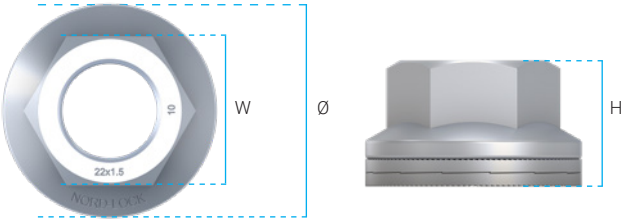


TECHNICAL SPECIFICATIONS

Surface coating	Basecoat Delta Protekt® KL100, Topcoat VH 302 GZ
Corrosion resistance	600 hours according to ISO 9227
Lubrication	Dry film lubricant/lubricating paste
Property class	Class 10



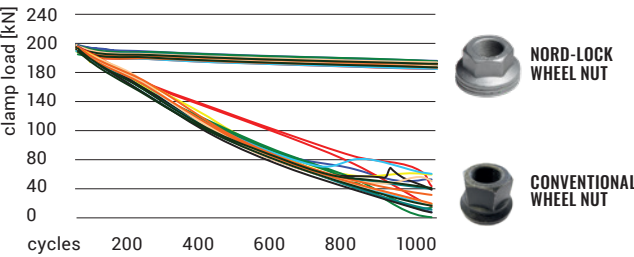
Thread	Key width W	Diameter Ø	Height H	Tightening torque	Clamp load
M16x1.5	24.0 mm	34.5 mm	22.0 mm	280 Nm (205 ftlb)	~ 100 kN (~22500 lb)
M18x1.5	27.0 mm	40.0 mm	24.0 mm	400 Nm (295 ftlb)	~ 130 kN (~29200 lb)
M20x1.5	30.0 mm	45.0 mm	26.0 mm	550 Nm (405 ftlb)	~ 160 kN (~36000 lb)
M22x1.5	32.0 mm	46.0 mm	27.0 mm	650 Nm (480 ftlb)	~ 180 kN (~40500 lb)
M24x1.5	36.0 mm	48.0 mm	33.0 mm	950 Nm (700 ftlb)	~ 240 kN (~54000 lb)

WANT TO LEARN MORE?

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

TESTED AND CERTIFIED

Nord-Lock wheel nuts have been rigorously tested and approved by independent institutes as well as certification authorities. In testing, the Nord-Lock wheel nuts have proven superior in securing wheel joints and maintaining clamp load. The graph shows the change in clamp load over 1,000 load cycles for products tightened to 200 kN.



All Nord-Lock wheel nuts are certified by TÜV. To learn more about TÜV approval, please contact your Nord-Lock office.

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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Email: info@nord-lock.com

NORD-LOCK
GROUP

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NORD-LOCK® WHEEL NUTS

SAFE WHEELS SAVE LIVES



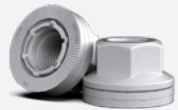
NORD-LOCK®
PART OF THE NORD-LOCK GROUP

THE CHALLENGE

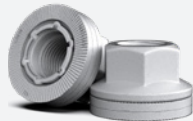
DEMANDING OPERATING CONDITIONS PUT WHEELED VEHICLES AT RISK

Wheel fasteners are exposed to extreme operating conditions that can lead to loosening, loss of preload, and ultimately wheel detachment—posing serious safety risks and costly downtime.

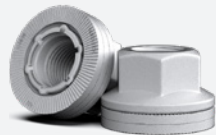
- Vibration and dynamic loads from road conditions, braking, and acceleration
- Thermal expansion and contraction caused by braking heat cycles
- Embedding and settlement between contact surfaces after installation
- Human factors, such as incorrect tightening or inconsistent maintenance
- Corrosion affecting friction and preload
- Loss of clamp load over time, increasing the risk of wheel loosening



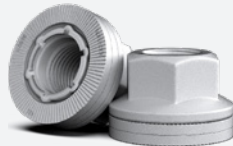
NLWN M16



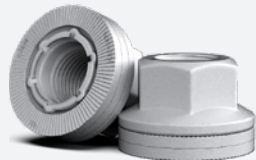
NLWN M18



NLWN M20



NLWN M22



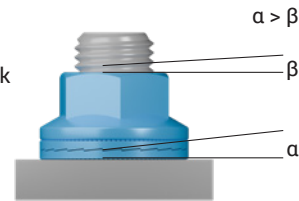
NLWN M24

THE SOLUTION

HOW NORD-LOCK WHEEL NUTS WORK

Nord-Lock Wheel Nuts use Nord-Lock wedge-locking technology to secure wheels by maintaining preload, even under severe operating conditions.

Each wheel nut is equipped with a pair of Nord-Lock wedge-locking washers, with 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.



ADVANTAGES

- Nord-Lock Wheel Nuts safely secure wheels on both on-road and off-road heavy vehicles
- Improves driver productivity while reducing operating and service costs
- Minimizes risk of accidents and injury
- Easy to install and remove using hand tools
- Pre-lubricated
- Suits flat-faced steel rims
- Available in sizes M16–M24
- High corrosion resistance (minimum 600 hours in salt spray test according to ISO 9227)
- Reusable (depending on conditions of use)

APPLICATIONS

Nord-Lock Wheel Nuts use Nord-Lock wedge-locking technology to secure wheels by maintaining preload, even under severe operating conditions. Once properly tightened, a Nord-Lock wheel nut cannot loosen on its own.

Nord-Lock wheel nuts are designed for flat-faced steel rims. Each nut is permanently attached to a pair of Nord-Lock wedge-locking washers. The wheel nut is suitable for:

- Heavy on-road vehicles (buses, trucks, trailers, etc.)
- Off-road vehicles (tractors, farming equipment, mining equipment, forestry machinery, military vehicles, etc.)

TRANSPORTATION



FORESTRY



AGRICULTURE

