of Aerospace Fasteners. Bristol Industries is fully NADCAP approved for the following:

Continuous Improvement

Bristol Industries is committed to Continuous Improvement of our people, processes and procedures, to ensure we constantly remain at the leading edge of meeting and exceeding our customers and industry performance and compliance requirements.
Wrenchable Nuts

Bristol Industries manufactures a full line of Self Locking wrenchable nuts, from hex (6-point) double hex (12-point), and spline drive head styles in a variety of configurations including lightweight B-Prime shear nuts, self-aligning, captive washer, seal nuts, castellated, high strength / high fatigue, and barrel nuts. These products are available in Alloy Steel, Stainless Steel, A-286, Aluminum, Inconel, Titanium, and Multiphase materials, with a wide range of finish options including cadmium, zinc-nickel, dry film lube, silver plate, aluminum pigmented, and proprietary finishes and coatings.

Gang Channel

Gang Channels are used in both Airframe and Engine applications. Gang Channel are single-unit assemblies designed for applications that require multiple self-locking nuts. Rather than using individual anchor nuts along a structure, they enable rapid assembly and disassembly of structure sections. Bristol Industries manufactures gang channel in straight, radius, oval and race track versions, in a variety of width, length, radius, and nut spacing specified by the OEM or designer. Gang Channel assemblies are available in non-floating, floating, self-sealing domes, high-reuse, and deep-counter bored nuts, and are placed in various metal channels, and can be permanent or replaceable.

Barrel Nuts

Barrel Nuts are high strength, self-locking nuts designed for use with high strength bolts of tensile strength up to 240 KSI. Barrel Nuts are used in locations where wrenching space is not available for regular nuts, eliminating the need for threads in structure, making them suitable for tension joints such as round mounting holes of a forging or within structural joints such as the landing gear to fuselage, engine nacelles and engine pods to wings. Manufactured in high strength alloys, barrel nuts are available in non-floating (fixed) and floating configurations, with the self-locking feature either deformed upper threads (crimp), or have a nylon or Vespel® locking insert.

Shank Nuts

Shank Nuts are designed to endure very high stress and extreme temperature. Made primarily from A286 CRES and high nickel Waspaloy material, they are primarily used in higher heat areas on aircraft engines. The design of the shank nuts provides three desirable features: self-locking, self-retaining, and self-wrenching. Shank Nuts are manufactured in different configurations such as D-shape, trapezoidal shape, bent tab, and slab sided configurations to OEM standards and specifications.

Anchor Nuts

Anchor Nuts or nut plates, as they are also called, are self-locking nuts providing permanent attachment for threaded fasteners in inaccessible or blind locations and assure positive positioning of the mating bolt. Each nut contains one or more mounting lugs projecting from the base of the threaded body. These mounting lugs may be riveted, screwed, or welded to the structure. Bristol Industries manufactures many different styles of anchor nuts available in non-floating (fixed) or floating configurations, replaceable nut elements (with clips) or non replaceable configurations and available in a domed seal configuration with a rubber seal on the base (basket) for use in wet (fuel) areas. Anchor Nuts are also available in high re-use designs up to 50 installation cycles.