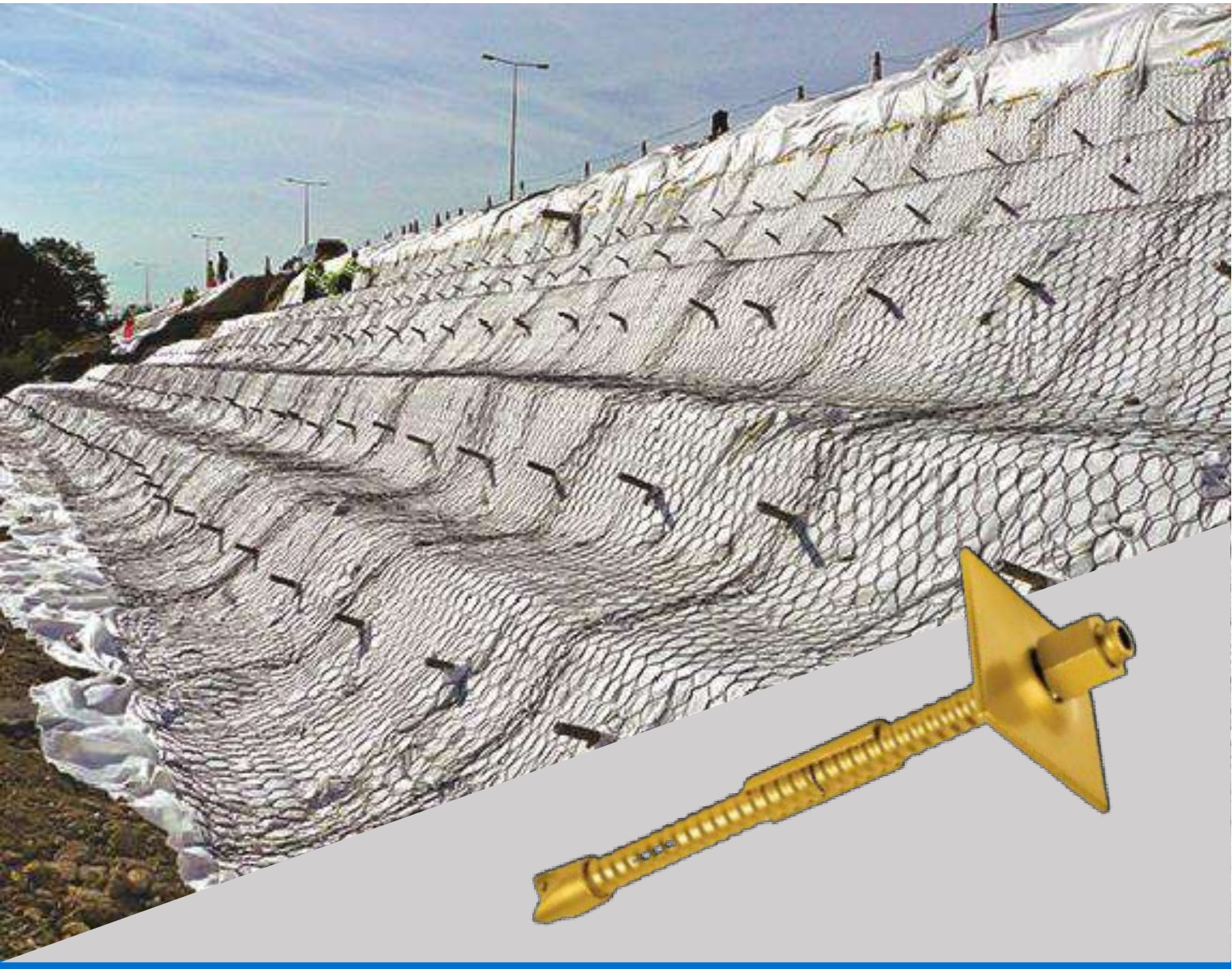
MEGABolt-SDA

Self-Drilling Anchor Bolts and Accessories



• Hollow Bar

PRODUCT BY

ARGENTIUM

Description

MEGABolt-Self-Drilling Anchor (SDA) is a bolting solution for unstable ground conditions such as sand, gravel, silt, and clays, and in soft to medium fractured rock formations. For projects facing such ground conditions, MEGABOLT-SDA self-drilling anchors should be considered as the main productivity solution.

Applications

The basic application of MEGABolt SDA is for use in soil conditions where there is a risk of the drill hole collapsing due to pulling out of drill bit, as in the classical anchor installation process. The MEGABolt system is suitable for a variety of different rock conditions and our drill bits are available in various diameters.

The MEGABolt SDA system can be deployed for various simultaneous drilling and grouting purposes including:

- Slope stabilization
- Strengthening of existing retaining wall
- Foundations with micropiles
- Soil Nailing
- Face stabilization
- Temporary support anchoring

Advantages

- High rate of installation since drilling, placing and grouting is performed in a single operation.
- Eliminates the requirement for a cased borehole.
- Minimal loss of shear resistance.
- Decreased labor and material costs

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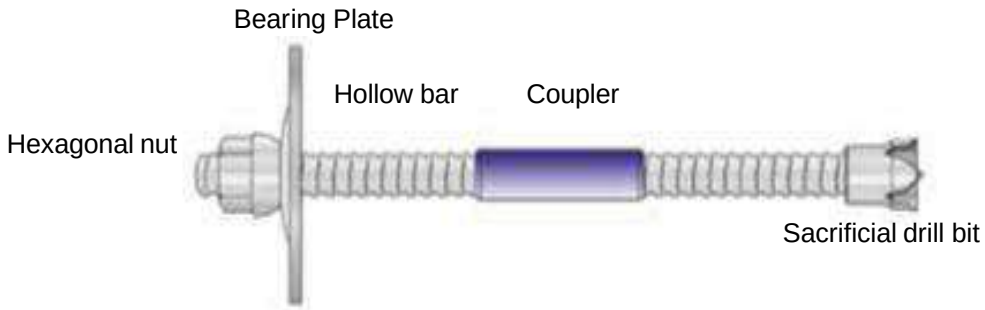
Technological Features

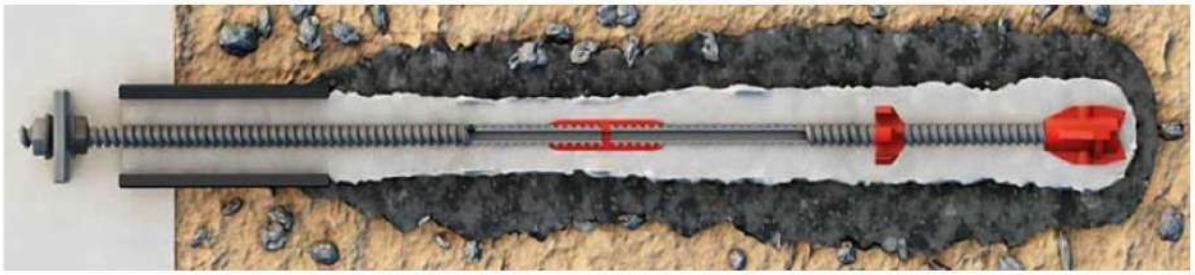


MEGABolt's **Self-Drilling** anchor bar system comprises:

- Cold threaded hollow bar in a variety of diameters
- Hexagonal nuts
- Bearing plate
- Drills bits
- Extension couplings
- Sacrificial drill bit

The **hollow anchor** features a hollow bore to allow for simultaneous drilling and grouting. The rod is made of a hollow steel tube with an outer round thread. The **extension coupling** features a patented design that enable direct transmission between each bar reducing losses. **Bearing plates** are forged steel plates with a center hole. The **hexagonal nuts** are manufactured from high precision steel with chamfered edges on both ends and tempered to meet the stringent demands on anchor specifications.

Steel tube has the sacrificial drill bit at one end and the corresponding nut with a steel end plate. Our SDA are used in a way that hollow steel bar (rod) has a corresponding sacrificial drill bit on its top instead of a classic drill bit. The coupler guarantees a consistent grout cover around the hollow steel bar and that the bar remains in the center of the drilled hole.



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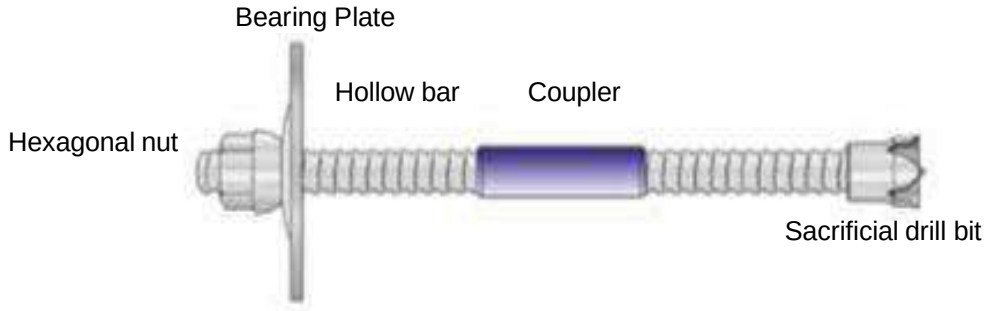
Technical Specifications



		R25	R32			R38	R51		T76	
	Units	**R25N**	**R32N**	**R32/18**	**R32S**	**R38N**	**R51L**	**R51N**	**T76N**	**T76S**
Hollow Bar										
Outer Diameter	mm	25	32	32	32	38	51	51	76	76
Internal Diameter	mm	12	20	18	17	21	36	33	51	45
Cross-Sectional Area	mm2	292	363	408	440	717	776	993	1835	2400
Ultimate Tensile Load	kN	200	280	280	360	500	550	800	1600	1900
Yield Load	kN	150	230	230	280	400	450	630	1200	1500
Coupler										
Diameter	mm	36	42	42	42	51	63	63	95	95
Length	mm	150	145	145	190	220	140	190	200	200
Hexagonal Nut										
Key Size	mm	41	46	46	46	50	75	75	100	100
Length	mm	35	45	45	65	50	70	70	80	80
Bearing Plate										
Dimensions	mm	150x150	150x150	200x200	200x200	200x200	200x200	250x250	250x250	250x250
Thickness	mm	8	8	10	12	12	30	40	40	60
Hole Diameter	mm	30	35	35	35	41	60	60	80	80

Grade of steel – **EN10083-1**
Corrosion Protection Options – Epoxy coating / Hot Dip Galvanisation

Drill bit varieties include:

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