

AT – Manx Bolt

Product code: AT/MX Product specification: Manx Bolt – AT Bar Category: Rock Bolts – Solid Bar

Introduction

The Manx bolt system eliminates threaded bar protruding beyond the tensioning nut of the rock bolt. This system can be utilised where clearance is an issue in low seam heights.

Key features

- Eliminates potential damage and injury from protruding bolt threads.
- Tensioning applied through Male Bolt and Female Coupling Connection System
- Internal M24 thread on nut end to allow hanging of accessories.
- Manufactured from a special hot rolled deformed bar designed by Sandvik.
- This bolt features a rib pattern which actively assists with mixing the chemical anchors during installation.
- The AT bolt typically provides marginally higher fracture toughness results over standard AX bar when measured by Charpy Impact Test.
- Shear Pin Break Out System.
- The deformed rib pattern improves load transfer properties.
- The rolled thread strength nominally equals the column strength of the bar.
- Corrosion protection may be provided by thermal diffused Obduro coatings.



Product Code Guide

Bolt Type	Diameter	Length	Drive Nut & Accessories	Coating	Packaging
AT	4	150	МХН	TD	050

Mechanical Properties

		Minimum		т	ypical	
Yield Strength	600MPa		200kN	650MPa	240kN	
Tensile Strength	840MPa		305kN	890MPa	340kN	
Calculated Shear Strength		200kN		2	225kN	
Elongation (After Fracture)		15%		1	.9%	
Mass per Metre				2.97kg		
Bar Core Diameter				Φ21.7mm		
Major Bar Diameter				Ф23.6mm		
Cross Sectional Area				370mm ²		
Rolled Thread				M24 x 3.0mm Pitch		
Impact Toughness				19 Joules		

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Installation Guidelines	28mm hole diameters are preferred with a 38-42mm reamer. Hole depth is critical. Hole depth should be the length of the bolt being installed. It is important to follow the resin anchor recommended mixing and hold times as printed on the resin anchor cartons. Do not over mix.
Packaging	Standard bolt lengths range from 600mm to 3000mm in 300mm increments. Non-standard requirements are available by negotiation. Bolts are packaged in bundles of 50 with sub bundles available on request. Bolt fittings, such as nuts, anti-friction washers and domed balls, are supplied fitted to rock bolts in the configuration requested.
Notes	Sandvik is Quality Assured to ISO 9001:2015

Product range and accessories

Typically products used

Product Group	Round Plate	Octo Plate	Butterfly Plate	Resin
Product Imagery	0	Stin.		
Product Code Prefix	RD	OCP	BUTT	RO

Phone app

Want to know more; our full product range, knowledge centre, and other details are available via the App; available on iOS and Android devices by searching "Ground Support".



Legal disclaimer

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