TMT Bar Weight Chart

Updated 8 November 2026 · Checked against IS 1786:2008

Which page do you need?

- Rod weight calculator: any round bar in MS, SS, brass or copper, any length.
- Sariya weight calculator: TMT sariya per 12 m piece, per quintal and per tonne.
- TMT bar weight chart: one chart for Tata, JSW, SAIL and every IS 1786 brand.

TMT Bar Weight Chart (All Brands, IS 1786)

Size	kg per m	Per 12 m bar	Bars per tonne
6 mm	0.222	2.66	375
8 mm	0.395	4.74	211
10 mm	0.617	7.40	135
12 mm	0.888	10.66	94
16 mm	1.580	18.96	53
20 mm	2.470	29.64	34
25 mm	3.850	46.20	22
28 mm	4.830	57.96	17
32 mm	6.310	75.72	13
36 mm	7.990	95.88	10
40 mm	9.860	118.32	8

This chart applies to Fe 415, Fe 500, Fe 500D, Fe 550 and Fe 600 grades; the grade changes the strength, not the weight.

Brands This Chart Covers

- Tata Tiscon
- JSW Neosteel
- SAIL TMT
- Jindal Panther
- Vizag Steel (RINL)
- Kamdhenu
- Shyam Steel
- Kamachi
- Radha TMT
- SRMB

Brand names are used only to show that their bars follow IS 1786 nominal weights. We are not linked to any brand. Check the brand's own catalogue for bundle sizes and actual lengths.

TMT Bar Weight Formula

$$\text{Weight (kg/m)} = D^2 \div 162$$

Use the sariya weight calculator or the rod weight calculator for any length and quantity.

Why Actual Weight Can Differ

Steel is rolled to a size range, not an exact size, so the weight on the weighbridge is rarely exactly the calculated weight.

- **TMT bars (IS 1786):** the mass per meter may vary by about ±7% for bars up to 10 mm, ±5% for 12–16 mm and ±3% for bars above 16 mm.
- **Plates and sheets (IS 1852 / IS 2062):** thickness has a rolling tolerance, so a "10 mm" plate can be slightly thicker or thinner.
- **Pipes and sections:** corner radius, weld seam, zinc coating and end finish (plain or screwed) change the weight a little.

Use the calculated (nominal) weight for estimates and quotations, and the actual weighbridge weight for billing.

Sources & Standards

- IS 1786:2008 – High strength deformed steel bars (TMT) – nominal mass per meter
- Density of mild steel: 7,850 kg/m³ (7.85 g/cm³); SS 304: 7,930 kg/m³

Weights are theoretical. Found an error? Tell us and we will fix it.