

MINOVA

# MECHANICAL / EXPANSION SHELL BOLT



## DESCRIPTION

The Mechanical / Expansion Shell Bolt provides support by the suspension method. The mine roof is effectively suspended by anchoring the different layers of strata together. Anchorage is accomplished with the assistance of an expansion shell. The Mechanical / Expansion Shell Bolt is tensioned during installation, which sets the expansion shell against the borehole wall. Mechanical / Expansion Shell Bolts are offered with a standard expansion shell or bail style expansion shell.

## INSTALLATION PROCEDURES

1. Drill hole at proper diameter.
2. Drill hole depth to 2" longer than the bolt.
3. Insert Mechanical Bolt and Bearing Plate to within 1/16" to 1/8" of roofline.
4. Rotate bolt using drill pre-set to proper torque. Bearing Plate should be tight against roof.

## TECHNICAL PROPERTIES

BAR DIAMETER & GRADE	MIN YIELD	MIN TENSILE	BOREHOLE	INSTALLATION TORQUE
5/8" Gr75	17,000 lbs	22,600 lbs	1", 1-3/8"	125 - 250
3/4" Gr75	25,100 lbs	33,400 lbs	1-3/8"	175 - 300
7/8" Gr75	34,700 lbs	46,200 lbs	1-3/8"	250 - 375

## 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

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