

# M6 Hex Bolt Weight Chart (in kg)

M6 · 23 lengths × 14 sizes · g per piece · kg/1000 pcs · carbon steel 7.85 g/cm³ · GB/T 5782 partial thread

M6

GB/T 5782 · As 20.1 mm²

| Length (mm) | Weight per piece (g)<br>g / piece | Weight per 1,000 pcs (kg)<br>kg / 1000 pcs |
|-------------|-----------------------------------|--------------------------------------------|
| M6×10       | 4                                 | 4                                          |
| M6×12       | 5                                 | 5                                          |
| M6×16       | 5                                 | 5                                          |
| M6×20       | 6                                 | 6                                          |
| M6×25       | 7                                 | 7                                          |
| M6×30       | 8                                 | 8                                          |
| M6×35       | 9                                 | 9                                          |
| M6×40       | 11                                | 11                                         |
| M6×45       | 12                                | 12                                         |
| M6×50       | 13                                | 13                                         |
| M6×60       | 15                                | 15                                         |
| M6×70       | 17                                | 17                                         |
| M6×80       | 19                                | 19                                         |
| M6×90       | 22                                | 22                                         |
| M6×100      | 24                                | 24                                         |
| M6×110      | 26                                | 26                                         |
| M6×120      | 28                                | 28                                         |
| M6×140      | 33                                | 33                                         |
| M6×160      | 37                                | 37                                         |
| M6×180      | 42                                | 42                                         |
| M6×200      | 46                                | 46                                         |
| M6×250      | 57                                | 57                                         |
| M6×300      | 68                                | 68                                         |

## 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.

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