

M14 Bolt Size Chart: Hex Head Dimensions s, e and k

M14	Both standards (GB/T 5783 / 5782) × both grades (A / B)	Nominal (= max) values	Row-level standards
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M14 hex bolt: socket size s = 21 mm; head diagonal e min = 23.36 mm (grade A) / 22.78 mm (grade B); head height k = 8.8 mm nominal, 9.09 mm max in grade B; pitch P = 2 mm; fine pitch options (1.5). Head values are the standard's nominal (= max) or minimum figures, not measured guarantees.

M14 in both standards and both product grades

One row per thread form and product grade. The head columns repeat because GB/T 5783 and GB/T 5782 share the same head; b is tabulated in GB/T 5782 only, and a dash means the standard does not tabulate that value for the combination.

Thread form	Product grade	Coarse pitch P (mm)	Width across flats s (mm, nominal = max)	s min (mm)	Width across corners e min (mm)	Head height k (mm, nominal)	k max (mm)	b at l ≤ 125 mm	b at 125 < l ≤ 200 mm	b at l > 200 mm
Partially threaded (GB/T 5782)	A	2	21	20.67	23.36	8.8	8.98	34	40	—
Partially threaded (GB/T 5782)	B	2	21	20.16	22.78	8.8	9.09	34	40	53
Fully threaded (GB/T 5783)	A	2	21	20.67	23.36	8.8	8.98	—	—	—
Fully threaded (GB/T 5783)	B	2	21	20.16	22.78	8.8	9.09	—	—	—

Thread length b on partially threaded bolts (GB/T 5782)

b = 2d + 6 at l ≤ 125 mm, b ≈ 2d + 12 at 125 < l ≤ 200 mm, b ≈ 2d + 25 at l > 200 mm; the tabulated figure is that value rounded to a whole millimetre. Grade A tables carry the shorter bands only; grade B carries the band that applies to each size.

Thread length b by length band, grade B (mm)

Size	b at l ≤ 125 mm	b at 125 < l ≤ 200 mm	b at l > 200 mm
M14	34	40	53

Thread length b by length band, grade A (mm)

Size	b at l ≤ 125 mm	b at 125 < l ≤ 200 mm	b at l > 200 mm
M14	34	40	—

Quote the diameter and the length together: b follows l, so only "M12×100" pins the thread length down.

Fine pitch hex bolts (GB/T 5785): fine thread against coarse thread

One diameter, one head: every fine pitch of the same d shares the same s, e, k and r, so the socket size does not change with the pitch.

Nominal diameter d (mm)	Fine pitch P (mm)	Coarse pitch P (mm)
M14	(1.5)	2

A pitch in brackets is the non-preferred fine pitch of that diameter in GB/T 5785-2025; diameters not listed have no fine thread series in that standard.

M14 beside the next sizes

The sizes either side of M14. Measure the thread diameter d with a caliper and compare the head against the rows below before ordering; the nominal diameter steps by 0.5 mm or 1 mm in this range.

Size	Coarse pitch P (mm)	Width across flats s (mm, nominal = max)	Width across corners e min (mm)	Head height k (mm, nominal)
M12 (d = 12)	1.75	18	19.85	7.5
M14 (d = 14)	2	21	22.78	8.8
M16 (d = 16)	2	24	26.17	10

Which number do you need: s, e or k?

"Bolt size" means three different numbers depending on the job, and order codes use a fourth. Buying a tool uses s, checking a head that will not go into a socket uses e, and a counterbore or a flush-head check uses k.

- s — width across flats (nominal = max) — M14 is s = 21 mm. This is the socket, spanner or ring size, and the number stamped on the tool. It is the same in grade A and grade B and the same in GB/T 5783 and GB/T 5782, because the two standards share the hex head.

- **e — width across corners (min)** — M14 is e min = 23.36 mm in grade A and 22.78 mm in grade B. This is the diagonal between two opposite corners of the head, the dimension that decides whether a 12-point socket or a ring spanner passes over the head. Most published bolt size charts leave this column out; it is also what you can still measure with a caliper once the flats have been rounded off.
- **k — head height (nominal, with a max)** — M14 is k = 8.8 mm nominal and 9.09 mm max in grade B. It sets how deep a counterbore or recess has to be and how far the head stands above the part. When the head must not protrude, k is the number to check, not s.
- **d — nominal thread diameter** — The number in the callout: M14 is a 14 mm thread, not a 14 mm head. The head is always wider, 21 mm across the flats here, which is where ordering by "size" alone goes wrong.
- **r — fillet radius under the head (min)** — r min = 0.6 mm at M14. The washer face has to clear this radius, so it matters when the bolt sits in a corner, against a shoulder or in a slotted hole rather than on a flat face.

References

- GB/T 5783-2025 Hexagon head bolts, fully threaded - width across flats s, s min, width across corners e min, head height k and fillet radius r min, product grades A and B; thread length rule b = l – a — https://openstd.samr.gov.cn/bzgk/gb/std?std_no=GB%2FT%205783-2025
- GB/T 5782-2025 Hexagon head bolts, partially threaded - the same head dimensions, plus the thread length b in three nominal-length bands (l ≤ 125 mm, 125 < l ≤ 200 mm, l > 200 mm) — https://openstd.samr.gov.cn/bzgk/gb/std?std_no=GB%2FT%205782-2025
- GB/T 5785-2025 Hexagon head bolts with fine pitch thread - fine pitch options per nominal diameter and the same hex head (s, e, k unchanged) — https://openstd.samr.gov.cn/bzgk/gb/std?std_no=GB%2FT%205785-2025
- Table values are the nominal (= max) or minimum figures of the standard editions above, checked row by row against the official text. No table values are reproduced from third-party dimension tables, and every row is labelled with the standard it comes from.

Disclaimer: this table is a selection and quotation reference built from the standard editions named on this page, not a design basis or an acceptance standard.

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