

AT-MANX BOLT

Rock Bolts - Solid Bar



Product – MANX Bolt-AT Bar

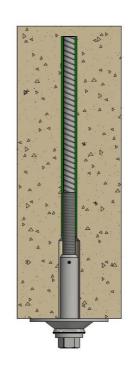
Product Code	Bolt Type	Diameter	Length	Drive Nut & Accessories	Coating	Packaging
Guide	AT	4	150	MXH	TD	050

Physical Properties

	Minimum		Typical	
Yield Strength	600MPa	200kN	650MPa	240kN
Tensile Strength	840MPa	305kN	890MPa	340kN
Calculated Shear Strength	200kN		225kN	
Elongation (After Fracture)	15%		19%	
Mass per Metre	2.97kg			
Bar Core Diameter	Ø21.7mm			
Major Bar Diameter	Ø23.6mm			
Cross Sectional Area	370mm ²			
Rolled Thread	M24 x 3.0mm Pitch			
Impact Toughness	19 Joules			

Key Features

- 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.
- 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 DSI Underground.
- 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.



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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.

Standard Lengths & 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

- Only DSI Underground rock bolt components should be used to enable the optimum performance of the bolt system to be obtained
- DSI Underground is Quality Assured to ISO 9001:2015

Typically used products with these items are:

	Products						
Product Group	Round Plate	Octo Plate	Butterflies	Resin			
Product Imagery		The state of the s					
Product Code Prefix	RD	OCP	BUTT	RO			

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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 "DSI Underground".







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