Serrated hexagon flange nut

An integral flange provides a wider bearing surface; the serrated design engages the supporting surface.

ISO 4161

Dimensional range

M6-M16

Thread

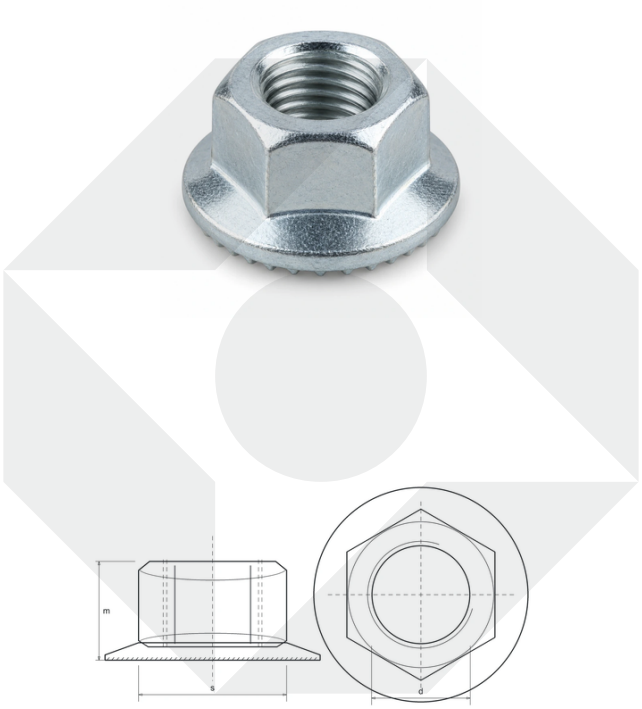
Metric · coarse pitch

Configuration

Serrated hexagon flange nut

References

ISO 4161



Technical drawing

d

nominal thread

P

pitch

s

width across flats

m

body height

h

overall height

dc

flange diameter. Only columns included in the table apply.

Variants and dimensional data

Reference sizes are listed in the table. Other diameters, pitches, materials and finishes are available on request, subject to an agreed supply specification.

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

M	Pitch P	s	m	dc max.
6	1	10	6	14.2
8	1.25	13	8	17.9
10	1.5	15	10	21.8
12	1.75	18	12	26
14	2	21	14	29.9
16	2	24	16	34.5

Serrations may mark the substrate or coating. They are not a prevailing-torque insert. Smooth flanges and alternative widths are separate designs to confirm; a flange does not replace a washer required by the joint design.

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 6923	Steel	8	Black zinc plated; Black zinc-nickel; GEOMET 321A; Geomet 321b; Geomet 500a; 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 ≥12 µm with sealer; Zinc plated ≥8 µm
DIN 6923	Stainless A2	To be specified	To be specified
DIN 6923	Stainless A4	To be specified	To be specified
DIN 6923	Steel	To be specified	Black zinc-nickel with sealer; GEOMET 321A
ISO 4161	Steel	To be specified	Yellow zinc plated Cr III 12 µm with sealer
DIN 6923	Steel	6S	Black zinc-nickel
DIN 6923	Steel	10	GEOMET 321A; Hot-dip galvanized; Plain; Zinc plated; Zinc plated and baked

“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 6923

Dimensions of the specified commercial selection do not replace a manufacturing drawing or the complete supply specification.

ISO 4161

Related reference; compare dimensions, design and mechanical specification before substitution. Exact equivalence is not claimed.