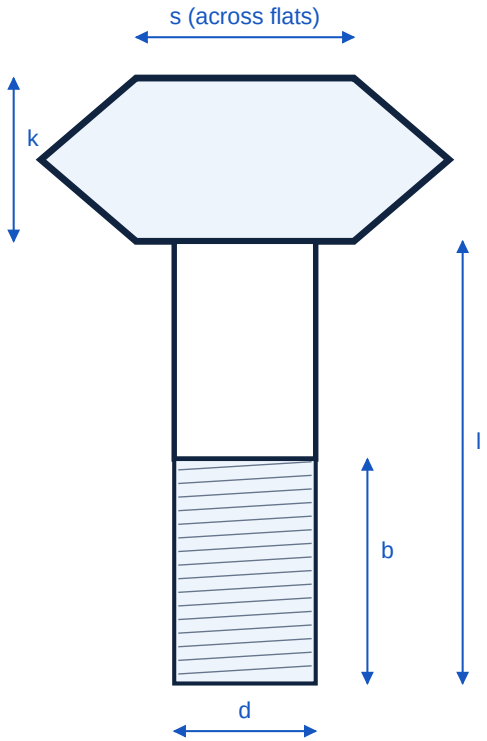
Hex Bolts | Dimensions & RFQ

Standard-reference guide - revision 14 November 2026

Lohar Forging handles hex bolt manufacturing enquiries in India for stainless steel, mild steel and specified high-tensile requirements. Select the dimensional standard, full or partial thread, material/property class and finish together. Send the required size and quantity, or share a drawing for custom production.

HEX BOLTS | DIMENSION KEY

Identification schematic - not to scale



Partial-thread side view

P = pitch; l excludes head

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The diameter identifies the thread; pitch specifies spacing between threads. Under-head length l includes the threaded and plain-shank portions. Across flats s controls spanner fit, while head height k controls installation clearance. For partial-thread bolts, confirm that the plain shank and thread run-out suit the joint stack-up. A socket-head Allen screw uses a different head and drive standard.

Custom manufacturing follows the customer-approved drawing. Email sales@loharforging.com or send the layout on WhatsApp to +91 98330 72266.

ISO 4014 hex bolt head and thread dimensions

ISO 4014 | Dimensions in mm; nominal reference values

Read the ISO head dimensions below with the named standard. Measure bolt length from the underside of the head, not including the head.

Thread d	Pitch P	Across flats s	Head height k	b: l <= 125	b: 125 < l <= 200
M6	1	10	4	18	24
M8	1.25	13	5.3	22	28
M10	1.5	16	6.4	26	32
M12	1.75	18	7.5	30	36
M16	2	24	10	38	44
M20	2.5	30	12.5	46	52
M24	3	36	15	54	60
M30	3.5	46	18.7	66	72
M36	4	55	22.5	-	84

b is the reference threaded length of a partially threaded bolt and depends on total length l. A dash means that length band is not listed here. Fully threaded ISO 4017 screws must follow their own run-out and length requirements. Dimensions are nominal reference values, not a stock list or a guarantee that every material/size combination is available. Specify the named standard and edition, material, finish and quantity in your enquiry. Manufacturing and inspection follow the agreed order or approved drawing.

Reference: Open the published ISO 4014 dimensional reference

DIN and ISO spanner-size differences

DIN 931/933 and ISO 4014/4017 | Dimensions in mm; nominal reference values

DIN and ISO references are often used together in purchasing, but these head sizes are not interchangeable without checking the drawing.

Thread	Legacy DIN across flats	ISO across flats
M10	17	16
M12	19	18
M14	22	21
M22	32	34

A standard substitution can change the spanner size even when thread diameter and pitch stay the same. Confirm the installation clearance and specified standard. Dimensions are nominal reference values, not a stock list or a guarantee that every material/size combination is available. Specify the named standard and edition, material, finish and quantity in your enquiry. Manufacturing and inspection follow the agreed order or approved drawing.

Reference: Open the published DIN 931/933 and ISO 4014/4017 dimensional reference

Send your drawing or standard requirement

Custom dimensions come from your layout. The following fields help us review the requirement and prepare a quotation.

1. Diameter, pitch and under-head length

2. Full thread or partial thread and required b

3. ISO/DIN standard and edition

4. Material or property class and matching nut

5. Finish, quantity, destination and inspection documents

Contact

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Guide: https://loharforging.com/hex-bolt-manufacturer-india.php

Order documents

State the required material, dimensional, coating and test documentation before quotation. Product ratings, conformity and certificate scope must refer to the exact order. This reference guide is not a test certificate or manufacturing approval.