

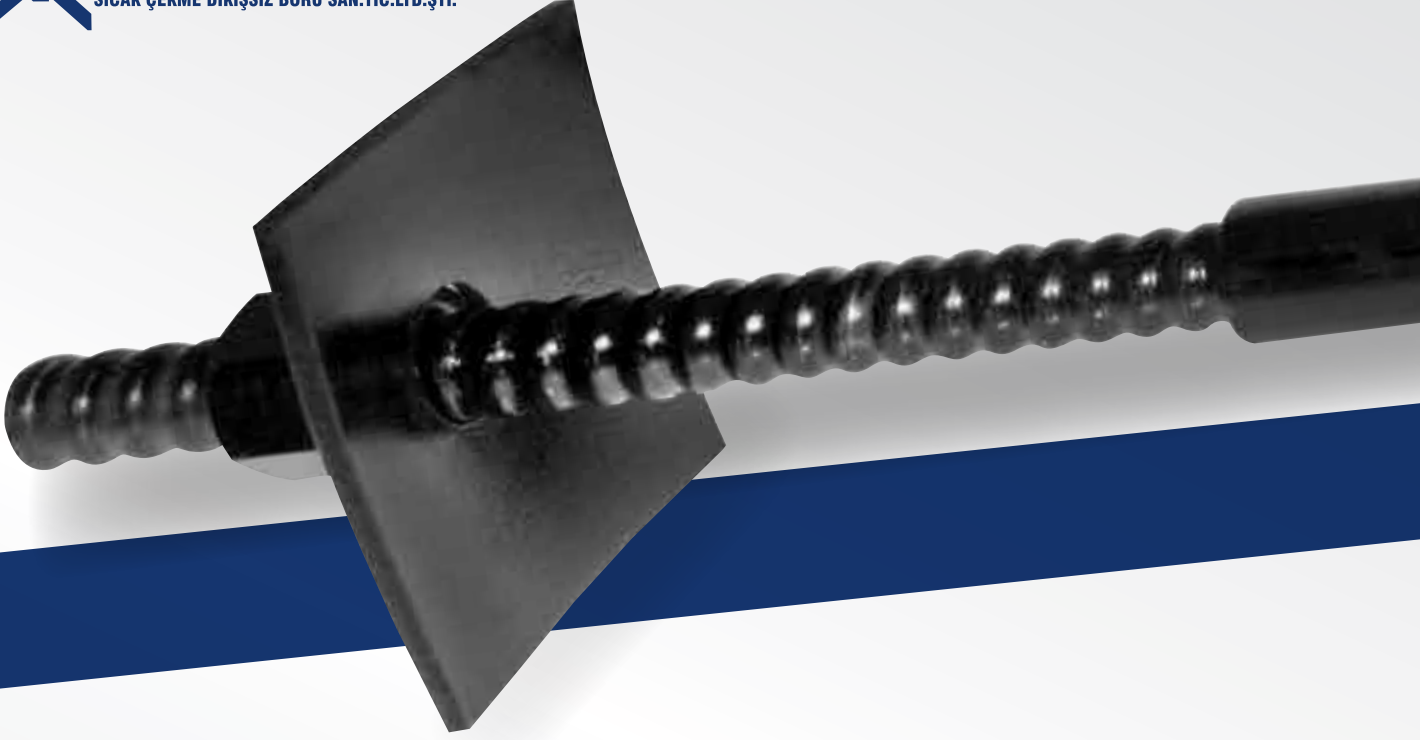
Self Drilling

Anchor-Bolts

The only
manufacturer
in TURKEY



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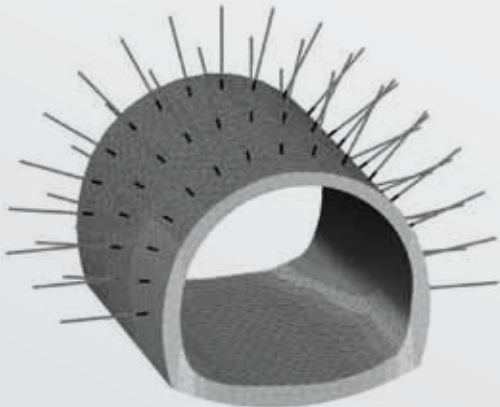


The most effective solution used in bolting is the “Self Drilling Bolting” system is defined in the international market as ‘Self Drilling Anchor-Bolts’.

It is a unique solution for the hard and fractured rock formations and floating grounds like gritty, clayish, mellow and nonhomogeneous soil volumes.

APPLICATION AREAS

- Reinforcement of the poor bearing soils in the tunnels
- As rock bolting
- Tunnel face reinforcement (face bolting)
- Tunnel entrance reinforcement
- Tunnel foot piles
- Tunnel portals, ditches, cutting and gate areas
- The reinforcement of the excavation paths, dams and slopes
- The reinforcement of the retaining walls and noise barriers
- Piling and pinning piles
- Avalanche prevention barriers



THE PROPERTIES AND BENEFITS

- Self drilling bolting is manufactured by boring with the cold rolling method a round screw to the external side of the piles manufactured with hot set method according to the API standards.
- The round screw makes the mounting of the drilling bit, coupling and nuts easy because of its form. Thanks to its form, it is also increases the adhesion performance of the concrete to the bolt.
- To execute the drilling and injection processing in one stage shortens the anchorage time per hole in half.
- The boring process is implemented with disposable cheap bits instead of high priced boring bits.
- It is the ideal system for filling the injection process beginning from the far edge till the hole opening excellently.
- Because of its easy extendable feature it enables to make deeper and easier anchorage rather than the other anchorage systems. It provides the opportunity to make drilling and injection up to 30 m depth by using coupling.
- There will be no need for using pre-pore drilling and anchorage pipes as used in the other anchorage systems. It also procures the stabilization of the holes during the drilling.
- It is providing making robust anchorage minimum volume and optimises the labour and machine power demands.
- The appropriate system according to the tensile strength required for the project can be constituted due to its production in different sections and diameters.

Self Drilling Anchor-Bolts

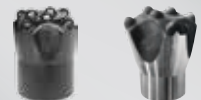
SELF DRILLING ANCHOR-BOLTS	R-32 N	R-32 S	R-38 N	R-51 N
OUTER DIAMETER (mm)	32	32	38	51
INNER DIAMETER (mm)	18,5	15	19	33
CROSS SECTIONAL AREA (mm ²)	396	488	717	939
ULTIMATE LOAD (kN)	280	360	500	800
YIELD LOAD (kN)	230	280	400	630
WEIGHT (kg)	3,4	4,1	6	8,4
THREAD TYPE	ISO10208			



CROSS EX ANCHOR DRILL BIT D51	R-32 N	R-32 S	R-38 N	R-51 N
OUTSIDE DIAMETER (mm)	51	51	74	115
UNIT WEIGHT (kg)	0,42	0,42	1,02	2,3
THREAD TYPE	ISO10208			



BUTTON ES-F ANCHOR DRILL BIT D51/D64	R-32 N	R-32 S	R-38 N	R-51 N
OUTSIDE DIAMETER (mm)	51/64	51/64	-	-
UNIT WEIGHT (kg)	0,44/0,67	0,44/0,67	-	-
THREAD TYPE	ISO10208			



EXTENSION COUPLING	R-32 N	R-32 S	R-38 N	R-51 N
OUTSIDE DIAMETER (mm)	42	42	51	63
LENGTH (mm)	145	190	220	190
UNIT WEIGHT (kg)	0,8	1	1,7	1,9
THREAD TYPE	ISO10208			



CROSSOVER COUPLING (L170mm/L500mm)	R-32 N	R-32 S	R-38 N	R-51 N
OUTSIDE DIAMETER (mm)	55/55	55/55	55/55	-
LENGTH (mm)	170/500	170/500	170/500	-
UNIT WEIGHT (kg)	2,2/7,7	2,2/7,7	2,2/7,7	-
THREAD TYPE	ISO10208			



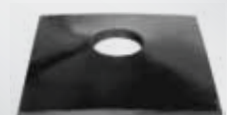
ANCHOR NUT	R-32 N	R-32 S	R-38 N	R-51 N
KEY SIZE (mm)	46	46	50	75
LENGTH (mm)	45	45	50	70
UNIT WEIGHT (kg)	0,4	0,4	0,48	1,6
THREAD TYPE	ISO10208			



ANCHOR SPHERICAL NUT	R-32 N	R-32 S	R-38 N	R-51 N
KEY SIZE (mm)	46	46	-	-
LENGTH (mm)	37	37	-	-
UNIT WEIGHT (kg)	0,4	0,4	-	-
THREAD TYPE	ISO10208			



ANCHOR PLATE	R-32 N	R-32 S	R-38 N	R-51 N
SIZE (mm)	200x200	200x200	200x200	250x250
THICKNESS (mm)	10	12	12	40
HOLE DIAMETER (mm)	35	35	41	60
UNIT WEIGHT (kg)	3,1	3,7	3,6	18,5





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