

D39 MDX Bolt

Category: Dynamic friction bolt



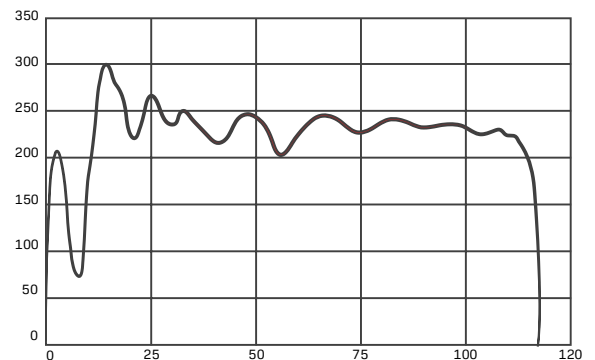
Introduction

The D39 Mechanical Dynamic Extra (MDX Bolt) has unparalleled “extra expansion” for extremely effective anchorage using the unique wedge design that is able to expand up to 39mm, when drilled with 35-38 mm drill bits. The D39 MDX Bolt is particularly suitable for seismic rock conditions and is the new benchmark in seismic ground support stability.

The Sandvik D39 MDX Bolt has been developed to provide rock support in a wide variety of rock conditions (fractured to massive, weak to strong), and in particular seismic rock conditions. This development is a progression of the successful MD Bolt being used in Australian mines since 2010.

While the MDX Bolt maintains the key features of the MD Bolt, regarding the ease of installation (single pass with no grout), its performance in both the seismic and weak rock conditions has been significantly improved.

TYPICAL MDX BOLT RESPONSE TO DYNAMIC LOADING



Key features

- A universal bolt suitable for fractured to massive and weak to strong ground conditions, and particularly seismic rock conditions
- Very quick and simple “one-pass” installation—same as the MD Bolt
- No resins or grouts required, making it far easier to install, able to hammer straight in through wet and broken ground with no complications
- Easily installed with standard jumbo and other installation machines
- Unique wedge design
- Unique yield design capable to absorb very high dynamic energy
- High tensile and shear strength and elongation
- Fully galvanized for corrosion protection
- The stopper safety device arrests bar ejection
- The bottom of the tube is sealed to prevent atmospheric corrosion
- Low profile head, no protrusion below the nut
- Accessories can be screwed directly onto the installed bolts
- Bolt installation quality apparent to the operator
- These bolts are available in a range of sizes from 1.8 m, 2.1 m, 2.4 m, 3.0 m

Component properties

Property	Typical
Bar Diameter	Ø20 mm
Bar Rolled Thread	M22x2.5 LH
Drill Bit Size	Ø 35-38 mm

Bolt technical specifications

Property	Minimum	Typical
Ultimate Tensile Strength	205 kN	255 kN
Yield Strength	155 kN	180 kN
Shear Strength (calculated)	207 kN	227 kN
Dynamic Capacity	24 kJ	28 kJ
Dynamic Displacement	108 mm	129 mm
Tube Thickness	-	2.3 mm
	Maximum	
Wedge Expansion	39 mm	-

Part Number and Description

Part number	Description	Weight
BXG3918	1.8 m long MDX Bolt Galvanized (39 mm)	8.4 kg
BXB3918	1.8 m long MDX Bolt Black (39 mm)	8.1 kg
BXG3921	2.1 m long MDX Bolt Galvanized (39 mm)	9.9 kg
BXB3921	2.1 m long MDX Bolt Black (39 mm)	9.6 kg
BXG3924	2.4 m long MDX Bolt Galvanized (39 mm)	11.1 kg
BXB3924	2.4 m long MDX Bolt Black (39 mm)	10.8 kg
BXG3930	3.0 m long MDX Bolt Galvanized (39 mm)	14.1 kg
BXB3930	3.0 m long MDX Bolt Black (39 mm)	13.8 kg

Legal disclaimer

All dimensions, weights, quantities, and specifications are those applicable at the time of this publication and may be amended from time to time. Please contact your local representative for final confirmation of any key specifications.

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