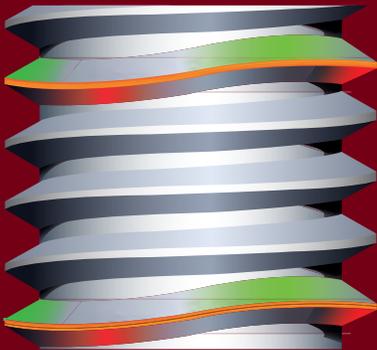


SHAKEPROOF™ THREAD

An innovative anti-loosening thread interference fastener design that is outperforming the industry standards.



The curved profile of the locking thread fills the standard thread tolerance clearance

PROBLEM

“Fasteners loosen due to standard tolerance clearance”

SOLUTION

Shakeproof™ Thread

- 1 Eliminates the tolerance clearance between the threads of a fastener and nut
- 2 Is a gaugeable mechanical interference
- 3 Requires a mating engagement of only four pitches deep

The Shakeproof Thread design integrates a curved thread feature which creates a mechanical interference with the mating internal threads to ensure the fastener simply stays tight.

SHAKEPROOF™ THREAD BENEFITS

ANTI-VIBRATION

The curved wave features create a vibration-proof joint with as few as four engaged pitches. These curved features are not effected by vibration, lubricants, and temperature. The fastener **WILL NOT LOOSEN**, even without clamp load.

ENGINEERED

Designed and manufactured to be gaugeable and consistent; resulting in over a 50% reduction in tension variation.

SERVICEABILITY

Removable, reusable and compatible with standard hardware and tapped holes.

COST-SAVINGS

Eliminates the need to use costly secondary additive technologies.

ENVIRONMENTAL

No secondary chemical patches or plastic add-ons. ROHS compliant and recyclable.



CURVED FEATURES



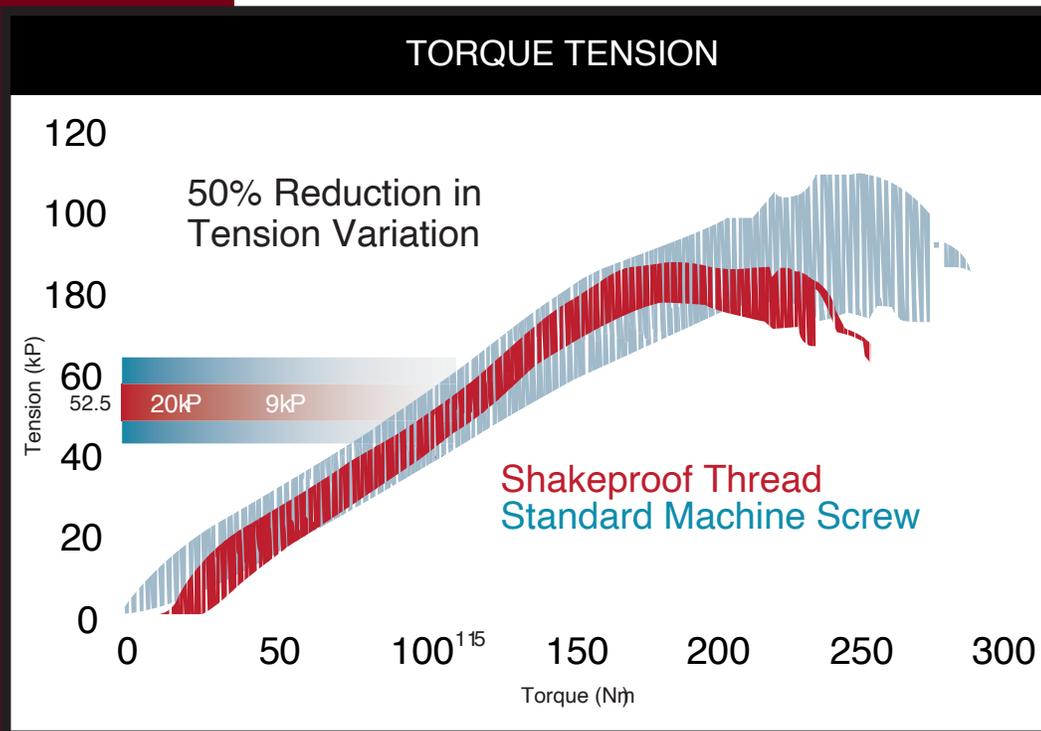
WERCS is a trademark of WERCS™ Tooling, a division of Illinois Tool Works Inc.® ITW WERCS™ Tooling Technology has revolutionized the design and manufacturing of threaded products. This technology allows for the formation of unique geometries on the thread.

SHAKEPROOF™ THREAD

The most CONSISTENT and REPEATABLE Locking Fastener

	Shakeproof Thread™	Mechanical Crimp Nut	Nylon Insert Nut	Nylon Patch	Root Interference	Adhesive Patch
Minimum 5X Reusability	Excellent	Marginal	Marginal	Unacceptable	Marginal	Unacceptable
High Temperature Joint Stability	Excellent	Excellent	Unacceptable	Unacceptable	Excellent	Unacceptable
Non-Thread Galling	Excellent	Marginal	Excellent	Excellent	Unacceptable	Excellent
Coating Independence	Excellent	Excellent	Excellent	Acceptable	Excellent	Acceptable
Blind Hole Compatibility	Excellent	Unacceptable	Unacceptable	Acceptable	Acceptable	Excellent
Usable with Standard Mating Thread Tolerances	Excellent	Excellent	Excellent	Excellent	Unacceptable	Excellent

Excellent Acceptable Marginal Unacceptable



Inch Series	Metric Series
#6-32	M4 x 0.7
#8-32	M5 x 0.8
#10-32	M6 x 1.0
1/4-20	M8 x 1.25
5/16-18	M10 x 1.5
3/8-16	M12 x 1.75
7/16-14	M14 x 2.0
1/2-13	M16 x 2.0

Available in any head style

Standard sizes listed above; other sizes available upon request

Select sample diameters and lengths are available

Please contact the Shakeproof Group for all your design, pricing and delivery questions.
815.654.1510 info@shakeproofgroup.com www.shakeproofgroup.com