

**DIN 931** similar to ISO 4014

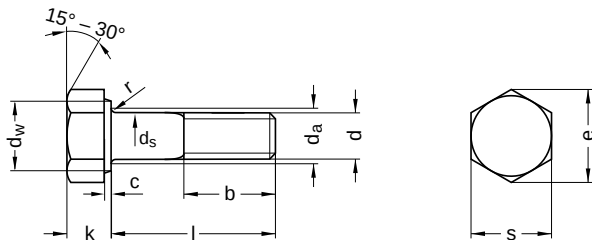
## Hexagon head bolts

Hexagon head | external hex | with body

Steel 8.8 | bright | Cr(VI)-free | Metric thread

Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread

There is a separation into product classes A and B, with the data sheet showing the largest range of values. For more information, see the technical details of the selected article.



Diameter (d)	b			c		d <sub>a</sub>	d <sub>s</sub>	d <sub>w</sub>
	l up to 125	l up to 200	l longer than 200	min.	max.	max.	max.	min.
M4	14	20	33	0.15	0.4	4.7	4	5.74
M5	16	22	35	0.15	0.5	5.7	5	6.74
M6	18	24	37	0.15	0.5	6.8	6	8.74
M8	22	28	41	0.15	0.6	9.2	8	11.47
M10	26	32	45	0.15	0.6	11.2	10	14.47
M12	30	36	49	0.15	0.6	13.7	12	16.47
M14	34	40	53	0.15	0.6	15.7	14	20.50
M16	38	44	57	0.20	0.8	17.7	16	22.00
M18	42	48	61	0.20	0.8	20.2	18	24.80
M20	46	52	65	0.20	0.8	22.4	20	27.70
M22	50	56	69	0.20	0.8	24.4	22	29.50
M24	54	60	73	0.20	0.8	26.4	24	33.25
M27	60	66	79	0.20	0.8	30.4	27	38.00
M30	66	72	85	0.20	0.8	33.4	30	42.75
M33	72	78	91	0.20	0.8	36.4	33	46.60
M36	78	84	97	0.20	0.8	39.4	36	51.11

Diameter (d)	e	k		r	s		Pitch (P)	Tool size
	min.	min.	max.	min.	max.	min.		
M4	7.50	2.60	3.00	0.20	7	6.64	0.70	SW 7
M5	8.63	3.26	3.74	0.20	8	7.64	0.80	SW 8
M6	10.89	3.76	4.24	0.25	10	9.64	1.00	SW 10
M8	14.20	5.06	5.54	0.40	13	12.57	1.25	SW 13
M10	17.59	6.11	6.69	0.40	17	16.73	1.50	SW 17
M12	19.85	7.21	7.79	0.60	19	18.67	1.75	SW 19

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Diameter (d)	e		k		r		s		Pitch (P)	Tool size
	min.	max.	min.	max.	min.	max.	min.	max.		
M14	24.49	8.62	8.98	0.60	22	21.67	2.00	SW 22		
M16	26.17	9.71	10.29	0.60	24	23.16	2.00	SW 24		
M18	29.56	11.15	11.85	0.60	27	26.16	2.50	SW 27		
M20	32.95	12.15	12.85	0.80	30	29.16	2.50	SW 30		
M22	35.03	13.65	14.35	0.80	32	31.00	2.50	SW 32		
M24	39.55	14.65	15.35	0.80	36	35.00	3.00	SW 36		
M27	45.20	16.65	17.35	1.00	41	40.00	3.00	SW 41		
M30	50.85	18.28	19.12	1.00	46	45.00	3.50	SW 46		
M33	55.37	20.58	21.42	1.00	50	49.00	3.50	SW 50		
M36	60.79	22.08	22.92	1.00	55	53.80	4.00	SW 55		

nominal size	Length (l)	
	min.	max.
25	24.58	25.42
30	29.58	30.42
35	34.50	35.50
40	39.50	40.50
45	43.75	46.25
50	48.75	51.25
55	53.50	56.50
60	58.50	61.50
65	63.50	66.50
70	68.50	71.50
75	74.40	75.60
80	78.50	81.50
85	83.25	86.75
90	88.25	91.75
95	93.25	96.75
100	98.25	101.75
105	103.25	106.75
110	108.25	111.75

nominal size	Length (l)	
	min.	max.
113	111.25	114.75
115	113.25	116.75
120	118.25	121.75
125	123.00	127.00
130	128.00	132.00
135	133.00	137.00
140	138.00	142.00
145	143.00	147.00
150	148.00	152.00
160	158.00	162.00
165	163.00	167.00
170	168.00	172.00
180	178.00	182.00
185	182.70	187.30
190	187.70	192.30
200	197.70	202.30
210	207.70	212.30
220	217.70	222.30

nominal size	Length (l)	
	min.	max.
230	227.70	232.30
240	237.70	242.30
250	247.70	252.30
260	257.40	262.60
270	267.40	272.60
280	277.40	282.60
290	287.40	292.60
300	297.40	302.60
320	317.15	322.85
330	327.15	332.85
350	347.15	352.85
360	357.15	362.85
580	576.85	583.15

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Diameter (d)	Length (l)																								
	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	113	115	120	125	130	135	
M4	●	●	●	●	●	●																			
M5	●	●	●	●	●	●	●	●		●															
M6		●	●	●	●	●	●	●	●	●	●	●		●											
M8		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●
M10				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M12				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M14					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M16						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M18							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M20							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M22								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M24									●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M27										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M30											●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M33													●	●	●	●	●	●	●	●	●	●	●	●	●
M36																		●	●	●	●	●	●	●	●

Diameter (d)	Length (l)																									
	140	145	150	160	165	170	180	185	190	200	210	220	230	240	250	260	270	280	290	300	320	330	350	360	580	
M4																										
M5																										
M6																										
M8	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M10	●	●	●	●	●	●	●			●		●									●					
M12	●		●	●		●	●			●		●	●								●					
M14	●		●				●																			
M16	●	●	●	●		●	●		●												●					
M18	●		●	●		●	●																			
M20	●	●	●	●		●	●		●	●				●							●					
M22	●		●	●		●	●		●		●	●														
M24	●		●	●		●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M27	●		●	●		●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M30			●	●		●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M33	●		●	●		●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M36	●		●	●		●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

● Combinations available in the eShop | Other sizes on request

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