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Product Dimensions and Weights **DIN 582 Technical Specifications**

Metric DIN 582 Lifting Eye Nuts

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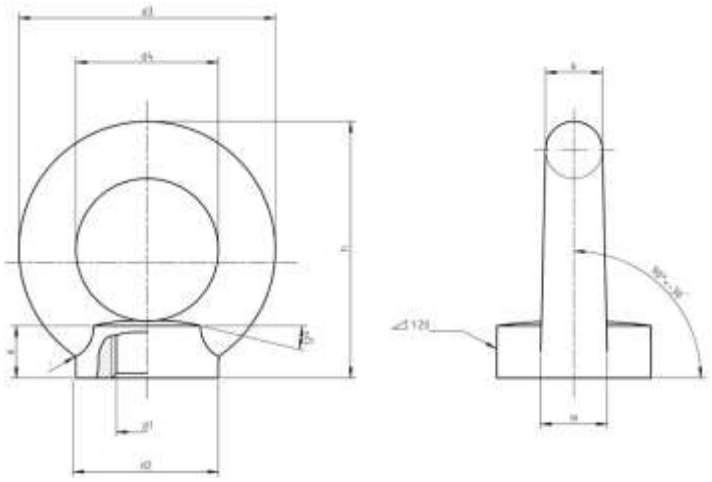

Dimensions of Metric DIN 582 Lifting Eye Nuts

Thread size d1	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48	M56	M64	M72x6	M80x6	M100x6
d2	20	25	30	35	40	50	65	75	85	100	110	120	150	170	190
d3	36	45	54	63	72	90	108	126	144	166	184	206	260	296	330
d4	20	25	30	35	40	50	60	70	80	90	100	110	140	160	180
e	8.5	10	11	13	16	20	25	30	35	40	45	50	60	70	80
h	36	45	53	62	71	90	109	128	147	168	187	208	260	298	330
k	8	10	12	14	16	20	24	28	32	38	42	48	60	68	75
m	10	12	14	16	19	24	28	32	38	46	50	58	72	80	88
r	4	4	6	6	8	12	15	18	20	22	25	25	35	35	40
Weight kg/1pc	0.1	0.09	0.16	0.24	0.36	0.72	1.32	2.08	3.11	5.02	6.69	9.3	18.5	27.3	36.4

Metric DIN 582 Lifting Eye Nuts are fasteners with a female threaded end and a looped head at the other end. They are designed to receive a hook, rope or cable. Eye nuts are designed for lifting vertical loads, and not recommended for use with angular lifts. Eye nuts that are not load-rated are designed for use with tie downs and guiding wires. They are not rated for lifting applications. Aspen Fasteners offers the following sizes for immediate delivery from stock: Diameters ranging from M6 to M36 available in A2 and marine grade A4 stainless steel. View available parts by clicking on the following link: DIN 582 Lifting Eye Nuts

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DIN (**D**eutsches **I**nstitut für **N**ormung - German Institute for Standardization) standards are issued for a variety of components including industrial fasteners as metric DIN 582 Lifting Eye Nuts. The DIN standards remain common in Germany, Europe and globally even though the transition to ISO standards is taking place. DIN standards continue to be used for parts which do not have ISO equivalents or for which there is no need for standardization.

1) Mechanical properties of stainless steel for metric DIN 582 Lifting Eye Nuts

Stainless steels can be divided into three groups of steel - austenitic, ferritic and martensitic. Austenitic steel is by far the most common type (>90% of commercial fasteners). The steel groups and strength classes are designated by a four-digit sequence of letters and numbers (eg A2-70) as shown in the following table. DIN EN ISO 3506 governs screws and nuts made from stainless steel.

Steel group	Steel grade	Strength class	Screws, Nuts and Bolts			
			Tensile strength N/mm^2	Tensile strength PSI	Dia range	Nut Load N/mm^2
Austenitic	A2 and A4	50	500	70,000	<=M39	500
		70	700	100,000	<=M20	700
		80	800	118,000	<=M20	800

The tensile stress is calculated with reference to the tensile stress area (see DIN EN ISO 3506-1979). Nuts to be paired with same grade of stainless steel screws

Steel group	Property Strength class	Made From	Characteristics
Austenitic	50	A1, A2	Soft; cold worked, turned and soft pressed fasteners
	70	A2, A4	Cold worked, normal strength formed fasteners
	80	A2, A4	Extreme cold worked, high strength, special applications

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2) Chemical composition of stainless steel metric DIN 582 Lifting Eye Nuts

Grade	USA Grade	**Material designation**	**Material no.**	**C %**	**Si ≤ %**	**Mn ≤ %**	**Cr %**	**Mo %**	**Ni %**
A 2	**304**	X 5Cr Ni 1810	1.4301	≤ 0.07	1.0	2.0	17.5 to 19.5	-	8.0 to 10.5
		X 2 Cr Ni 1811	1.4306	≤ 0.03	1.0	2.0	18.0 to 20.0	-	10 to 12.0
		X 8 Cr Ni 19/10	1.4303	≤ 0.07	1.0	2.0	17.0 to 19.0	-	11.0 to 13.0
A 4	**316**	X 5 Cr Ni Mo 1712	1.4401	≤ 0.07	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0
		X 2 Cr Ni Mo 1712	1.4404	≤ 0.03	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10 to 13

3) Chemical composition of steel metric DIN 582 Lifting Eye Nuts

PROPERTY CLASS	MATERIAL AND TREATMENT	CHEMICAL COMPOSITION LIMITS %				TEMPERING TEMP ºC MIN.
		C		P	S	
		min.	max.	max.	max.	
4.6, 4.8, 5.8, 6.8	Low or medium carbon steel	-	0.55	0.05	0.06	-
8.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
9.8	Medium carbon steel quenched, tempered	0.25	0.55	0.04	0.05	425
10.9	Medium carbon steel additives e.g. boron, Mn, Cr or Alloy steel - quenched, tempered	0.20	0.55	0.04	0.05	425
12.9	Alloy steel - quenched, tempered	0.20	0.50	0.035	0.035	380

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4) Mechanical properties of steel for metric DIN 582 Lifting Eye Nuts

MECHANICAL PROPERTY		PROPERTY CLASS								
						8.8				
		4.8	5.6	5.8	6.8	Up to M 16	Over M 16	9.8	10.9	12.9
Tensile Strength (Rm, N/mm²)	nom.	400	500		600	800		900	1000	1200
	min.	420	500	520	600	800	830	900	1040	1220
Vickers Hardness	min.	130	155	160	190	250	255	290	320	385
	max	250				320	336	360	380	435
Brinell Hardness	min.	124	147	152	181	319	242	266	295	353
	max.	238				385	319	342	363	412
Rockwell Hardness	min. HR	71	79	82	89	-				
	HRC	-	-	-	-	20	23	28	32	39
	HR	95			99	-				
	max. HRC	-	-	-	-	32	34	37	39	44
Yield Stress ReL. N/mm²	nom.	320	300	400	480	-				
	min.	340	300	420	480	-				
Stress at permanent set limit N/mm²	nom.	-				640		720	900	1080
	min.	-				640	660	720	940	1100

Disclaimer

Dimensional data and technical information for metric DIN 582 Lifting Eye Nuts was obtained from publicly available sources and not acquired through standards agencies. It has been completed and compiled for reference purposes only; where discrepancies are found they are subject to change without notice. Aspen Fasteners makes no warranties or representations regarding the accuracy and validity of the compiled information and data. Contact the relevant standards authorities for accurate and detailed information.