

# M27 Hex Bolt Weight Chart (in kg)

M27 · 23 lengths × 14 sizes · g per piece · kg/1000 pcs · carbon steel 7.85 g/cm³ · GB/T 5782 partial thread

M27

GB/T 5782 · As 459 mm²

| Length (mm) | Weight per piece (g)<br>g / piece | Weight per 1,000 pcs (kg)<br>kg / 1000 pcs |
|-------------|-----------------------------------|--------------------------------------------|
| M27×10      | 210                               | 210                                        |
| M27×12      | 220                               | 220                                        |
| M27×16      | 240                               | 240                                        |
| M27×20      | 250                               | 250                                        |
| M27×25      | 270                               | 270                                        |
| M27×30      | 290                               | 290                                        |
| M27×35      | 310                               | 310                                        |
| M27×40      | 330                               | 330                                        |
| M27×45      | 350                               | 350                                        |
| M27×50      | 370                               | 370                                        |
| M27×60      | 410                               | 410                                        |
| M27×70      | 450                               | 450                                        |
| M27×80      | 500                               | 500                                        |
| M27×90      | 540                               | 540                                        |
| M27×100     | 590                               | 590                                        |
| M27×110     | 630                               | 630                                        |
| M27×120     | 680                               | 680                                        |
| M27×140     | 770                               | 770                                        |
| M27×160     | 860                               | 860                                        |
| M27×180     | 950                               | 950                                        |
| M27×200     | 1000                              | 1000                                       |
| M27×250     | 1300                              | 1300                                       |
| M27×300     | 1500                              | 1500                                       |

## Basis of Calculation

Carbon steel (density 7.85 g/cm³), GB/T 5782 partially threaded, coarse pitch, base-metal weight (coating excluded). Typical deviation within ±5% for standard parts; stainless 304/316 scale by density 7.93/7.98 (≈ +1.0%/+1.7%). Use measured values for trade settlement.

## References

- GB/T 5782-2016 — Hex head bolts (CN national standard, official full text; aligns with ISO 4014 series) — [https://openstd.samr.gov.cn/bzgk/gb/std?std\\_no=GB%2FT%205782-2016](https://openstd.samr.gov.cn/bzgk/gb/std?std_no=GB%2FT%205782-2016)
- Hex head bolt dimensions (ISO 4014 series)
- GB/T 192-2003 — General purpose metric screw threads: basic profile (CN, official full text; ISO 68-1 equivalent) — [https://openstd.samr.gov.cn/bzgk/gb/std?std\\_no=GB%2FT%20192-2003](https://openstd.samr.gov.cn/bzgk/gb/std?std_no=GB%2FT%20192-2003)
- Metric thread basic profile (ISO 68-1)
- Dimensions cross-checked against industry fastener data libraries; densities are common industry values

Disclaimer: This chart is an engineering estimation. Values are provided for selection, quotation and freight estimation only and do not constitute design or acceptance criteria.

M27 Hex Bolt Weight Chart (in kg) — Yaxiio full-range reference PDF, pack v1 · generated 2026-09-10 · data source: yaxiio-customer/utills/fastenerCalc.ts (single source of truth) · methodology matches the online tool pages · <https://www.yaxiio.com/en/tools/bolt-weight-chart/m27>