

**DIN 960** similar to ISO 8765

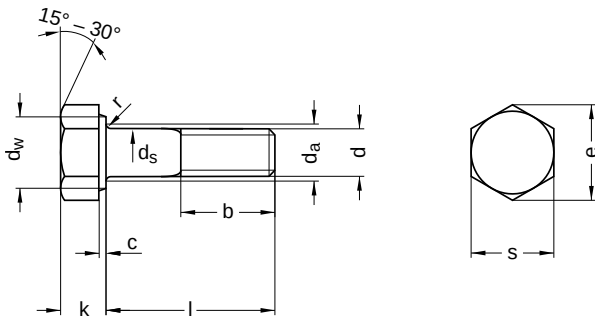
# Hexagon head bolts

Hexagon head | with body

Steel 10.9 | bright | Cr(VI)-free | Metric fine thread

Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22

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>w</sub>	e
	l up to 125	l up to 200	l longer than 200	min.	max.	max.	min.	min.
M10 x 1	28	32	45	0.15	0.6	11.2	15.4	18.72
M10 x 1.25	28	32	45	0.15	0.6	11.2	15.4	18.72
M12 x 1.5	30	38	49	0.15	0.6	13.7	17.2	20.88
M14 x 1.5	34	40	53	0.15	0.6	15.7	20.1	23.91
M16 x 1.5	38	44	57	0.20	0.8	17.7	22.0	26.17
M18 x 1.5	42	48	61	0.20	0.8	20.2	24.8	29.56
M20 x 1.5	48	52	65	0.20	0.8	22.4	27.7	32.95
M30 x 2	66	72	85	0.20	0.8	33.4	42.7	50.85

Diameter (d)	nominal size	k		r	s		Pitch (P)	Tool size
		min.	max.	min.	nominal size	min.		
M10 x 1	6.4	6.11	6.60	0.4	17	16.57	1.00	SW 17
M10 x 1.25	6.4	6.11	6.60	0.4	17	16.57	1.25	SW 17
M12 x 1.5	7.5	7.21	7.70	0.6	19	18.48	1.50	SW 19
M14 x 1.5	8.8	8.51	9.09	0.6	22	21.16	1.50	SW 22
M16 x 1.5	10.0	9.71	10.29	0.6	24	23.16	1.50	SW 24
M18 x 1.5	11.5	11.15	11.85	0.8	27	26.16	1.50	SW 27
M20 x 1.5	12.5	12.15	12.85	0.8	30	29.16	1.50	SW 30
M30 x 2	18.7	18.28	19.12	1.0	46	45.00	2.00	SW 46

All technical data refer to the measure mm



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nominal size	Length (l)	
	min.	max.
45	44.50	45.50
50	49.50	50.50
55	54.40	55.60
60	59.40	60.60
65	64.40	65.60
70	69.40	70.60
75	74.40	75.60
80	79.40	80.60

nominal size	Length (l)	
	min.	max.
85	83.25	86.75
90	88.25	91.75
100	98.25	101.75
110	108.25	111.75
120	118.25	121.75
130	128.00	132.00
140	138.00	142.00
150	148.00	152.00

nominal size	Length (l)	
	min.	max.
160	158.00	162.00
180	178.00	182.00
200	197.70	202.30

Diameter (d)	Length (l)																			
	45	50	55	60	65	70	75	80	85	90	100	110	120	130	140	150	160	180	200	
M10 x 1			●	●		●														
M10 x 1.25	●	●		●		●														
M12 x 1.5	●	●	●	●	●	●	●	●		●	●		●		●					
M14 x 1.5		●	●	●		●	●	●		●	●	●	●	●	●	●	●			
M16 x 1.5			●	●	●	●	●	●		●	●	●	●		●	●	●			
M18 x 1.5					●	●		●			●		●	●	●	●				
M20 x 1.5					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M30 x 2																	●			

• Combinations available in the eShop | Other sizes on request

All technical data refer to the measure mm

