

# NORM FASTENERS



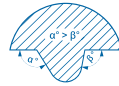
## SteadyBolt® Optimized Rib Geometry for Superior Anti-Vibration Performance

**SteadyBolt®** is engineered to resist loosening under vibration by means of an optimized under-head rib geometry. Designed for dynamic conditions, **SteadyBolt®** controls even micro movements that occur after tightening, ensuring that initial preload is maintained. **SteadyBolt®** provides a safer and longer-lasting connection under vibration conditions without the need for any washer or additional locking element.



### Optimized Rib Geometry

The optimized under-head rib geometry converts tightening torque into a strong mechanical interlock, preventing self-loosening.



### Directional Locking

Directional rib angles create a self-reinforcing locking effect under vibration.



### Improved Load Distribution

Larger rib contact area improves load distribution while minimizing surface damage.



### Transverse Slip Resistance

Enhanced slip and micro-slip resistance versus competing products.



### More Efficiency, Less Torque

Achieves the same clamping force with lower tightening torque than competing products, ensuring mechanical interlocking with the mounting surface.



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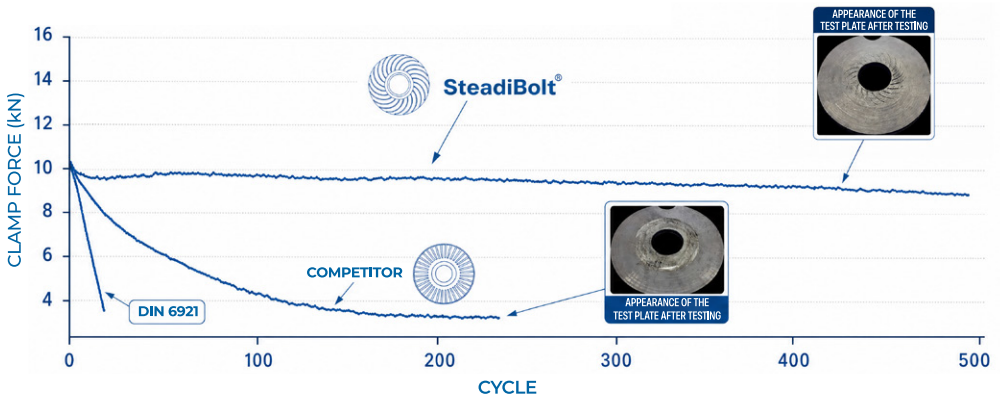
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## Comparative Junker Tests



**TESTED BOLT TYPE:** M8x1.25x30 FT FK100 ZNCR<sup>33</sup> T&TII

**CLAMP LENGTH:** 13.8 MM

**INITIAL CLAMP FORCE:** 10.2 kN

$\mu_{tot}$ : 0.125

**HARDNESS OF PLATE:** 250 Hv10 - STEEL

**TRANSVERSE DISPLACEMENT:** 0.8 MM

**JUNKER TEST DEVICE:** VIBRATIONMASTER J160 FASTENER TEST BENCH



### Superior Resistance to Vibration Induced Loosening:

Minimal transverse slip is observed under identical test conditions, resulting in both improved clamp force stability and reduced damage on the test plate.

### Significantly Higher Preload Retention:

**SteadiBolt** maintains a nearly constant clamp force throughout the test, while DIN 6921 and competing fasteners exhibit rapid preload loss within the first vibration cycles.

### Proven Performance in Junker Vibration Testing:

Compared to DIN 6921 and competing fasteners, **SteadiBolt** demonstrates superior joint integrity and visibly less surface damage after testing.

