

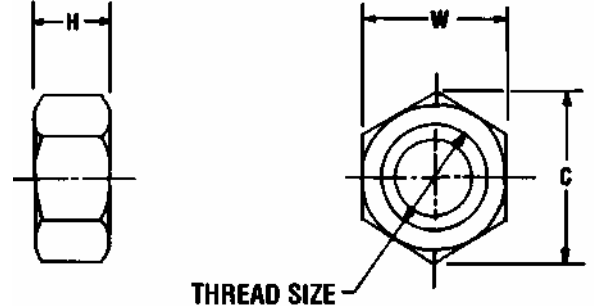
Hexagon Nuts



Metric Series-Dimensions-Physical Properties

Note :

1. The nuts will generally conform to IS : 1364, ISO 4032, DIN 934, 970.
2. Threads will conform to class 6H of IS : 4218, ISO 261/965, Coarse Series.
3. Material & Heat Treatment :
To achieve mechanical properties of Property Class 8 or 10 of IS : 1367-VI, ISO 898/2.
4. Nuts of Property Class 8 are used with bolts of Property Class 8.8 Nuts of Property Class 10 are used with bolts of Property Class 10.9. (In general, nuts of a higher property class can replace nuts of a lower property class in a joint)
5. In Bolts/Nut assembly, tightening should be done by rotation of nut. Torque values as recommended in tables for bolts (p:5).
6. Sizes in brackets are non-preferred standards.
7. All dimensions are in millimeters.



Dimensions :

Thread size	Pitch	W Max.	c Min.	H Max.
M4	0.7	7.0	7.66	3.20
M5	0.8	8.0	8.79	4.70
M6	1.0	10.0	11.05	5.20
M8	1.25	13.0	14.38	6.80
M10	1.5	16.0	17.77	8.40
M12	1.75	18.0	20.03	10.80
(M14)	2.0	21.0	23.35	12.80
M16	2.0	24.0	26.75	14.80
(M18)	2.5	27.0	29.56	15.80
M20	2.5	30.0	32.95	18.00
(M22)	2.5	34.0	37.72	19.40
M24	3.0	36.0	39.55	21.50
(M27)	3.0	41.0	45.20	23.80
M30	3.5	46.0	50.85	25.60
(M33)	3.5	50.0	55.37	28.70
M36	4.0	55.0	60.79	31.00
(M39)	4.0	60.0	66.44	33.40
M42	4.5	65.00	72.09	34.00

Physical Properties

Nut Size		Property Class 8				Property Class 10					
		Proof Load Stress		Hardness HV		Hardness HR		Proof Load Stress		Hardness HRC	
Over	To	N/mm ²	Min.	Max.	Min	Max.	N/mm ²	Min.	Max.	Min.	Max.
	M4	800	170	302	HRB87	HRC 30	1040	272	353	26	36
M4	M7	810			HRB90		1040				
M7	M10	830					1040				
M10	M16	840					1050				
M16	M42	920	233	353	HRC19	HRC 36	1060				