

HIGH-TENSILE THREADED REBAR




Metaroll

Leading Steel Manufacturers

www.threadedrebars.com

HIGH-TENSILE THREADED REBAR



Metarolls Ispat Group specializes in manufacturing high tensile Threaded rebars that are widely used in soil fixing, rock bolt, anchoring & construction industries.

At Metarolls, we are committed to delivering the highest quality in all our business divisions, from product development, production, and sales through to the provision of follow-up engineering support at construction sites. Individual divisions feed the know-how and skills that they acquire back to the production lines so that we can continue to evolve our production technologies. Because our production lines are always up-to-date, we are able to simultaneously deliver production efficiency, quality improvements and cost reductions.

We manufacture these Threaded rebars by making use of best quality raw material, which is produced in our in-house steel melt shop. Threaded bars offered by us are appreciated for their corrosion resistance, high strength, quality and durability.

Our facility is fully equipped with quality control lab that consist spectrometer computerized tensile testing machine, bending machine etc. these ensure quality of bars we produced. Experienced professionals from in-house quality assurance and control department conduct testing for each product on different parameters. We also perform testing under third party inspection agencies of high reputation like SGS.

Hot Rolled Threaded Bars

Key features:

Fully threaded bar - can be cut and coupled at any point

Robust thread - ideal for use on construction sites

Coarse pitch thread form with two flats ensures self-cleaning of thread





Threaded Rebars advantages:

- Hot Rolled Thread Bars are one of the strongest, simplest, most robust and cost efficient steel systems in the industry.
- The continuous hot rolled thread along the entire length of the bar allows the bars to be cut, spliced and anchored with couplers or nuts at any point along the bar.
- In contrast to cold rolled thread bars, the Hot Rolled Thread Bar does not impact the microstructure of the steel cross section and the overall strength of the bar. Machined cut threaded bars have a strength reduction of up to 25% of the threaded area.
- The two flat sides on the Hot Rolled Thread Bar eliminate jamming of nuts or couplers. The thread is self cleaning.
- Threaded rebars have improved physical characteristics, greater accuracy and a high degree of surface finish. They are uniformly produced at high rates of production with no wasting of material.
- Hot Rolled Thread Bar is available in various forms:
 - As an uncoated (Plain) steel bar.
 - As a coated steel bar with Black oxide or zinc coating.



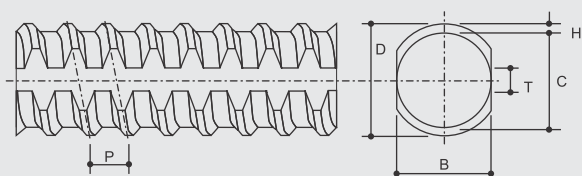
Material	Plain Carbon Steel
Grades	Fe500, BS4449
Diameters	20mm, 25mm, 32mm
Length	12 Meters & As per Customer demand
Surface	Plain Mild Steel, Zinc Plated, Black oxide
Production process	Hot rolled threaded bars

Mechanical Properties

Properties	Threaded Rebar
Yield Strength	550MpTensile
Strength	670Mp
Elongation	20%
Ratio of UTS/YS	1.220

Threaded Rebar Dimensions

BAR Size (mm)	Nominal dimension			Outside diameter	Inside diameter		Dimension of transverse rib		Interspace of rib
	Diameter (mm)	Cross-Section area (mm ²)	Unit weight (kg)	D (mm)	B (mm)	C (mm)	P (mm)	H (mm)	T X 2 (mm)
20	20.0	314.0	2.466	22.4	18.3	18.8	8.0	1.80	8.6
25	25.0	491.0	3.854	28.1	22.9	23.5	10.0	2.30	10.6
32	32.0	804.0	6.313	35.7	29.3	29.9	13.0	2.90	11.9





HIGH-TENSILE THREADED REBAR Applications

Dam Retrofits Bridges

Mining Tunnelling

Soil Nailing

Micro piles

Post Tensioning

Retaining Walls

Drilled Shafts

Excavation Shoring

Reinforcing Steel



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