M14 Hex Nut Dimensions

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M14 Hex Nut dimensions to GB/T 41 / ISO 4034: width across flats (spanner size) 21 mm, nut height 12.8 mm, coarse thread pitch 2 mm. Tighten to approximately 134 Nm at property class 8.8 in a dry, as-supplied condition.

Width across flats (spanner size)

21 mm

Nut height

12.8 mm

Coarse thread pitch

2 mm

Tightening torque (class 8.8)

134 Nm

Figures are nominal values from the governing standard. Confirm against the tolerance class for your application before machining or ordering.

Dimensional data for M14 Hex Nut to GB/T 41 / ISO 4034, with the drive and the installation notes for this type.

Values are taken from the governing standard rather than from a general machine-thread table, because this type is not selected on one.

M14 Dimensional Row (GB/T 41 / ISO 4034)

Size	Pitch (mm)	Width across flats s (mm)	Width across corners e (mm)	Nut height
M14	2.0	21.0	23.36	12.8

Spanner & Drive for M14 Hex Nut — GB/T 41 / ISO 4034 (Series 060)

M14 Hex Nut — GB/T 41 / ISO 4034 (Series 060) have a width across flats of 21.0 mm — fit a 21.0 mm open-ended spanner or socket. A 6-point socket grips all six flats of the 21.0 mm hex and is what to reach for once a fastener has been on and off a few times; a 12-point ring spanner starts rounding a worn head. For repeatable preload, torque rather than feel.

Tightening Torque for M14

Class 8.8 (dry, ~μ 0.125)	≈ 134 Nm
Class 10.9 (dry, ~μ 0.125)	≈ 197 Nm
Class 12.9 (dry, ~μ 0.125)	≈ 231 Nm

Indicative dry-joint values. Lubrication can lower the required torque by 15–25%. Always confirm against the joint design, especially when going up a strength class.

Proof Load & Strength for M14

Nuts are graded to ISO 898-2 by the proof load the nut itself will hold (classes 04, 05, 5, 6, 8, 10 and 12), not by the 8.8 / 10.9 / 12.9 scale used for bolts. A class-8 nut is the correct mate for a class-8.8 bolt, and the joint is designed on the bolt, so no bolt-tension figure is quoted here.

Installation Tips for M14 Hex Nut — GB/T 41 / ISO 4034 (Series 060)

- Use a 6-point socket where access allows — 12-point sockets are more prone to rounding the corners on smaller sizes.
- On flanged or serrated variants, do NOT add a separate flat washer — the flange already spreads the load and the washer can defeat the locking serrations.

Mating Parts for M14

Pair M14 with the matching M14 bolt or screw, plus a M14 flat washer where required to distribute load on softer materials.

Custom manufacturing · Made to drawing

Need hex nut in a size this table does not list?

This page covers M14 hex nut. Thread, height, across-flats, property class, locking feature and flange form can all be varied, including thread sizes the standard series does not run to. Made by cold heading or tapping.

Minimum order from 2,000 pieces; samples within 7 days of drawing approval.

Custom nut manufacturing (https://engineeringhardware.com/custom/nuts/)

Send a drawing (https://engineeringhardware.com/custom/nuts/#rfq)

Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose. Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Dimensioned line drawing of M14 Hex Nut — GB/T 41 / ISO 4034 (Series 060) to GB/T 41 / ISO 4034. Side view and top view, drawn to the dimensions in the table below and redrawn for any size selected.

Opens a short step to confirm the exact specification before you enter contact details.

Request a Quote

Click “Request this configuration” under the drawing to confirm the exact specification, then add your contact details. You can also send the request without a specification — but only an accurate selection gets an accurate quote.

Dimensions & Specifications (GB/T 41 / ISO 4034)

Size	Pitch (mm)	Width across flats s (mm)	Width across corners e (mm)	Nut height
M3	0.5	5.5	6.01	2.4
M4	0.7	7.0	7.66	3.2
M5	0.8	8.0	8.79	4.7
M6	1.0	10.0	11.05	5.2
M8	1.25	13.0	14.38	6.8
M10	1.5	16.0	17.77	8.4
M12	1.75	18.0	20.03	10.8
M14	2.0	21.0	23.36	12.8
M16	2.0	24.0	26.75	14.8
M18	2.5	27.0	30.14	15.8
M20	2.5	30.0	33.53	18.0
M24	3.0	36.0	39.98	21.5
M30	3.5	46.0	50.85	25.6
M36	4.0	55.0	60.79	31.0

Materials & Grades

Select a material class to see the grades we supply it in. Each designation is listed with its ISO/EN, AISI/SAE, JIS and GB equivalents.

Stainless Steel

Carbon Steel 66

Alloy Steel 41

Bearing Steel 5

Spring Steel 25

Aluminum and Aluminum Alloys 21

Brass 17

Bronze 11

Copper 8

Titanium and Titanium Alloys 18

Nickel and Nickel Alloys 22

Iron-Nickel and High-Temperature Alloys 10

Tool Steel and Specialty Hardened Steel 9

Structural and Construction Steel 9

Stainless Steel

Austenitic Stainless Steel

A1
AISI 303 · SAE 303 · SUS303 · EN 1.4305 · X8CrNiS18-9

A2
AISI 304 · SAE 304 · SUS304 · EN 1.4301 · X5CrNi18-10 · 06Cr19Ni10

304L
AISI 304L · SUS304L · EN 1.4307 · X2CrNi18-9 · 022Cr19Ni10

302
AISI 302 · SUS302 · EN 1.4310

305
AISI 305 · SUS305 · EN 1.4303

A4
AISI 316 · SAE 316 · SUS316 · EN 1.4401 · X5CrNiMo17-12-2 · 06Cr17Ni12Mo2

316L
AISI 316L · SUS316L · EN 1.4404 · X2CrNiMo17-12-2 · 022Cr17Ni12Mo2

321
AISI 321 · SUS321 · EN 1.4541 · X6CrNiTi18-10

310 / 310S
AISI 310 · AISI 310S · SUS310S · EN 1.4845

302HQ
AISI 302HQ

A3

A5

347
AISI 347 · SUS347 · EN 1.4550 · X6CrNiNb18-10

309 / 309S
AISI 309 · AISI 309S · SUS309S

Martensitic Stainless Steel

AISI 410
SUS410 · EN 1.4006 · X12Cr13 · 12Cr13

AISI 420
SUS420J1 · SUS420J2 · EN 1.4021 · EN 1.4028 · 20Cr13 · 30Cr13

AISI 431
SUS431 · EN 1.4057 · X17CrNi16-2

C1

C3

C4

AISI 440A

AISI 440B

AISI 440C
SUS440C · EN 1.4125

Ferritic Stainless Steel

AISI 430
SUS430 · EN 1.4016 · X6Cr17 · 10Cr17

F1

AISI 434

AISI 444

Precipitation-Hardening Stainless Steel

17-4 PH
AISI 630 · UNS S17400 · SUS630 · EN 1.4542 · X5CrNiCuNb16-4

15-5 PH
UNS S15500

17-7 PH
UNS S17700

Duplex and Super Duplex Stainless Steel

Duplex 2205
UNS S31803 · UNS S32205 · EN 1.4462

Super Duplex 2507
UNS S32750 · EN 1.4410

D2

D4

D6

D8

Lean Duplex 2101
UNS S32101

Super Duplex S32760
UNS S32760 · EN 1.4501

Carbon Steel

Low-Carbon Steel

SAE 1006

SAE 1008

SAE 1010

SAE 1018

SAE 1020

Q195

Q235

SAE 1012

SAE 1015

Q215

ML08

ML08Al
ML10
ML15
ML20
SWRCH6A
SWRCH8A
SWRCH10A
SWRCH12A
SWRCH15A
SWRCH18A

Medium-Carbon Steel

SAE 1035
SAE 1045
S45C
C45
SAE 1030
SAE 1040
SAE 1050
30
35
40
45
50
S35C
S40C
S50C
C35

C40

High-Carbon Steel

SAE 1060
SAE 1070
65Mn
SAE 1065
SAE 1075
SAE 1080
SAE 1085
SAE 1090
SAE 1095
60
65
70
75
80
85

Cold-Heading Steel

SWRCH22A
10B21
SWRCH22K
SWRCH25K
SWRCH30K
SWRCH35K
SWRCH40K

ML20Mn
ML25
ML30
ML35
ML40
15B25

Alloy Steel

Chromium Steel

40Cr
45Cr
AISI 5140
SAE 5140
AISI 5120
SAE 5120
SCr420
SCr440

Chromium-Molybdenum Steel

35CrMo
42CrMo
AISI 4140
SCM435
SCM440
42CrMo4
30CrMo

AISI 4130
SAE 4130
SAE 4140
AISI 4142
AISI 4145
SCM415
SCM420
SCM445
EN 1.7220
EN 1.7225
25CrMo4
34CrMo4

Nickel-Chromium-Molybdenum Steel

AISI 4340
SAE 4340
40CrNiMo
SNCM439
EN 1.6511
36CrNiMo4

Boron Alloy Steel

10B22
10B21
15B21
15B25
20MnTiB
20Mn2B

35VB

40MnB

Bearing Steel

Bearing Steel

GCr15

AISI 52100
SAE 52100 · UNS G52986

SUJ2

100Cr6
EN 1.3505

GCr15SiMn

Spring Steel

Carbon Spring Steel

SAE 1065

SAE 1070

SAE 1075

SAE 1080

SAE 1095

65

70

75

80

65Mn

Silicon-Manganese Spring Steel

60Si2Mn
60Si2MnA
SUP6
SUP7

Chromium-Vanadium Spring Steel

50CrVA
SAE 6150
AISI 6150
SUP10

Stainless Spring Steel

AISI 301
SUS301
EN 1.4310
AISI 302
AISI 304
AISI 316
17-7 PH

Aluminum and Aluminum Alloys

Commercially Pure Aluminum

1050
1060
1070
1100

2xxx Series Aluminum

- 2024
- 2011
- 2014
- 2017

5xxx Series Aluminum

- 5052
- 5083
- 5754

6xxx Series Aluminum

- 6061
- 6061-T6
- 6063
- 6082
- 6082-T6

7xxx Series Aluminum

- 7075
- 7075-T6
- 7005
- 7050
- 7075-T73

Brass

Free-Cutting Brass

C36000
H62
HPb59-1
C3601
C3602
C3604
CuZn36Pb3
CuZn39Pb3
EN CW614N
EN CW617N
H65

Lead-Free Brass

C69300
C27450
CW510L
CW511L

Naval Brass

C46400
CuZn39Sn1

Bronze

Silicon Bronze

- C65500
- C65100
- C65600

Phosphor Bronze

- C51000
- C52100
- CuSn6
- CuSn8

Aluminum Bronze

- C95400
- C95500
- C63000
- CuAl10Ni5Fe4

Copper

Copper

- C11000
- T2
- C10100
- C10200
- C12200
- T1

TU1
TU2

Titanium and Titanium Alloys

Commercially Pure Titanium

Grade 2
Grade 1
Grade 3
Grade 4
TA1
TA2
TA3

Alpha-Beta Titanium Alloys

Grade 5
Ti-6Al-4V
TC4
UNS R56400

Low-Interstitial Grade

Grade 23
Ti-6Al-4V ELI
UNS R56407

Other Titanium Fastener Alloys

Ti-6Al-6V-2Sn
Ti-6Al-2Sn-4Zr-2Mo

Beta-C titanium

Ti-10V-2Fe-3Al

Nickel and Nickel Alloys

Commercially Pure Nickel

Nickel 200

UNS N02200

Nickel 201

UNS N02201

Inconel Alloys

Inconel 625
UNS N06625

Inconel 718
UNS N07718

Inconel 600
UNS N06600

Inconel 601
UNS N06601

Inconel 686
UNS N06686

Inconel X-750
UNS N07750

Monel Alloys

Monel 400
UNS N04400

Monel K-500
UNS N05500

Hastelloy Alloys

Hastelloy C-276
UNS N10276

Hastelloy C-22
UNS N06022

Hastelloy B-2
UNS N10665

Hastelloy B-3
UNS N10675

Hastelloy X
UNS N06002

Other Nickel Alloys

Alloy 20
UNS N08020

Alloy 625

Alloy 718

Alloy 825
UNS N08825

Alloy 925
UNS N09925

Iron-Nickel and High-Temperature Alloys

A286

A-286

UNS S66286

EN 1.4980

Invar

Invar 36
Alloy 36
UNS K93600
FeNi36

Alloy 42

Alloy 42
UNS K94100
FeNi42

Tool Steel and Specialty Hardened Steel

Tool Steel and Specialty Hardened Steel

AISI D2
AISI H13
SKD11
Cr12MoV
AISI O1
AISI A2
AISI S7
SKD61
9CrSi

Structural and Construction Steel

Structural and Construction Steel

ASTM A36

Q235B
Q355B
S355JR
Q235C
Q355C
S235JR
S275JR
S355J2

Applications & Industries for M14 Hex Nut

The sectors that buy Hex Nut to GB/T 41 / ISO 4034, and the duty each one buys them for. Stocked from M3 to M36.

Industries that specify Hex Nut

Maintenance & MRO **Replacements matched to the existing bolt class, thread and finish.**

Building services **Threaded rod, channel and suspension assemblies.**

Machine building & OEM **The clamping counter-face on studs and bolts throughout an assembly.**

Steel fabrication **Bolted structural and frame connections.**

Automotive & transport **Vibration-prone joints where the locking type is specified on the drawing.**

Typical applications

- **completing a bolted joint on a stud, rod or bolt**
- **locking an adjustment so it cannot drift**
- **joints re-torqued at a service interval**

Service conditions to specify against

Marine and coastal

Available in A4 (316) stainless for chloride exposure — coastal structures, pool halls, water treatment and deck hardware, where A2 will eventually pit.

High load

Supplied in ISO 898-1 property classes, so the joint can be designed to a stated proof load and tightened to a calculated torque rather than by feel.

Match the class

A nut below the bolt property class strips before the bolt reaches its own limit — pair class 8 nuts with 8.8 bolts, class 10 with 10.9.

Need help matching Hex Nut to your application? Send the assembly, the load and the environment with your enquiry and we will specify the size, material and finish against them.

Video: M14 Hex Nut Dimensions

(https://www.youtube.com/watch?v=b4lE1A6VfA0)(https://www.youtube.com/watch?v=b4lE1A6VfA0)

► Watch video: https://www.youtube.com/watch?v=b4lE1A6VfA0(https://www.youtube.com/watch?v=b4lE1A6VfA0)

DIN 934 Hexagon nuts class 6 surface black M14 2 0

(https://www.youtube.com/watch?v=b4lE1A6VfA0)(https://www.youtube.com/watch?v=b4lE1A6VfA0)

Third-party video, selected automatically for this topic. It is not produced by Engineering Hardware and is not a specification source — use the tables on this page for dimensional data.

Inside the plant

Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.

01

Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.

02

Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.

03

Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.

04

Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

Frequently Asked Questions

What is the height of an M14 nut?

The nominal height of a style-1 ISO 4032 M14 nut is in the spec table on this page. Style-2 (thick) is approximately 1.1× this height; thin (ISO 4035 / DIN 439) is approximately 0.5×.

What spanner size fits M14 Hex Nut — GB/T 41 / ISO 4034 (Series 060)?

The width across flats for M14 Hex Nut — GB/T 41 / ISO 4034 (Series 060) is 21.0 mm, so a 21.0 mm spanner or 6-point socket fits.

What is the coarse-thread pitch of M14 for Hex Nut — GB/T 41 / ISO 4034 (Series 060)?

For M14 the standard coarse pitch is 2 mm — this is the value used for Hex Nut — GB/T 41 / ISO 4034 (Series 060).

What clearance and tapping drill suit M14?

Use a 15.5 mm clearance hole (ISO 273 medium) for through-fixing, or a 12 mm tapping drill for a coarse M14 thread.

How do I request a quotation?

Use the technical drawing on this page to pick the exact configuration, then submit it with the quote form. We respond within one business day.

Related Pages

View the full Hex Nut — GB/T 41 / ISO 4034 (Series 060) page (https://engineeringhardware.com/fastener/cad-svg-060-hexnut/)

More Hex Nut — GB/T 41 / ISO 4034 (Series 060) Guides

- **M3 Hex Nut — GB/T 41 / ISO 4034 (Series 060) (https://engineeringhardware.com/guide/size/m3-cad-svg-060-hexnut/)**
- **M4 Hex Nut — GB/T 41 / ISO 4034 (Series 060) (https://engineeringhardware.com/guide/size/m4-cad-svg-060-hexnut/)**
- **M5 Hex Nut — GB/T 41 / ISO 4034 (Series 060) (https://engineeringhardware.com/guide/size/m5-cad-svg-060-hexnut/)**
- **M6 Hex Nut — GB/T 41 / ISO 4034 (Series 060) (https://engineeringhardware.com/guide/size/m6-cad-svg-060-hexnut/)**
- **M8 Hex Nut — GB/T 41 / ISO 4034 (Series 060) (https://engineeringhardware.com/guide/size/m8-cad-svg-060-hexnut/)**
- **M10 Hex Nut — GB/T 41 / ISO 4034 (Series 060) (https://engineeringhardware.com/guide/size/m10-cad-svg-060-hexnut/)**
- **M12 Hex Nut — GB/T 41 / ISO 4034 (Series 060) (https://engineeringhardware.com/guide/size/m12-cad-svg-060-hexnut/)**
- **M16 Hex Nut — GB/T 41 / ISO 4034 (Series 060) (https://engineeringhardware.com/guide/size/m16-cad-svg-060-hexnut/)**