

IT500/555 Threaded Bar Systems

- Geotechnical
- Mining and tunneling
- Micropiles

IT500/555 Threaded Bar Systems

The IT500/555 Threaded Bar System is a reinforcing steel bar, with hot rolled deformations specially designed to form a thread along the entire length of the bar. T500/555 offers a competitive and economical alternative to standard rebar in any ground engineering or reinforced concrete application where threaded joints with couplers or nuts are required.

Features and benefits

- Can be used for both temporary and permanent design applications
- Durable robust threads allow splicing at any point along the bars length
- High bond strength with surrounding environment
- Components easy to install and test
- Can accommodate structural and non-structural face details



Description

IT500/555 is threaded along its entire length and can be cut on site as necessary and coupled. The thread form is a hot rolled intermittent thread of a coarse pitch. Bar diameters range from 16mm to 75mm providing a complete load range to engineers.

The standard stock is left hand thread and is available in lengths of up to 12.0m. The threaded bar can be hot dip galvanised to EN ISO 1461.

Typical applications

IT500/555 can be used for temporary or permanent works, conventional soil nails and rock bolts, as well as tension and compression micropiles. The system can also be used in tension, as ground anchors and tie bars.

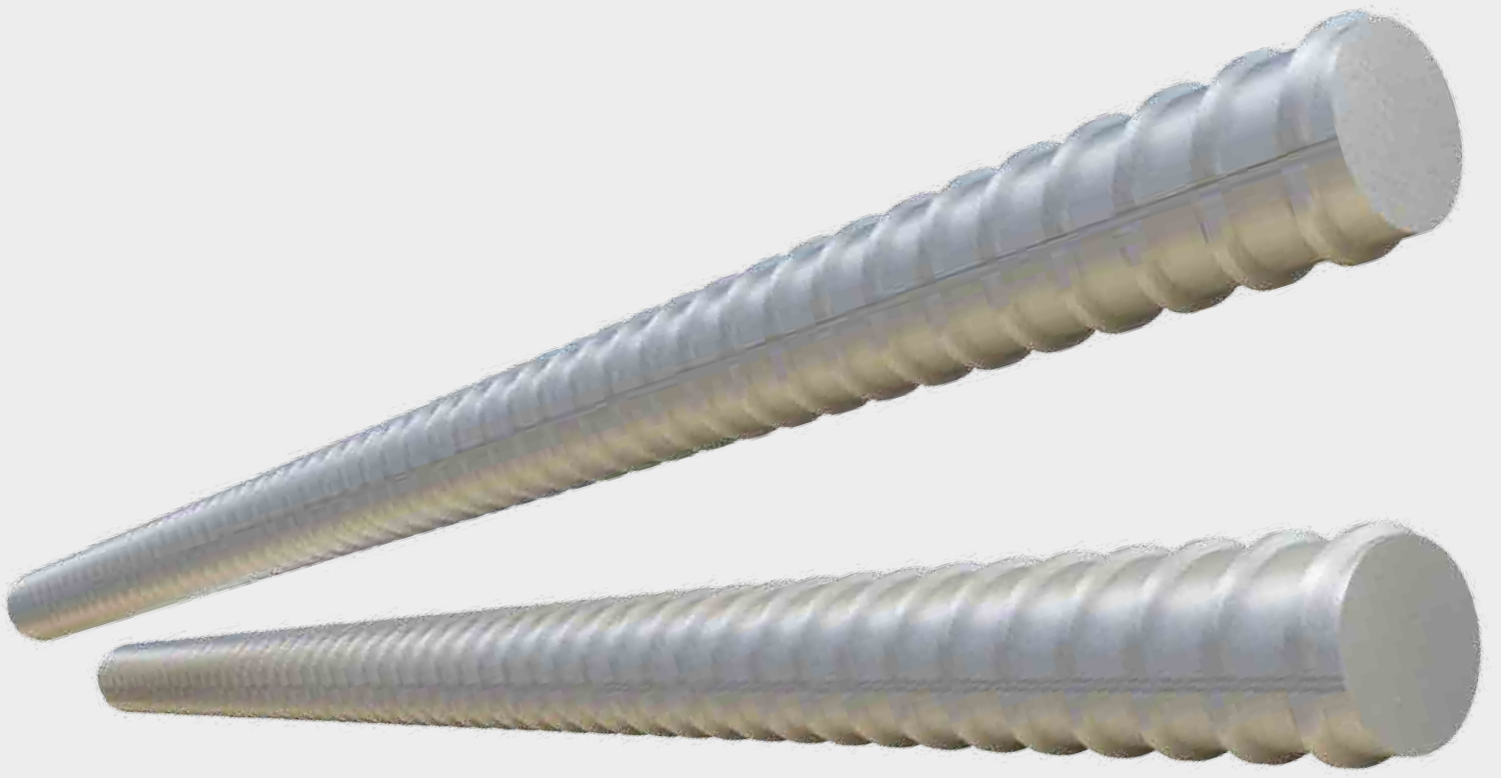
Quality approvals

The bar and fittings are manufactured under a quality assurance system complying with ISO 9001 and 14001 standards for Environment Management.

Our Quality Assurance system is the guarantee for continuous high-quality standards and products.

Accessories

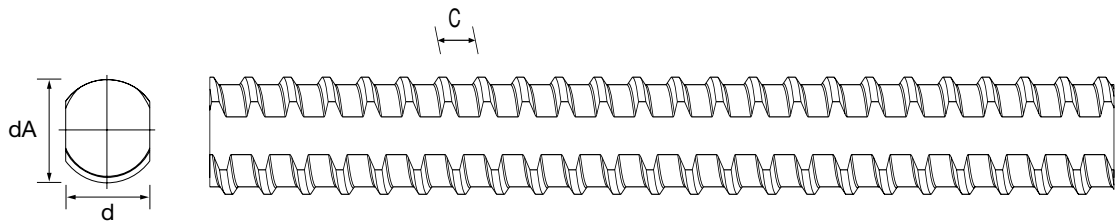
A complete range of accessories are available for all bar diameters and include coupling nuts, anchor nuts, lock nuts, anchor washer plates, spherical nuts and eyebolts.



Technical specifications

Grade 500/550

Nominal diameter d	mm	16	20	25	28	32	40	43	50	57.5	63.5	75	
Maximal diameter d	mm	19	24	28	32	36	45	48	56	63	70	83	
R_{p0.2} (min.)	MPa	500								555		500	
Load at yield (min.)	kN	100	157	246	308	402	629	726	982	1441	1758	2209	
R_m (min.)	Mpa	550								700		550	
Ultimate load (min.)	kN	110	172	270	339	442	691	799	1078	1818	2217	2430	
Elongation (min.)	%	A _{gt} 6						A _{gt} 5					
Weight	kg/m ²	1.58	2.47	3.85	4.83	6.31	9.87	11.40	15.41	20.38	24.86	34.68	



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