Thin square nut

A low-profile square nut for housings with limited axial space. Four flat sides allow location in a dedicated pocket; thread, width and height define the required configuration.

UNI 5596

Dimensional range

M3-M10

Thread

Metric · coarse pitch

Configuration

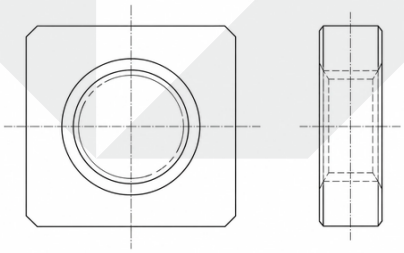
Square · thin

References

UNI 5596



Technical drawing



d

nominal thread

P

pitch

s

width across flats

m

height

e

across-corners reference

https://www.dueemmesidol.it/en/products/standard-fasteners/nuts/din-562/

Variants and dimensional data

Selected M3, M4, M5, M6, M8 and M10 in A2 stainless; A4 configured for M6 and M8. Other diameters and materials on request. Dimensions follow the DIN column of the technical reference, separately from UNI dimensions.

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

M	Pitch P	s	m	e	kg / 1,000 pcs
3	0.5	5.5	1.8	7	ND
4	0.7	7	2.2	8.9	ND
5	0.8	8	2.7	10.2	ND
6	1	10	3.2	12.7	ND
8	1.25	13	4	16.5	ND
10	1.5	16	5	20.2	ND

Weight for each size: ND. No weight is transferred from a UNI geometry or another material.

Reduced height limits effective thread engagement. Design the joint for its load and the nut specification; the square shape is not a self-locking feature.

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 562	Stainless A2	To be specified	To be specified
UNI 5596	Stainless A2	To be specified	To be specified
DIN 562	Stainless A4	To be specified	To be specified
DIN 562	Steel	To be specified	Plain

“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 562

DIN 562 identifies thin square nuts. The table is a commercial selection reference; confirm tolerances, conformity and mechanical requirements for the requested item.

UNI 5596

Related reference with differences: heights differ for M3-M6; for M10 the listed width is 17 mm UNI versus 16 mm DIN. Do not transfer dimensions between the two series.