

WEDGE LOCK WASHER

PEE VEE ENTERPRISES, NEW DELHI, INDIA

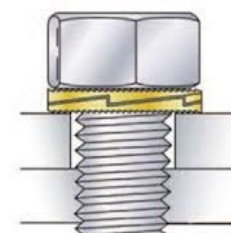


The Wedge locking systems delivers high quality anti-vibration security for most demanding of bolted joint applications.

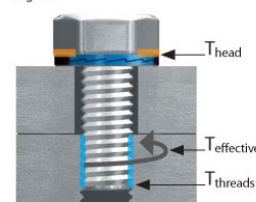
Even under extremes of vibration or dynamic loads, Wedge lock washers provide maximum reliability. When the bolt is tightened, the external radial teeth of the wedge lock washers embed themselves in an interlocking fashion with the respective mating surface. If the securing system is subject to dynamic stress, movement is only possible between the internal washer surfaces. This results in an increase in the preload force.

Advantages:

- Certified system for securing bolts, working at low and high preload levels
- Particularly suitable for dynamic loads - including when using lubricants
- Can be re-used without any reduction in function or quality
- Very easy to install and remove (wedge lock washers are supplied as a pre-assembled pair)
- Also suitable for high-tensile bolts of 8.8, 10.9 and 12.9 and their respective nuts
- Available in steel or stainless steel with narrow or wide bearing surfaces- other material such as Inconel and SMO are available upon request
- Available from M3 - M 100 and 1/4" - 4" or custom sizes

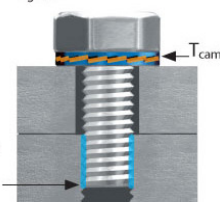


Tightening
Fig 2A



$$T = T_{\text{head}} + T_{\text{threads}} + T_{\text{effective}}$$

Untightening
Fig 2B



$$T = T_{\text{cams}} + T_{\text{threads}}$$

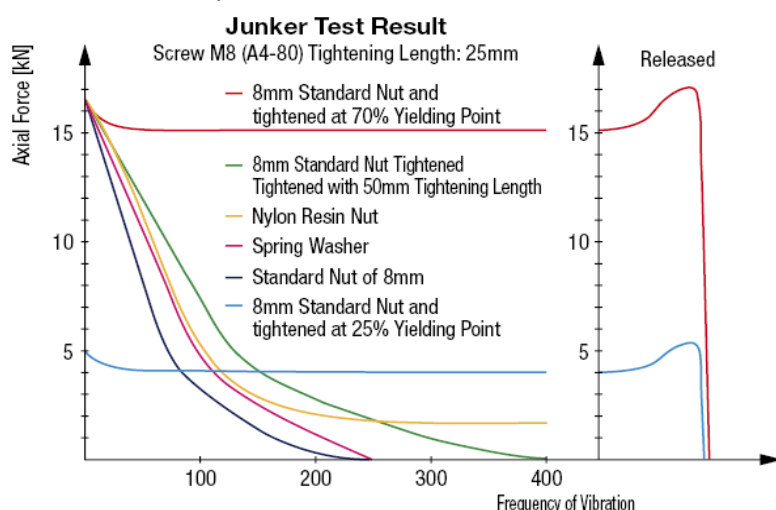


Fig 1: The Junker test shows that Wedge Lock washers safely secured the bolted connection; only a limited amount of tension is initially lost due to normal settlements. The wedge-locking function is verified through the clear increase in tension during untightening. All other bolt locking methods in the test failed to prevent loosening of the joint.

Wedge Lock washers are proven as a safe bolt securing system according to DIN 65151 tests performed by the independent research organizations IMA and CETIM. In addition, Wedge Lock performs over 10,000 live Junker vibration tests around the globe every year.

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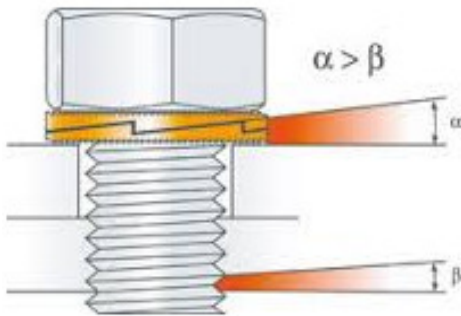
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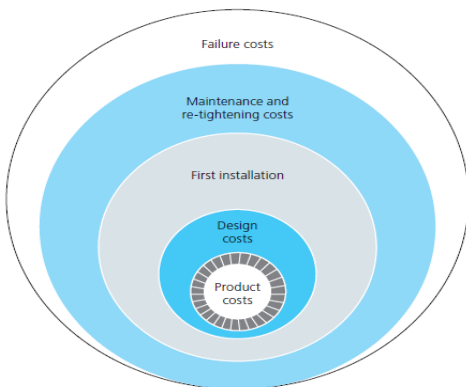
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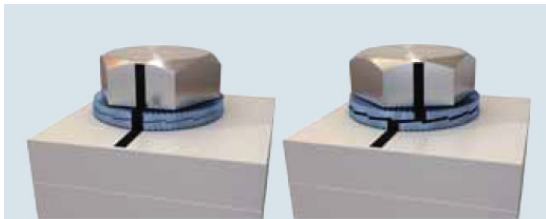
Life Cycle Profitability

Over the operational life cycle, Wedge Lock washer gives increased operational reliability and lower maintenance costs while significantly reducing the risks of production stops, accidents and warranty claims. We help you examine all cost factors related to bolted joints.



Wedge Lock Washer can help you increase your profitability by, considering the complete life cycle cost for bolt securing.

Possible to verify the locking function



When untightening a bolt secured by Wedge Lock Washer check that sliding occurs between the cam faces

How Do They Work ?

The principle is brilliantly simple.

Used in pairs, the surface contacting the bolt head (or nut) and the fixture is ridged to give a high friction connection, and the two washers have interlocking cams with an angle that slightly exceeds the angle of the screw thread.

To loosen the assembly requires the washers to climb the cams at a greater rate than the thread unscrews, so the load in the screw actually increases during initial un-tightening. This ensures that once tightened, the connection will not become undone without the application of a un-tightening torque on the screw or nut.



Utilize the advantages of lubrication

Wedge Lock Washer recommends the use of a high quality, anti-seize lubricant as it improves the tightening results. It is especially beneficial for large sized bolts and stainless steel applications. The Wedge Lock Washer bolt securing system provides safe locking in both dry and lubricated conditions. Benefits of lubricated fasteners include:

- Improved reusability
- Reduced friction and deviation
- Facilitated assembly and disassembly
- Reduced torsion stress due to minimized thread friction
- Avoided galling and thread seizure
- Additional protection against corrosion

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