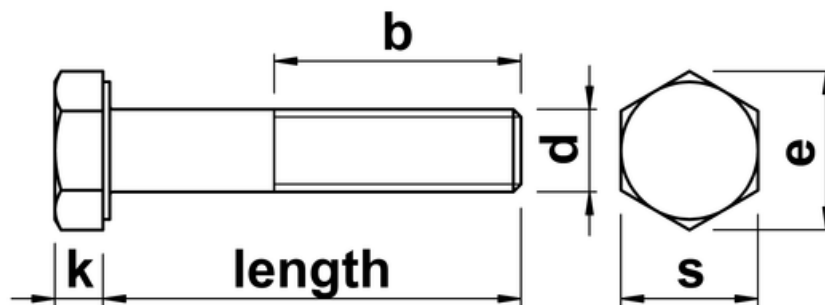




## Hex Head Bolts DIN 931 (ISO 4014)

The most common type of fastener, a hex head bolt is designed to be tightened with a standard spanner or ratchet and socket. Popularly used in all assemblies, a standard hex bolt is a staple across the world. Manufactured to ISO 4014 or DIN 931, and therefore includes an unthreaded section of the shaft. A hex drive permits a greater torque load to be applied to the joint over most other drive types.



d	thread pitch	b min. ≤ 125	b min. > 125	s	k min.	e
M3	0.50	12	-	5.5	2.0	6.01
M4	0.70	14	-	7	2.8	7.66
M5	0.80	16	-	8	3.35	8.79
M6	1.00	18	24	10	3.85	11.05
M7	1.00	20	26	11	4.80	12.12
M8	1.25	22	28	13	5.15	14.38
M10	1.50	26	32	16(17)	6.22	18.90
M12	1.75	30	36	18(19)	7.32	21.10
M14	2.00	34	40	21(22)	8.62	24.49
M16	2.00	38	44	24	9.82	26.75
M18	2.50	42	48	27	11.28	30.14
M20	2.50	46	52	30	12.28	33.53
M22	2.50	50	56	34(32)	13.78	35.72
M24	3.00	54	60	36	14.78	39.98
M27	3.00	60	66	41	16.65	45.20
M30	3.50	66	72	46	18.28	50.85
M33	3.50	72	78	50	20.58	55.37

<b>d</b>	<b>thread pitch</b>	<b>b min. &lt;= 125</b>	<b>b min. &gt; 125</b>	<b>s</b>	<b>k min.</b>	<b>e</b>
<b>M36</b>	4.00	78	84	55	22.08	60.79
<b>M39</b>	4.00	84	90	60	25	66.44
<b>M42</b>	4.50	90	96	65	26	71.30
<b>M48</b>	5.00	102	108	75	30	82.60