

MINOVA

SELF DRILLING ANCHOR

ONE-STEP DRILLING AND GROUTING



DESCRIPTION

The SDA Spring Lock keeps Self Drilling Anchors firmly in place within vertical holes, allowing for effective resin injection or grouting. It is positioned between the drill bit and the shoulder of the anchor, requiring no additional tools for installation.

Use one SDA Spring Lock for every 3-meter segment of Self Drilling Anchor.

The anchor bar is manufactured with an ISO 10208 compliant left-hand thread profile and is available in lengths ranging from 1 m to 4 m, ensuring compatibility with standard drilling equipment and flexible application across varying ground support requirements.

The anchor bar can be extended using couplers. Couplers ensure safe connection of the anchor bars to optimally transfer the impact energy.

The nuts compensate for deviations of the borehole angle with respect to the plate surface and the plates ensure firm seating of the nut.

The sacrificial drill bits significantly improve the installation process.

Corrosion resistance options include hot dip galvanising and additional epoxy coating options.

ADVANTAGES

- > Efficient and cost-effective reinforcement solution
- > Installation with Minova's Carbothix® pumpable and Conbex HT grout for improved cycle times
- > Ideal for weak, unstable, or cracked ground conditions
- > Ideal replacement for cable bolt's, improving equipment utilisation and cycle times

APPLICATION AND USES

Primary use is strata reinforcement as alternatives to conventional rock bolting systems. When coupled together, SDA's provide an efficient alternative to long tendon support. Ideal for use in poor ground conditions and spiling applications.

TECHNICAL PROPERTIES

SDA BOLT	R32N		R32N CONVERGENCE BOLT	R28N	R25N	R38N	
Outside Diameter (mm)	32	32	32	28	25	38	38
Internal Diameter (mm)	< 18mm	< 20mm	< 18mm	15	12	21	19
Ultimate Load (kN)	280	280	280	260	200	500	500
Yield Load (kN)	230	230	230	200	150	400	400
Weight (Kg/m)	3.2	2.9	3.2	2.9	2.3	4.8	5.5
Elongation	Min. 8%						

SUPPORTING PRODUCTS

Plates

Minova can supply a comprehensive range of plates for use with self-drilling anchors. Typical plates used are:

DESCRIPTION	IMAGE
200 x 200 x 10 /12mm	
150 x 150 x 10mm	

SDA Couplings

Minova supply a range of couplers to enable the joining of self-drilling anchors together, extending the depth of reinforcement. Typical couplers supplied are:

DESCRIPTION	IMAGE
OD 36mm x 150mm	
OD 42mm x 160mm	
OD 52mm x 200mm	
OD 63mm x 200mm	

Drill Bits

Minova supplies a range of drill bits for varying ground conditions. Drill bits are selected to allow self-drilling anchors to be coupled together, extending the depth of reinforcement. Typical drill bits for use in hard rock mining include:

DESCRIPTION	IMAGE
Hardened / TC Cross Bits (EX/EXX)	
Hardened / TC Button Bits (ES/ESS)	
D51 / D64 / D76	

Contact Minova for the complete range

DISCLAIMER

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Nuts

Minova supplies a range of nuts for different applications. Examples of nuts supplied include:

LENGTH (mm)	IMAGE
AF 45 x 45mm	
AF 41 x 35mm	
AF 50 x 60mm	

PACKAGING AND TRANSPORTATION

As a standard practice, SDA are packed in bundles of 50 pcs, and accessories are packed in wooden/corrugated box. Other packaging options available on request.

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 Runaya Pvt Ltd
 An ISO 9001:2015
 Quality Management Certified Company
 Certificate No. GSCI-IN/QMS/2024/007

CUSTOMER SERVICE

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