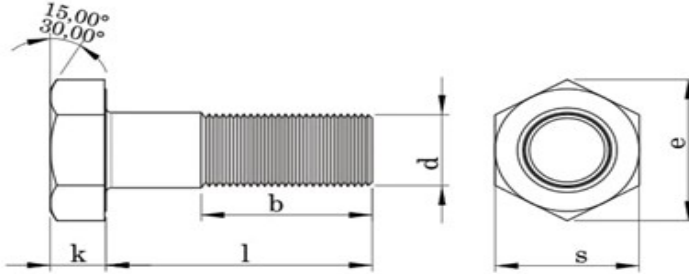


DIN 931

HEXAGON HEAD BOLTS

ISO 4014



Teknik Bilgiler / Technical Informations		M3	M4	M5	M6	M7	M8	M10	M12
Thread size / Anma çapı (d)		M3	M4	M5	M6	M7	M8	M10	M12
Pitch / Diş adımı	P	0,50	0,70	0,80	1,00	1,00	1,25	1,50	1,75
Nominal size		2,00	2,80	3,50	4,00	4,80	5,30	6,40	7,50
Head height / Kafa yüksekliği	A min.	1,88	2,68	3,35	3,85	4,65	5,15	6,22	7,32
	B max.	2,12	2,92	3,65	4,15	4,95	5,45	6,58	7,68
Nominal size	max.	5,50	7,00	8,00	10,00	11,00	13,00	17,00	19,00
	Product Grade	5,32	6,78	7,78	9,78	10,73	12,73	16,73	18,67
Head width / Anahtar ağı	Product Grade	6,01	7,66	8,79	11,05	12,12	14,38	18,90	21,10
Diagonal / Köşegen e	Product Grade	12,00	14,00	16,00	18,00	20,00	22,00	26,00	30,00
Thread length / Diş uzunluğu	b ¹			22,00	24,00	26,00	28,00	32,00	36,00
	b ²							45,00	49,00
	b ³								

b¹ for lengths l ≤ 125 mm.

b² for lengths l 125 mm. ≤ 200 mm.

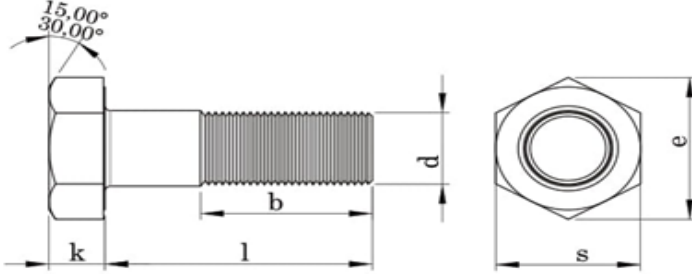
b³ for lengths > 200 mm.

Thread size Anma çapı	Product Grade				M3	M4	M5	M6	M7	M8	M10	M12
	A		B									
Length Boy	min.	max.	min.	max.	Weight / Ağırlık gr/p							
12	11,65	12,35	-	-								
14	13,65	14,35	-	-								
16	15,65	16,35	-	-								
18	17,65	18,35	-	-								
20	19,58	20,42	-	-	1,29							
22	21,58	22,42	-	-	1,43							
25	24,58	25,42	-	-	1,57	3,12	4,86					
28	27,58	28,42	-	-	1,74	3,41	5,25					
30	29,58	30,42	-	-	1,85	3,61	5,64	8,06	12,10			
35	34,50	35,50	-	-		4,04	6,42	9,13	13,60	18,20	44,60	42,13
40	39,50	40,50	-	-		4,53	7,20	10,20	15,10	20,30	35,00	49,10

Hexagon Bolts (DIN 931) are a partially threaded fastener with a hexagon-shaped head that is usually fixed with a spanner or socket tool. Hosting a machine thread, these bolts are suitable for use with either a nut or within a pre-tapped hole.

DIN 931 ISO 4014

HEXAGON HEAD BOLTS



Teknik Bilgiler / Technical Informations												
Thread size Anma çapı	Product Grade				M3	M4	M5	M6	M7	M8	M10	M12
	A		B									
Length Boy	min.	max.	min.	max.	Weight /Ağırlık gr/p							
45	44,50	45,50	-	-	5,03	7,98	11,30	16,60	22,20	38,00	53,60	
50	49,50	50,50	-	-	5,52	8,76	12,30	18,10	24,20	41,10	58,10	
55	54,40	55,60	-	-	6,02	9,54	13,40	19,50	25,80	43,80	62,60	
60	59,40	60,60	-	-	6,51	10,30	14,40	21,00	27,80	46,90	67,00	
65	64,40	65,60	-	-	7,01	11,10	15,50	22,50	29,80	50,00	70,30	
70	69,40	70,60	-	-	7,50	11,90	16,50	24,00	31,80	53,10	74,70	
75	74,40	75,60	-	-		12,70	17,60	25,50	33,70	56,20	79,10	
80	79,40	80,60	-	-		13,50	18,60	27,00	35,70	59,30	83,60	
85	84,30	85,70	-	-			19,70	28,50	37,70	62,40	88,10	
90	89,30	90,70	-	-			20,80	30,00	39,50	65,50	92,40	
95	94,30	95,70	-	-			21,90	31,50	41,40	68,60	96,80	
100	99,30	100,70	-	-			23,00	33,10	43,30	71,70	101,00	
110	109,30	110,70	-	-			25,20		47,60	77,90	109,00	
120	119,30	120,70	-	-			27,30		51,60	84,10	118,00	
130	129,20	130,80	-	-			29,70		55,60	90,30	125,95	
140	139,20	140,80	-	-			31,80		59,60	96,50	134,10	
150	149,20	150,80	-	-			34,00		63,60	102,70	142,60	
160	159,20	160,80	158,00	162,00							153,00	
170	169,20	170,80	168,00	172,00							162,00	
180	179,20	180,80	178,00	182,00							171,00	
190	189,10	190,90	187,70	192,30								
200	199,10	200,90	197,70	202,30								182,00
220	-	-	217,70	222,30								207,00
240	-	-	237,70	242,30								
260	-	-	257,40	262,60								
280	-	-	277,40	282,60								
300	-	-	297,40	302,60								

COATING : Plain, Zinc Plate, Zinc Flake, HDG

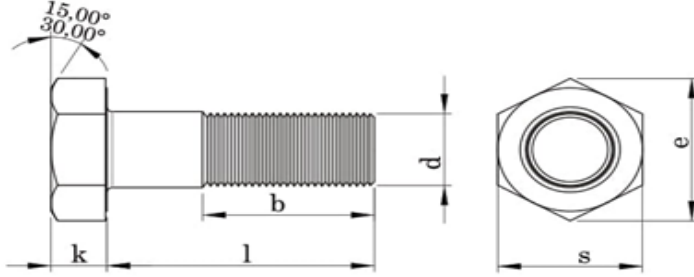
HARDNESS: Grade 5.8, Grade 8.8 , Grade 10.9, Grade 12.9 available

Stainless Steel: A2 (304 SS) and A4 (316 SS) available

DIN 931

HEXAGON HEAD BOLTS

ISO 4014



Teknik Bilgiler / Technical Informations								
Thread size / Anma çapı (d)			M14	M16	M18	M20	M22	
Pitch / Diş adımı	P		2,00	2,00	2,50	2,50	2,50	
	Nominal size	max.	8,80	10,00	11,50	12,50	14,00	
Head height / Kafa yüksekliği	A	min.	8,62	9,82	11,28	12,28	13,78	
		max.	8,98	10,18	11,72	12,72	14,22	
	B	min.		9,71	11,15	12,15	13,65	
		max.		10,29	11,85	12,85	14,35	
	Nominal size	max.	22,00	24,00	27,00	30,00	32,00	
Head width / Anahtar ağızı	Product Grade	ş	A	21,67	23,67	26,67	29,67	31,61
		min.	B		23,16	26,16	29,16	31,00
Diagonal / Köşegen e	Product Grade	min.	A	24,49	26,75	30,14	33,53	35,72
		B		26,17	29,56	32,95	35,03	
Thread length / Diş uzunluğu		b ¹	34,00	38,00	42,00	46,00	50,00	
		b ²	40,00	44,00	48,00	52,00	56,00	
		b ³	53,00	57,00	63,00	65,00	69,00	

b¹ for lengths l ≤ 125 mm.

b² for lengths l 125 mm. ≤ 200 mm.

b³ for lengths > 200 mm.

Thread size Anma çapı	Product Grade				M14	M16	M18	M20	M22
	A		B						
Length Boy	min.	max.	min.	max.	Weight /Ağırlık gr/p				
12	11,65	12,35	-	-					
14	13,65	14,35	-	-					
16	15,65	16,35	-	-					
18	17,65	18,35	-	-					
20	19,58	20,42	-	-					
22	21,58	22,42	-	-					
25	24,58	25,42	-	-					
28	27,58	28,42	-	-					
30	29,58	30,42	-	-					
35	34,50	35,50	-	-					
40	39,50	40,50	-	-					
45	44,50	45,50	-	-					
50	49,50	50,50	-	-	82,00	99,00	107,00	141,00	185,00

COATING : Plain, Zinc Plate, Zinc Flake, HDG

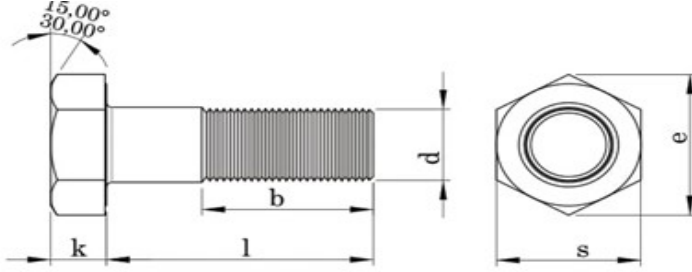
HARDNESS: Grade 5.8, Grade 8.8 , Grade 10.9, Grade 12.9 available

Stainless Steel: A2 (304 SS) and A4 (316 SS) available

DIN 931

ISO 4014

HEXAGON HEAD BOLTS



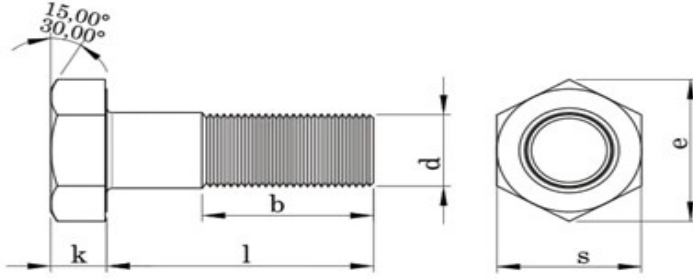
Teknik Bilgiler / Technical Informations									
Thread size Anma çapı	Product Grade				M14	M16	M18	M20	M22
	A		B						
Length Boy	min.	max.	min.	max.	Weight /Ağırlık gr/p				
55	54,40	55,60			88,10	115,00	151,00	207,00	
60	59,40	60,60			94,10	123,00	161,00	219,00	
65	64,40	65,60			98,80	131,00	171,00	231,00	281,00
70	69,40	70,60			105,00	139,00	181,00	243,00	296,00
75	74,40	75,60			111,00	147,00	191,00	255,00	311,00
80	79,40	80,60			117,00	155,00	200,00	267,00	326,00
85	84,30	85,70			123,00	163,00	210,00	279,00	341,00
90	89,30	90,70			127,00	171,00	220,00	291,00	356,00
95	94,30	95,70			133,00	179,00	230,00	303,00	370,00
100	99,30	100,70			139,00	186,00	240,00	327,00	400,00
110	109,30	110,70			151,00	202,00	260,00	351,00	430,00
120	119,30	120,70			164,00	218,00	280,00	374,00	450,00
130	129,20	130,80			174,00	230,00	296,00	398,00	480,00
140	139,20	140,80			185,00	246,00	316,00	422,00	510,00
150	149,20	150,80			198,00	262,00	336,00	446,00	540,00
160	159,20	160,80	158,00	162,00	211,00	278,00	356,00	470,00	570,00
170	169,20	170,80	168,00	172,00	223,00	294,00	376,00	494,00	600,00
180	179,20	180,80	178,00	182,00	235,00	310,00	396,00	519,00	630,00
190	189,10	190,90	187,70	192,30	247,00	326,00	415,00	544,00	660,00
200	199,10	200,90	197,70	202,30	260,00	342,00	435,00	590,00	720,00
220			217,70	222,30		374,00		635,00	
240			237,70	242,30		406,00		680,00	
260			257,40	262,60					
280			277,40	282,60					
300			297,40	302,60					



DIN 931

HEXAGON HEAD BOLTS

ISO 4014



Teknik Bilgiler / Technical Informations		M24	M27	M30	M33	M36	M39
Thread size / Anma çapı (d)		3,00	3,00	3,50	3,50	4,00	4,00
Pitch / Diş adımı	P						
	Nominal size max.	15,00	17,00	18,70	21,00	22,50	25,00
Head height / Kafa yüksekliği	A	min.	14,78				
		max.	15,22				
	B	min.	14,65	16,65	18,28	20,58	22,08
		max.	15,35	17,35	19,12	21,42	22,92
	Nominal size max.	36,00	41,00	46,00	50,00	55,00	60,00
Head width / Anahtar ağız	Product Grade	s	A	35,38			
		min.	B	35,00	40,00	45,00	49,00
Diagonal / Köşegen e	Product Grade	min.	A	39,98			
		B	39,55	45,20	50,85	55,37	60,79
Thread length / Diş uzunluğu	b ¹	54,00	60,00	66,00	72,00	78,00	84,00
	b ²	60,00	66,00	72,00	78,00	84,00	90,00
	b ³	73,00	79,00	85,00	91,00	97,00	103,00

b¹ for lengths l ≤ 125 mm.

b² for lengths l 125 mm. ≤ 200 mm.

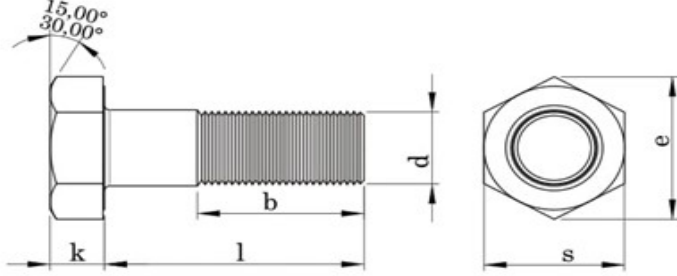
b³ for lengths > 200 mm.

Thread size Anma çapı	Product Grade				M24	M27	M30	M33	M36	M39
	A		B							
Length Boy	min.	max.	min.	max.	Weight /Ağırlık gr/p					
40	39,50	40,50	-	-						
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	-	-	364,00					
80	79,40	80,60	-	-	392,00	511,00				
85	84,30	85,70	-	-	410,00	534,00				
90	89,30	90,70	-	-	428,00	557,00	712,00			
95	94,30	95,70	-	-	446,00	580,00	739,00			

COATING : Plain, Zinc Plate, Zinc Flake, HDG

HARDNESS: Grade 5.8, Grade 8.8 , Grade 10.9, Grade 12.9 available

Stainless Steel: A2 (304 SS) and A4 (316 SS) available

**DIN 931**
ISO 4014**HEXAGON HEAD BOLTS**

Teknik Bilgiler / Technical Informations										
Thread size Anma çapı	Product Grade				M24	M27	M30	M33	M36	M39
	A		B							
Length Boy	min.	max.	min.	max.	Weight /Ağırlık gr/p					
100	99,30	100,70	-	-	464,00	603,00	767,00	951,00		
110	109,30	110,70	-	-	500,00	650,00	823,00	1020,00	1240,00	
120	119,30	120,70	-	-	535,00	695,00	880,00	1090,00	1320,00	1510,00
130	129,20	130,80	-	-	560,00	720,00	920,00	1150,00	1390,00	1580,00
140	139,20	140,80	-	-	595,00	765,00	975,00	1220,00	1470,00	1660,00
150	149,20	150,80	-	-	630,00	810,00	1030,00	1290,00	1550,00	1740,00
160	159,20	160,80	158,00	162,00	665,00	855,00	1085,00	1350,00	1630,00	1830,00
170	169,20	170,80	168,00	172,00	700,00	900,00	1140,00	1410,00	1710,00	1920,00
180	179,20	180,80	178,00	182,00	735,00	945,00	1200,00	1480,00	1790,00	2010,00
190	189,10	190,90	187,70	192,30	770,00	990,00	1250,00	1540,00	1870,00	2100,00
200	199,10	200,90	197,70	202,30	805,00	1030,00	1310,00	1610,00	1950,00	2200,00
220	-	-	217,70	222,30	870,00	1130,00	1420,00	1750,00	2110,00	2410,00
240	-	-	237,70	242,30	935,00	1220,00	1530,00	1880,00	2270,00	2600,00
260	-	-	257,40	262,60	1000,00	1310,00	1640,00	2020,00	2430,00	2800,00
280	-	-	277,40	282,60	1080,00		1750,00	2150,00	2590,00	3010,00
300	-	-	297,40	302,60	1150,00		1860,00	2290,00	2750,00	3210,00



After M24 diameter, we manufacture hot forging up to 450 mm length.

