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Westfield Fasteners Product Specification:

DIN 1587 - Metric Fine Pitch Dome Nuts

This product guide contains the specification for metric thread fine pitch dome nuts, a series of standard parts available from Westfield Fasteners. The basis of this specification is the DIN standard DIN 1587.

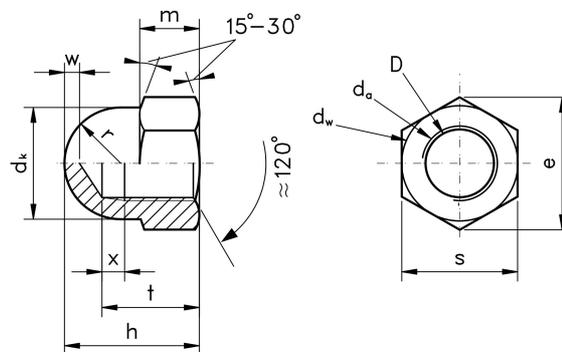
Product Description

A popular nut used in applications where aesthetics are important, giving an attractive look. The domed top also ensures a smooth snag-free finish helping to protect both the fixing and any item that may come into contact. Also known as an Acorn Nut, or domed cap nut.

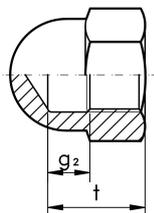
Metric fine pitch thread dome nuts have metric diameters and reduced pitches. These are to be used in conjunction with metric fine thread bolts and machine screws with matching pitch.

Scope of the DIN standard.

DIN 1587 specifies the dimensions and tolerances for coarse and fine pitch threads for hexagon domed cap nuts, with nominal diameters from M4 up to and including M24. Table 1 below defines these dimensions and tolerances. DIN 1587 covers steel, stainless steel and brass materials.



The useful thread length is given by t (thread height). x (thread run-out).



Alternative form with a thread undercut. The useful thread length is given by t (thread height). g_2 (length of thread undercut)

Figure 1: Dome Nut

Table 2: Dimensions & Tolerances according to DIN 1587 (mm) Continued

Thread, Diameter x Pitch			M8x1	M10x1.25, M10x1	M12x1.5, M12x1.25	M14x1,5	M16x1.5	M18x2, M18x1.5	M20x2, M20x1.5	M22x2, M22x1.5	M24x2
d _a	max		8.75	10.80	13.00	15.10	17.30	19.50	21.60	23.70	25.90
	min		8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
d _k	min		12.5	15.0	17.0	20.0	23.0	26.0	28.0	33.0	34.0
d _w	min		11.6	14.6	16.6	19.6	22.5	24.9	27.7	31.4	33.3
e	Product Grade A	min	14.38	17.77	20.03	23.35	26.75	30.14	33.53	37.72	39.98
	Product Grade B	min	14.20	17.59	19.85	22.78	26.17	29.56	32.95	37.29	39.55
x	max		2.0	2.5	3.0	3.0	3.0	4.0	4.0	4.0	4.0
g ₂	max		3.7	4.9	5.6	5.6	5.6	7.3	7.3	7.3	7.3
h	nom=max		15	18	22	25	28	32	34	39	42
	Product Grade A	min	14.57	17.57	21.48	24.48	27.48	31.38	33.38	38.38	41.38
	Product Grade B	min	14.30	17.30	21.16	24.16	27.16	31.00	33.00	38.00	41.00
m	max		6.50	8.00	10.00	11.00	13.00	15.00	16.00	18.00	19.00
	min		6.14	7.64	9.64	10.30	12.30	14.30	14.90	16.90	17.70
r	(auxiliary dimensions)		6.25	7.50	8.50	10.00	11.50	13.00	14.00	16.50	17.00
s	nom=max		13	16	18	21	24	27	30	34	36
	Product Grade A	min	12.73	15.73	17.73	20.67	23.67	26.67	29.67	33.38	35.38
	Product Grade B	min	12.57	15.57	17.57	20.16	23.16	26.16	29.16	33.00	35.00
t	max		11.35	13.35	16.35	18.35	21.42	25.42	26.42	29.42	31.50
	min		10.5	12.65	15.65	17.65	20.58	24.58	25.58	28.58	30.50
w	min		2	2	3	4	4	5	5	5	6

For further details, please refer to the ISO/DIN standard document for this item.