DISLAB PRECISION

Property Class 12.9 Alloy Steel Socket Head Cap Screws

Metric socket head cap screws for machinery, automation equipment, fixtures and industrial assemblies.



Material	Property Class	Drive	Metric Range
Alloy steel	12.9	Internal hex socket	Approx. M1.6-M20

Product information in this catalog is intended for quotation and selection reference. Critical dimensions, thread configuration, finish, documentation and availability should be confirmed before ordering.

Product Overview

These socket head cap screws combine a compact cylindrical head with an internal hex drive, making them suitable for industrial assemblies where external wrench clearance is limited. The product is supplied in alloy steel with property class 12.9, with multiple metric diameters and lengths available by order requirement.



Key Features

Property class 12.9	Alloy steel construction
Internal hex socket drive	Compact cylindrical head
Metric thread sizes	Multiple length options
Industrial fastening applications	Custom requirements reviewed by drawing and quantity

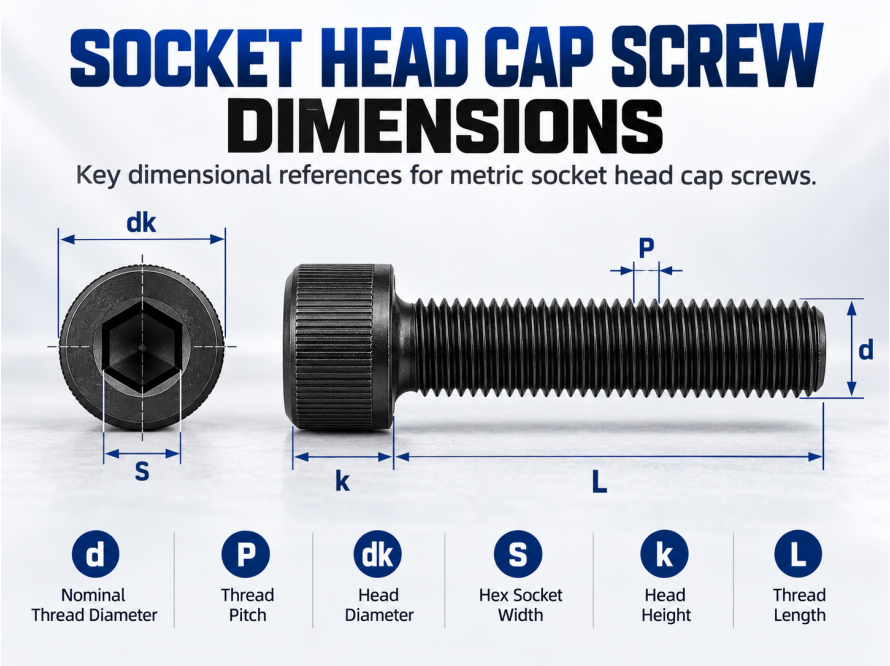
Material and Finish

Material: Alloy steel **Property class:** 12.9

Black surface finishes and other finishing options may be available depending on size, quantity and application requirements. The exact finish and any corrosion-performance requirement should be specified in the RFQ.

Dimensions and Size Reference

The symbols below are used for product selection: **d** = nominal thread diameter; **P** = thread pitch; **dk** = head diameter; **S** = hex socket size; **k** = head height; **L** = screw length.



Thread Size	Pitch P	Head Dia. dk	Hex Socket S	Head Height k
M1.6	0.35	3	1.5	1.6
M2	0.40	4	1.5	2
M2.5	0.45	4.5	2	2.5
M3	0.50	5.5	2.5	3
M4	0.70	7	3	4
M5	0.80	8.5	4	5
M6	1.00	10.22	5	6
M8	1.25	13	6	8
M10	1.50	16	8	10
M12	1.75	18.1	10	12
M14	2.00	21.1	12	14
M16	2.00	24.1	14	16
M18	2.50	27.1	14	18
M20	2.50	30.1	17	20

Dimensions above are based on supplier measurement data and may vary slightly by production batch. Please confirm critical dimensions before ordering. Unit: mm.

Available Metric Sizes and Lengths



Supplier measurement data covers approximately M1.6 through M20. Available lengths depend on diameter, production availability and order quantity. For an accurate quotation, provide the required diameter, pitch, length, quantity and finish.

Ordering Information to Specify

1	Thread diameter
2	Screw length
3	Required quantity
4	Property class
5	Surface finish
6	Full-thread or partial-thread requirement, if relevant
7	Drawing or critical dimensional requirements
8	Packaging and documentation requirements

Typical Industrial Applications



Industrial machinery	**Machine tools and fixtures**
Automation equipment	**Mechanical assemblies**
Equipment manufacturing	**General high-strength fastening applications**

Selection Note

Application suitability depends on the assembly design, mating materials, thread engagement, installation method and service environment. Where certification, controlled preload, corrosion performance or safety-critical use is required, those requirements should be defined before quotation.

Request a Quote

For a faster and more accurate quotation, send your required specification or drawing together with the information below.

Required item	Information to provide
Thread diameter	Example: M6, M8, M10
Length	Required screw length L
Quantity	Prototype, trial order or production quantity
Property class	12.9
Surface finish	Specify required finish or service condition
Thread configuration	Full thread or partial thread, if relevant
Drawing / tolerances	Attach drawing where dimensions are critical
Packaging	Standard or customer-specific requirement
Documentation	State any inspection or material documentation needed

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Product page:
https://dislabprecision.com/12-9-grade-alloy-steel-full-thread-hexagon-socket-head-cap-screws/

Website: https://dislabprecision.com/

Important: This catalog does not claim DIN 912 or ISO 4762 compliance, a specific surface treatment, corrosion resistance, guaranteed hardness or a prescribed tightening torque. Confirm any such requirement before order placement.