



Y RIBBED TECHNOLOGY FOR GENERATION Y HOMES

Not every brand has the power to innovate and create standards for others to follow. SUPER SHAKTI Fe 550+ SD Advanced Y Ribbed TMT Bars, inspired by European construction patterns are scientifically designed to provide maximum bonding of concrete with steel bar for long-lasting, new generation homes.

General TMT Bars	Super Shakti Fe 550+SD Advanced Y Ribbed TMT Bar
	
Conventional machines for engraving ribs result in non-uniform pattern, has low fatigue life and reduced bond strength with concrete.	PLC controlled transverse Y-Rib cutting method ensures precise and uniform Advanced Y Ribbed pattern which provides excellent and uniform bonding with concrete for better RCC.

Excellent Specifications of Super Shakti Fe 550+SD

CHEMICAL COMPOSITION (IS 1786 : 2008)

Element	Indian Standard (IS:1786)			Super Shakti Fe 550+ SD
	Fe 500	Fe 500D	Fe 550D	
Carbon Max	0.30	0.25	0.25	0.25
Sulphur Max	0.055	0.040	0.040	0.040
Phosphorus Max	0.055	0.040	0.040	0.040
S+P Max	0.105	0.075	0.075	0.075

MECHANICAL PROPERTIES (IS 1786 : 2008)

Properties	Indian Standard			Super Shakti Fe 550+ SD
	Fe 500	Fe 500D	Fe 550D	
Yield Strength (N/mm ²)	500	500	550	550
UTS (N/mm ²)	545	565	600	620
Elongation (%)	12	16	14.5	18

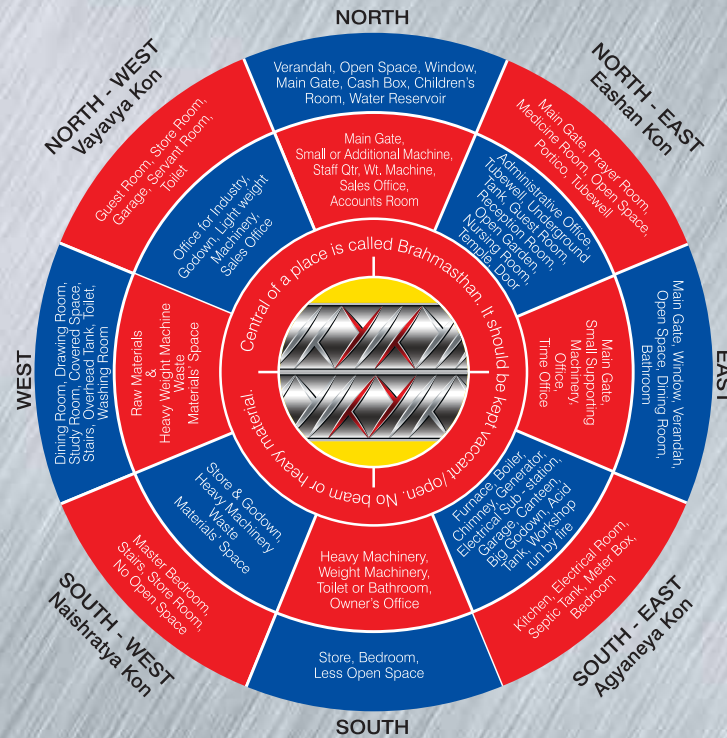
BIS TOLERANCE WITH SUPER SHAKTI Fe 550+ SD

Nominal Size* (mm)	Nominal Section Wt. (Kg/M)	Section Wt. Range (Kg/M)	Super Shakti Section Wt. as per Indian Standard
8	0.395	(0.367 - 0.423)	0.395
10	0.617	(0.574 - 0.660)	0.617
12	0.888	(0.844 - 0.932)	0.888
16	1.580	(1.501 - 1.659)	1.580
20	2.469	(2.396 - 2.544)	2.469
25	3.858	(3.734 - 3.966)	3.858
28	4.839	(4.685 - 4.975)	4.839
32	6.320	(6.121 - 6.499)	6.320

SUPER SHAKTI®

Fe 550+ SD Advanced Y Ribbed TMT

Your Vastu Home



SUPERIOR BONDING



SUPERIOR DUCTILITY



SUPERIOR STRENGTH



EARTHQUAKE RESISTANT



CORROSION RESISTANT

SIZES: 5.5 mm • 8 mm • 10 mm • 12 mm • 16 mm
• 20 mm • 25 mm • 28 mm • 32 mm • 40 mm

OTHER PRODUCTS




SUPER SMELTERS LTD

Regd. Office: Premlata, 39 Shakespeare Sarani, 3rd Floor, Kolkata 17
Telefax: +91 33 2289 2734-36 | valuecustomer@supershakti.in

Works: Jamuria Industrial Estate, Raja Ram Danga, Aam Bagan
PO-Ikka, Jamuria, Burdwan (W.B.)-713362, Tel: +91 341 2456690

 **1800 121 1782**     www.supershakti.in



SUPER SHAKTI®

Fe 550+ SD Advanced Y Ribbed TMT



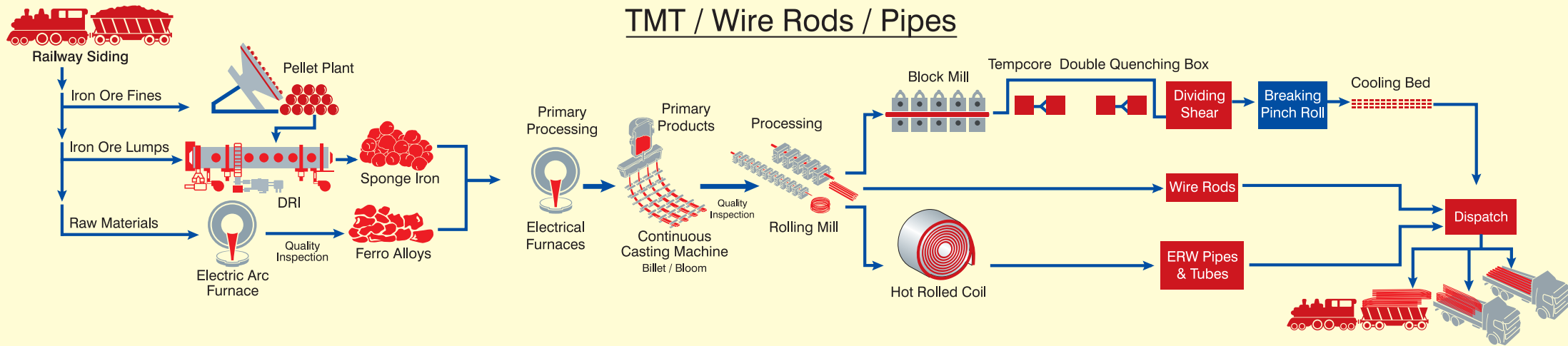
**SUPERIOR STRENGTH • SUPERIOR DUCTILITY
• SUPERIOR BONDING WITH CONCRETE**

INTEGRATED
STEEL PLANT

IS 1786 : 2008

CM/L 5710032112
ISO 9001:2015

OUR ADVANCED 1.1 MTPA INTEGRATED PLANT AT JAMURIA, WEST BENGAL



SAY YES TO BONDING: With Super Shakti Fe 550⁺ SD TMT bar's unique Advanced Y Rib pattern, the concrete grips the bar, forming a strong, secure bond. The reinforcement is further strengthened by the bar's greater rib depth and closer rib spacing at different angles. Besides, CNC notch cutting ensures a uniform rib pattern, thus ensuring uniform bonding throughout the structure. This ensures that its fatigue strength and ductility are superior to ordinary TMT. Moreover, our integrated plant ensures consistent and superior TMT properties through a range of state of the art in-house facilities.

Super Shakti Fe 550⁺ SD Advanced Y Transverse Ribs

Advantages over other TMT Rib patterns:

- Optimum rib design in 'Advanced Y Transverse Rib' pattern enhance superior bonding by increasing the Area of Ribs (AR) value of the rib to maximum.
- In 'Advanced Y Transverse Rib' increases the surface area, with its unique design of the rib neutralizes the effect of stress amplitude to the maximum. That can be repeated for loading cycles without causing failure such as buckling or cracking hence makes it earthquake resistant.
- 'Advanced Y Transverse Rib' pattern characterize the increase compressive and tensile properties in the concrete.

Advanced Y Transverse Rib Pattern:

1. Better elongation: Advantageous in earthquake-prone zones.
2. Better Ultimate Tensile Strength (UTS) and 0.2% Proof Stress.
3. Better mechanical properties compared to other available TMT bars.
4. 'Advanced Y Transverse Rib' incorporates unique combination of physical and chemical properties.



SAY YES TO TECHNOLOGY

For a new age Fe 550⁺ SD TMT with advanced bonding strength of Y ribs

World's most advanced TMT technology from TEMPCORE (BELGIUM)

4th Generation Automation from ITALY

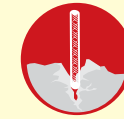
Advanced Integrated Plant with seamless integration from Railway Siding to Nationwide Dispatch

Uniform Sectional Weight and Perfect Chemical Composition



SAY YES TO DUCTILITY

Higher ductility facilitates superior bending and higher levels of safety



SAY YES TO SAFETY

Provides the best resistance to structures during earthquakes



SAY YES TO POWER

Endowed with anti-corrosive properties for sustainable construction

SAY YES TO STRENGTH

Maximum bonding of cement mixture with the steel bar results in additional strength

SAY YES TO BONDING

Maximum bonding with concrete resulting in superior strength

SAY YES TO COST ADVANTAGE

COST SAVING CHART						
Work	Size	Concrete	TMT (Kg)	Super Shakti Needed (Kg)	Savings/ Quintal (Kg)	Savings (%)
Roof	100 sq.ft. (4" thick)	1:05.5	52	42	10	19
					(per 100 sq.ft.)	-
Beam	300 X 700	M-25	104	86	18	17
	-	M-30	137	115	22	16
Column	300 X 900	M-25	69	58	11	16
	230 X 600	M-25	58	44	14	24