MINOVA

EXRB EXPANDABLE ROCK BOLTS

ROCK STABILIZATION



DESCRIPTION

The EXRB Expandable Rock Bolt is a full column anchored rock bolt that forms a mechanical interlock between the entire bolt and the borehole wall. When rock surrounding an underground excavation needs to be reinforced or stabilized, choose Minova's EXRB to create the safe and stable working environment your site requires.

The EXRB offers fast and reliable rock reinforcement with assured quality and guaranteed mechanical properties.

Minova EXRB consists of a folded steel tube with upper bushing and inflation bushing welded at each end of the tube. A specially designed adjustable face plate is delivered as an option.

EXRB requires steel with extremely good elongation and formability properties. This produces a finished bolt that will be able to accommodate large rock movements and still maintain its high load bearing capacity. EXRB delivers a high level of safety and uninterrupted production in the customer's operations.

ADVANTAGES

- Provides immediate and full support action
- Accommodates large rock movements while maintaining high load bearing capacity
- High deformation characteristics accommodates ground movements in tension as well as in shear

APPLICATION AND USES

The EXRB is a cost-effective means of rock reinforcement in a variety of rock conditions from hard to soft rock. It is flexible and allows for variations in the borehole diameter. The EXRB is designed to accommodate large rock movements while maintaining high load bearing capacity.

The EXRB is suited to metal and non-metal mining, tunnelling and infrastructure applications.

THE EXRB DIFFERENCE

- High quality raw materials
- Energy efficient steel production
- Seamless production control in our own facilities throughout the manufacturing process
- Production according to ISO 9001 & ISO 14001
- QA and certified engineered rock reinforcement product
- Full production chain customization on request
- Traceability throughout the manufacturing process
- Short delivery times
- All EXRB may be supplied with a protective coating
- Reliable logistics

SAFE AND EASY INSTALLATION

- Accommodates variations in borehole diameter
- Quality assured installation - when the pump stops at the desired inflation pressure the bolt is successfully installed
- No cement grout or other chemicals required to anchor the bolt

TECHNICAL DATA

Minova's EXRB ensures a minimum breaking load as well as corresponding elongation. EXRB is available in three different load bearing capacities.

EXRB 120 - 12 metric tons

EXRB 160 - 16 metric tons

EXRB 240 - 24 metric tons

Consult your local Minova USA, Inc. Customer Service Representative for more information.

DESIGN DATA FEATURES

The EXRB is a friction-anchored bolt made from a folded steel tube. It is installed in an undersized borehole and inflated with high-pressure water. The tube expands to conform to the borehole wall, creating full-column contact and a mechanical interlock along the entire length of the bolt. Support is immediate, with no cement grout, resin or other chemicals required.

The EXRB has an elongation of approximately 15%. This allows the bolt to accommodate ground movement in tension as well as in shear while maintaining its high load bearing capacity.

TECHNICAL PROPERTIES	EXRB 120	EXRB 160	EXRB 240
Bolt diameter	28 mm	38 mm	38 mm
Profile diameter	27.5 mm	36 mm	36 mm
Material thickness	2 mm	2 mm	3 mm
Upper bushing diameter	28 mm	38 mm	38 mm
Inflation bushing diameter	30/37 mm	41/48 mm	41/48 mm
Hole diameter	32 - 39 mm	43 - 52 mm	43 - 52 mm
Minimum breaking load	120 kN	160 kN	240 kN
Minimum elongation	10 %	10 %	10 %
Typical elongation	15 %	15 %	15 %
Standard lengths	1.5 – 4.0 m	2.4 – 6.0 m	2.4 – 6.0 m
Recommended inflation pressure*	300 Bar	240 Bar	300 Bar

*For EXRB 120 and EXRB 240, do not exceed 310 Bar inflation pressure
For EXRB 160, do not exceed 250 Bar inflation pressure

MANUFACTURER

Minova USA Inc
An ISO 9001:2015
Quality Management Certified Company
Certificate No. FM 686583

Original Registration Date: 1995-02-15
Expiry Date: 2028-02-14

CUSTOMER SERVICE

Minova USA Inc
150 Summer Court
Georgetown, Kentucky
KY 40324
Email: minovana.customerservice@minovaglobal.com

© 2026 Minova. All rights reserved

All information contained in this document is provided for informational purposes only and is subject to change without notice. This document supersedes all previous versions of the same product datasheet. Since Minova cannot anticipate or control the conditions under which this information and its products may be used, including ground conditions, installation method, and site-specific engineering requirements, each user should review the information in the specific context of the intended application and confirm suitability before use. To the maximum extent permitted by law, Minova specifically disclaims all warranties expressed or implied in law, including accuracy, non-infringement, and implied warranties of merchantability or fitness for a particular purpose. Minova specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance upon the information in this document. For technical guidance specific to your application, contact Minova's technical support team. The word Minova and the associated images are registered trademarks.