

RESCUE HARNESS WITH WOK
POSITIONING BELT WITH SIT
HARNESS

GGRXRH105

TECHNICAL SPECIFICATION

GROXX RESCUE HARNESS WITH WORK POSITIONING BELT &
SIT HARNESS | GGRXRH105

PREMIUM MULTI-FUNCTIONAL FULL BODY FALL ARREST &
ROPE ACCESS SYSTEM

The **Groxx Rescue Harness with Work Positioning Belt and Sit Harness (Model Number: GGRXRH105)** is a highly versatile, industrial-grade personal protective assembly engineered for high-altitude rope access, tactical rescue operations, and extended work positioning tasks. Designed to function as a unified full-body safety platform, this universal-sized harness features advanced anatomical load distribution and targeted ergonomic padding. It ensures maximum comfort, agility, and fall mitigation protection for technicians operating in high-risk vertical environments.

CORE PERFORMANCE FEATURES

- Comprehensive 7-Point Attachment Layout:** Integrated with seven specialized D-ring anchor elements strategically arranged across the body to handle varying rigging and fall-arrest vectors.
- Highly Adaptable 6-Point Tuning Matrix:** Equipped with six heavy-duty adjustment points allowing technicians to fully calibrate the length of the shoulder straps, back strap, waist belt, and thigh loops for a tailored, secure fit.
- Targeted Ergonomic Comfort Padding:** Outfitted with ideally positioned soft shoulder straps, wide lumbar waist support, and thick thigh pads to relieve pressure and eliminate suspension trauma during long hours on suspension ropes.
- Premium Alloy Hybrid Metallurgy:** Forged with rugged, heavy-duty aluminum alloy components at critical chest, waist, and ventral anchors to shave weight, while utilizing robust forged steel at the shoulder rescue rings and stamped steel for the adjustment buckles.
- High-Tensile Load Webbing:** Constructed entirely from heavy-duty polyester strap webbing featuring a uniform 45 millimeter width profile for maximum friction resistance and load containment.



TECHNICAL SPECIFICATIONS

FEATURE / HARDWARE CONFIGURATION	TECHNICAL SPECIFICATION TARGET VALUE
Model Number	GGRXRH105 (Replaces legacy code: FBH70502)
Product Classification	Full Body Rescue Harness with Work Positioning & Sit Harness
Sizing Envelope	Universal Size
Maximum Rated Loading Limit	100 kilograms
Primary Strap Webbing Width	45 millimeters
Webbing Material Composition	High-Tensile Polyester Fiber
Harness Hardware Buckles	Precision Stamped Steel
Harness Adjustment Interface	6 independent adjustment points (Shoulder, Back, Waist, Thighs)
Harness Anchor Interface	7 independent attachment points (D-Rings)

RIGGING & ATTACHMENT ELEMENT MATRIX

The harness architecture divides its anchoring points into highly specialized functional zones to support safe fall arrest, rescue tracking, and positioning paths:

ATTACHMENT ELEMENT	MATERIAL COMPOSITION	FUNCTIONAL APPLICATION / RIGGING TARGET
1 Dorsal D-Ring	Heavy-Duty Forged Aluminum Alloy	Primary fall arrest connection (back placement)
1 Chest D-Ring	Heavy-Duty Forged Aluminum Alloy	Secondary fall arrest connection (front placement)
1 Ventral D-Ring	Heavy-Duty Forged Aluminum Alloy	Dedicated anchor point for active rope access work
2 Lateral D-Rings	Heavy-Duty Forged Aluminum Alloy	Side-mounted connectors for work positioning lanyards
2 Shoulder D-Rings	Premium Forged Steel	High-strength top anchor loops dedicated to vertical rescue lift out

GLOBAL REGULATORY COMPLIANCE

The GGRXRH105 safety harness is manufactured under rigorous design controls and conforms to multiple major international safety and technical standards:

- **EN 361:2002:** Certified under European requirements for personal protective equipment against falls from a height (Full body harnesses).
- **EN 358:2018:** Fully compliant with European benchmarks for belts and lanyards intended for work positioning or restraint.
- **EN 813:2008:** Certified for personal fall protection equipment involving sit harnesses for rope access paths.
- **EN 1497:2007:** Formally approved under specialized European standards for rescue harnesses used in recovery tracking.
- **EU Regulation 2016/425 Module D:** Production processes are completely monitored and controlled under rigid European Union quality assurance guidelines for high-risk equipment.

THE GROXX ADVANTAGE

- **Unified Triple-Harness Versatility:** By combining a certified fall arrest harness, an active sit harness, and a robust work positioning belt into one sleek profile, this design removes the need for stacking overlapping gear. It minimizes equipment clutter, speeds up donning times, and ensures seamless compliance across multi-tasking worksites.
- **Dual-Shoulder Evacuation Readiness:** The inclusion of two **forged steel shoulder D-rings** provides a dedicated, direct vertical connection for tripods or winch rescue setups. If a fall or medical emergency occurs, this configuration allows rescue crews to extract an unconscious worker completely upright, minimizing confined space hazards.
- **Rugged Heavy-Duty Metallurgy:** Utilizing heavy-duty **forged aluminum alloy** for the primary chest, waist, and ventral loops optimizes structural safety margins where dynamic shock forces focus. At the same time, it keeps the harness exceptionally light to prevent fatigue during long shifts.