NITTOSEIKO

NITTOSEIKO' S NEW CONCEPTUAL SELF LOCKING SCREW

FIT-TITE

Outline of FIT-TITE

Innovative screw for loose proof

- Trirobular screw body.
- 30˚of thread angle.
- Both of crest and root of thread contact to female thread.

FIT-TITE is the best solution for people who is,

- worrying about loosening of machine screw.
- thinking cost saving of glued screw.
- having trouble about workability due to unstable torque by unstable female thread dimensions.

This time, we have devised innovative screws that have high removal torque, and are convenient even if female thread is unstable dimension.

Condition of engagement

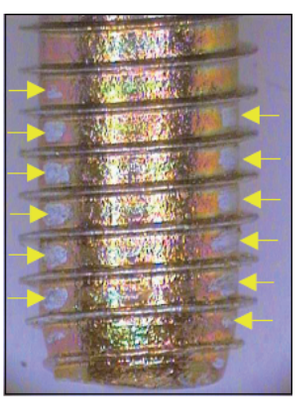

Figure A : Photo after extraction from female thread

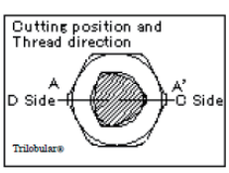

Figure B : Cross-section of external thread and female thread engagement.

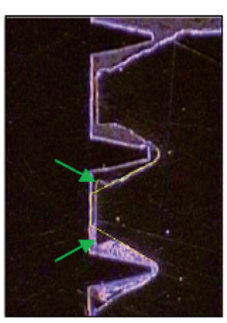

Figure C : A-A' crosssection view (C side)

Special features

- High-reliable loose proof due to multi-contact spots.
- Very convenient screw if female thread is unstable dimension because it is given importance to contact with root of thread.
- High removal torque and also it can be used for adjusting screw.

Yellow arrows of figure A are spots that plating is shaved, and it is showing that there are three contact spots with female thread on root area of C side. (Only two contact points are on the photo.)
And green arrow of figure C shows contact area with internal diameter of female thread is broadened out due to fastening by FIT-TITE.
Because of such big and many to contacts, FIT-TITE generates proper prevailing torque. It' s this kind of fastening that you can use for adjusting screw.

Application

- Mobile device
- Camera & watch
- OA equipment
- Power tool
- Air-conditioner

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MK-F-1-E_FT

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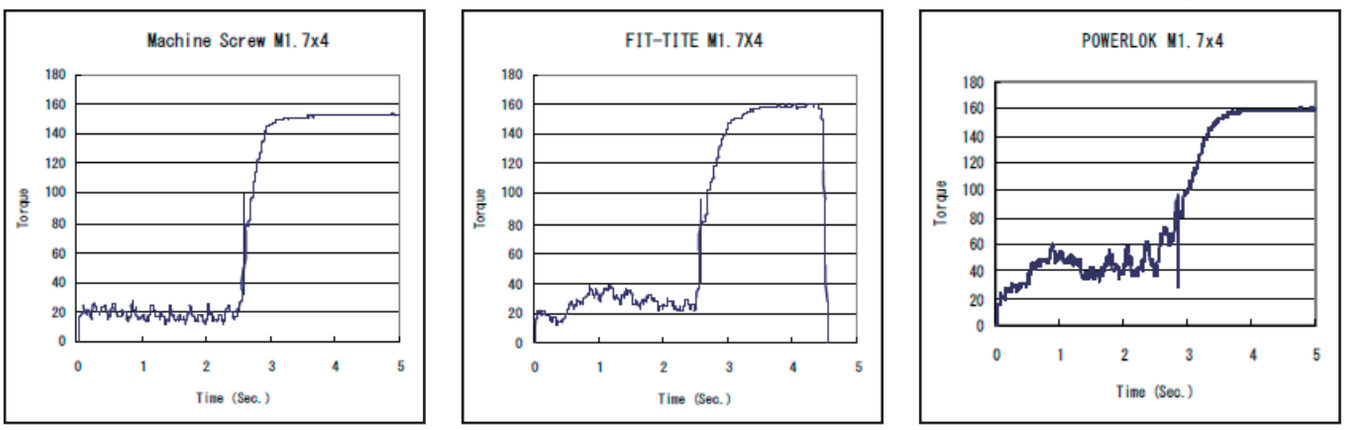
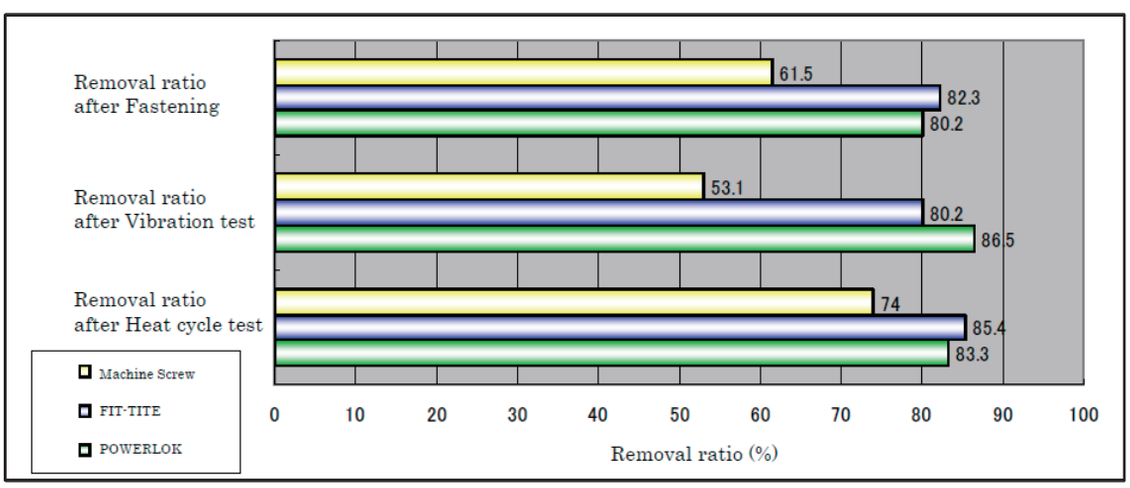
Performance of FIT-TITE (Typical torque waveform)

● Test condition
1. Testing Machine : AX Driver (Manufactured by Nittoseiko)
1-step Fastening =0.10N・m, 200rpm 2-step Fastening =0.16N・m, 60rpm
2. Work piece : Commercial steel nut M1.7 / Liner : Steel Plate t=0.6mm

(Unit : mN・m)



Comparison of removal ratio (FIT-TITE・POWERLOK®・MACHINE SCREW)



If you are interested in to use our FIT-TITE for your concrete application, please send actual work pieces to our fastener laboratory. We can provide you more detailed data for your best fastening by examination.

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