

Hex Bolt Weight Chart

Grams per piece and kg per 1,000 pcs across the full length series, incl. matching nut/washer unit weights and in-stock flags.

M6–M36 · 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) g / piece	Weight per 1,000 pcs (kg) 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

M8

GB/T 5782 · As 36.6 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M8×10	9	9
M8×12	9	9
M8×16	11	11
M8×20	12	12
M8×25	14	14
M8×30	16	16
M8×35	18	18
M8×40	20	20
M8×45	22	22
M8×50	24	24

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M8×60	27	27
M8×70	31	31
M8×80	35	35
M8×90	39	39
M8×100	43	43
M8×110	47	47
M8×120	51	51
M8×140	59	59
M8×160	67	67
M8×180	75	75
M8×200	83	83
M8×250	100	100
M8×300	120	120

M10

GB/T 5782 · As 58 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M10×10	15	15
M10×12	16	16
M10×16	18	18
M10×20	20	20
M10×25	23	23
M10×30	26	26
M10×35	29	29
M10×40	32	32
M10×45	35	35
M10×50	38	38
M10×60	44	44
M10×70	50	50
M10×80	56	56
M10×90	63	63
M10×100	69	69
M10×110	75	75
M10×120	81	81
M10×140	93	93
M10×160	110	110
M10×180	120	120
M10×200	130	130
M10×250	160	160
M10×300	190	190

M12

GB/T 5782 · As 84.3 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M12×10	22	22

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M12×12	24	24
M12×16	27	27
M12×20	29	29
M12×25	33	33
M12×30	37	37
M12×35	41	41
M12×40	46	46
M12×45	50	50
M12×50	54	54
M12×60	63	63
M12×70	72	72
M12×80	81	81
M12×90	90	90
M12×100	99	99
M12×110	110	110
M12×120	120	120
M12×140	130	130
M12×160	150	150
M12×180	170	170
M12×200	190	190
M12×250	230	230
M12×300	280	280

M14

GB/T 5782 · As 115 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M14×10	34	34
M14×12	36	36
M14×16	40	40
M14×20	44	44
M14×25	49	49
M14×30	54	54
M14×35	59	59
M14×40	65	65
M14×45	71	71
M14×50	77	77
M14×60	89	89
M14×70	100	100
M14×80	110	110
M14×90	130	130
M14×100	140	140
M14×110	150	150
M14×120	160	160
M14×140	190	190

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M14×160	210	210
M14×180	230	230
M14×200	260	260
M14×250	320	320
M14×300	380	380

M16

GB/T 5782 · As 157 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M16×10	49	49
M16×12	51	51
M16×16	57	57
M16×20	62	62
M16×25	69	69
M16×30	75	75
M16×35	82	82
M16×40	89	89
M16×45	97	97
M16×50	100	100
M16×60	120	120
M16×70	140	140
M16×80	150	150
M16×90	170	170
M16×100	180	180
M16×110	200	200
M16×120	220	220
M16×140	250	250
M16×160	280	280
M16×180	310	310
M16×200	340	340
M16×250	420	420
M16×300	500	500

M18

GB/T 5782 · As 192 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M18×10	68	68
M18×12	71	71
M18×16	78	78
M18×20	84	84
M18×25	93	93
M18×30	100	100
M18×35	110	110
M18×40	120	120
M18×45	130	130

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M18×50	140	140
M18×60	160	160
M18×70	180	180
M18×80	200	200
M18×90	220	220
M18×100	240	240
M18×110	260	260
M18×120	280	280
M18×140	320	320
M18×160	360	360
M18×180	400	400
M18×200	440	440
M18×250	540	540
M18×300	640	640

M20

GB/T 5782 · As 245 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M20×10	90	90
M20×12	94	94
M20×16	100	100
M20×20	110	110
M20×25	120	120
M20×30	130	130
M20×35	140	140
M20×40	150	150
M20×45	160	160
M20×50	170	170
M20×60	200	200
M20×70	220	220
M20×80	250	250
M20×90	270	270
M20×100	300	300
M20×110	320	320
M20×120	350	350
M20×140	400	400
M20×160	450	450
M20×180	500	500
M20×200	540	540
M20×250	670	670
M20×300	790	790

M22

GB/T 5782 · As 303 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M22×10	110	110
M22×12	120	120
M22×16	130	130
M22×20	140	140
M22×25	150	150
M22×30	160	160
M22×35	180	180
M22×40	190	190
M22×45	200	200
M22×50	220	220
M22×60	250	250
M22×70	280	280
M22×80	310	310
M22×90	340	340
M22×100	360	360
M22×110	390	390
M22×120	420	420
M22×140	480	480
M22×160	540	540
M22×180	600	600
M22×200	660	660
M22×250	810	810
M22×300	960	960

M24

GB/T 5782 · As 353 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M24×10	150	150
M24×12	150	150
M24×16	170	170
M24×20	180	180
M24×25	190	190
M24×30	210	210
M24×35	220	220
M24×40	240	240
M24×45	250	250
M24×50	270	270
M24×60	300	300
M24×70	340	340
M24×80	370	370
M24×90	410	410
M24×100	440	440
M24×110	480	480
M24×120	520	520

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M24×140	590	590
M24×160	660	660
M24×180	730	730
M24×200	800	800
M24×250	980	980
M24×300	1200	1200

M27

GB/T 5782 · As 459 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) 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

M30

GB/T 5782 · As 561 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M30×10	290	290
M30×12	300	300
M30×16	320	320
M30×20	340	340
M30×25	360	360
M30×30	380	380
M30×35	410	410
M30×40	430	430

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M30×45	460	460
M30×50	480	480
M30×60	530	530
M30×70	580	580
M30×80	630	630
M30×90	690	690
M30×100	740	740
M30×110	800	800
M30×120	850	850
M30×140	970	970
M30×160	1100	1100
M30×180	1200	1200
M30×200	1300	1300
M30×250	1600	1600
M30×300	1900	1900

M33

GB/T 5782 · As 694 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M33×10	380	380
M33×12	390	390
M33×16	410	410
M33×20	440	440
M33×25	470	470
M33×30	500	500
M33×35	520	520
M33×40	550	550
M33×45	580	580
M33×50	610	610
M33×60	670	670
M33×70	730	730
M33×80	790	790
M33×90	860	860
M33×100	930	930
M33×110	1000	1000
M33×120	1100	1100
M33×140	1200	1200
M33×160	1300	1300
M33×180	1500	1500
M33×200	1600	1600
M33×250	1900	1900
M33×300	2300	2300

M36

GB/T 5782 · As 817 mm²

Length (mm)	Weight per piece (g) g / piece	Weight per 1,000 pcs (kg) kg / 1000 pcs
M36×10	490	490
M36×12	500	500
M36×16	530	530
M36×20	550	550
M36×25	590	590
M36×30	620	620
M36×35	660	660
M36×40	690	690
M36×45	730	730
M36×50	760	760
M36×60	830	830
M36×70	900	900
M36×80	970	970
M36×90	1000	1000
M36×100	1100	1100
M36×110	1200	1200
M36×120	1300	1300
M36×140	1400	1400
M36×160	1600	1600
M36×180	1800	1800
M36×200	1900	1900
M36×250	2300	2300
M36×300	2700	2700

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
- 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
- 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.