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Westfield Fasteners Product Specification:

DIN 934 - Full Hexagon Nuts, Left-Hand Metric Fine Pitch

This datasheet provides technical specifications, dimensions and tolerances for full hexagon nuts with left-hand metric fine-pitch threads available from Westfield Fasteners, with dimensions based on DIN 934.

Product Description

These full-height hexagon nuts feature a left-hand metric fine-pitch thread. Unlike conventional right-hand nuts, they tighten anticlockwise and loosen clockwise when viewed from the end of the threaded component.

Fine-pitch threads have a smaller pitch than the corresponding standard metric coarse thread. These nuts must be used with bolts, screws or studs having the same nominal thread diameter, fine pitch and left-hand thread direction.

Designed for tightening with a suitable spanner or socket, left-hand nuts are used in applications where the direction of rotation or other operating conditions make a left-hand thread desirable. They may also be used with a compatible left-hand thin nut in a double-nut locking arrangement, where appropriate to the assembly design.

Scope of the DIN Standard

DIN 934 specifies dimensions and tolerances for hexagon nuts. The dimensional requirements for the full-height hexagon form provide the basis for the products described in this datasheet, while the applicable metric fine thread pitch and left-hand thread direction must also be specified.

DIN 934 has been superseded by ISO standards, including ISO 4032 for coarse-pitch hexagon nuts and ISO 8673 for fine-pitch hexagon nuts. Differences in dimensions may exist between the DIN and ISO specifications, so interchangeability should be checked against the relevant requirements.

Figure 1 and Table 1 show the form and dimensional information applicable to the range offered by Westfield Fasteners.

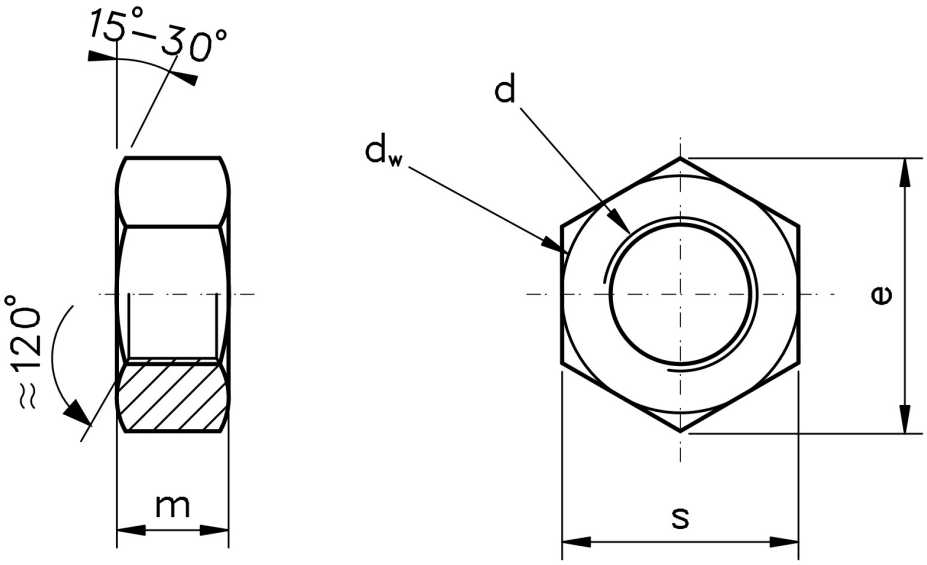


Figure 1: Full Hexagon Nut, Left-Hand Metric Fine Pitch

Table 1: Dimensions and Tolerances Based on DIN 934 (mm)

Thread, d		M8	M10	M12	M16	M20	M24
Fine Pitch, p		1.00	1.25	1.25	1.50	1.50	2.00
d_a	min	8	10	12	16	20	24
	max	8.75	10.8	13	17.3	21.6	25.9
d_w	min	11.3	15.3	17.2	22.2	28.2	33.2
e	min	14.38	18.90	21.10	26.75	32.95	39.55
m	nom=max	6.5	8	10	13	16	19
	min	6.14	7.64	9.64	12.3	14.9	17.7
s	nom=max	13	17	19	24	30	36
	min	12.73	16.73	18.67	23.67	29.16	35

Material Specifications

The following table summarises the available materials, mechanical properties and applicable specifications for this range of left-hand metric fine-pitch hexagon nuts. Material grades and property classes may vary according to the nominal thread size.

Material Code	Description	Grade / Spec.	Stress Under Proof Load (MPa)
A2	A2-70 Stainless Steel	A2-70	700
A4-80	A4-80 Stainless Steel	A4-80	800

For further information on the relevant dimensional specifications, refer to DIN 934. Confirm the nominal diameter, fine thread pitch and left-hand thread direction when selecting a matching fastener. E&OE.