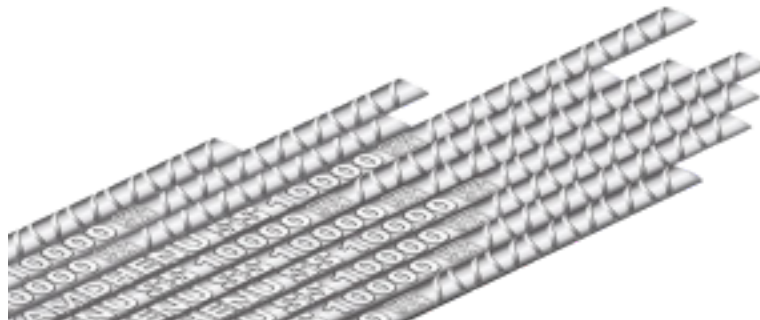


Kamdhenu SS 10000: Redefining TMT Bar Technology in India

Kamdhenu Limited, the flagship entity of the Kamdhenu Group, has firmly established itself as a prominent manufacturer and supplier of branded building materials in India. Demonstrating its robust market position and operational excellence, **Kamdhenu Limited** has achieved an impressive turnover of **USD 2 billion**, reflecting its significant contribution to the industry and its continued growth trajectory.

As a pioneering force in the steel industry, **Kamdhenu Limited** established a dedicated **Research and Development (R&D) department** to drive innovation and technological advancement. The R&D team focused extensively on **rib design technology**, a critical aspect that enhances the bonding strength of TMT bars with concrete structures.

In **May 2013**, Kamdhenu achieved a groundbreaking milestone by introducing an **international rib pattern** based on the **B500C grade** standard commonly used in **European countries**. With this development, Kamdhenu became the **first company in India** to launch a **unique double-rib pattern design** conforming to the **British Standard B500C**. This revolutionary product was introduced under the brand name **KAMDHENU SS 10000**, setting new benchmarks in steel reinforcement quality.



CNC Rib Cutting Machine & Stamping Machine

- The **CNC Rib Cutting and Stamping Machines** play a crucial role in enhancing the finishing quality of construction steel products. Historically, rib cutting and stamping in roll passes were carried out manually using hand-operated rib cutting machines or grinders.
- With the introduction of **CNC (Computer Numerical Control) Rib Cutting and Stamping Machines**, **Kamdhenu Limited** has seen a significant improvement in product consistency and branding clarity. These advanced machines ensure that the ribs on the steel bars are **uniformly patterned**, and the brand name appears with **high precision and clarity**.
- Notably, the **double-angle rib design** — which enhances the **bonding strength** of bars in reinforced concrete — can only be achieved through the precision offered by CNC notching and branding machines. This technological advancement not only **improves**

product quality but also elevates the overall brand image in a competitive market.



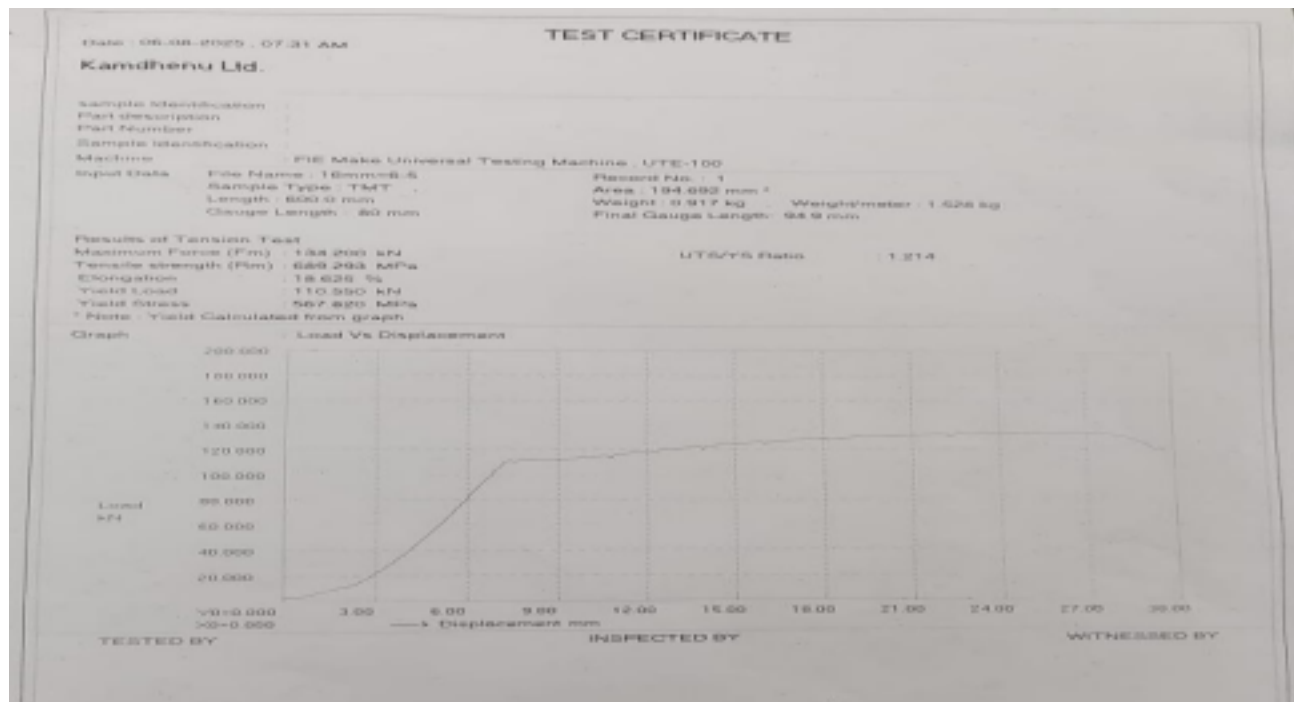
| Element | Maximum % Composition |
|----------------|-----------------------|
| Carbon (C) | 0.20% |
| Sulphur (S) | 0.040% |
| Phosphorus (P) | 0.040% |

Technical Specifications of Kamdhenu SS 10000

As per BIS 1786 – Fe 550 / Fe 600 Grade This optimized chemical composition enhances both **corrosion resistance** and **weldability**, making the bars suitable for modern, high-stress construction environments.



| KAMDHENU ROLLING MILL | | | | | | | |
|-----------------------|------------------|--------|-------------|----------|--------|----------|---------|
| Heat No | Measurement Data | | Method Name | | Fe-10M | | |
| Spec | C | Mn | S | P | Si | Al | Cr |
| 1 | 0.157 | 0.495 | 0.0265 | 0.0075 | 0.141 | 0.0021 | 0.434 |
| Spec | Mo | Ni | Cu | V | Co | Nb | Ti |
| 1 | 0.0000 | 0.158 | 0.0741 | 0.0055 | 0.0120 | <0.00100 | 0.00493 |
| Spec | W | Pb | Sn | As | Zr | B | Os |
| 1 | <0.0050 | 0.0044 | 0.0000 | <0.00100 | 0.0030 | 0.0005 | 0.00011 |
| Spec | Ce | Sb | Se | Te | Ta | Bi | Zn |
| 1 | 0.0000 | 0.0175 | <0.0020 | 0.0019 | 0.0000 | 0.00000 | 0.0004 |
| Spec | La | N | Fe | GE | | | |
| 1 | <0.00030 | 0.0044 | 99.9 | 0.350 | | | |



Mechanical Properties

- Achieves **Fe 550 and Fe 600** grades as per **BIS 1786**.
- **Bond Strength:**
Kamdheni SS 10000 TMT bars have **2.5 times higher bond strength** compared to conventional TMT bars, owing to the unique angular **double-rib design**.
- Provides **excellent anchorage in RCC structures**, making them ideal for critical infrastructure like bridges, high-rises, and metro projects.

Following the tremendous success of this product, the company rebranded **Kamdheni SS 10000** as **Kamdheni NXT – Next Generation Interlock Steel**, aiming to further **expand its presence across India**.

Kamdhenu NXT features a distinct **angular double-rib design** and is promoted as an **exceptionally engineered double-rib TMT bar**. With the introduction of Kamdhenu NXT, the company has firmly established itself as a **market leader in the double-rib steel segment**, reinforcing its position at the forefront of innovation in the Indian steel industry.