



SEG NUTTM

The Faster Fastener

Application User Guide

FAST RELEASE • SAFETY BENEFITS • TIME AND COST SAVINGS



Replacement of wear plates on Ground excavation tools (G.E.T)



Replacement of liners on conveyor chutes



Mill drum liner maintenance & repairs



Pipeline Flanges

Marine Environments • Structural Steel Connections • Many More

No More Gas Axing

No More Seized Nuts!

- ☑ Guaranteed fast nut release
- ☑ Interchangeable with standard nuts
- ☑ Fully Structural
- ☑ Range of sizes



FACTORS THAT STOP NUT REMOVAL

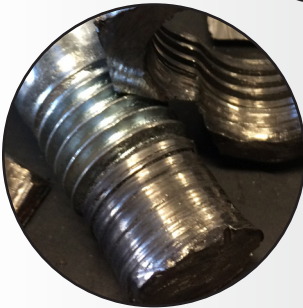
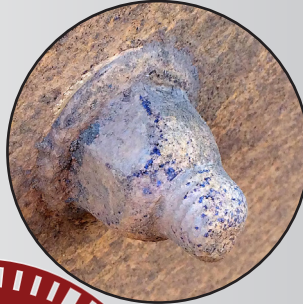
GALLING / STRIPPING

Galling is a type of wear that causes adhesion between sliding surfaces. It increases the torque required to remove the nut and often causes thread stripping.



DEBRIS / RUST

Small particles in the thread and rust will increase friction and prevent the nut from being loosened.



FREE SPINNING BOLTS

Removing nuts from non-captive bolts requires access and tooling for both the bolt head and nut. Segnuts can be fully removed from only the nut side.



DAMAGED THREADS

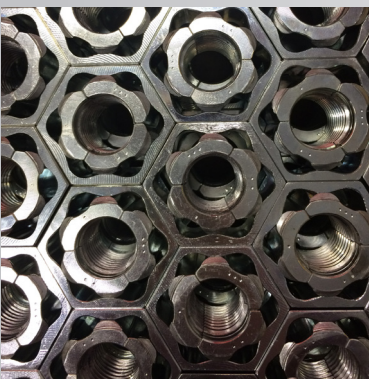
Abrasion and impacts to exposed bolt/stud threads cause deformations that destroy the thread profile, preventing the nut from being loosened back over those damaged threads.



Segnuts solve all of these problems: saving time, reducing cost and improving safety.



SEG NUT™ provides a fast release system for threaded fastener joints where safety and time savings are critical.



SEG NUT provides full structural properties of standard nuts, and can be used as replacements in normal applications. SEG NUTS can be loosened either by rotating the inner segments as a standard nut, or can be fast-released by rotating the outer sleeve in the clockwise - or tightening - direction.

The SEG NUT works because it **NEVER HAS TO TURN BACK OVER THE THREAD TO RELEASE**- this means that it can release regardless of any thread damage or corrosion which would seize a normal nut.

FEATURES

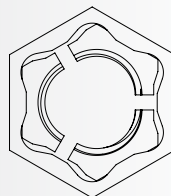
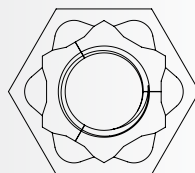
- Installs on standard bolts and studs
- Full structural properties of standard nuts
- Complies with ISO 898 and other relevant international standards
- Ability to be re-adjusted and re-tightened
- Assembled and removed with standard tools
- Available in metric and imperial sizes ranging from M16 up to M48.

BENEFITS

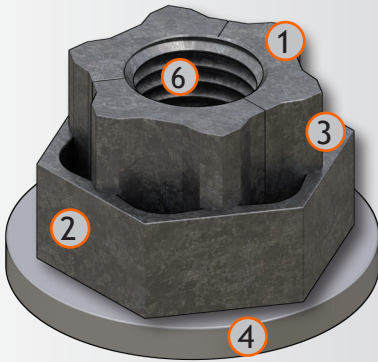
- 90% Faster removal times
- Reduced risk associated with nut removal.
- One side disassembly
- Increased re-usability of bolts and studs

APPLICATIONS

- Ground engaging tools (GET)
- Wear plates
- Conveyor liners
- Pipeline flanges
- Mining equipment
- Steel structures
- Marine and sub-sea
- Automotive
- Many more!



KEY FEATURES



① SEGMENTED INNER NUT (INNER NUT)

The 3 segments enable the nut to release away from the bolt/stud threads. The segnut can be both tightened and loosened from the inner nut.

② OUTER SLEEVE (RELEASE SLEEVE)

Holds the three segments together such that a bolt clamp force can be generated. The sleeve's profile has clearance to allow segments to move away from bolt/stud when it's rotated relative to the inner nut.

③ INNER NUT CORNERS

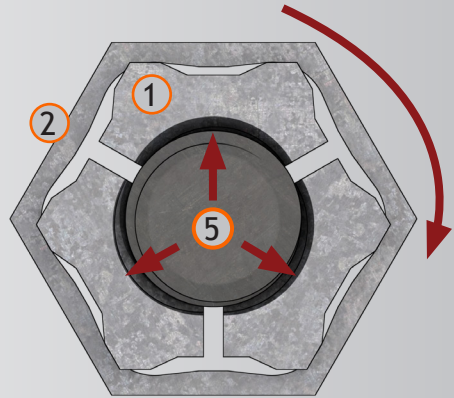
Prevent sleeve from moving upward and provide flats for a standard hex wrench/socket.

④ HARDENED WASHER

⑤ DILATION FORCE is generated as the bolt is tightened. This dilation force is resisted by the outer sleeve, holding the inner segments in place until it's turned and the segments are free to release away from the bolt.

⑥ EXTENDED THREAD LENGTH

End of standard bolt and stud threads can sit up to two full threads below end of nut, meaning they're protected from debris and corrosion - and may be re-used where regulations permit.



SAFETY



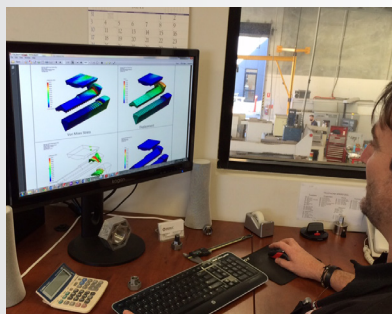
SEGNUTS allow for guaranteed removal using conventional tools. This **alleviates the need for oxy-cutting** or the use of any other heavy or dangerous equipment.

In addition to a significant reduction of on-site risk, the removal of SEGNUTS allow for concurrent maintenance applications, without the need for exclusions zones or hot works permits. Each size of Segnut can be removed unsupervised by a single operator with conventional bolting skills.

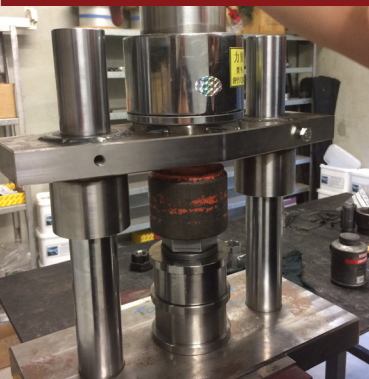
DESIGN AND TESTING

Segnuts are designed to conform with current bolting standards. Mechanical and material specifications are selected with advice of industry-leading professionals in order to meet or exceed the performance of conventional fasteners.

Extensive quality control and traceability procedures are followed to ensure every Segnut will consistently outperform all other fastener systems.



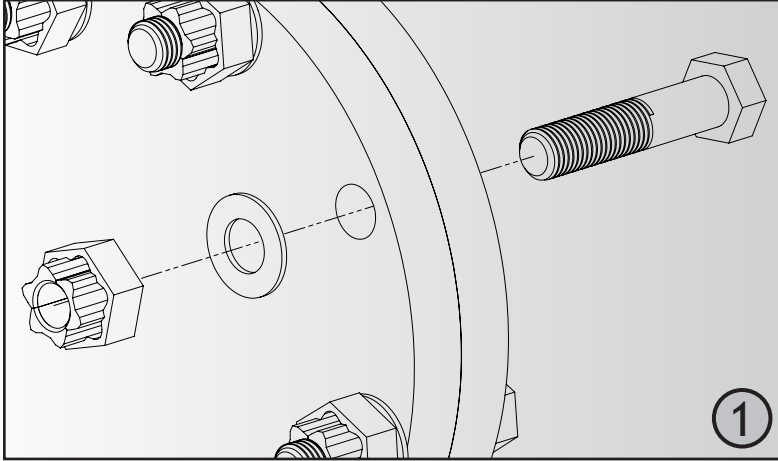
LABORATORY TESTING



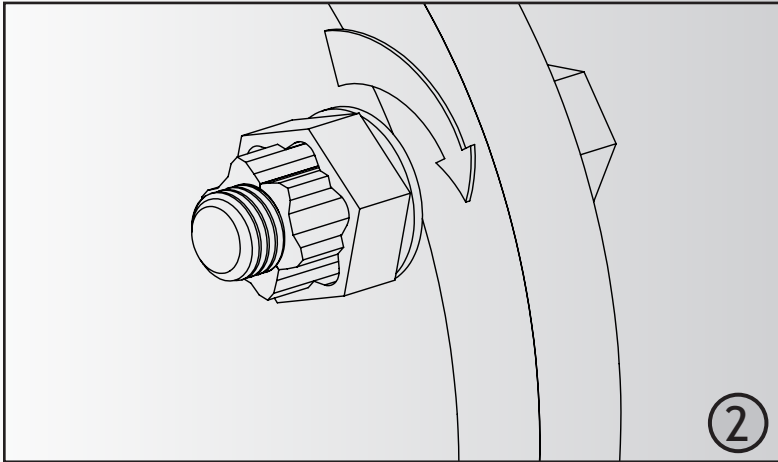
FIELD TESTING



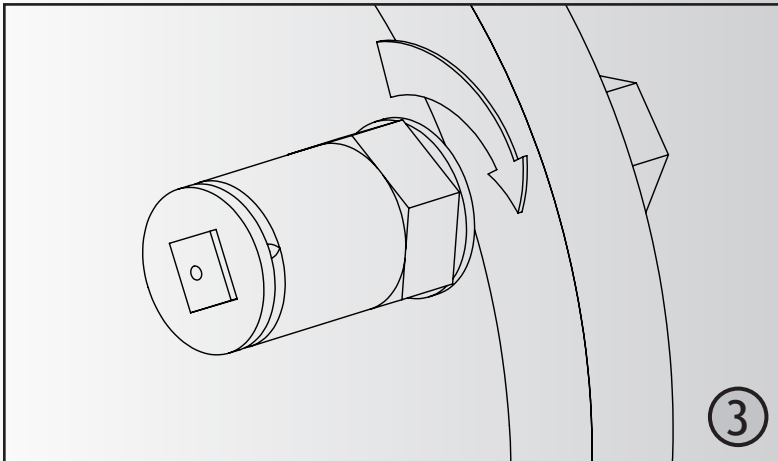
ASSEMBLY



ASSEMBLE
JOINT
COMPONENTS

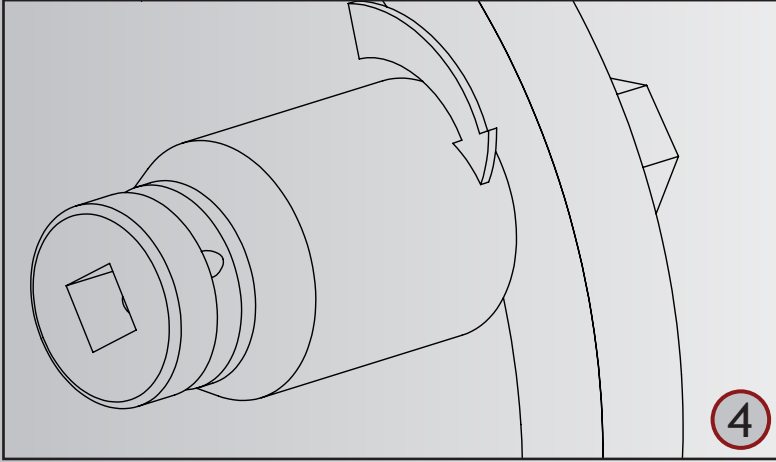


SPIN SEGNUT
DOWN
THREAD

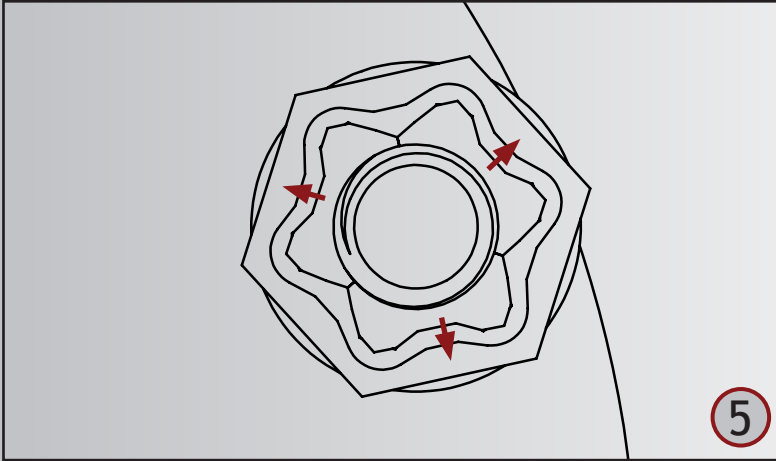


TIGHTEN
INNER NUT

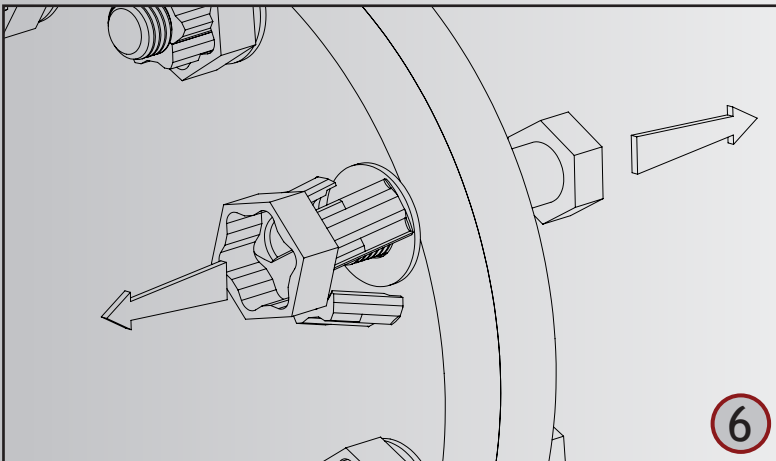
REMOVAL



ROTATE
OUTER SLEEVE



SEGMENTS
RELEASE AWAY
FROM THREAD



REMOVE SLEEVE
THEN BOLT

Exclusive Australia/New Zealand
Distributor:



Konnect Fastening Systems AU

1300 Konnect (566 632)

235 Settlement Road, Thomastown, Victoria, 3074

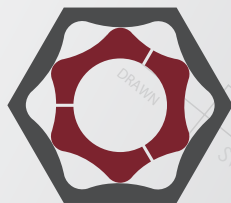
www.konnectfasteningsystems.com.au

Konnect Fastening Systems NZ

0508 Konnect (566 632)

11 Bruce Roderick Drive, East Tamaki, Auckland, 2013

www.konnectfasteningsystems.co.nz



SEGNUT™
The Faster Fastener

For more information, check the website at <https://segnut.com/>

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