DIN6330-91 (1728x2274x2 tiff)

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UDC 621.882.31 August 1991 Hexagon nuts with a height of 1,5 dDIN 6330 Sechskentmuttern 1,5 d hoch Supersedes March 1965x edition. in keeping with current practice in standards published by the international Organization for Standardization (ISO), a comma has Dimensions in mm Scope and field of application 1 This standard specifies hexagon nuts designed for use with bolts in assemblies that will be frequently disassembled and reassembled. They are provided with a spherical bearing face which, in conjunction with a 120° countersink or a conical seat as specified in DIN 6319, permit any displacements of clamping elements to be compensated. 2 Dimensions and designation Details left unspecified are to be selected as appropriate. Type B, with one spherical bearing face The nuts shall be countersunk on both sides at 120° down to diameter da. Designation of an M 20 type B hexagon nut: Hexagon nut DIN 6330 - B M 20 đ d_1 d, Approx. mass e m 7 s (7,85 kg/dm³), h14 max, min. Limit deviations per 1000 units, is15 in kg M 6 7 7 11,05 9 9 10 5 M 8 9 g. 14,38 12 11 13 9,6 M 10 11.5 11 17,77 15 15 16 21 M 12 h13 14 13 20,03 18 17 18 31.5 M 16 18 17 26,75 24 22 24 61 M 20 22 21 33,53 30 27 30 120 M 24 26 25 39.98 36 32 36 206 M 30 32 31 51.28 45 41 46 419 M 36 38 37 61.31 54 50 55 h14 715 M 42 44 43 72.61 63 58 65 1170 M 48 52 50 83.91 72 67 75 1800 Continued on page 2

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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 to be manufactured may contain a certain amount of lead.

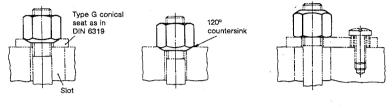
4 Hardness and tolerances

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.

Examples of application

With spherical bearing face

With flat bearing face



Standards referred to

DIN 6319	Sperical washers and conical seats
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

Previous editions

DIN 6330: 01.41, 10.43, 07.62, 09.62, 03.65x.

Amendments

The following amendments have been made to the March 1965x edition.

- e) The scope of the standard has been extended to include M 6 hexagon nuts.
- b) The widths across corners, e, have been amended and the widths across flats, s, for sizes M 10 and M 12 have been replaced by 16 mm and 18 mm, in agreement with ISO 272.
- c) Clauses 3 and 4 have been harmonized with the specifications given in ISO 4759 Part 1.
- d) The standard has been editorially revised.

International Patent Classification

F 16 B 5/02 F 16 B 37/00