

**DIN 931** similar to ISO 4014

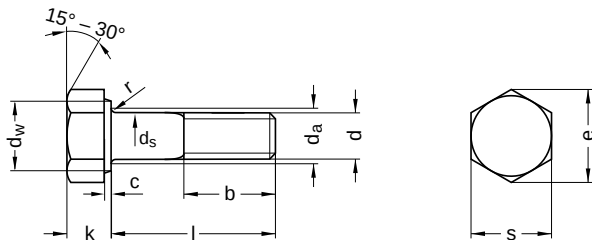
## Hexagon head bolts

Hexagon head | external hex | with body

Steel 10.9 | zinc flake coating | 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Further information: DIN-standard has been withdrawn | changed spanner widths for M10, M12, M14 and M22 | screws can be paired with a 6h tolerance-compliant female thread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.
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
M16	38	44	57	0.20	0.8	17.7	16	22.00
M20	46	52	65	0.20	0.8	22.4	20	27.70

Diameter (d)	e	k		r	s		Pitch (P)	Tool size
	min.	min.	max.	min.	max.	min.		
M8	14.20	5.06	5.54	0.4	13	12.57	1.25	SW 13
M10	17.59	6.11	6.69	0.4	17	16.73	1.50	SW 17
M12	19.85	7.21	7.79	0.6	19	18.67	1.75	SW 19
M16	26.17	9.71	10.29	0.6	24	23.16	2.00	SW 24
M20	32.95	12.15	12.85	0.8	30	29.16	2.50	SW 30

All technical data refer to the measure mm



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nominal size	Length (l)	
	min.	max.
40	39.5	40.5
45	44.5	45.5
50	49.5	50.5
60	59.4	60.6
70	69.4	70.6
75	74.4	75.6
80	79.4	80.6
90	89.3	90.7

nominal size	Length (l)	
	min.	max.
100	99.3	100.7
110	109.3	110.7
120	119.3	120.7
130	128.0	132.0
140	139.2	140.8
150	149.2	150.8
160	158.0	162.0

Diameter (d)	Length (l)															
	40	45	50	60	70	75	80	90	100	110	120	130	140	150	160	
M8	●		●													
M10	●		●													
M12		●	●	●	●	●	●	●	●	●	●	●				
M16				●	●		●	●	●	●						
M20							●	●	●	●	●		●	●	●	

• Combinations available in the eShop | Other sizes on request

All technical data refer to the measure mm

