

Self-Drilling Bolt Technologies

Faster installation, ideal in broken ground conditions

Overview

Self-Drilling bolts (also known as Self Drilling Anchors or SDAs) are versatile and offer an efficient way to rock bolting in projects. Ideal in unstable ground conditions, the bolt acts as a drill string that remains in the hole after drilling. The bolt is post grouted to secure the bolt in position. The bar can be extended by using couplings where deeper tendons are required for securing ground, replacing cable technologies, especially in unstable ground conditions.

Typical ground situations

- Where fractured or broken ground is present
- Where boreholes close or move post drilling
- Consolidated rock, where productivity is required
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Typical Applications

- Rock bolting
- Spiling in tunnels
- Face stabilisation
- Slope stability
- Piling and foundations
- Underpinning
- Construction pits

Indicative Values

Rope Thread	R25	R32	R38	R51
Ultimate Loads (kN)	200	250 to 400	500 to 764	800 to 960
Yield (kN)	150	200 to 300	400 to 660	550 to 950
Weight (kg/m)	2.3	2.75 to 4.1	4.8 to 6.0	6.3 to 9.0

The values above are indicative. Sizes R32, R38 and R51 have a range of technical specifications, reflecting the various options within each group.

Products are available in larger diameters and can have either a 'R' thread or 'T' thread.

Accessories include:

- Couplings
- Adapters
- Centralisers
- Drill bits
- Plates and nuts