

MINOVA

# COAL BOLT

FULLY ENCAPSULATED ROOF & RIB BOLT



## DESCRIPTION

Minova's Coal Bolts provide strong, reliable ground support for mining. Each bolt has a rolled M24 x 3.0 mm thread and a ribbed surface for better load transfer. They come ready to use with an antifriction washer, dome washer, and 36 mm drive nut.

Available in standard "S" mild steel or extra high tensile "X" steel, with "X" offering extra strength in areas prone to stress corrosion. Multiple lengths, diameters, and pin options are available. For point anchoring applications, the bolts can be used with Minova's expansion shells, which hold firmly in both soft and hard rock.

The shells have sharp serrations for grip and come with a protective sleeve to save time and prevent part loss—just remove the sleeve before use. Corrosion protection, like hot dip galvanising or zinc plating, is also available.

## ADVANTAGES

- > Point anchored or fully encapsulated roof & rib bolting applications.
- > Extensive quality-controlled manufacturing
- > Enhanced load transfer.

## APPLICATION AND USES

Coal Bolts have been developed for use in point anchored or fully encapsulated roof and rib bolting applications. Primary use in coal mining operations.

Recommended for use in 27 – 29 mm diameter holes. For >30mm diameter holes, it is recommended to use Minova Secura bolt range.

## TECHNICAL PROPERTIES

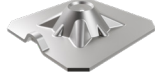

TYPICAL PROPERTIES	M24 X Grade	M24 S Grade
Nominal Rib Height Diameter (mm)	24	24
Nominal Cross-Sectional Area of the Bar (mm <sup>2</sup> )	370	370
Yield Stress (Strength MPa)	650	340
<sup>1</sup> Yield Force Diameter (MT)	24.6	12.8
Tensile Stress (Strength MPa)	890	490
<sup>2</sup> Tensile Force Typical (MT)	33.7	18.6
Elongation (%) 5D	19	27
Mass per metre – Bar (kg/m)	3	3

<sup>1</sup> Yield Force and <sup>2</sup> Tensile Force values are calculated on the nominal cross-sectional area of the bar as provided by the steel supplier

## SUPPORTING PRODUCTS

### Plates

Minova can supply a comprehensive range of plates for use with Coal bolts. Plates most typically used with Coal bolts are:

PLATE NAME	DIMENSIONS (mm)	IMAGE
CROWN PLATE	150 x 150 x 5 200 x 200 x 5 200 x 200 x 6	
STRATA PLATE	280x300x1.8	

## PACKAGING & TRANSPORTATION

Packaged in bundles of 50 with the option to plastic wrap and strap washer, nuts, and threads. Bundles of 60 are also available where required. Individual bolt lengths are visually identifiable by a coloured dome washer on each bolt.

## APPROVALS & CERTIFICATES

PRODUCT STANDARDS	M24 X GRADE	M24 S GRADE
Steel Bar	HSAC840 Equivalent	AS/NZS 3679.1-300
Galvanizing	AS4680	AS4680
Bar Straightness	AS 1442-1991	AS 1442-1991

## TECHNICAL SUPPORT

We provide technical advisory service by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

## MANUFACTURER

### Minova Australia Inc

An ISO 9001:2015

Quality Management Certified Company

Certificate No. FM 689118



## CUSTOMER SERVICE

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