

Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) — GB/T 1228 / ASTM A325

Engineering Hardware · engineeringhardware.com/fastener/cad-svg-046-sockethead

[Fasteners/ Screws/](#) Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046)

Screws · CAD Socket Head Cap Screws

Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) to GB/T 1228 / ASTM A325. Full dimensional table, materials, finishes and quotation. 14 sizes listed.



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.

Sends the selected values to the quote form below.

Request a Quotation for Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046)

Tell us the size, material, finish and quantity you need for Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) (GB/T 1228 / ASTM A325) and our team will respond within one business day. Click "Request this configuration" on the drawing above to send the parameters you just chose straight into this form.

Category Type Standard Thread size Material Finish

Dimensions & Specifications (GB/T 1228 / ASTM A325)

Every row below is a starting point for the customizer above — pick any size and the drawing will redraw to that row.

Size	Pitch (mm)	Length L (mm)	Head diameter dk (mm)	Head height k (mm)	Hex socket s (mm)	Reference standard
M3	0.5	20	5.5	3	2.5	ISO 4762 / GB/T 70.1
M4	0.7	25	7.0	4	3.0	ISO 4762 / GB/T 70.1
M5	0.8	30	8.5	5	4.0	ISO 4762 / GB/T 70.1
M6	1.0	40	10.0	6	5.0	ISO 4762 / GB/T 70.1
M8	1.25	50	13.0	8	6.0	ISO 4762 / GB/T 70.1
M10	1.5	60	16.0	10	8.0	ISO 4762 / GB/T 70.1
M12	1.75	80	18.0	12	10.0	ISO 4762 / GB/T 70.1
M14	2.0	80	21.0	14	12.0	ISO 4762 / GB/T 70.1
M16	2.0	100	24.0	16	14.0	ISO 4762 / GB/T 70.1
M18	2.5	100	27.0	18	14.0	ISO 4762 / GB/T 70.1
M20	2.5	120	30.0	20	17.0	ISO 4762 / GB/T 70.1
M24	3.0	150	36.0	24	19.0	ISO 4762 / GB/T 70.1
M30	3.5	180	45.0	30	22.0	ISO 4762 / GB/T 70.1
M36	4.0	200	54.0	36	27.0	ISO 4762 / GB/T 70.1

Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) are screws manufactured to GB/T 1228 / ASTM A325.

This page lists the full dimensional range with the key specifications engineers need to select and specify them.

What Are Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046)?

Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) are screws defined by GB/T 1228 / ASTM A325. They are selected by thread size and the dimensional characteristics shown below, and are available in a range of materials and finishes to suit the application and environment.

CAD Source Reference

This page is generated from an original native CAD part model (SolidWorks .SLDPRT) of the heavy hex socket head cap screw — gb/t 1228 / astm a325 (series 046) family maintained by our engineering team, covering 2 recorded size configurations. The technical drawing shown above is rebuilt parametrically from the dimensional table, so it always reflects the exact size and configuration you select. Native CAD files (STEP / SLDPRPT) can be supplied with your quotation on request.

Materials & Finishes

Common materials include carbon steel (typically zinc plated or hot-dip galvanized), alloy steel in property classes 8.8, 10.9 and 12.9, and stainless steel A2 (304) or A4 (316) for corrosion resistance. Specify the material, property class and surface finish appropriate to your load and environment.

Typical Applications

Machine assembly, tooling, enclosures and precision equipment where a clean, controllable drive and head form are needed. [Read the full application guide for Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 \(Series 046\) →](#)

Related Fasteners

- [Lifting Eye Bolt — GB/T 825 / DIN 580 \(Series 036\) — GB/T 825 / DIN 580](#)
- [Socket Head Cap Screw — GB/T 5281 / ISO 7379 \(Series 015\) — GB/T 5281 / ISO 7379](#)
- [Lifting Eye Bolt — GB/T 825 / DIN 580 \(Series 037\) — GB/T 825 / DIN 580](#)
- [Socket Head Cap Screw — GB/T 5281 / ISO 7379 \(Series 016\) — GB/T 5281 / ISO 7379](#)
- [Socket Head Cap Screw — GB/T 70.1 / ISO 4762 \(Series 014\) — GB/T 70.1 / ISO 4762](#)

Pricing

Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) are stocked and supplied to order. Pricing starts from approximately US\$0.050 per piece for standard sizes in carbon steel; final pricing depends on size, material, finish and order quantity (MOQ applies). Submit your exact configuration with the quote form above.

Frequently Asked Questions

What standard and drive type do Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) use?

Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) are manufactured to GB/T 1228 / ASTM A325 and use a hex socket (Allen key). The dimensional values on this page follow that standard.

What sizes are available for Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046)?

The table on this page lists 14 sizes for Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046), ranging from M3 to M36. Sizes outside the table can be quoted on request.

In which materials are Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) supplied?

Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) are supplied in alloy steel (typically 10.9 / 12.9 for socket screws), carbon steel and stainless A2 / A4, with finishes including zinc plating, hot-dip galvanizing and black oxide. Choose material and finish to suit the load and the service environment for Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046).

Which Allen key sizes fit Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046)?

The hex-socket size for each row of Heavy Hex Socket Head Cap Screw — GB/T 1228 / ASTM A325 (Series 046) is shown in the spec table — use the matching Allen / hex key (an ISO 2936 hex key set covers the full range).

How do I request a quotation?

Use the parametric drawing on this page to set the exact configuration (size, material, finish) and click "Request this configuration" — a specialist from engineeringhardware.com will respond within one business day.

More Screws

[← Previous Sheet-Metal Self-Tapping Screw — GB/T 845 / ISO 7049 \(Series 045\)GB/T 845 / ISO 7049](#)[Next → Hex Socket Flat Point Set Screw — GB/T 77 / ISO 4026 \(Series 019\)GB/T 77 / ISO 4026](#)