

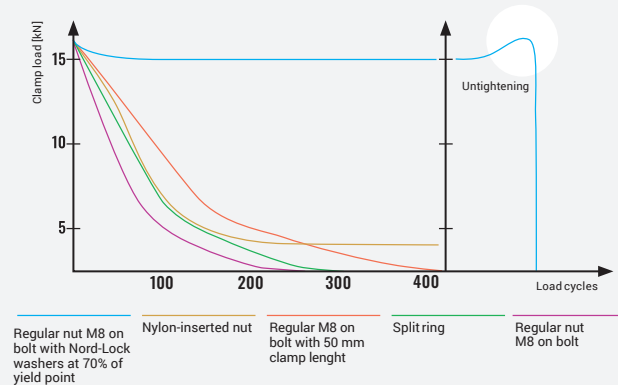
TESTED AND CERTIFIED

Our washers have been rigorously tested and approved by independent institutes and authorities, ensuring that our washers meet the most stringent standards and safety requirements.



Among these are the Junker test* – the most rigorous method for testing a bolted joint, where the joint is exposed to transverse displacement, while the preload is continuously measured. Nord-Lock washers consistently outperform the competition in this test. The graph shows that the clamping load of all solutions drops dramatically, except for the Nord-Lock washers.

Junker test



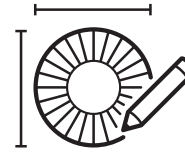
*According to DIN 65151.



Scan QR-code to watch the Junker test

NEED A CUSTOM SOLUTION?

If you cannot find the washers you are looking for in our standard range, we will be happy to customize a solution for you.



Possible customization options:

- Coatings with improved corrosion resistance
- Black coating
- Custom inner and outer diameter
- Left-handed washers
- Custom thickness
- Custom materials
- Added chamfers
- Unique laser marking

NORD-LOCK GROUP

Nord-Lock Group is a global leader in bolting and engineering solutions. Our innovative technologies and industry-leading expertise secures millions of critical applications across the globe.

Our brands are all at the forefront of their respective technologies: Nord-Lock® wedge-locking washers, Superbolt® mechanical tensioners, Boltight® hydraulic tensioners, Expander® System pivot pins, and Energy Bolting safety-critical fasteners.

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NORD-LOCK
GROUP

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NORD-LOCK® WEDGE-LOCKING WASHERS

PREVENTS BOLTS FROM LOOSENING



NORD-LOCK®
PART OF THE NORD-LOCK GROUP

THE CHALLENGE TO TIGHTEN AND SECURE BOLTED JOINTS IN CRITICAL APPLICATIONS

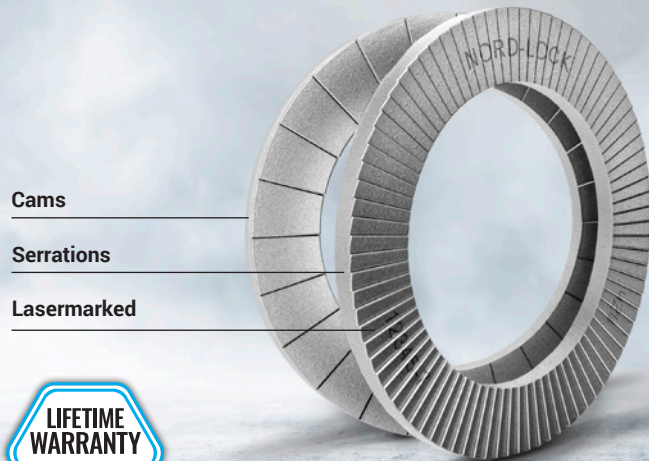
Bolted joints are exposed to a wide range of forces and conditions that can lead to loss of preload and joint failure, compromising safety and reliability. The challenge for a bolted connection is to withstand:

- Vibrations
- Dynamic loads
- Shock loading
- Thermal cycling.

THE SOLUTION HOW NORD-LOCK WEDGE-LOCKING WASHERS WORK

Nord-Lock washers cannot loosen unintentionally because a wedge-effect is created underneath the bolt head/nut.

The solution is composed of a pair of wedge-locking washers. Each washer has cams on one side and serrations on the other. When tightened, the serrations embed into the mating surfaces. Because the cam angle (α) is greater than the thread pitch (β), a wedge effect is created. As a result, movement can occur only across the cam faces, maintaining preload and preventing loosening.



NORD-LOCK® ORIGINAL WASHERS

Nord-Lock washers increase operational reliability and lower your maintenance costs, while significantly reducing the risks of unplanned production stops, accidents and warranty claims.

All Nord-Lock steel washers promise the highest salt spray resistance on the market – 1,000 hours.

BENEFITS

- Nord-Lock original washers secure bolted joints exposed to severe vibration and dynamic loads
- Available in a wide range of materials to suit use in general steel and stainless steel applications, and in corrosive, acidic and high-temperature environments
- Locking function not affected by lubrication
- Achieves accurate preload with defined and uniform friction
- Available in a wide range of sizes (metric and imperial)
- Designed for bolts up to and including property class 12.9 (steel) and up to A4-80 (stainless steel, 254 SMO®)
- High corrosion resistance (minimum 1,000 hours in salt spray test according to ISO 9227) for steel washers
- Reusable (depending on conditions of use)
- Custom sizes available upon request
- CE marked (ETA-19/0813, ETA-20/0010)

WANT TO LEARN MORE?

Ask your Nord-Lock representative for case stories and details on how Nord-Lock wedge-locking washers can secure your challenging joints. Find your local Nord-Lock representative and contact us today to arrange a visit: www.nord-lock.com/contact



STEEL

M3-M130 #5 to 5"

Ideal for a wide range of general steel applications.



M6-M24

Also available in black.



STAINLESS STEEL

M3-M80 #5 to 3 1/8"

Designed for general stainless steel use in non-chloride and non-acidic environments.



254 SMO®

M3-M39 #5 to 1 1/2"

Perfect for demanding saltwater and chloride environments, including pumps, heat exchangers, desalination, nuclear, food processing, and medical equipment.



ALLOY C-276

M4 – M20 #8 to 5/8"

Optimized for harsh acidic environments in the process and chemical industries, including evaporators and offshore downhole applications.



ALLOY 718

M4 – M20 #8 to 5/8"

Developed for extreme temperatures, ideal for gas turbines, turbochargers, and incineration systems.