

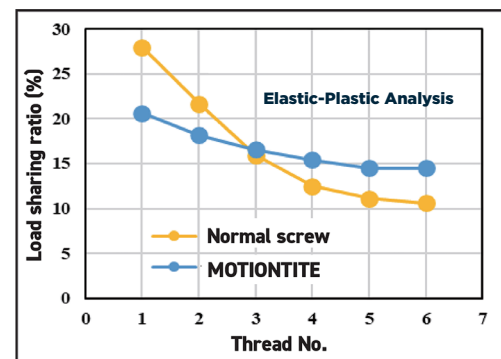


High Performance Anti-Loosening Bolt

MOTIONTITE®

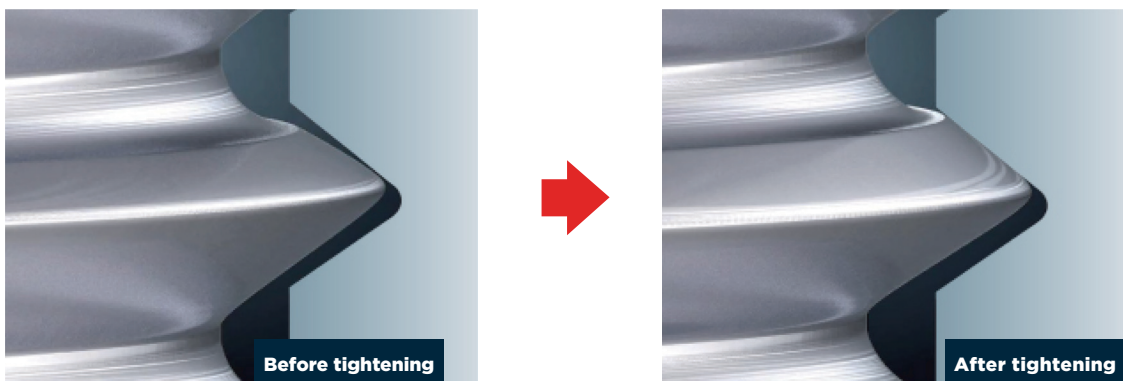
Screw realizing reduction in weight and cost

- Achieve powerful anti-loosening performance by applying normal tightening
- Accomplish downsizing with enhanced axial force and increased fatigue strength
- Dramatically cut costs through a streamlined design without the need for additional loosening prevention measures



AVERAGED LOAD SHARING RATIO OF THREADS

Elastic Structure for Absorbing Vibration and Shock



1. Contact with internal screw occurs gradually from thread top of external screw.
2. Axis is raised toward seat surface side (upward) as tightening torque is applied.
3. External screw and internal screw contact each other at flat surfaces.
4. Repulsive forces act on seat surface and thread surfaces, thereby generating high anti-loosening force.

High Performance
Anti-Loosening Bolt

MOTIONTITE®

Motiontite: the future of secure fastening technology. Engineered for precision and durability, Motiontite is setting new standards in bolt innovation. Here's why it stands out:

1. **Strong anti-loosening force tolerating Junker Vibration test**
2. **Axial force rated one notch above, enabling reduction in weight and cost**
3. **1.2 times higher fatigue strength (which may vary depending on strength class / material)**
4. **Seizure prevention (even stainless screw does not cause seizure)**
5. **Halved variation of axial force (there is no difference when lubricant is applied)**
6. **Prevention of breaking off of screw head, prevention of slanted ingress, solution for uneven contact**
7. **Prevention of lowering of axial force due to elastic mutual action**
8. **No contamination and high resistance against high temperature (as large differences from adhesive)**
9. **No damage to seat surface and internal screw by equalizing load share ratio**
10. **Same operability as normal screw (with smoother ingress)**



Bilaterally asymmetric design of thread shape exerting high performances

- **Further, as another big feature of MOTIONTIE, its elastic structure permits defects of internal screw (for example, defective accuracy of squareness or occurrence of burr) to some extent.**
- **Mechanical property of screw complies with ISO and retains high quality.**
- **"MOTIONTITE HARD TYPE" with improved anti-loosening force is also available.**



KEBA
FASTENINGS