Hexagon collar nuts with a height of 1,5 d

DIN 6331

Sechskantmuttern 1,5 d hoch, mit Bund

Supersedes March 1987 edition.

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

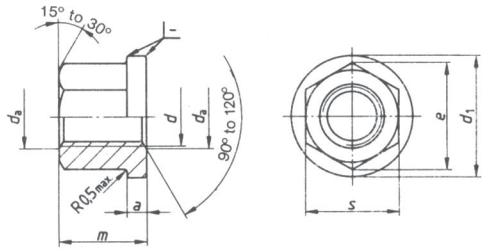
Dimensions in mm

1 Scope and field of application

This standard specifies hexagon nuts designed for use without washers, in assemblies that will be frequently disassembled and reassembled.

2 Dimensions and designation

Details left unspecified are to be selected as appropriate.



Designation of an M 12 hexagon collar nut of property class 10:

Hexagon nut DIN 6331 – M 12 – 10

d	a	d_1	d_a		e	m	s		Approx. mass (7,85 kg/dm³), per 1000 units, in kg
	js14	h13	min.	max.	min.	js15		Limit deviations	
M 6	7	14	6	6,75	11,05	9	10	h13	5
M 8	3,5	18	8	8,75	14,38	12	13		12,4
M 10	4	22	10	10,8	17,77	15	16		25,5
M 12	4	25	12	13	20,03	18	18		36,5
M 16	5	31	16	17,3	26,75	24	24		71
M 20	6	37	20	21,6	33,53	30	30		135
M 24	6	45	24	25,9	39,98	36	36	h14	230
M 27	7	50	27	29,1	45,63	40	41		320
M 30	8	58	30	32,4	51,28	45	46		470
M 36	10	68	36	38,9	61,31	54	55		810
M 42	12	80	42	45,4	72,61	63	65		1340
M 48	14	92	48	51,8	83,91	72	75		2040

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3 Property class (material)

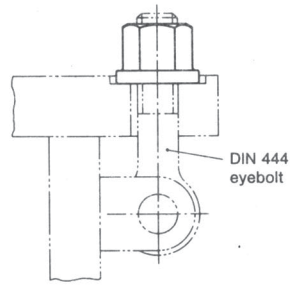
The nut material shall be of property class 8 or, preferably, 10, as specified in ISO 898 Part 2. The steel from which the nuts are manufactured may contain a certain amount of lead.

4 Hardness and tolerances

Property class 8 nuts shall have a hardness of 188 to 302 HV 30 and property class 10 nuts, of 240 to 302 HV 30.

Nuts shall be of product grade A as specified in ISO 4759 Part 1.

Example of application



Standards referred to

DIN 444	Eyebolts
ISO 272 : 1982	Fasteners; hexagon products; widths across flats
ISO 898-2 : 1980	Mechanical properties of fasteners; nuts with specified proof load values
ISO 4759-1 : 1978	Tolerances for fasteners; bolts, screws, and nuts with thread diameters from 1,6 to 150 mm and product grades A, B and C

Other relevant standards

DIN 267 Part 2	Fasteners; technical delivery conditions; product grades and tolerances
DIN 6784	Workpiece edges; concepts and indications on drawings

Previous editions

DIN 6331: 01.41, 07.62, 03.65x, 03.87.

Amendments

In comparison with the March 1987 edition, the widths across flats for sizes M 10 and M 12 have been harmonized with that specified in ISO 272.

International Patent Classification

F 16 B 37/00

F 16 B 39/24