



www.mcrtmt.com

THE REVOLUTIONARY TMT BAR

Trust is built on solid foundation,
Build your trust with

MCR TMT BARS



ABOUT MCR



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Our company focuses on manufacturing high-quality TMT bars by implementing cutting-edge technology that is on par with international quality standards. Our commitment to research and development ensures that our TMT bars are at the forefront of technological advancements in the construction industry.

MCR, the revolutionary TMT bar, is reinforced with technologically advanced unique and innovative processes, providing exceptional strength. MCR TMT bars undergo rigorous quality control measures to guarantee consistency, durability, and reliability, making them the preferred choice for architects, engineers, and builders. With a combination of superior properties and features, MCR TMT aims to cater to the day-to-day needs of the ever-growing construction industry.

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- MCR TMT 550 is a uniquely produced product of our company that meets the quality standards set by BIS specifications and complies with BIS and GERMAN Standards.
- The manufacturing process of MCR TMT 550 ensures a combination of strength and ductility that exceeds the minimum limits specified by Bureau of Indian Standards
- MCR TMT 550 rebars are available in various sizes (8, 10, 12, 16, 20, 25, and 32 mm) through our retail and distribution network across South India.
- MCR TMT 550 is supplied in convenient pre-packed bundles with a fixed number of pieces per bundle, organized by size for ease of use.
- Each bundle contains MCR TMT 550 rebars, providing customers with a reliable and efficient solution for their construction needs in South India.
- Our commitment is to deliver MCR TMT 550 that meets the highest quality standards and ensures the durability and strength required for construction projects.



FEATURES

HIGH LOAD BEARING CAPACITY		BETTER WELDABILITY	
BETTER METALLURGIC PROPERTIES		HIGH QUALITY BILLETS	
SUPERIOR BENDABILITY		IDEAL FOR ALL STRUCTURES	

QUALITY

We maintain an unwavering commitment to quality throughout our manufacturing process, from sourcing raw materials to delivering finished goods, to guarantee utmost customer satisfaction. The essential value-added components of our TMT Bar are exclusively obtained from a highly dependable source, ensuring the chemical composition of the metal remains synchronized with the parent Fe. Each metal possesses its own distinct qualities and behaves differently in various conditions and applications. Achieving the optimal blend and quality is imperative to produce TMT bars of the highest caliber.



RAW MATERIAL PROCUREMENT

Our raw material procurement process involves meticulous sourcing of MS Scraps from industries, thorough inspections, direct acquisition of high-quality materials from overseas, rigorous sample inspections, segregation, testing in our in-house facility, and necessary processing before melting. We introduce Sponge Iron, in different forms such as Lumps, Fines, or Pellets, to increase the iron content. By following these precise steps, we ensure that our manufacturing operations utilize the right quality of raw materials, resulting in exceptional products for our customers.

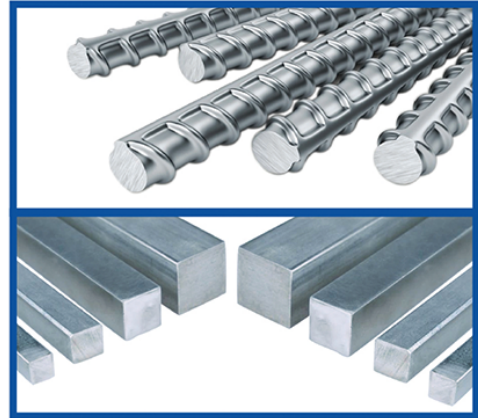
IN PROCESS MATERIAL

Impurities are removed from the crucible before collecting Liquid Metal samples, which are then sent to the slag storage yard for further processing. Chemical testing in the Spectrometer is conducted on samples drawn from each heat of liquid metal. Optimal quantities of value-added products are added to fine-tune the metal's composition, enhancing the quality of MCR TMT Bars and billets. The hot billet travels quickly on a roller conveyor to the Roughing Mill, minimizing heat loss. Temperature measurements before and after quenching, as well as water flow/spray pressure, are recorded to ensure compliance with ISI cooling process standards.



FINISHED GOODS

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PROPERLY GRADED & SEALED PACKAGING



**EASY INVENTORY
MANAGEMENT**



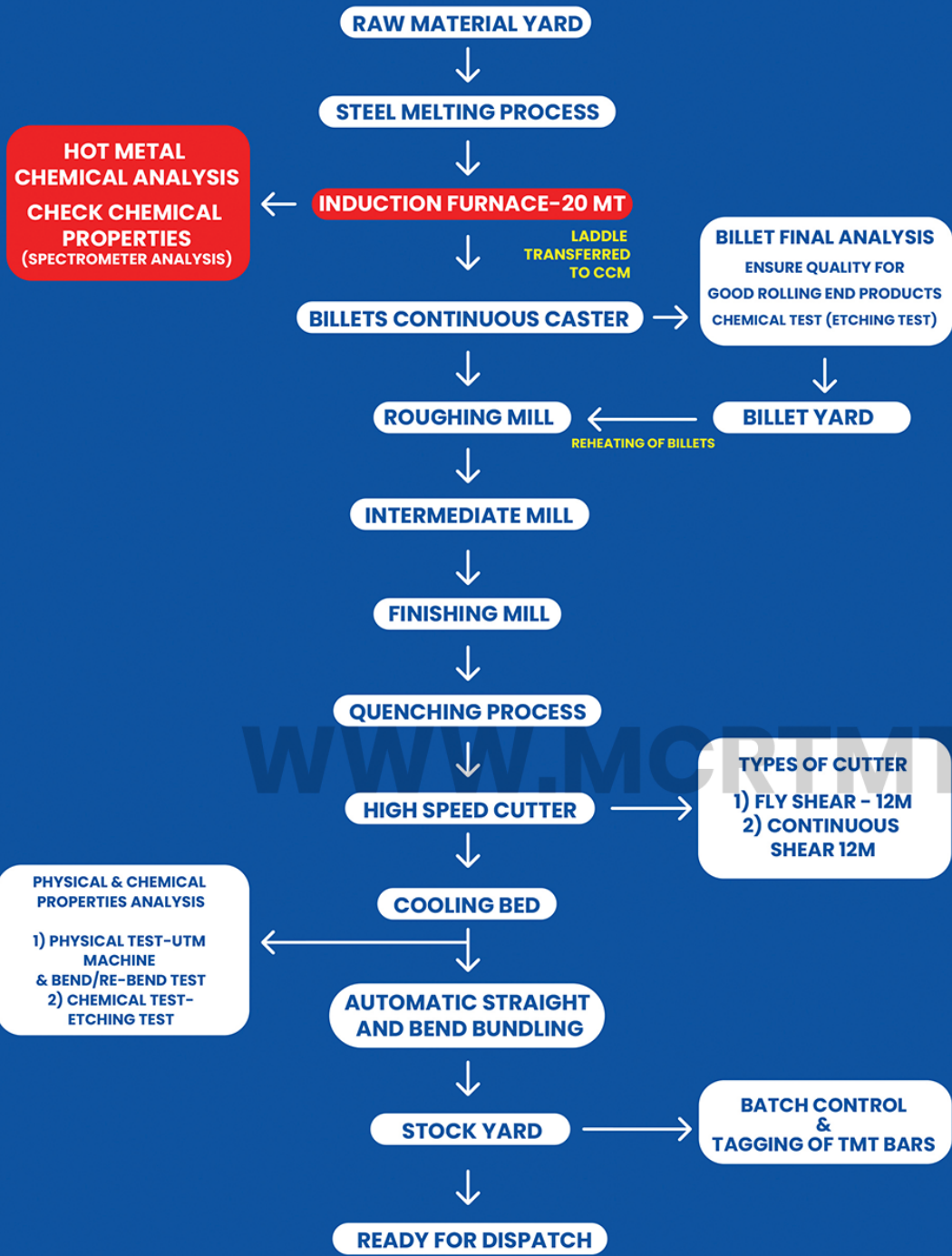
**TRANSPORTATION
FRIENDLY**



EASY TO HANDLE



MANUFACTURING PROCESS CHART



SUPERIOR STRENGTH



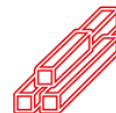
HIGHEST QUALITY ASSURANCE



COST EFFECTIVE



POWERFUL BONDING



SEALED PACKAGING

WEIGHT TOLERANCE

SIZE OF BAR (MM)	STD.WT KG/MTR		PER PIECE WT 12 MTR LENGTH		BUNDLE WT		PIECES IN BUNDLE
	APROX WT		APROX WT		APROX WT		
	MIN	MAX	MIN	MAX	MIN	MAX	
8	0.367	0.395	4.404	4.740	44.040	47.400	10
10	0.574	0.617	6.544	7.302	45.808	51.114	7
12	0.844	0.888	9.536	10.321	47.680	51.605	5
16	1.501	1.580	18.012	18.960	54.036	56.880	3
20	2.396	2.470	28.752	29.640	57.504	59.280	2
25	3.735	3.850	44.820	46.200	44.820	46.200	1

TECHNICAL SPECIFICATION

MECHANICAL PROPERTIES

PROPERTIES		IS: 1786 FE550	MCR TMT FE 550
Yield Strength Min (N/mm ²)		550	560
Tensile Strength Min (N/mm ²)		630	640
Elongation Min (As) (%)		12	16
Bend	Till 20 mm	3d	3d
	Over 20 mm	4d	4d
Re bend	Till 10 mm	4d	4d
	Over 10 mm	6d	6d

CHEMICAL COMPOSITION

COMPONENTS	IS: 1786 FE 550	MCR TMT FE 550
CARBON	0.25 (Max)	< 0.22
SULPHUR	0.05 (Max)	< 0.04
PHOSPHOROUS	0.05 (Max)	< 0.04
SULPHUR + PHOSPHOROUS	0.09 (Max)	< 0.09



WE ARE ISI CERTIFIED, DEMONSTRATING OUR COMMITMENT TO MAINTAINING THE HIGHEST QUALITY STANDARDS IN OUR PRODUCTS AND SERVICES. THIS CERTIFICATION VERIFIES THAT OUR PROCESSES, MATERIALS, AND MANUFACTURING TECHNIQUES MEET THE RIGOROUS REQUIREMENTS SET BY THE BUREAU OF INDIAN STANDARDS (BIS). IT IS A TESTAMENT TO OUR DEDICATION TO DELIVERING RELIABLE AND SUPERIOR PRODUCTS THAT ADHERE TO THE STRINGENT SPECIFICATIONS AND GUIDELINES OUTLINED BY THE ISI. WITH THIS CERTIFICATION, OUR CUSTOMERS CAN HAVE CONFIDENCE IN THE QUALITY AND RELIABILITY OF OUR OFFERINGS, KNOWING THAT THEY MEET THE INDUSTRY BENCHMARKS AND STANDARDS ESTABLISHED BY BIS.



MCR TMT BARS

FE 550, FE 550 SD




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