

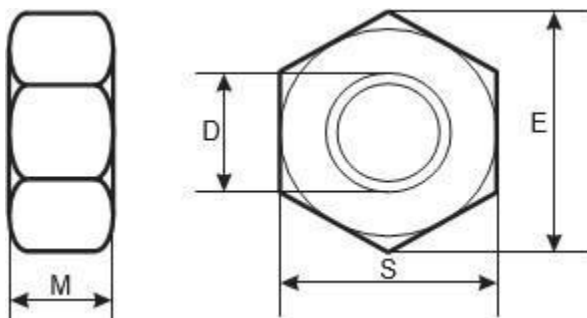


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Product Dimensions and Weights

DIN 934 / ISO 4032 Technical Specifications

## Metric DIN 934 Hexagon Nuts



**Dimensions of Metric DIN 934 Hexagon Nuts**

Thread D	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12	M14	M16	M18	
<b>P</b>	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	
<b>E</b>	min.	3.4	4.3	5.5	6.0	6.6	7.7	8.8	11.1	14.4	17.8	20.0	23.4	26.8	29.6
<b>M</b>	max.	1.3	1.6	2.0	2.4	2.8	3.2	4.7	5.2	6.8	8.4	10.8	12.8	14.8	15.8
	min.	1.1	1.4	1.8	2.2	2.6	2.9	4.4	4.9	6.4	8.0	10.4	12.1	14.1	15.1
<b>S</b>	max.	3.2	4.0	5.0	5.5	6.0	7.0	8.0	10.0	13.0	16.0	18.0	21.0	24.0	27.0
	min.	3.0	3.8	4.8	5.3	5.8	6.8	7.8	9.8	12.7	15.7	17.7	20.7	23.7	26.2

Thread D	M20	M22	M24	M27	M30	M33	M36	M39	M42	M45	M48	M52	M56	M60	M64	
<b>P</b>	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5	5	5	5.5	5.5	6	
<b>E</b>	min.	33.0	37.3	39.6	45.2	50.9	55.4	60.8	66.4	71.3	77.0	82.6	88.3	93.6	99.2	104.9
<b>M</b>	max.	18.0	19.4	21.5	23.8	25.6	28.7	31.0	33.4	34.0	36.0	38.0	42.0	45.0	48.0	51.0
	min.	16.9	18.1	20.2	22.5	24.3	27.4	29.4	31.8	32.4	34.4	36.4	40.4	43.4	46.4	49.1
<b>S</b>	max.	30.0	34.0	36.0	41.0	46.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0	95.0
	min.	29.2	33.0	35.0	40.0	45.0	49.0	53.8	58.8	63.1	68.1	73.1	78.1	82.8	87.8	92.8

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Metric DIN 934 Hexagon Nuts are the most common standard for metric hex nuts used in many applications where a metric nut is required.. 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 934 Hexagon 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. The ISO equivalent for DIN 934 is ISO 4032.

### 1) Chemical composition of steel metric DIN 934 Hexagon Nuts

PROPERTY CLASS	MATERIAL AND TREATMENT	CHEMICAL COMPOSITION LIMITS %				TEMPERING TEMP °C 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

### 2) Mechanical properties of steel for metric DIN 934 Hexagon Nuts

MECHANICAL PROPERTY		PROPERTY CLASS								
		4.8	5.6	5.8	6.8	8.8		9.8	10.9	12.9
						Up to M 16	Over M 16			
Tensile Strength (Rm, N/mm <sup>2</sup> )	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/mm <sup>2</sup>	nom.	320	300	400	480	-				
	min.	340	300	420	480	-				
Stress at permanent set limit N/mm <sup>2</sup>	nom.	-				640		720	900	1080
	min.	-				640	660	720	940	1100

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