

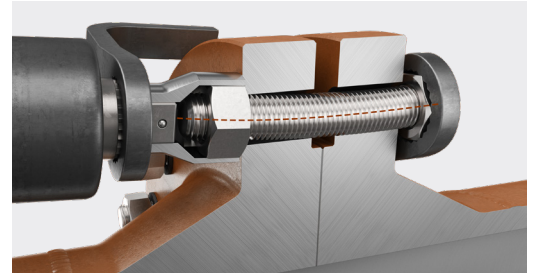
GRIPWASHER NS-Disc



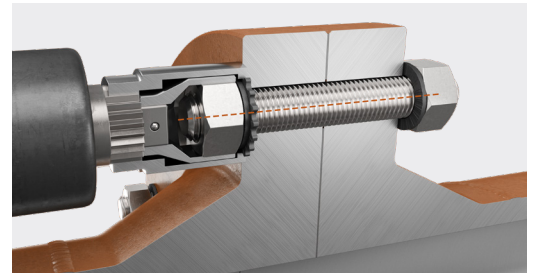
Specifications

- Effective protection against self-loosening of large bolted joints.
- Use only with electrically, pneumatically or hydraulically operated torque tools.
- Prevents the bolt or nut from rotating while tightening.
- It enables safe and convenient tightening without requiring an additional reaction arm resp. other awkward mounts on the tool or component.
- The reaction torque of the torque tool is supported by a special dual socket that interlocks with the gear-shaped outer contour.
- The tightening torque is applied axially - no harmful bending moments.
- It offers an effective and permanent protection against self-loosening.
- Precise tightening due to low friction coefficient variation.
- Prevention of accidents at work (e.g. pinching/crushing of the fingers, ...).
- No damage to adjacent surfaces caused by the reaction arm.
- Dual sockets adapted to easily fit powered tools from most well-known tool manufacturers.

GRIPWASHER NS-Disc



Introduction of harmful bending moments in conventional tightening methods using reaction arms/counterholders



Using a GripWasher NS-Disc and BS-Disc in a through hole

Technical data

- The gear-shaped contour of the lower washer in combination with a special dual socket ensures a reaction-arm free tightening
- Material: 1.1191 (C45E) with black zinc flake coating (fIZnnc)
- Hardness: 485±25 HV 0,3
- Corrosion resistance: min.1,000 h in NSS-test according to ISO 9227
- Suitable for high-strength bolts and nuts up to strength class 12.9 / 12
- Bending moment and reaction arm free tightening method
- Available dimensions: M16 - M48 ($\frac{5}{8}$ " - 1 3/4")
- Other nominal sizes, materials and coatings available on request

Models

GWNS_16	M16
GWNS_18	M18
GWNS_20	M20
GWNS_22	M22
GWNS_24	M24

GWNS_27	M27
GWNS_30	M30
GWNS_33	M33
GWNS_36	M36
GWNS_39	M39

GWNS_42	M42
GWNS_45	M45
GWNS_48	M48