

Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) — GB/T 819.1 / ISO 7046

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[Fasteners/ Screws/](#) Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031)

Screws · CAD Countersunk Screws

Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) to GB/T 819.1 / ISO 7046. Full dimensional table, materials, finishes and quotation. 12 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 Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031)

Tell us the size, material, finish and quantity you need for Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) (GB/T 819.1 / ISO 7046) 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 819.1 / ISO 7046)

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)	Cross recess	Countersink angle (deg)	Reference standard
M3	0.5	20	5.6	1.65	PH1	90	ISO 7046 / GB/T 819
M4	0.7	25	7.5	2.2	PH2	90	ISO 7046 / GB/T 819
M5	0.8	30	9.2	2.5	PH2	90	ISO 7046 / GB/T 819
M6	1.0	40	11.0	3.0	PH3	90	ISO 7046 / GB/T 819
M8	1.25	50	14.5	4.0	PH3	90	ISO 7046 / GB/T 819
M10	1.5	60	18.0	5.0	PH4	90	ISO 7046 / GB/T 819
M12	1.75	80	22.0	6.0	PH4	90	ISO 7046 / GB/T 819
M14	2.0	80	25.0	7.0	PH4	90	ISO 7046 / GB/T 819
M16	2.0	100	29.0	8.0	PH4	90	ISO 7046 / GB/T 819
M18	2.5	100	33.0	9.0	PH4	90	ISO 7046 / GB/T 819
M20	2.5	120	36.5	10.0	PH4	90	ISO 7046 / GB/T 819
M24	3.0	150	43.5	12.0	PH4	90	ISO 7046 / GB/T 819

Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) are screws manufactured to GB/T 819.1 / ISO 7046. This page lists the full dimensional range with the key specifications engineers need to select and specify them.

What Are Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031)?

Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) are screws defined by GB/T 819.1 / ISO 7046. 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 phillips countersunk machine screw — gb/t 819.1 / iso 7046 (series 031) family maintained by our engineering team, covering 5 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 Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 \(Series 031\) →](#)

Related Fasteners

- [Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 \(Series 030\) — GB/T 819.1 / ISO 7046](#)
- [Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 \(Series 029\) — GB/T 819.1 / ISO 7046](#)
- [Torx Countersunk Head Screw — GB/T 2673 / ISO 14583 \(Series 023\) — GB/T 2673 / ISO 14583](#)
- [Torx Recessed Countersunk Screw — GB/T 2673 / ISO 14587 \(Series 024\) — GB/T 2673 / ISO 14587](#)
- [Slotted Countersunk Head Screw — GB/T 68 / ISO 2009 \(Series 039\) — GB/T 68 / ISO 2009](#)

Pricing

Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) 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 Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) use?

Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) are manufactured to GB/T 819.1 / ISO 7046 and use a hex socket drive. The dimensional values on this page follow that standard.

What sizes are available for Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031)?

The table on this page lists 12 sizes for Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031), ranging from M3 to M24. Sizes outside the table can be quoted on request.

In which materials are Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) supplied?

Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031) 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 Phillips Countersunk Machine Screw — GB/T 819.1 / ISO 7046 (Series 031).

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

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