

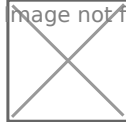
GROXX | SS316 THREADED ROD

GRXNG143

TECHNICAL SPECIFICATION

GROXX GRXNG143 | GRADE 316 STAINLESS STEEL THREADED HARDWARE

The **Groxx GRXNG143 Series** encompasses our premium range of high-performance threaded bolts, specifically engineered for critical structural connections in fall protection and industrial safety systems. Manufactured from **A4-70 (316 Grade) Stainless Steel**, these fasteners offer the ultimate balance of tensile strength and superior corrosion resistance for the most demanding environments.



MATERIAL PROPERTIES & DURABILITY

- Grade 316 Stainless Steel:** Known as "Marine Grade," this alloy contains molybdenum, providing exceptional resistance to chlorides (salt spray) and industrial chemicals.
- A4-70 Cold-Worked Strength:** Precision-manufactured to meet a minimum tensile strength of **700 MPa**, ensuring structural reliability under dynamic fall-arrest loads.
- Anti-Galling Treatment:** Optimized surface finish to reduce the risk of thread galling during high-torque installations.

TECHNICAL SPECIFICATIONS | M12 & M16 OPTIONS

SPECIFICATION	M12 HARDWARE	M16 HARDWARE
Thread Diameter	12.0 mm	16.0 mm
Thread Pitch	1.75 mm (Standard Coarse)	2.0 mm (Standard Coarse)
Material Grade	316 / A4-70 Stainless Steel	316 / A4-70 Stainless Steel
Tensile Strength	700 N/mm²	700 N/mm²
Yield Strength	450 N/mm²	450 N/mm²
Hex Actuation	19.0 mm A/F	24.0 mm A/F

STRUCTURAL ADVANTAGE

The GRXNG143 series is designed to integrate seamlessly with **Groxx G-Anchors, I-Brackets, and H-Frames**.

- M12 Options:** Typically utilized for primary bracket-to-rung or bracket-to-clamp connections where precision and high shear strength are required.
- M16 Options:** Engineered for heavy-duty structural anchoring into concrete or primary steel members, providing maximum pull-out resistance for multi-user lifeline extremities.

COMPLIANCE & QUALITY CONTROL

- ISO 3506-1:** Conforms to mechanical property requirements for corrosion-resistant stainless steel fasteners.
- DIN 931 / 933:** Available in both partially threaded (hex bolt) and fully threaded (set screw) configurations.
- Traceability:** Every batch is quality-tested to ensure material composition and load-bearing capacities align with global fall protection standards.

APPLICATION GUIDELINES

Installation Note: To ensure maximum service life and safety, Groxx recommends the use of **316 Stainless Steel Nyloc nuts and washers** for all GRXNG143 installations to prevent vibration-induced loosening. In highly corrosive coastal environments, the application of a nickel-based anti-seize lubricant is advised during assembly.