

**QUICK SPECS**

Scan code for more information.

HYTORC Washer System

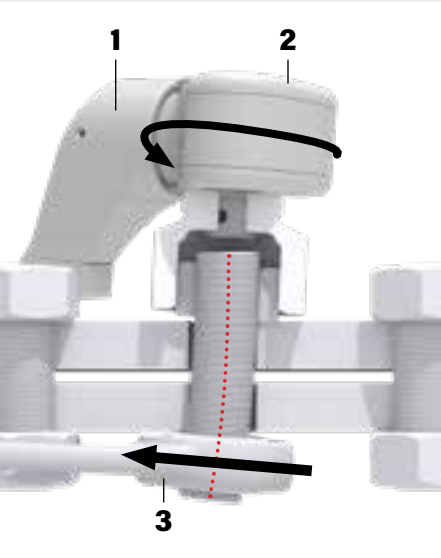
Uncompromised bolting efficiency

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.

- 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

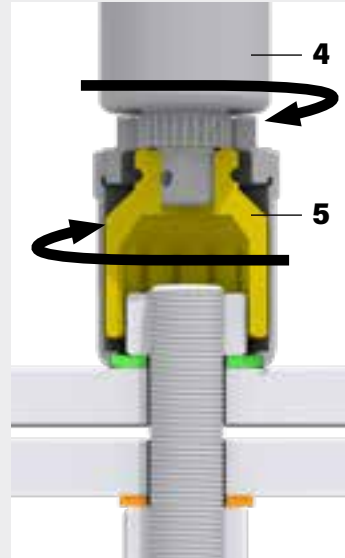
TORQUE WRENCH USED WITH BACKUP WRENCH



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



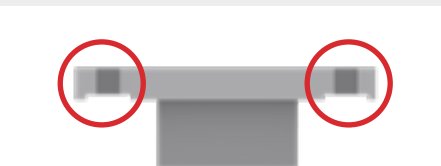
Pinch hazards and more personnel; damaging side loads; bending forces; shorter lifespan of nuts and bolts.

OPTIMAL JOB CONDITIONS



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

UNNECESSARY JOB CONDITIONS



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.

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