MEGABolt-PT Bar

Post Tensioning Bar Systems

Product by
ARGENTIUM

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Product Overview

The MEGABolt-PT Bar system provides a simple, rugged method of efficiently applying prestress force to a wide variety of structural applications including post-tensioned concrete, as well as rock and soil anchor systems.

Available in various sizes, The MEGABolt-PT Bar prestressing steel has a continuous rolled in pattern of thread-like deformations along its entire length. More durable than machined threads, the deformations allow anchorages and couplers to thread onto the MEGABolt-PT Bar at any point.

For enduring projects such as linking different sections of bridge structures, shear keys for seismic resilience, connecting segments or girders, and fortifying piers.

For provisional projects like anchoring temporary steel frame supports, employing lifting bars for segment launching trusses, and stitching bridge segments together. Our post-tensioning collection encompasses fully-threaded bars, accompanied by a comprehensive selection of accessories. A specialized design team is at your disposal to offer dedicated engineering support.

Corrosion protection can be achieved by the application of a heat shrink sleeve, grease, paint, grout, or a combination of these.

Benefits

01 Bars and accessories can be reused, and it is advised to limit their reuse to a maximum of 10 times. This recommendation assumes that each component is new and maintains good condition after initial use. The actual reuse rate should be determined and verified by the Engineer based on the specific conditions of each component on the site and its application.

02 The system is designed to be cut at the site as needed.

03 The continuous thread design allows for connection at any point.

04 The wide pitch, particularly well-suited for swift installation and temporary applications.

05 Retensioning is possible without causing any damage.

06 We provide a comprehensive range of accessories, including those for corrosion protection.

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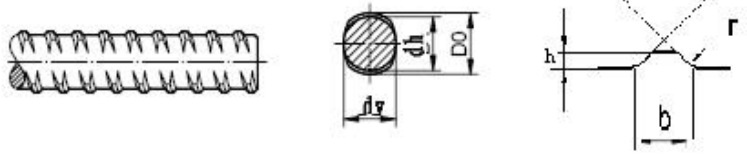
Technical Specifications

Prestressing Thread Steel Bar

Steel grade	Yield strength MPa	Tensile strength MPa	Elongation at failure A%	Uniform elongtion Agt%	Stress relaxation		
					Original stress	Relaxation rate after 1000h r/%	Ralaxation rate after 10r/%
PSB500	≥ 500	≥ 630	≥ 10		0.8R	≤ 3	≤ 1.5
PSB670	≥ 670	≥ 800	≥ 7				
PSB785	≥ 785	≥ 980	≥ 7	≥ 3.5			
PSB830	≥ 830	≥ 1030	≥ 6				
PSB930	≥ 930	≥ 1080	≥ 6				
PSB1080	≥ 1080	≥ 1230	≥ 6	≥ 2.5			

Full Force Nut and Spherical



Nominal Diameter mm	Dv mm	Dh mm	H mm	B mm	L mm	Nominal sectional area mm2	Nominal Weight Kg/M
15	14.4	14.7	1	4.2	10	176	1.47
18	18	18	1.2	4.5	10	254.5	2.11
20	20	20	1.3	4.8	10	314	2.47
25	25	25	1.6	6	12	490.9	4.1
32	32	32	2.0	7	16	804.2	6.65
36	36	36	2.2	8	18	1018	8.41
40	40	40	2.5	8	20	1256.6	10.34
50	50	50	3.0	9	24	1963.5	16.28
63.5	63	63.5	3.0	12	22	3167	26.5

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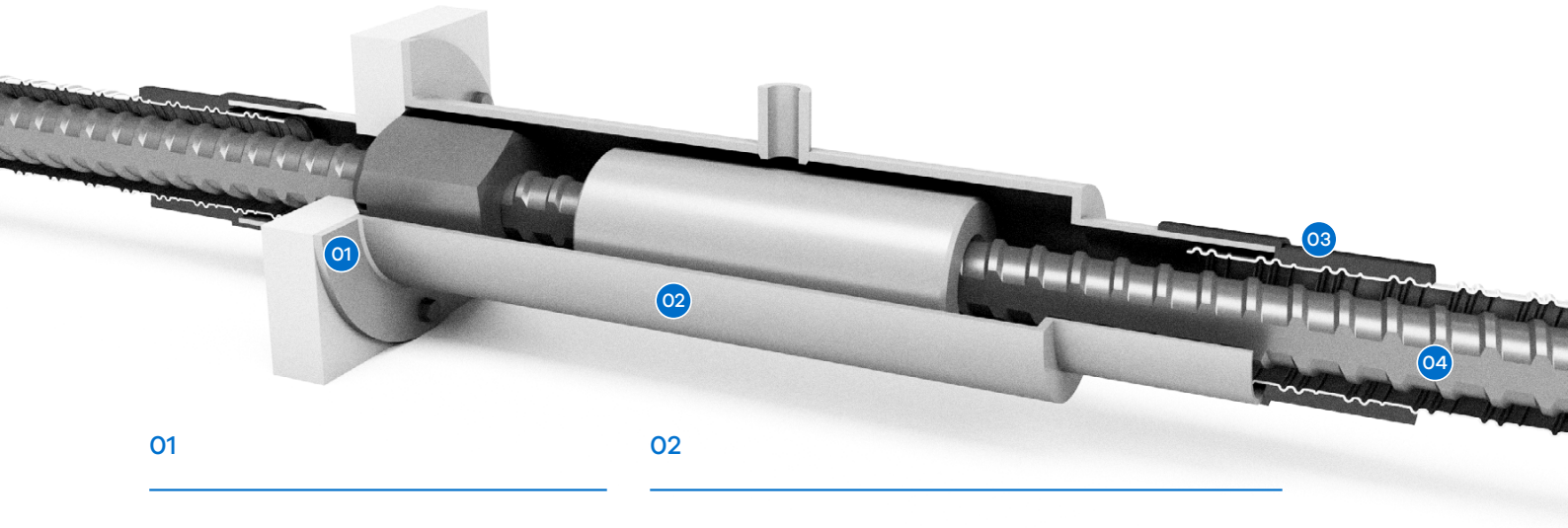
Corrosion Protection Accessories



01

Starter steel tube (welded to plate)

02

Protecting sleeve to cover nuts (end caps) or intermediary systems like nut + coupler as shown here.

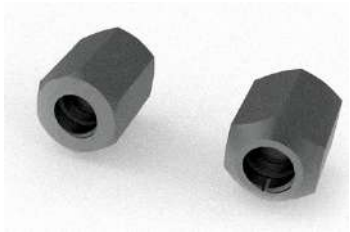
03

Galvanized steel sleeve to protect bar or plain HDPE tube.

04

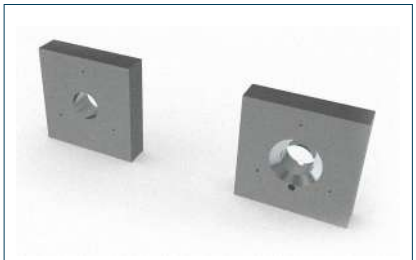
Heat-shrink / tape

Accessories and Complementary Products



Nuts

Coupler system



Bearing plates

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