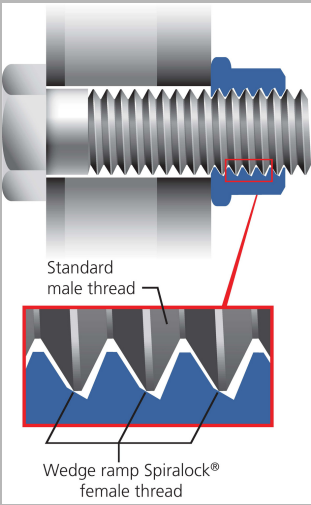


Spirallock®



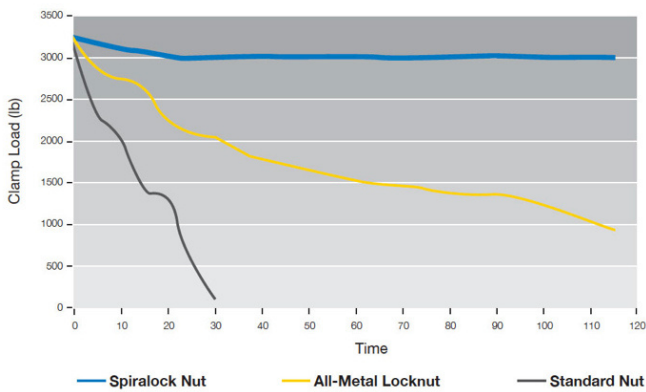
The Edge is the Wedge™

Spirallock® is one of three Optia® anti-vibration technologies. By adding a 30° wedge ramp at the root of the internal thread, Spirallock® has engineered a simple yet effective way to transform a traditional threaded joint into a safer and more reliable element. This remarkable design provides exceptional resistance to vibration loosening, improved joint integrity and consistent, repeated reusability while eliminating the need for secondary locking devices.

Extensive testing on Junker's transverse vibration equipment has proven that the Spirallock® internal-locking thread form outperforms other thread-locking devices. In fact unlike other locking devices, which lose preload within the first minute of testing Spirallock® joints remain tight until the bolts fail due to fatigue.

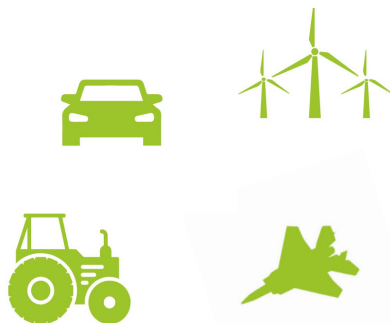
Goddard Space Flight Center also determined that the Spirallock® thread form was the only product able to withstand the vibrations imposed by the Space Shuttle's solid rocket boosters. Even tests that exceeded specifications for the Space Shuttle by a factor of 10x did not cause Spirallock® fasteners to loosen.

Vibration Loosening Resistance



Test Parameters: 1/4"-28 nut run @ 20 Hz with ±0.033" amplitude of transverse movement.

Spirallock® Applications



- Wind turbines / wind towers
- Armor Kits for defence
- Chassis Assemblies
- Frame Connections
- Suspension Components
- Transmission, Axle and Differential Housing
- Bumper Attachments
- Ring Gears
- Shock Absorber Mounts
- Gearbox Mounting
- Brake Systems
- Hydraulic Pump Attachments
- EV Battery Terminals

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