

# GRIPWASHER Set



## Specifications

- Effective protection against self-loosening of large bolted joints.
- **No need for additional reaction arms or mounts.**
  - Prevention of accidents at work (e.g. pinching/crushing of the fingers, ...).
  - No damage to adjacent surfaces caused by the reaction arm.
- Use **only** with electrically, pneumatically or hydraulically operated **torque tools**.
- **Prevents the screw/nut from turning** when tightening.
- The reaction torque of the torque tool is supported by a special dual socket that interlocks with the gear-shaped outer contour of the GripWasher NS-Disc.
- The tightening torque is applied axially - **no harmful bending moments**.
- **Precise tightening** due to low friction coefficient variation.
- Dual sockets adapted to **easily fit** powered tools from **most well-known tool manufacturers**.
- Immediate, effective locking even at **low preload forces**.
- Ideal for installation in **confined spaces**.
- Tightening and loosening possible with access from **only one side**.
- **Friction based positive locking**. Op wrijving gebaseerde positieve vergrendeling.

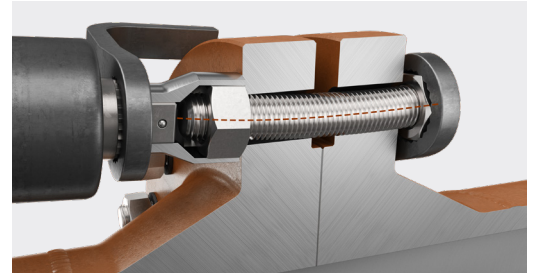
# GRIPWASHER Set



GripWasher NS-Disc



GripWasher BS-Disc



Initiation of damaging bending moments with conventional tightening methods using a reaction arm/counterholder



Use of GripWasher NS-Discs and BS-Discs in a through-hole.

## Technical data

- Anti-loosening device certified according to DIN 25201
- 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 (flZnnc)
- Hardness: 485±25 HV0,3
- 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 ( $\frac{5}{8}$ " -  $1 \frac{3}{4}$ " )
- Other nominal sizes, materials and coatings available on request

## Models

<b>GWset_16</b>	M16
<b>GWset_18</b>	M18
<b>GWset_20</b>	M20
<b>GWset_22</b>	M22
<b>GWset_24</b>	M24

<b>GWset_27</b>	M27
<b>GWset_30</b>	M30
<b>GWset_33</b>	M33
<b>GWset_36</b>	M36
<b>GWset_39</b>	M39

<b>GWset_42</b>	M42
<b>GWset_45</b>	M45
<b>GWset_48</b>	M48