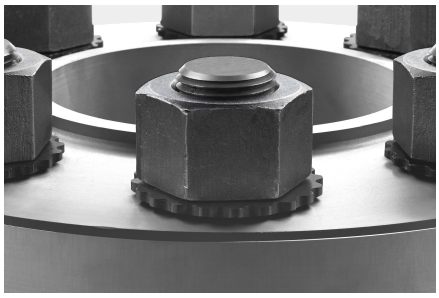


HYTORC WASHER

The HYTORC Washer is the simplest upgrade for instant improvements in safety, speed and accuracy. This unique, patented system eliminates the need for reaction arms and other custom fixtures required to hold the tool in place. Additionally, the precision machined surface reduces variation in bolt load across the flange for improved accuracy and loosening prevention.

SAFETY



The HYTORC Washer eliminates the need for reaction arms, which are the most common cause of injury on bolting jobs. The unique design of the washer allows the double layered safety socket to react on the washer itself, while turning the nut.

SPEED



The HYTORC Washer removes the complicated setup associated with other bolting systems and makes the bolting process more intuitive for improved job times. Our patented knurling ensures against bolt rotation during any operation.

HYTORC BACKUP WASHER

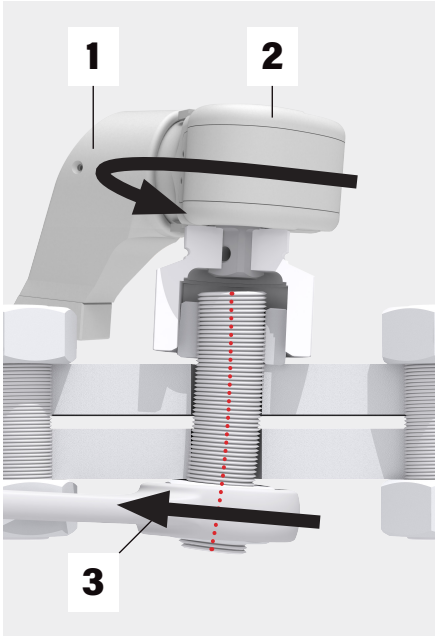


The HYTORC Washer System consists of the HYTORC Washer used in conjunction with the HYTORC Backup Washer. As an inexpensive alternative to a traditional backup wrench, the HYTORC Backup Washer provides major improvements in safety and speed to your job by preventing rotation with the bolt.

- Allow 3/4" (.019 mm) extra bolt length for the thickness of the reaction and backup washers.
- Your current bolts and nuts can be used with the HYTORC Washers..
- All nuts can still be tightened or loosened using your preferred bolting method; not exclusive to HYTORC tooling.

SYSTEM COMPARISON

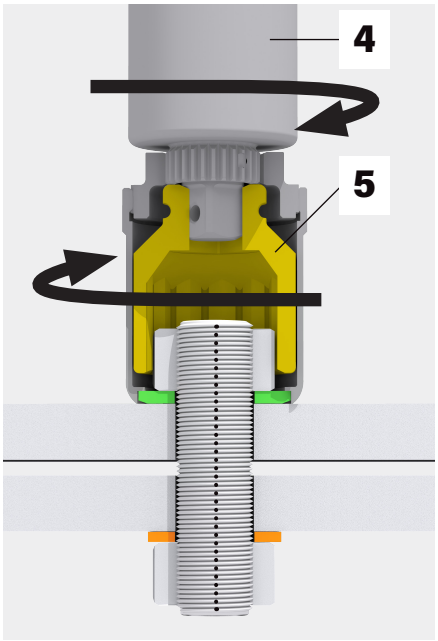
TORQUE WRENCH USED WITH BACKUP WRENCH



Torque wrench and backup wrench rotate in same direction.

1) Reaction fixture
2) Torque wrench
3) Backup wrench
↺ Incorrect angle and direction of rotation of torque wrench
← Incorrect angle and direction of rotation of backup wrench
⋮ Yielded bolt center axis

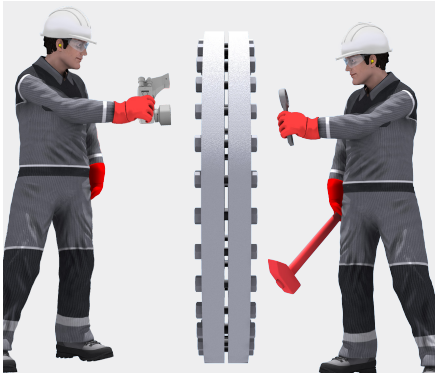
DOUBLE SOCKET DRIVE USED WITH HYTORC WASHER



The HYTORC Washer grips surface while the backup washer keeps the bolt in place and square with the surface.

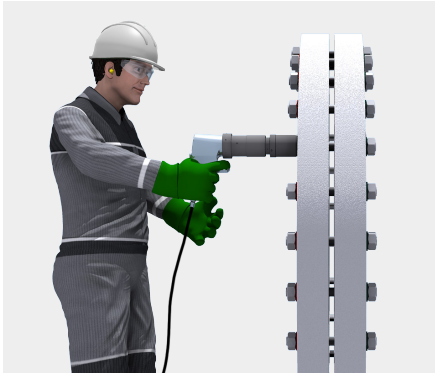
4) Torque wrench
5) Double socket drive
HYTORC Washer
Backup washer
↻ Direction of rotation of torque wrench
↻ Direction of rotation of double socket drive
⋮ Uncompromised bolt center axis

UNNECESSARY JOB CONDITIONS



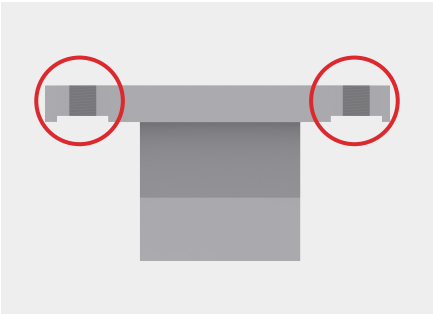
Pinch hazards and more personnel; damaging side loads; bending forces; shorter lifespan of nuts and bolts.

OPTIMAL JOB CONDITIONS



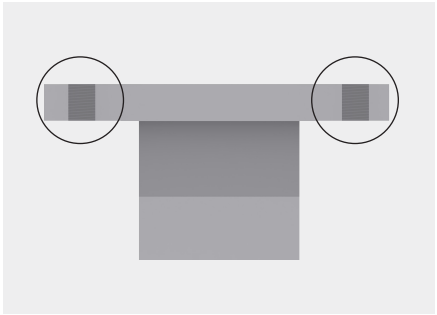
No pinch hazards; intuitive operation; less personnel; no damaging side loads or bending forces; nuts and bolts can be reused.

RE-MACHINED/DAMAGED FLANGE SURFACE



Repeated tightening and loosening of nuts and bolts cause extended wear and damage (re-machining) to flange surfaces.

FLANGE PROTECTION



The HYTORC Washer protects the flange surface, eliminating the need for expensive flange resurfacing processes; extended flange longevity.

HYTORC owns all content, copyrights, trademarks and patents in this document. © 2021 HYTORC. Any unauthorized use or distribution of any material from this document is strictly prohibited.

HYTORC BALTICS

Email: info@hytorc.pro

Online:
hytorc.pro