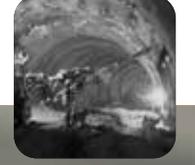


MOYAGROUP



*Providing
Excellence
through*

DEDICATION
TO STATE OF
**THE ART
TECHNOLOGY**



▶ armosan.com.tr ▶ moyagrup.com





COMPANY HISTORY

MOYA Group is facing a dynamic future.

Throughout the country, we are witnessing growing momentum and major investments in construction and infrastructure. Significant projects are emerging in the field of infrastructure including the Turkey.

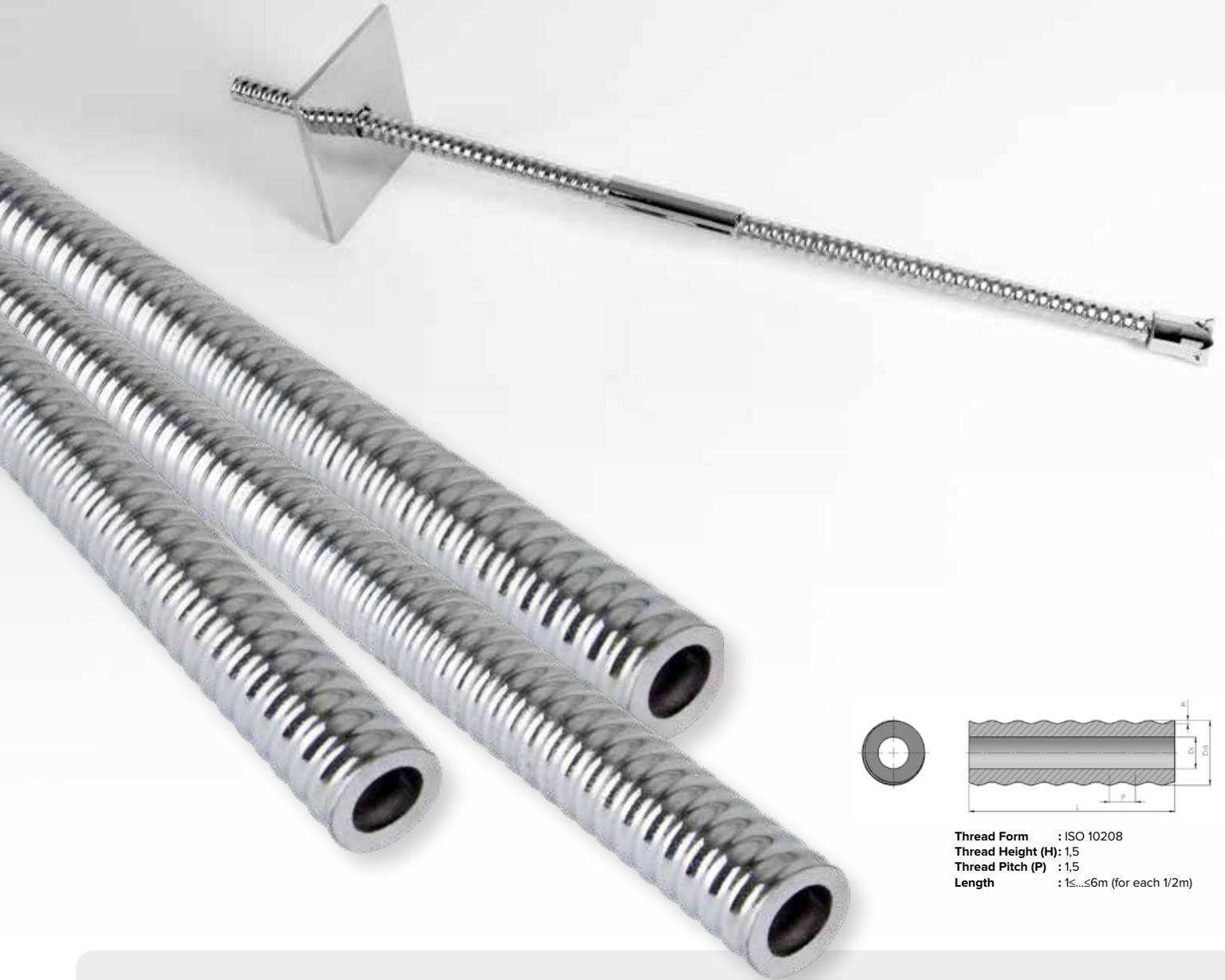
Such projects substantially reflect the increasing scope of complex development works already in progress and also those in future planning stages.

Spurred by the above momentum, MOYA Group a leading company in the field of tunnel support equipment and infrastructure construction in Turkey, has chosen to utilize its professional know-how and experience also to establish ARMOSAN, its subsidiary company specialized in production of "Self Drilling Anchor-Bolts" and has added this value to increase the quality level, which were previously imported.

ARMOSAN is destined to take a leadership position in emerging construction developments, to improve existing know-how and to contribute to raising the standard to meet the high quality requirements of our partners.

▶ PRODUCTS

▶ ANCHOR BOLTS



Thread Form : ISO 10208
Thread Height (H): 1,5
Thread Pitch (P) : 1,5
Length : 1s...≤6m (for each 1/2m)

SELF DRILLING ANCHOR-BOLTS	R-32 L	R-32 N	R-32 S	R-32 SS	R-38 L	R-38 N	R-38 S	R-51 L	R-51 N	R-51 S
OUTER DIAMETER (mm)	32	32	32	32	38	38	38	51	51	51
INNER DIAMETER (mm)	19,5	18,0	13,0	11,5	21	18,5	16,5	33,5	32,5	29
CROSS SECTIONAL AREA (mm²)	380	430	520	560	635	760	800	850	970	1140
ULTIMADE LOAD (kN)	250	280	360	400	430	500	550	550	660	800
YIELD LOAD (kN)	190	230	280	330	350	400	450	450	540	630
WEIGHT (kg)	3,1	3,4	4,1	4,5	5,5	6,0	6,5	7,0	8,4	9,0
THREAD TYPE	ISO10208									

► STEEL & TUNGSTEN CARBIDE ANCHOR DRILL BITS

CROSS EX / EXX ANCHOR DRILL BIT D51	R-25/41	R-32/51	R-32/64	R-32/51	R-32/76	R-38/76	R-51/110
CROWN DIAMETER (mm)	41	51	64	51	76	76	110
UNIT WEIGHT (kg)	0,36	0,41	0,64	0,41	1,24	1,22	2,70
THREAD TYPE	ISO10208						

BUTTON ES-F ANCHOR DRILL BIT D51/D64	R-32/51	R-32/64	R-32/76	R-38/76
CROWN DIAMETER (mm)	51	64	76	76
UNIT WEIGHT (kg)	0,41	0,64	1,22	1,24
THREAD TYPE	ISO10208			



▶ PRODUCTS

▶ COUPLINGS

EXTENSION COUPLING	R-28	R-32	R-38	R-51	T-60	T-76	T-90
OUTSIDE DIAMETER (mm)	38	42	51	63 & 70	77	95	108
LENGTH (mm)	150	150	200	200	200	200	200
UNIT WEIGHT (kg)	0,65	0,79	1,51	2,00	2,10	3,70	6,30
THREAD TYPE	ISO10208						

CROSSOVER COUPLING (L170 mm / L500 mm)	R-32 / T-38	R-32 / T-45	R-38 / R-38	R-32 / R-38	R-32 / R-32	T-38 / R-32	R-38 / R-32
OUTSIDE DIAMETER (mm)	All Possible Dimensions (32, 38, 45, 51, 76)						
LENGTH (mm)	170 / 500						
UNIT WEIGHT (kg)	2,2 / 7,7						
THREAD TYPE	ISO10208						



▶ NUTS and CENTRALIZERS

ANCHOR NUT	R-28	R-32	R-38	R-51	R-60	R-76	R-90
KEY SIZE (mm)	41	46	55	70	80	90	100
LENGTH (mm)	45	45	50	65	65	100	100
UNIT WEIGHT (kg)	0,29	0,40	0,49	1,53	1,35	2,00	2,48
THREAD TYPE	ISO10208						

CENTRALIZERS	R-28	R-32	R-38	R-51	R-60	R-76	R-90
OUTER DIAMETER (mm)	30 / 80	30 / 80	40 / 110	40 / 110	40 / 110	90 / 120	90 / 120

ANCHOR SPHERICAL NUT	R-32	R-38
KEY SIZE (mm)	46	55
LENGTH (mm)	45	50
UNIT WEIGHT (kg)	0,40	0,49
THREAD TYPE	ISO10208	



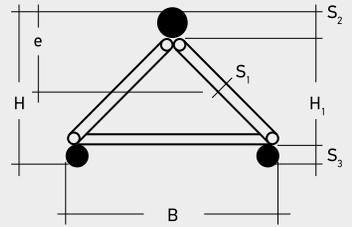
▶ ANCHOR PLATES

ANCHOR PLATE	
SIZE (mm)	All Sizes
THICKNESS (mm)	3-50
HOLE DIAMETER (mm)	All Diameters



▶ PRODUCTS

▶ LATTICE GIRDER MANUFACTURE



Lattice Girder Bar Material

Tensile Strength 80ksi (550 MPa) min.
Yield Strength 70ksi (480 MPa) min.
Elongation 10% minimum

Connecting Pin

ASTM A 325N \varnothing 3/1" minimum



► **PROFILE
 ARCH MANUFACTURE**

BENDING CAPACITY			
HPK 200		HPK 240	
SIZE	MIN. DIA.	SIZE	MIN. DIA.
200 x 50	3500	200 x 70	3800
350 x 80	2500	380 x 80	2500
120 x 120	3000	130 x 130	2500
Ø 120	3000	Ø 150	3000
Ø 273 x 5,6	10000	Ø 300 x 5,9	9000
Ø 9" x 6,3	4000	Ø 10" x 9,27	5000
220 x 80 x 7	7000	300 x 100 x 10	8000
180 x 10	5500	200 x 10	6000
200 x 200 x20	3000	200 x 200 x24	3000
200 x 200 x18	5000	200 x 200 x18	4000
200 x 20	3500	200 x 28	3000
200 x 20	3500	200 x 20	3500
200 x 20	4000	200 x 28	3000
UPN 380	3000	UPN 450	3000
UPN 380	3500	UPN 450	3500
IPN 360	3500	IPN 450	3500
HEB 240	3000	HEB 300	4000
UPN 260	12000	UPN 260	12000
IPN 260	10000	IPN 300	12000
HEB 180	6000	HEB 200	7000



▶ PRODUCTS

▶ UMBRELLA ARCH SYSTEM



Attached



Locked



PRODUCT NUMBER	DESIGNATION CODE	PRODUCT NUMBER	DESIGNATION CODE	PRODUCT NUMBER	DESIGNATION CODE
8092402214	P76/8-41-R32 PILOT	8092401737	P114/10-75-T38 PILOT	8092402721	P102/8-65-T38 PILOT
8092402215	P76/8-41-RING BIT SET	8092401735	P114/10-75-RING BIT SET	8092402722	P102/8-65 RING BIT SET
8092400954	P89/8-54-T38 PILOT	8092403843	P140/10-100-T45 PILOT	8092403633	P168/12.7-123-G2-DHD350 PILOT
8092400976	P89/8-54-RING BIT SET	8092403632	P140/10-100-RING BIT SET	8092403634	P168/12.7-123-G2 RING BIT SET

▶ ROCK BOLTS



Diameters Ø40, Ø32, Ø28, Ø26, Ø25, Ø24, Ø22, Ø20

Material All requested quality of rebar

L : Length of Rock Bolt
L1 : Length of Thread

D : Diameter of Rock Bolt
D1 : Diameter of Thread

ORDER NUMBER	L (m)	L1 (mm)	D (mm)	D1 (mm)	NUT
RB263M	3	120	26	M24 DIN934	M24 DIN934
RB264M	4	120	26	M24 DIN934	M24 DIN934
RB266M	6	120	26	M24 DIN934	M24 DIN934
RB2612M	12	120	26	M24 DIN934	M24 DIN934
RB323M	3	120	32	M30 DIN934	M30 DIN934
RB324M	4	120	32	M30 DIN934	M30 DIN934
RB326M	6	120	32	M30 DIN934	M30 DIN934
RB328M	8	120	32	M30 DIN934	M30 DIN934
RB3212M	12	120	32	M30 DIN934	M30 DIN934
RB404M	4	120	40	M36 DIN934	M36 DIN934
RB406M	6	120	40	M36 DIN934	M36 DIN934
RB408M	8	120	40	M36 DIN934	M36 DIN934
RB4012M	12	120	40	M36 DIN934	M36 DIN934

▶ CNC PLASMA PLATE CUTTING

Thickness Min. 3 mm - Max. 50 mm

Dimensions All dimension according to the project.

Material All requested quality of steel sheet.



▶ PRODUCTS

▶ STEEL CONSTRUCTION

ALWAYS THE BEST SERVICE

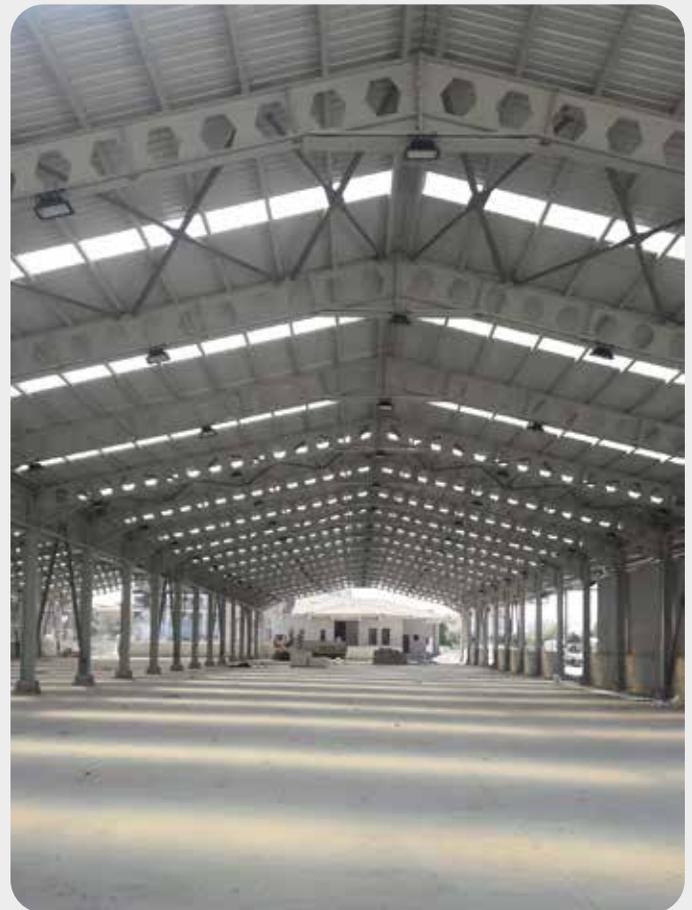
- All production at our facility is performed by using fully automatic machines.
- Loss of time and costs during production are minimized, thanks to a well-equipped machinery.
- All details are carefully revised and precise delivery as well as the installation of the products are provided.



► STEEL CONSTRUCTION

OUR SERVICES

- Steel Structural Works
- Engineering
- Project Management
- Steel Manufacturing and Installation

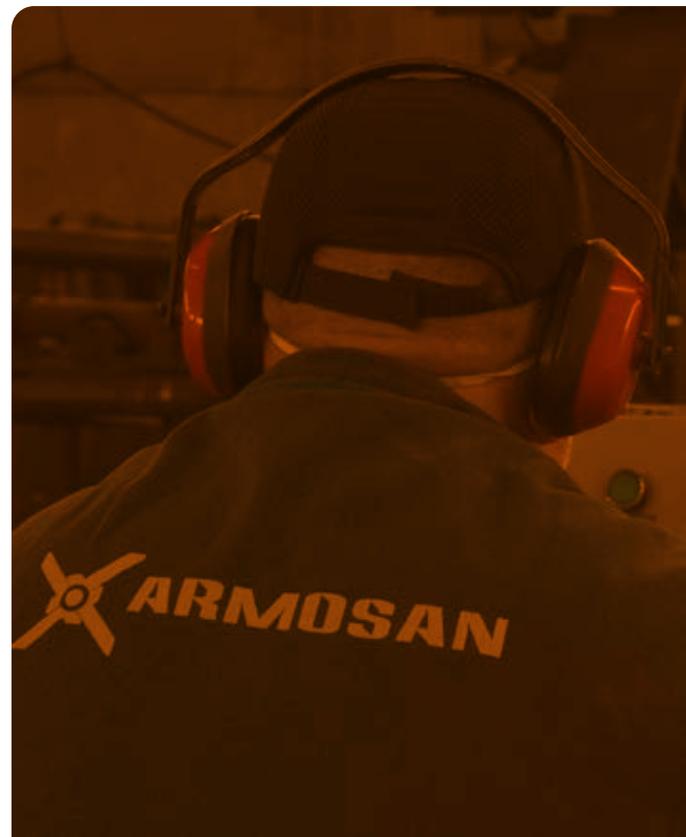


WHY US?

- Self-drilling bolt is manufactured in a way that pipes manufactured with hot-drawing method in accordance with API standards are drilled rounded screw outside with cold-rolling method.
- It provides convenience in installation of drill bit, nipple and nut thanks to its rounded screw form. By this means, it increases adhesion performance of concrete to bolt.
- Doing drilling and injection processes at one go without changing equipment decreases anchoring time for each hole half-and-half.
- Without needing high priced drill bits, it performs drilling process with low priced bits.
- It is the most ideal system for filling up injection excellently starting from the edge to the mouth of hole.
- It enables to anchor more deeply and quickly due to its easily addable feature in comparison to other anchoring systems. It enables to drill and inject until 30 meter's by using nipples.
- As it is in other anchoring systems, there is no need for drilling pre-pore and using anchor pipe. It provides stabilization of hole during drilling.
- It provides to make strong anchor in the least volume. It optimizes needs for man and machine power.
- Because it is able to be produced in different sections and diameters, a system appropriate for tensile strength required by the project can be formed.

CURRENT BUSINESS MIX

- Majority of business comes from Global Tunneling companies.
- Underground mining.
- Repair.
- Total and General contractor are strategically important to keep financial balance in different economic conditions.





DESIGN & ENGINEERING

- 'Self drilled bolting' system used as the most efficient solution to bolting; is defined as 'Self Drilling Anchor-Bolts' in international market.
- It is a unique solution for hard and fractured rock formations and unstable bases like gravelled, clayey, soft and non-homogeneous soil volumes.



QUALITY POLICY

- Quality is ARMOSAN's fundament and determinant of all our actions.
- Systematic, methodical problem solving approach.
- Our partner's confidence in our quality approach is the main driver of our market success.



MOYAGROUP



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