

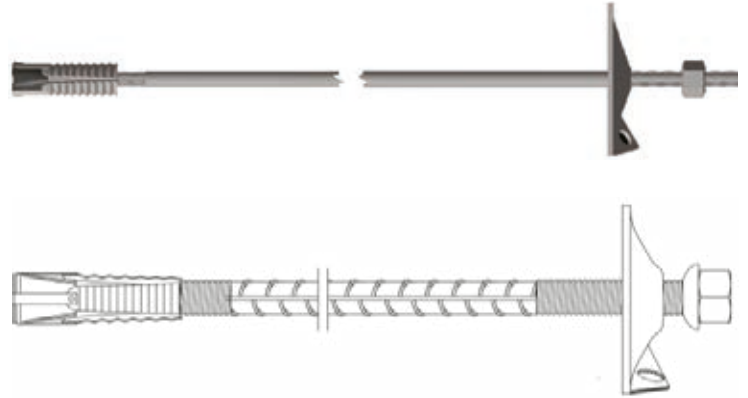
Mechanical Anchor Bolt

The mechanical anchor bolt is typically used when there is an additional support needed on the rock face. The anchor is commonly used in conjunction with wired mesh and other support sheeting to secure into place. No grout or resin is needed for installation.

Standard equipment can be used in making the anchor installation user friendly. Grouting is possible with the addition of grout feed and breath pipes.

Features

- Standard hex nuts for installation
- Washer as required
- Expansion unit for appropriate drill size
- Standard bar sizes are 14.5 [mm] and 16 [mm] but are available for larger diameter bars upon request



With the use of the expansion shell, the mechanical anchor is easy to install. The expansion unit, once installed, locks into place assuring no movement occurs on the anchor.

- 3-leaf shell
- 32, 35 expansion shells available, dependant on the bar diameter

Mechanical Anchor

Flat plates for general use

Bar Diameter [mm]	Technical Data		
	Smooth 14.5	D16	D18
Min. yield strength [MPa]	450	500	500
Min. ultimate tensile strength [MPa]	590	700	700
Min. ultimate tensile load [kN]	97.3	140	178
Calculated shear strength [kN] ¹⁾	58	84	124
Cross sectional area [mm ²]	165	200	254
Thread	DIN405 Rd16	DIN405 Rd18	DIN405 Rd20
Elongation [%]	19	20	20

1) Shear values calculated at 60 [%] of U.T.S

Expansion Shell	Min. Hole Size	Max. Hole Size
[-]	[mm]	[mm]
32	32.5	38
35	35.5	41
38	38.5	44
43	43.5	49

