



## Hexagon head bolt

Steel 5.6 8.8 10.9

Stainless steel

Brass

### DIN 931-ISO 4014

Designatio : hexagon head bolt. Ø12mm . Normal metric thread and 80 mm

length L under the head = DIN 931 M 12 x 80.

d	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24
s	7	8	10	13	17	19	22	24	27	30	32	36
e	7.74	8.87	11.05	14.38	18.9	21.1	24.49	26.75	30.14	33.35	35.72	39.98
k	2.8	3.5	4	5.5	7	8	9	10	12	13	14	15

fully.threaded												
x												
b y	14	16	18	22	26	30	34	38	42	46	50	54
z	---	22	24	28	32	36	40	44	48	52	56	60

L mm	Weights in kg per 1000 pieces											
8												
10												
12												
16												
20												
25	3.12											
30		5.64	8.06									
35		6.42	9.13	18.2								
40		7.2	10.2	20.7	35	49		91				
45		7.98	11.3	22.2	38	53.6						
50		8.76	12.3	24.2	41.1	58.1	82.2	107				
55		9.54	13.4	25.8	43.8	62.6	88.3	115				
60		10.3	14.4	27.8	46.9	67	94.3	123	161	207		
65		11.1	15.5	29.8	50	70.3	100	131	171	219		
70		11.9	16.5	31.8	53.1	74.7	106	139	181	231	281	
75		12.7	17.6	33.7	56.2	79.11	112	147	191	243	296	364
80		13.5	18.6	35.7	62.3	83.6	118	155	201	255	311	382
90			20.8	39.6	68.5	92.4	128	171	220	279	341	428
100				43.6	77.7	100	140	186	240	303	370	464
110				47.5	83.9	109	152	202	260	327	400	500
120					90	118	165	218	280	351	430	535
130					96.2	127	175	230	295	365	450	560
140					102	136	187	246	315	389	480	595
150					108	145	199	262	335	423	510	630
Packaging	200		100		50		25				10	

in case of brass.weights are to be multiplied by 1.08