Hexagon domed cap nut, high type

The closed dome covers the screw end and reduces exposed thread. This high form has a hexagonal base: select thread size, spanner size and envelope around the actual screw projection.

Dimensional range

M4-M24

Thread

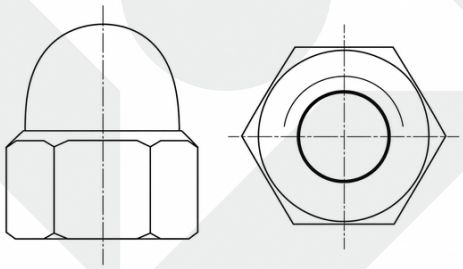
Metric · coarse pitch

Configuration

Closed cap nut · high type



Technical drawing



d

internal thread

P

pitch

s

width across flats

h

overall height

m

hexagon base height

Variants and dimensional data

Commercial reference dimensions M4-M24. Across flats M10:16, M12:18 and M14:21 mm; older supplies may differ. Other sizes and materials on request.

Dimensions in mm. Identification drawing, not a manufacturing drawing.

M	Pitch P	s	h max.	m max.
4	0.7	7	8	3.2
5	0.8	8	10	4
6	1	10	12	5
8	1.25	13	15	6.5
10	1.5	16	18	8
12	1.75	18	22	10
14	2	21	25	11
16	2	24	28	13
20	2.5	30	34	16
24	3	36	42	19

External height h is not the usable blind-hole depth. Check screw projection, thread engagement and clearance before the closed end: a screw bottoming against the dome can prevent correct clamping.

Table dimensions refer to the stated execution. DIN/UNI, polymer and special variants require verification of their own dimensions; they do not automatically inherit reference geometry, weight or performance.

Materials, classes, finishes and treatments

Executions are distinguished by reference, material, class and finish. DIN, ISO and UNI references do not imply dimensional equivalence or availability of every size in each material. Supply and batch documents require quotation confirmation.

Execution reference	Material	Class / hardness	Documented finishes
DIN 1587	Stainless A2	To be specified	To be specified
DIN 1587	Brass	Not applicable	Plain; To be specified
DIN 1587	Steel	To be specified	Black oxide; Black zinc plated; Bronze plated; Nickel plated; Plain; Yellow zinc plated; Zinc plated
DIN 7971	Brass	Not applicable	Plain; Zinc plated
DIN 1587	Stainless A4	To be specified	To be specified
DIN 1587	Stainless A4	80	To be specified
DIN 1587	Steel	6	Zinc plated ≥12 µm
DIN 1587	Polyamide	Not applicable	Natural colour
DIN 1587	Stainless A5 · 1.4571	To be specified	To be specified
DIN 1587	Duplex · 1.4462	To be specified	To be specified
DIN 1587	Stainless HCR · 1.4529	To be specified	To be specified
DIN 1587	Nylon PA66	Not applicable	To be specified

“To be specified” is a requirement not established by this selection; it does not imply class 70/80, HV hardness or an automatic finish. Steel property classes do not apply to nylon/polyamide; PA6 and PA66 are distinguished only where stated. For nuts with non-metallic inserts, the material shown is the body material.

Documentation

Document	Status
Declaration of conformity	Subject to order agreement
Material certificate	Subject to order agreement
EN 10204 2.2 test report	Subject to order agreement
EN 10204 3.1 inspection certificate	Subject to order agreement
Dimensional inspection report	Subject to order agreement
Coating report	Subject to order agreement
Other documentation	Subject to order agreement

Batch documents are not automatically included: specify your requirements in the RFQ.

ISO, DIN and UNI: key differences

DIN 1587:2021-11

DIN 1587:2021-11 is the current high-type standard. The table provides verified commercial dimensions for selection; specify internal construction, tolerances and product conformity in the order.