

GROXX BEARINGS

GBR800

TECHNICAL SPECIFICATION

GROXX TRACTION HOIST COMPONENTS | GBR800 HIGH-CAPACITY BEARING

The **Groxx GBR800** is a heavy-duty, precision-machined bearing assembly engineered for 800 kg capacity traction hoists. Installed at critical rotational hubs—such as the drive sheave shaft, gear reducer assembly, and pressure roller pivots—the GBR800 reduces rotational friction and supports severe radial and axial loads. It is a vital component for ensuring high mechanical efficiency, quiet operation, and smooth vertical travel on suspended access platforms and swing stages.

PRIMARY FUNCTIONS

- Rotational Friction Reduction:** Minimizes resistance between stationary housing components and high-speed rotating shafts, allowing maximum motor torque to be converted into effective lifting power.
- Radial & Axial Load Support:** Absorbs heavy dynamic forces generated by the 800 kg suspended load and internal gear mesh forces, maintaining precise shaft alignment under stress.
- Traction Sheave Stabilization:** Keeps the drive sheave running true without wobble or eccentricity, ensuring consistent rope clamping force and preventing uneven wire rope wear.
- Gearbox & Shaft Alignment:** Maintains strict center-line tolerances within the internal gear drive, preventing tooth misalignments, binding, and premature mechanical wear.

TECHNICAL SPECIFICATIONS

FEATURE	SPECIFICATION
Model Number	GBR800
Rated Hoist Capacity	800 kg Traction Hoist Systems
Bearing Type	Deep Groove Ball / Heavy-Duty Sealed Roller Bearing
Primary Material	High-Carbon Chromium Steel (AISI 52100)
Sealing System	Dual-Lip Contact Rubber Seals (2RS) / Metal Shields
Dynamic Load Rating	High-Capacity Industrial Grade
Weight	0.32 kg

KEY TECHNICAL FEATURES

- High-Carbon Chrome Steel Construction:** Manufactured from premium AISI 52100 bearing steel, vacuum-degassed for superior fatigue resistance and long operational life under heavy cyclic loads.
- Dual-Lip Sealed Protection:** Equipped with contact rubber seals (2RS) that lock in high-performance synthetic grease while completely sealing out concrete dust, moisture, and abrasive jobsite contaminants.
- Precision Tolerance Grinding:** Machined to ABEC-3 / ISO P6 precision standards, ensuring ultra-quiet operation, minimal heat generation, and zero rotational backlash.
- Extreme-Pressure Synthetic Grease:** Factory-prefilled with high-grade synthetic lubricant formulated to operate effectively across extreme ambient temperature ranges (-30°C to +120°C).

THE GROXX ADVANTAGE

The **GBR800 Bearing** provides the structural backbone for smooth, low-friction power transmission within 800 kg traction hoists. By combining premium chrome steel with robust dual-lip seal protection, Groxx ensures continuous mechanical reliability, reduces motor strain, and significantly extends the service interval of high-rise suspended access equipment.

