TukLoc®

BLIND FASTENING SYSTEM

PROCESS BENEFITS:

- Easy hole preparation
- Elliptical countersink
- No stringent surface cleaning required
- Consistent and repeatable process
- Simple and easy-to-use one-sided operation
- Self-sealing; no additional sealants required
- Rapid installation
- Easily automated

Radially expanded barrel provides interference-fit benefits in both composite and metal structure

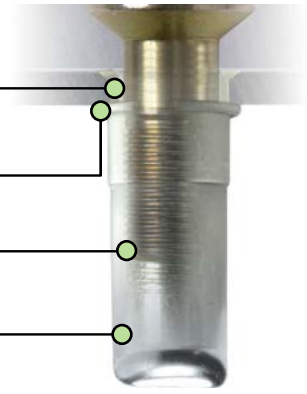
FTI®
FATIGUE TECHNOLOGY

TUKLOC BLIND FASTENERS

TukLoc®

TukLoc combines Fatigue Technology's ForceMate® bushing and ForceTec® nut plate technologies into an advanced blind fastening system with the advantages of a high interference fit through our cold expansion technology.

TukLoc is installed in the structure by radially expanding the fastener into the hole. This process can be easily used in a number of blind fastening areas and is an excellent replacement for elliptical press nuts and RivNuts. TukLoc's blind fastening system provides consistent and repeatable results and can be easily automated.



The mechanical expansion provides a secure, permanent sealing in applications where sealing is required. Unlike competitive products, the nut is installed without the need for machining complex elliptical countersinks or the need for special surface preparation.

APPLICATIONS

TukLoc fasteners can be used in almost any aerospace material in which a "blind," one-sided situation exists and potential fatigue enhancing opportunities are present.

TukLoc installed in wing skin

INSTALLATION

Thread the TukLoc nut onto the threaded rod and insert the nut into the starting hole

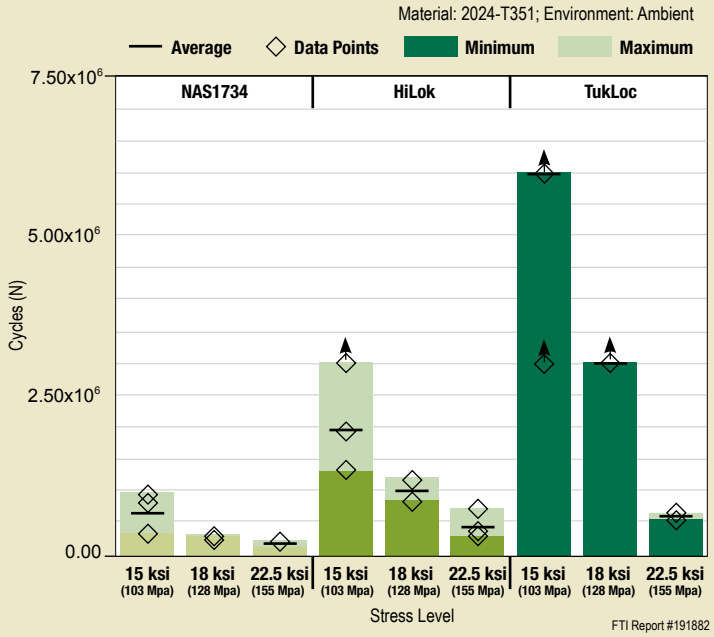
Seat the nut firmly against the starting hole countersink

Activate the puller to insert the expansion mandrel and simultaneously collapse the backside of the nut to form the flange

Reverse the process to remove the puller from the nut

LOW LOAD TRANSFER FATIGUE TEST RESULTS

Nominal TukLoc nuts perform better in fatigue than standard clearance-fit fasteners or holes with installed NAS1734 Elliptical Nuts.



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