

# Huck 360®

The engineered nut-and-bolt fastening system from the leader in vibration-resistant fastening, Huck.

The goal was simple: to design a high-strength bolting system that resists vibration loosening, no matter how extreme the environment. This system should offer quick installation and removal with conventional tools, deliver superior fatigue strength, and hold tight under high spike loads.

The result is the Huck 360®, the most advanced nut-and-bolt fastening system you'll find on the market today. Easy-to-install, the Huck 360 is engineered to be virtually maintenance-free and resistant to vibration, even under extreme conditions.

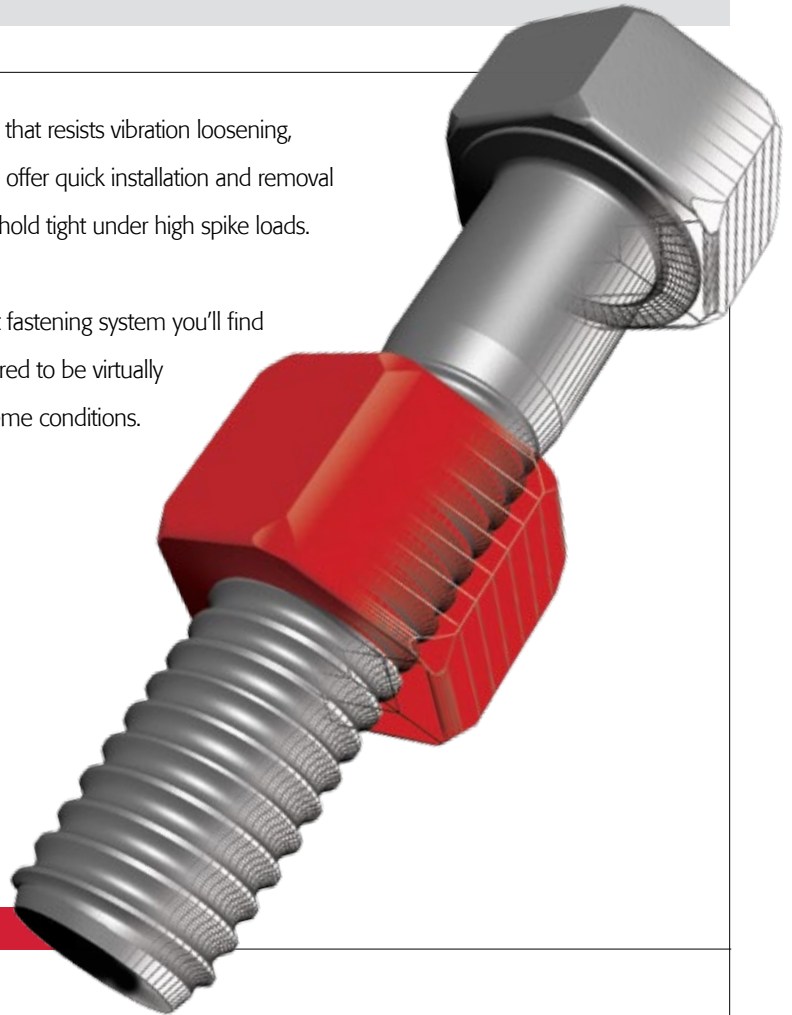
**Available Sizes:**

3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-3/8"  
10mm, 12mm, 16mm, 20mm, and 36mm

**Materials:**

Steel

Contact Alcoa Fastening Systems & Rings for availability.

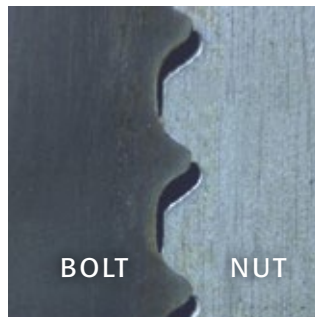


## The Difference is in the Design



Huck 360® stays tight under severe vibration loading by eliminating the "gap" around the crest of the bolt. When tightened, the Huck 360 fills this gap, which prevents transverse motion between the 360 nut and bolt, keeping the assembly in place.

**Huck 360®**



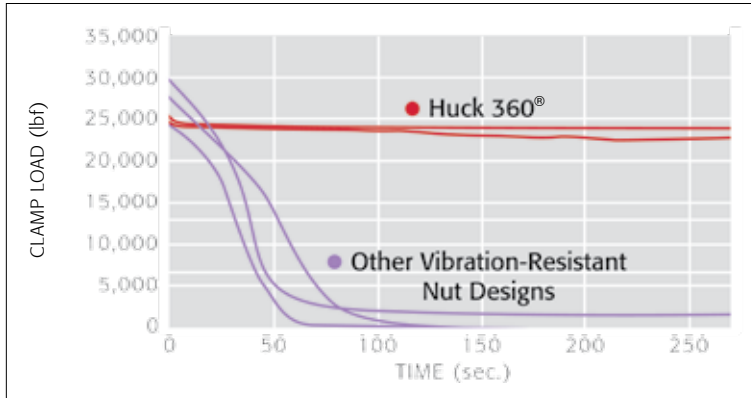
Thread flanks are locked.  
Nut cannot move relative to bolt.

**Conventional thread**



Thread flanks can slide.  
Nut can move relative to bolt.

## Transverse Vibration Comparison



This chart shows that once vibration begins, clamp load quickly decays with conventional nuts and bolts, while it holds constant with Huck 360®.

## Increased Life

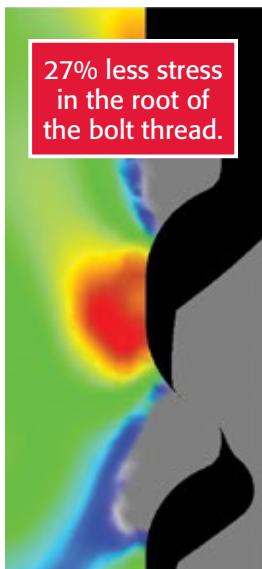
Because the Huck 360® was designed with shallow, low-notch factor bolt threads (the grooves aren't rolled as deep as a conventional bolt), the effective area of the fastener itself is widened by as much as 20%, increasing tensile and fatigue strength. In fact, the Huck 360 thread delivers 5 times the fatigue life of a standard thread bolt.



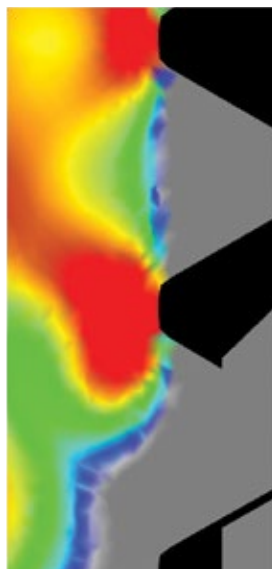
### Improved Fatigue Performance

Finite Element Analysis (FEA) reveals that the shallow thread form of the Huck 360® results in 27% less axial stress in the root than conventional bolt threads. Stress concentration is the primary contributing factor leading to fatigue failures.

Huck 360®



Conventional thread



### Reduce Maintenance, Save Time

The Huck 360® installs faster and more easily than the nuts and bolts you're accustomed to using, and maintenance intervals can be extended. The Huck 360's superior fatigue strength has proven to increase equipment uptime and productivity.

### Huck 360® Benefits

- Resists vibration loosening.
- Withstands high spike loads.
- Increases equipment uptime.
- Installs 300% faster than conventional locknuts.
- Can be installed and removed with conventional tools.