High hexagon nut · commercial UNI series

Commercial high hexagon nuts with nominal height equal to diameter in the sizes tabulated here. For maintenance and new supply, check the width across flats and UNI specification instead of automatically substituting ISO 4033.

ISO 4033

Dimensional range

M6-M48

Thread

Metric · coarse pitch

Configuration

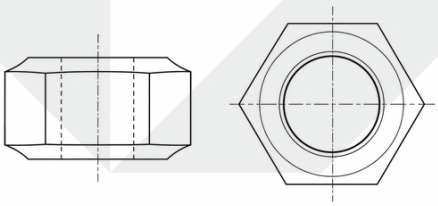
Commercial series · nominal height 1d

References

ISO 4033



Technical drawing



d

nominal diameter

P

coarse pitch

s

width across flats

m

nominal height

Variants and dimensional data

13 configured commercial sizes from M6 to M48, listed in the table. Not every intermediate size is included; other diameters, pitches and finishes on request.

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

M	Pitch P	s	m
6	1	10	6
8	1.25	13	8
14	2	22	14
16	2	24	16
18	2.5	27	18
20	2.5	30	20
27	3	41	27
30	3.5	46	30
33	3.5	50	33
36	4	55	36
39	4	60	39
45	4.5	70	45
48	5	75	48

Commercial class |8| is specified to DIN 267-4: retain the supply mechanical specification. Similar marking alone does not establish ISO 898-2 conformity.

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
UNI 5587	Steel	To be specified	Black oxide; GEOMET 321A; Hot-dip galvanized; Plain; Trivalent iridescent zinc plated; Yellow zinc plated; Yellow zinc plated Cr III 12 µm with sealer; Zinc plated; Zinc plated ≥12 µm; Zinc plated ≥8 µm; Zinc plated ≥9 µm
UNI 5587	Stainless A2	To be specified	To be specified
UNI 5587	Steel	10	GEOMET 321A; Hot-dip galvanized; Plain; Yellow zinc plated; Zinc plated
ISO 8674	Steel	10	GEOMET 321A
UNI 5587	Stainless A4	To be specified	To be specified
UNI 5587	Stainless A4	80	To be specified
ISO 4033	Steel	10	GEOMET 321A; Zinc plated
UNI 5587	Brass	Not applicable	Nickel plated; To be specified; Zinc plated
UNI 5587	Brass OT58	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

UNI 5587

Commercial UNI 5587 reference. Specify dimensions, property class to the stated specification and finish in the order. This table is not presented as ISO 4033.

ISO 4033:2023

Related commercial series with its own geometry. Examples: M10 has 17 mm flats in the commercial UNI series and 16 mm in ISO; M16 is 16 mm high in UNI and up to 16.4 mm in the ISO selection. Compare before substitution.