



BHRATATM



BUILD FOR GENERATIONS



STRONGER. SMARTER. SUPERIOR.

Discover the New Age of TMT Bars.

ABOUT BHRATA TMX



Bharata TMX, a venture of Hibond Steel Private Limited, is set to establish a new standard in the TMT bars industry by offering a perfect blend of top-notch quality, strength, and advanced technology. Committed to redefining strength, Bharata TMX heralds a new era of TMT bars engineered to fortify structures for generations to come.

Our foundation is built on the principles of trust and strength. We prioritize integrity, durability, and long-term value in every product we manufacture. At Bharata TMX, quality is paramount. Each TMT bar undergoes stringent and consistent quality checks to meet and exceed industry standards, ensuring durability, safety, and resilience.

Our advanced, state-of-the-art technology not only enhances the strength of our products but also delivers solutions that cater to the needs of modern infrastructure development. With Bharata TMX, you can be confident in the strength and reliability of your structures, today and for generations.



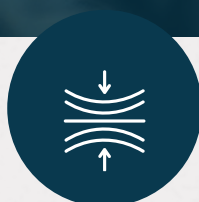
Gujarat's First Ever Ultra Modern State-of-the-Art Fully Automatic Straight Steel Rolling Mill Plant with Production **Capacity of 2,50,000 Metric Ton Per Year.**



Trust



**Consistent
Quality**



Flexibility



**Advance
Technology**



**Enhanced Rib
Design**

THE PROCESSES AND TECHNOLOGIES

That ensure superior strength and quality



HIGH QUALITY RAW MATERIALS

With a blend of chemicals and substances



PLC CONTROLLED CONTINUOUS ROLLING MILL

To boost production speed: 30m/sec with 23 passes.



Temperature of billet should be 1200°C.

FULLY AUTOMATED FURNACE

To maintain billet temperature at 1200°C.



21 to 25 PASSES

to ensure uniform size, shape, Quality and Strength



Thermex German Technology

QUENCHING PROCESS

with patented 'Thermex German Technology'



ENVIRONMENT FRIENDLY PRODUCTION PLANT

To control pollution and reduce wastage



AUTOMATED HIGH SPEED COOLING BED

To ensure superior quality TMT Bars

WHY BHRATA TMX

Advantages

- 20 Years of Excellence
- Raw Materials, Pure Steel Billets
- Automated High-Speed Rolling Mill
- 21-25 Passes
- Production of TMX bars Only
- Thermex Quenching Process
- Manufacturing Process According to BIS Norms
- Automatic Cooling Bed
- Right Composition of Chemicals and Substances
- Right Sectional Weight
- Quality Inspection in Every 10 Minutes

Benefits

- Strong TMX bars.
- Billets are made into TMX bars within 18-42 secs.
- Reduction is possible without any change in quality.
- Gives strength to the outer layer and bendability to the inner layer even at smaller gauge.
- TMX bars without any slight damage in quality or shape.
- Uniform weight parallel to the length of each TMX bar.
- Only the best products make it to the market.
- Ensures complete satisfaction of customers.

Premium Raw Material

Fireproof

Easy Bendability

German Technology

Easy Weldability

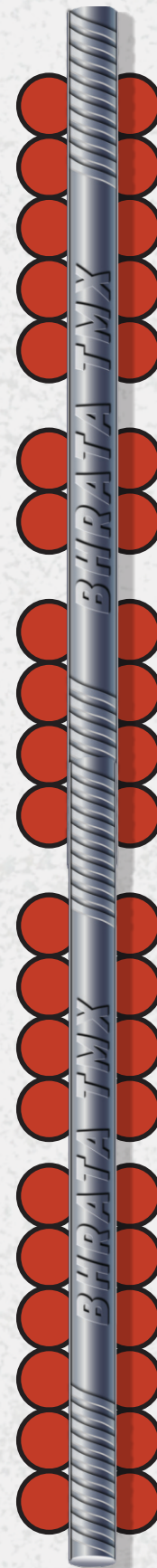
BIS Approved Material

Earthquake Resistant

Supreme Quality

High Corrosion Resistance

Strong Grip with Concrete



THERMEX®

Powering modern infrastructure with the highest quality TMT bars – Bharata TMX.

TMT BARS MADE FROM
100% BILLETS
ENSURING
CONSISTENT QUALITY



BHRATA TMX

550 D

With Remarkable Elongation values and superior strength BHRATA TMX 550 D rebars are engineered to elevate construction standards. BHRATA TMX 550 D rebars are designed to redefine structural integrity, ensuring safer and more sustainable construction practices with enhanced seismic resistance and reduced steel consumption.

BHRATA TMX 550 D bars are used in:

- Metro & Railways
- Bridges
- Dams
- High Rise Buildings
- Industrial Structure
- Airports & Ports



- LOW STEEL CONSUMPTION
- LOW LABOUR COST
- TIME SAVING
- COST SAVING
- STRONG STRUCTURE
- MORE SPACE

LOW DENSITY OF **FE 550D** BHRATA TMX REBAR

HIGH DENSITY OF **FE 500D** GRADE TMT REBAR



Note: The actual steel savings will vary based on factors such as the structural design, number of floors, seismic zone, and other construction-specific requirements..

CHEMICAL PROPERTIES

	FE 550		FE 550 D		FE 600	
ELEMENT	BIS	BHRATA TMX 550	BIS	BHRATA TMX 550 D	BIS	BHRATA TMX 600
CARBON%	0.30	0.25	0.25	0.24	0.25	0.22
SULPHUR %	0.055	0.050	0.040	0.040	0.040	0.035
PHOSPHORUS %	0.050	0.040	0.040	0.035	0.040	0.035
S+P%	0.100	0.090	0.075	0.070	0.075	0.070

MECHANICAL PROPERTIES

	FE 550		FE 550 D		FE 600	
GRADE	BIS	BHRATA TMX	BIS	BHRATA TMX	BIS	BHRATA TMX
YIELD STRESS	550	570	550	570	600	620
TENSILE STRESS-UTS	585	630	600	630	660	670
UTS/YS RATIO	1.06	1.01	1.08	1.10	1.06	1.08
ELONGATION %	10	14.5	14.5	16	10	12
TOTAL ELONGATION AT MAX FORCE%	-	-	5	6	-	-

BHRATA 550, 550D, 600

BEND & REBEND TEST	FE 550		FE 550 D		FE 600	
	BIS	BHRATA TMX 550	BIS	BHRATA TMX 550 D	BIS	BHRATA TMX 600
BEND UPTO 20MM	5 D	4 D	4 D	4 D	5 D	5 D
BEND OVER 20 MM	6 D	5 D	5 D	5 D	6 D	6 D
RE-BEND UPTO 10MM	7 D	6 D	6 D	6 D	7 D	7 D
RE-BEND OVER 10MM	8 D	7 D	7 D	7 D	8 D	8 D

PHYSICAL PROPERTIES

	Specific Weight	BIS Standard	BHRATA TMX
SIZE MM	Kg/Mtr.	Kg/Mtr.	Kg/Mtr.
8 MM	0.395	0.367-0.423	0.368-0.393
10 MM	0.617	0.574-0.660	0.575-0.610
12 MM	0.888	0.844-0.930	0.845-0.888
16 MM	1.580	1.501-1.659	1.502-1.570
20 MM	2.470	2.396-2.544	2.400-2.435
25 MM	3.850	3.735-3.965	3.740-3.820
28 MM	4.850	4.687-4.975	4.700-4.810
32 MM	6.310	6.121-6.499	6.150-6.250
40 MM	9.860	9.564-10.165	9.564-10.155

Our Advanced

Lab Facilities



ROBOTIC RIB MACHINE

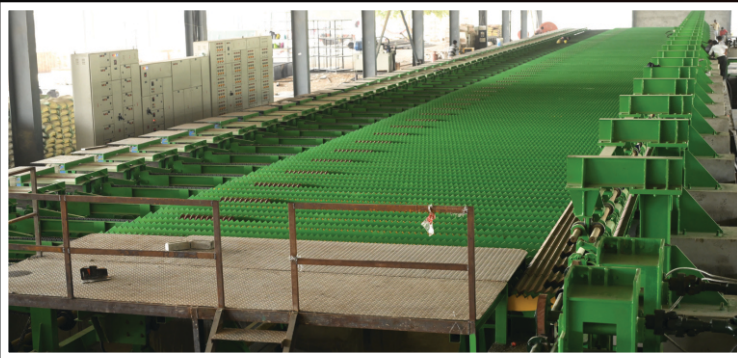


SPECTRO MACHINE



UTM MACHINE

Strength with Flexibility

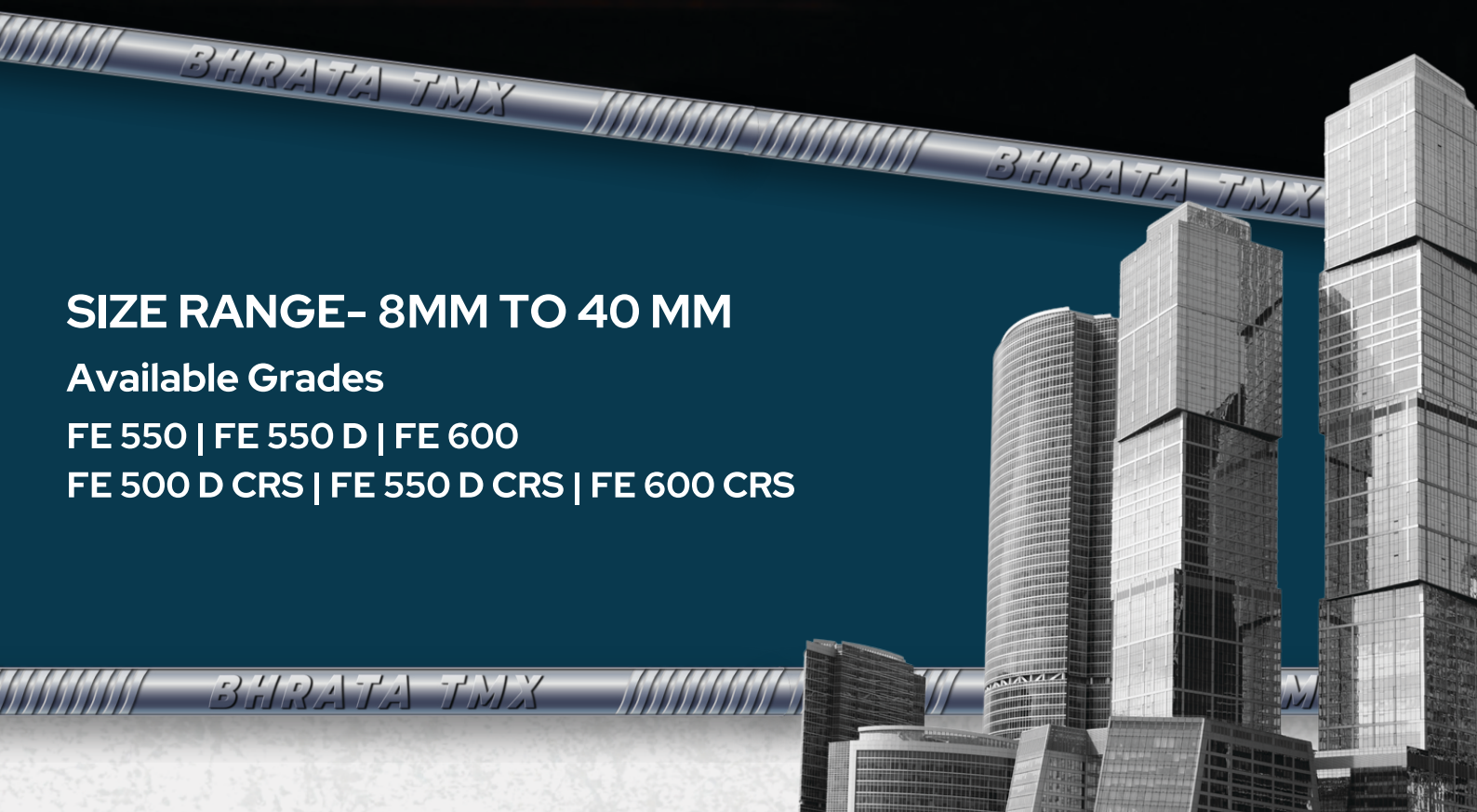


SIZE RANGE- 8MM TO 40 MM

Available Grades

FE 550 | FE 550 D | FE 600

FE 500 D CRS | FE 550 D CRS | FE 600 CRS





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TMX
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STRENGTH YOU CAN COUNT ON,
Quality You Can Trust!

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