

**DIN 933** similar to ISO 4017

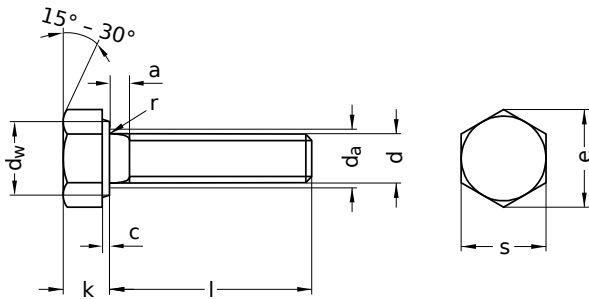
# Hexagon head bolts

Hexagon head | external hex | fully threaded

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Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread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)	a		c		d <sub>a</sub>	d <sub>w</sub>	e	k		r	s		Pitch (P)	Tool size	
	max.	min.	max.	min.	max.	min.	min.	nominal size	min.	max.	min.	max.			
M 3	1.50	0.15	0.4		3.6	4.6	6.04	2.0	1.88	2.12	0.10	5.5	5.32	0.50	SW 5,5
M 4	2.10	0.15	0.4		4.7	5.7	7.50	2.8	2.60	3.00	0.20	7.0	6.64	0.70	SW 7
M 5	2.40	0.15	0.5		5.7	6.7	8.63	3.5	3.35	6.35	0.20	8.0	7.64	0.80	SW 8
M 6	3.00	0.15	0.5		6.8	8.7	10.89	4.0	3.76	4.24	0.25	10.0	9.64	1.00	SW 10
M 8	3.75	0.15	0.6		9.2	11.4	14.20	5.3	5.06	5.54	0.40	13.0	12.57	1.25	SW 13
M 10	4.50	0.15	0.6		11.2	15.4	18.72	6.4	6.11	6.69	0.40	17.0	16.57	1.50	SW 17
M 12	5.25	0.15	0.6		13.7	17.2	20.88	7.5	7.21	7.79	0.60	19.0	18.48	1.75	SW 19
M 14	6.00	0.15	0.6		15.7	20.1	23.91	8.8	8.51	9.09	0.60	22.0	21.16	2.00	SW 22
M 16	6.00	0.20	0.8		17.7	22.0	26.17	10.0	9.71	10.29	0.60	24.0	23.16	2.00	SW 24
M 18	7.50	0.20	0.8		20.2	24.8	29.56	11.5	11.15	11.85	0.60	27.0	26.15	2.50	SW 27
M 20	7.50	0.20	0.8		22.4	27.7	32.95	12.5	12.15	12.85	0.80	30.0	29.16	2.50	SW 30
M 22	7.50	0.20	0.8		24.4	29.5	35.03	14.0	13.65	14.35	0.80	32.0	31.00	2.50	SW 32
M 24	9.00	0.20	0.8		26.4	33.2	39.55	15.0	14.65	15.35	0.80	36.0	35.00	3.00	SW 36
M 27	9.00	0.20	0.8		30.4	38.0	45.20	17.0	16.65	17.35	1.00	41.0	40.00	3.00	SW 41
M 30	10.50	0.20	0.8		33.4	42.7	50.85	18.7	18.28	19.12	1.00	46.0	45.00	3.50	SW 46
M 33	10.50	0.20	0.8		36.4	46.5	55.37	21.0	20.58	21.42	1.00	50.0	49.00	3.50	SW 50
M 36	12.00	0.20	0.8		39.4	51.1	60.79	22.5	22.08	22.92	1.00	55.0	53.80	4.00	SW 55
M 42	13.50	0.30	1.0		45.6	59.9	71.30	26.0	25.58	26.42	1.20	65.0	63.10	4.50	SW 65
M 48	15.00	0.30	1.0		52.6	69.4	82.60	30.0	29.58	30.42	1.60	75.0	73.10	5.00	SW 75

All technical data refer to the measure mm



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Length (l)			Length (l)			Length (l)		
nominal size	min.	max.	nominal size	min.	max.	nominal size	min.	max.
4	3.76	4.24	65	63.50	66.50	240	237.70	242.30
5	4.76	5.24	70	68.50	71.50	250	247.70	252.30
6	5.76	6.24	75	73.50	76.50	260	257.40	262.60
8	7.71	8.29	80	78.50	81.50	280	277.40	282.60
10	9.71	10.29	85	83.25	86.75	300	297.40	302.60
12	11.65	12.35	90	88.25	91.75	320	317.15	322.85
14	13.65	14.35	100	98.25	101.75	340	337.15	342.85
16	15.65	16.35	110	108.25	111.75	360	357.15	362.85
18	17.65	18.35	120	118.25	121.75	380	377.15	382.85
20	19.58	20.42	130	128.00	132.00	400	397.15	402.85
22	20.95	23.05	140	138.00	142.00	420	416.85	423.15
25	23.95	26.05	150	148.00	152.00	440	436.85	443.15
28	26.95	29.05	160	158.00	162.00	460	456.85	463.15
30	28.95	31.05	170	168.00	172.00	480	476.85	483.15
35	33.75	36.25	180	178.00	182.00	500	496.85	503.15
40	38.75	41.25	190	187.70	192.30	520	516.85	523.15
45	43.75	46.25	200	197.70	202.30	540	536.85	543.15
50	48.75	51.25	210	207.70	212.30	560	556.85	563.15
55	53.50	56.50	220	217.70	222.30	580	576.85	583.15
60	58.50	61.50	230	227.70	232.30	600	596.85	603.15

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Diameter (d)	Length (l)																													
	4	5	6	8	10	12	14	16	18	20	22	25	28	30	35	40	45	50	55	60	65	70	75	80	85	90	100	110	120	
M 3	●	●		●	●	●		●	●	●	●	●		●																
M 4			●	●	●	●	●	●	●	●	●	●		●	●	●	●	●		●		●								
M 5			●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●		●		●	●		
M 6			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 8				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 10				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 12								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 14										●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 16											●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 18												●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 20												●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 22																●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 24																●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 27																					●	●	●	●	●	●	●	●	●	●
M 30																●		●	●	●	●	●	●	●	●	●	●	●	●	●
M 33																					●	●	●	●	●	●	●	●	●	●
M 36																						●	●	●	●	●	●	●	●	●
M 42																										●	●	●	●	●
M 48																											●	●	●	●

Diameter (d)	Length (l)																													
	130	140	150	160	170	180	190	200	210	220	230	240	250	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580
M 3																														
M 4																														
M 5																														
M 6	●	●	●																											
M 8	●	●	●	●	●	●	●	●																						
M 10	●	●	●	●	●	●	●	●																						
M 12	●	●	●	●	●	●	●	●		●		●		●	●	●	●	●	●											
M 14																														
M 16	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 18																														
M 20	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 22																														
M 24	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 27	●	●	●																											
M 30	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 33	●	●	●																											
M 36		●	●	●	●	●	●	●		●		●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M 42	●	●	●		●																									
M 48	●	●	●			●																								

• Combinations available in the eShop | Other sizes on request

All technical data refer to the measure mm

