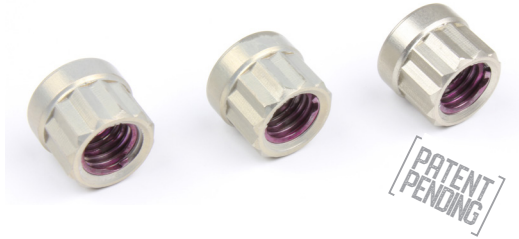


ALUMINUM RHINO NUTS

high-strength nuts and locknuts



Our high-strength Aluminum Nuts are engineered for maximum strength. Ideal for Commercial and Aerospace applications, these Aluminum Nuts deliver reliable performance while far exceeding strength requirements.

Plus, with multiple patents pending, this design demonstrates significant advantages of torque and torque consistency when supplied as locknuts with our locking inserts.

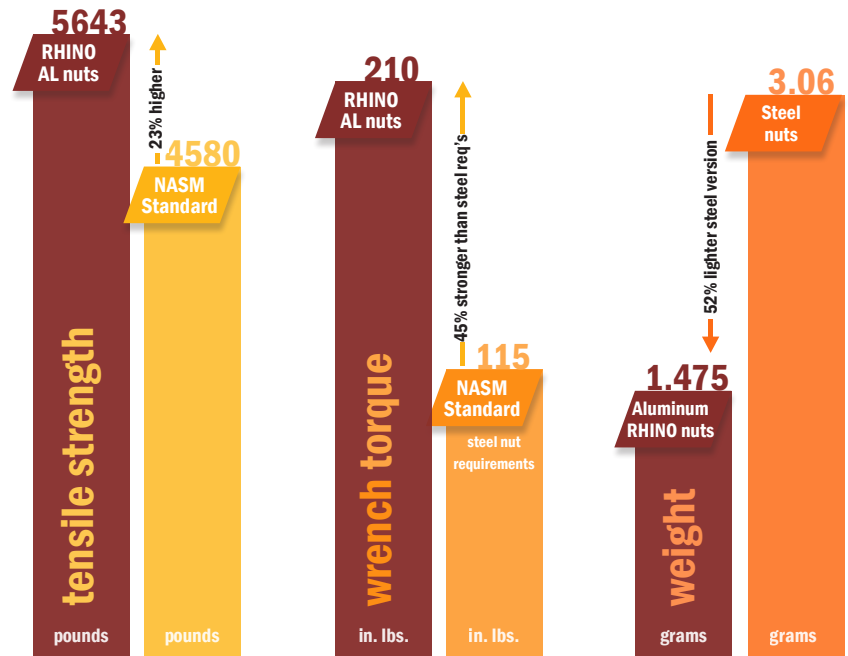
RHINO Aluminum Locknuts are the first high performance LOCKING aluminum nuts ever available outside using nylon rings or patches (which don't pass 15-cycle torque tests as well).

Historically, soft Aluminum does not make for a good crimped locknut. RHINO Aluminium Locknuts don't have that problem because our locking torque comes from the locking flats on the stainless steel inserts themselves.

Tensile strength **23%** greater than steel NASM25027 requirements

Nearly **double** the wrench torque required by NASM25027 standards for steel

Less than half the weight of steel alternatives



Data shown above reflects strength testing on RHINO 1/4 inch hex nuts conducted by a third-party laboratory. Comparisons are made to NASM25027 Aerospace standards for aluminum and alloy steel fasteners.

Key Features	<ul style="list-style-type: none"> Easily Passes 30,000 cycle vibration test per NASM1312-7 Exceeds Wrench Torque requirements for 1/4" AL nuts (92 in-lbs.) & also Steel Nuts (115 in-lbs.). Easily passes 15-cycle torque tests per NASM 25027 & exceeds 50 cycles Passes 800°F Soak Torque Test for Locknuts Can be used in High Temperature applications Average Tensile Strength was 5,643 lbs. (156.7KSI) Tensile Strength Exceeds the Axial Tensile Requirement of Alloy Steel by 23% (per NASM 25027 Table 1). Weight is less than half the weight of comparably-sized steel nuts (1.48 grams vs. 3.06 grams) 220KSI Stainless Steel inserts (or Nimonic 90 in case galling is a concern) eliminate corrosion factors. Generally eliminates need for dry film lubrication, silver plating and cad plating Lock-Torque variation between lots is minimal. 	
Material options	<ul style="list-style-type: none"> 6061 Alum, 2024 Alum, 7075 Alum PEEK and PEI 4340 Inconel 718 CRES options: 17-4PH, A286, 300 Series S/S and 400 Series S/S 	
Possible Part configurations	<ul style="list-style-type: none"> Hex and 12-point configurations Unified Coarse (UNC) & Fine (UNF) Threads Metric Threads 	
Size options	Currently available in 1/4" up to 1 1/2". UNF Class 3B and Metric	
Installation	No special tooling required.	
Applications	<ul style="list-style-type: none"> Aerospace Automotive Commercial 	<ul style="list-style-type: none"> Construction Off Highway Buildings

Call today: **740.816.9830**

Sky Climber Fasteners, LLC
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lighter



engineering EXCELLENCE

At Sky Climber Fasteners, we believe excellence is a never-ending pursuit driven by a culture of continuous improvement.

Our next generation of fasteners is designed to exceed the rigorous demands of mission- and safety-critical applications. As a result, these advanced products are perfectly suited for any high-performance application where weight, strength, durability and quality must be tightly controlled.

Innovative design-to-solution provider

Fastener experts with 75+ years of experience

Responsive, cost-effective and on-time

stronger



We provide custom and unique products individually designed to meet the specific needs of our customers. We are driven to lead and ensure that our products are engineered in excellence while designing products that solve our customers' fastener issues. Products include:

- Barrel Nuts
- High Strength Locknuts
- Hybrid Locknuts
- Isolator Mounts
- Mantis Precision Torque Locknut
- LockOne Bullet Locknut
- A Variety of New, Custom Fastening Solutions and Systems

next generation



With 19 patents filed in the last two years alone, Sky Climber Fasteners is pushing the boundaries of the fasteners industry. These products will improve installation times and increase safety factors on your aerospace, commercial and automotive projects.

As part of the Sky Climber family of companies, Sky Climber Fasteners delivers the same level of quality services that the world has come to expect from companies bearing the Sky Climber name. AS9100 Revision D, EN 9100:2009, JISQ 9100:2009 and ISO 9001:2008 registered.

aerospace | motorsport | commercial | automotive

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