

Minova ATB Plus Solid Bar

The Minova ATB Plus Steel Bar and accessories are high-strength reinforcement elements designed for use in demanding construction applications, such as high-rise buildings, retaining walls, foundation support and various infrastructure projects. The system provides smaller diameter bars with increased yield and ultimate strength to allow for the construction of slender yet stable structural elements, saving resources and costs. These bars are known for their robustness, ease of handling and widely used in construction projects worldwide due to their reliability and efficiency.



Available bar diameters and load capacities.

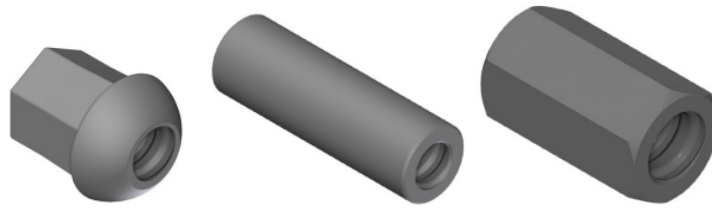
The Minova ATB plus bar system comprises continuous thread bars of various diametres as well as tested and approved anchorage elements and couplings.

Diameter Ø (mm)	Yield Load (kN)	Ultimate Load (kN)	Cross Section Area (mm ²)	Weight (kg/m)	Elongation A _{gt} (%)
Minova 670/800					
18	170	204	254	2.00	5%
22	255	304	380	2.98	
25	329	393	491	3.85	
28	413	439	616	4.83	
30	474	565	707	5.55	
35	645	770	962	7.55	
43	973	1162	1452	11.40	
50	1315	1570	1963	15.40	
57.5	1740	2077	2597	20.38	
63.5	2122	2534	317	24.86	
75	2960	3535	4418	34.68	

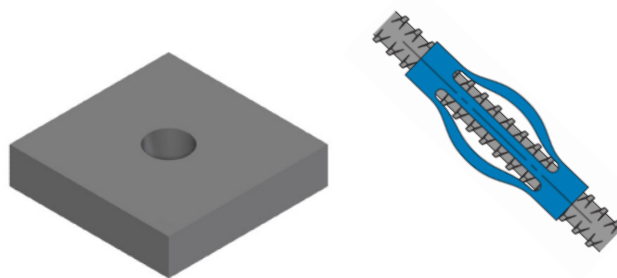
NOTE: Galvanising of bars and accessories in accordance with ISO1461:2009.

Accessories.

Nuts and Couplings full strength of bar.



Head Plates: Various sizes and designs available.
Spacers to suit bar and borehole.



Lokset Resin a two-component resin capsule used for fast and efficient bolting.
Turmag Hand Drill lightweight and often used for installing the bars into the resin capsule.



Minova is the 'one stop solution' for geotechnical projects, offering high-performance ground support and consolidation products that ensure safety, efficiency, and reliability in various applications.

For detailed information please contact your Minova representative.

Minova ATB 500 Solid Bar

The Minova ATB Steel Bar and accessories are widely used in geotechnical applications for soil nailing and ground anchoring. These bars are made from high-strength steel, typically conforming to the B500 grade, which ensures excellent tensile strength and durability. The thread bars are designed with a specific thread pattern that allows for secure anchoring in various soil types. Accessories such as couplers, nuts, and washers are used to connect and secure the bars in place, providing additional stability to the structure. The combination of high-strength steel and robust accessories makes the Minova ATB B500 a reliable choice for reinforcing soil and stabilising slopes in geotechnical engineering projects.



Available bar diameters and load capacities.

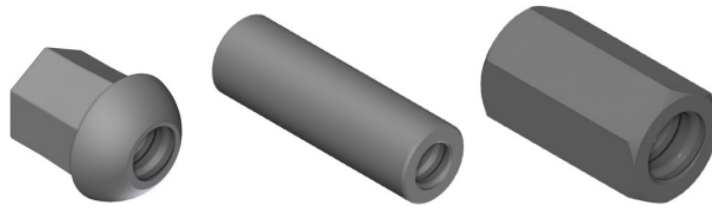
The Minova ATB bar system comprises continuous thread bars of various steel grades as well as tested and approved anchorage elements and couplings.

Diameter Ø (mm)	Yield Load (kN)	Ultimate Load (kN)	Cross Section Area (mm ²)	Weight (kg/m)	Elongation A _{gt} (%)
Minova 500/550					
20	160	175	314	2.47	6%
25	245	270	491	3.85	
28	310	340	616	4.83	
32	405	440	804	6.31	
36	510	560	1020	7.99	
40	630	690	1260	9.87	
43	726	799	1452	11.40	
50	980	1080	1960	15.4	
75	2209	2430	4418	34.7	
Minova 555/700					
57.5	1441	1818	2597	20.4	5%
65	1760	2215	3167	24.9	

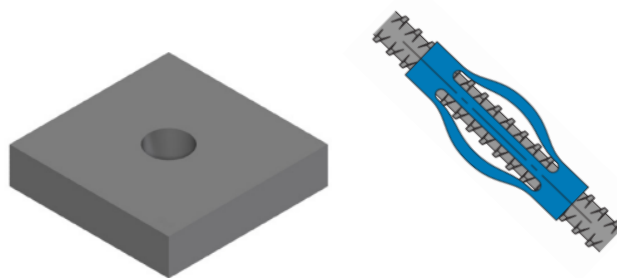
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Minova Post Tensioning System.

Minova post-tensioning bars are integral to modern post-tensioning solutions in bridge construction, structural engineering, and structural upgrades. This technique enhances the strength and performance of concrete structures, with high-strength steel bars, particularly the 950/1050 grade, playing a crucial role. These bars are specifically designed to withstand the high stress and tension applied during the post-tensioning process.

Due to the manufacturing process, Minova 950/1050 and 835/1035 steel bars, compared to standard steel bars, feature a distinct and well-defined yield point while possessing high strength and ductility. The material is heat treated, stretched, tempered, and hot-rolled with a continuous right-hand thread along its entire length. This continuous threading allows for easy cutting and installation, reducing construction time and labour costs.

Available bar diameters and load capacities.

The Minova post tensioning bar system comprises post-tensioning thread bars of the grade 950/1050N/mm² (835/1035N/mm² for diameters >57mm), as well as tested and approved anchorage elements and couplings.



Diameter Ø (mm)	Yield Load (kN)	Ultimate Load (kN)	Cross Section Area (mm ²)	Weight (kg/m)	Elongation A(%)
Minova 950/1050					
18	230	255	241	1.96	5%
26.5	525	580	551	4.48	
32	760	845	804	6.53	
36	960	1070	1020	8.27	
40	1190	1320	1257	10.21	
47	1650	1820	1735	14.1	
Minova 835/1035					
57	2155	2671	2581	20.95	4%
65	2780	3447	3331	27.1	
75	3690	4572	4418	35.9	

Accessories.

All accessories are designed for full load capacity.

<p>WR2001 domed nut 55° [ETA-05/0122]</p>		<p>WR2099 domed nut 55° with grouting slots [ETA-05/0122]</p>	
<p>WR2002 hex nut</p>		<p>WR2963 bull nose nut</p>	
<p>WR3003 coupler standard [ETA-05/0122]</p>		<p>WR3303 coupler long [ETA-05/0122]</p>	
<p>WR2011 anchor plate square [ETA-05/0122]</p>		<p>WR2012 anchor plate rectangular [ETA-05/0122]</p>	
<p>WR2074 QR plate [ETA-05/0122]</p>		<p>WR2076 solid plate rectangular small [ETA-05/0122]</p>	
<p>WR2139 anchor plate rectangular</p>		<p>WR1928 domed anchor plate rectangular</p>	