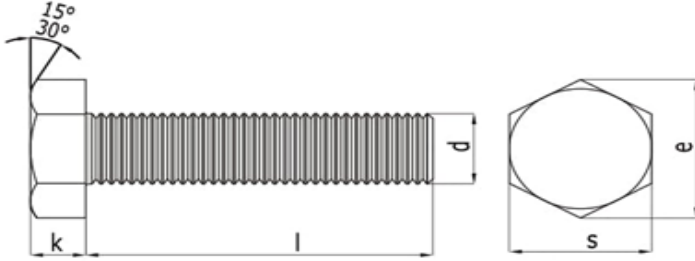


## DIN 933 ISO 4017

## HEXAGON HEAD BOLTS (Full Thread)



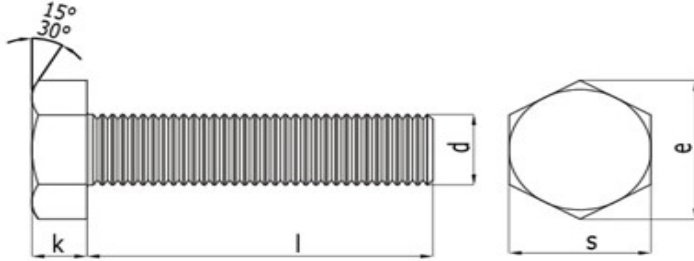
Teknik Bilgiler / Technical Informations								
Thread size / Anma çapı (d)			M5	M6	M7	M8	M10	
Pitch / Diş adımı		P	0,80	1,00	1,00	1,25	1,50	
		Nominal	3,50	4,00	4,80	5,30	6,40	
Head height / Kafa yüksekliği	k	A	min.	3,35	3,85	4,65	5,15	6,22
			max.	3,65	4,15	4,95	5,45	6,56
		B	min.	3,26	3,76	4,56	4,06	6,11
			max.	3,74	4,24	5,04	5,54	6,69
Head width / Anahtar ağızı	s	A	max.	7,78	9,78	10,73	12,73	16,73
			min.	7,64	9,64	10,57	12,57	16,57
		Nominal		8,00	10,00	11,00	13,00	17,00
				8,79	11,05	12,12	14,38	18,90
Diagonal / Köşegen	e	A	max.	8,79	11,05	12,12	14,38	18,90
		B	min.	8,63	10,89	11,94	14,20	18,72

Thread size Anma çapı	A		B		M5	M6	M7	M8	M10
	min.	max.	min.	max.					
Length Boy	Weight /Ağırlık gr/p								
10	9,71	10,29	-	-	2,63	4,08	6,35	9,10	16,20
12	11,65	12,35	-	-	2,87	4,42	6,85	9,80	17,20
14	13,65	14,35	-	-	3,12	4,76	7,35	10,50	18,20
16	15,65	16,35	-	-	3,37	5,11	7,85	11,10	19,20
18	17,65	18,35	-	-	3,62	5,45	8,35	11,70	20,20
20	19,58	20,42	-	-	3,87	5,80	8,85	12,30	21,20
22	21,58	22,42	-	-	4,12	6,15	9,35	12,90	22,20
25	24,58	25,42	-	-	4,49	6,65	10,00	13,90	23,70
28	27,58	28,42	-	-	4,86	7,15	10,70	14,90	25,20
30	29,58	30,42	-	-	5,11	7,51	11,30	15,50	26,20
35	34,50	35,50	-	-	5,73	8,37	12,50	17,10	28,70
40	39,50	40,50	-	-	6,35	9,23	13,80	18,70	31,20
45	44,50	45,50	43,75	46,25	6,99	10,10	15,00	20,30	33,70
50	49,50	50,50	48,75	51,25	7,59	11,00	16,30	21,80	36,20
55	54,40	55,60	53,50	56,50	8,21	11,90	17,50	23,40	38,70
60	59,40	60,60	58,50	61,50	8,83	12,70	18,70	25,00	41,30

DIN 933 Hexagon Head Cap Screws / Bolts are externally threaded fasteners with a hexagonal washer faced head and a chamfered tip to facilitate mating with an internally threaded component. DIN 933 hex screws have a fully threaded shank and are manufactured to very strict tolerances.

**DIN 933**

ISO 4017

**HEXAGON HEAD BOLTS (Full Thread)**

Teknik Bilgiler / Technical Informations									
Thread size Anma çapı	A		B		M5	M6	M7	M8	M10
Length Boy (l)	min.	max.	min.	max.	Weight /Ağırlık gr/p				
65	64,40	65,60	63,50	66,50	9,45	13,60	20,00	26,60	43,80
70	69,40	70,60	68,50	71,50	10,10	14,40	21,20	28,20	46,30
75	74,40	75,60	73,50	76,50	10,70	15,30	22,50	29,80	48,80
80	79,40	80,60	78,50	81,50	11,30	16,20	23,70	31,40	51,30
85	84,30	85,70	83,25	86,75			25,00	33,00	53,80
90	89,30	90,70	88,25	91,75			26,20	34,60	56,30
95	94,30	95,70	93,25	96,75			27,50	35,20	59,80
100	99,30	100,70	98,25	101,75			28,70	37,70	61,30
110	109,30	110,70	108,25	111,75				40,90	66,40
120	119,30	120,70	118,25	121,75					71,40
130	129,20	130,80	128,00	132,00					76,40
140	139,20	140,80	138,00	142,00					81,40
150	149,20	150,80	148,00	152,00					86,40
160	159,20	160,80	158,00	162,00					
170	169,20	170,80	168,00	172,00					
180	179,20	180,80	178,00	182,00					
190	189,08	190,92	187,70	192,30					
200	199,08	200,92	197,70	202,30					

**ADDRESS :**Fevzi Çakmak Mah. 10768. Sk.  
Zip Code: 42050  
Karatay / Konya / TÜRKİYE

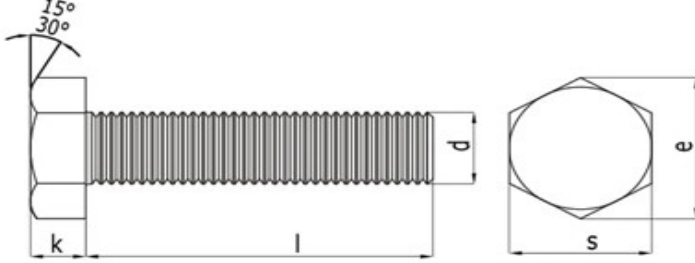
+90 332 345 0427

+90 536 566 6990

[www.bitorkfasteners.com](http://www.bitorkfasteners.com)[info@bitorkfasteners.com](mailto:info@bitorkfasteners.com)

## DIN 933 ISO 4017

## HEXAGON HEAD BOLTS (Full Thread)



Teknik Bilgiler / Technical Informations								
Thread size / Anma çapı (d)			M12	M14	M16	M18	M20	
Pitch / Diş adımı	P		1,75	2,00	2,00	2,50	2,50	
	Nominal		7,50	8,80	10,00	11,50	12,50	
Head height / Kafa yüksekliği	k	A	min.	7,32	8,62	9,82	11,28	12,28
			max.	7,68	8,98	10,18	11,72	12,72
	B	min.	7,21	8,51	9,71	11,15	12,15	
		max.	7,79	9,09	10,29	11,85	12,85	
Head width / Anahtar ağızı	s	A	max.	18,67	21,67	23,67	26,67	29,67
		B	min.	18,48	21,16	23,16	26,15	29,16
		Nominal		19,00	22,00	24,00	27,00	30,00
	Diagonal / Köşegen	e	A	max.	21,10	24,49	26,75	30,14
B			min.	20,88	23,91	26,17	29,56	32,95

Thread size Anma çapı	A		B		M12	M14	M16	M18	M20
Length Boy	min.	max.	min.	max.	Weight /Ağırlık gr/p				
10	9,71	10,29	-	-	23,30	38,00			
12	11,65	12,35	-	-	25,00	40,00	52,90		
14	13,65	14,35	-	-	26,40	42,00	55,60		
16	15,65	16,35	-	-	27,70	44,00	58,30	82,00	105,00
18	17,65	18,35	-	-	29,10	46,00	60,90	84,90	110,00
20	19,58	20,42	-	-	31,00	48,00	63,50	87,20	114,00
22	21,58	22,42	-	-	33,00	50,00	66,20	92,20	119,00
25	24,58	25,42	-	-	34,10	53,00	70,20	95,80	124,00
28	27,58	28,42	-	-	36,20	55,90	74,20	100,00	129,00
30	29,58	30,42	-	-	37,70	57,90	76,90	104,00	134,00
35	34,50	35,50	-	-	41,30	62,90	83,50	112,00	145,00
40	39,50	40,50	-	-	44,90	67,90	90,20	120,00	155,00
45	44,50	45,50	43,75	46,25	48,50	72,90	97,10	128,00	165,00
50	49,50	50,50	48,75	51,25	52,00	77,90	103,00	136,00	176,00
55	54,40	55,60	53,50	56,50	55,60	82,80	110,00	145,00	186,00
60	59,40	60,60	58,50	61,50	58,20	87,80	117,00	153,00	196,00

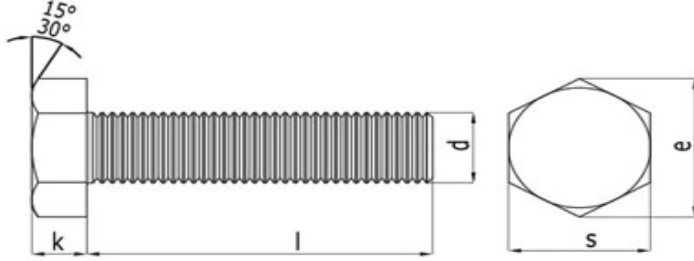
**COATING** : Plain, Zinc Plate, Zinc Flake, HDG

**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 933**

ISO 4017

**HEXAGON HEAD BOLTS (Full Thread)**

Teknik Bilgiler / Technical Informations									
Thread size Anma çapı	A		B		M12	M14	M16	M18	M20
Length Boy (l)	min.	max.	min.	max.	Weight /Ağırlık gr/p				
65	64,40	65,60	63,50	66,50	62,80	92,80	123,00	161,00	207,00
70	69,40	70,60	68,50	71,50	66,40	97,90	130,00	169,00	217,00
75	74,40	75,60	73,50	76,50	70,00	102,00	137,00	177,00	227,00
80	79,40	80,60	78,50	81,50	73,60	107,00	144,00	186,00	238,00
85	84,30	85,70	83,25	86,75	77,20	112,00	150,00	194,00	247,00
90	89,30	90,70	88,25	91,75	80,80	117,00	157,00	202,00	258,00
95	94,30	95,70	93,25	96,75	84,40	122,00	164,00	210,00	268,00
100	99,30	100,70	98,25	101,75	88,00	127,00	170,00	218,00	279,00
110	109,30	110,70	108,25	111,75	95,20	137,00	184,00	235,00	300,00
120	119,30	120,70	118,25	121,75	102,00	147,00	197,00	251,00	320,00
130	129,20	130,80	128,00	132,00	109,00	157,00	210,00	268,00	340,00
140	139,20	140,80	138,00	142,00	116,00	167,00	224,00	284,00	361,00
150	149,20	150,80	148,00	152,00	123,00	177,00	237,00	300,00	381,00
160	159,20	160,80	158,00	162,00				316,00	402,00
170	169,20	170,80	168,00	172,00				332,00	422,00
180	179,20	180,80	178,00	182,00				348,00	442,00
190	189,08	190,92	187,70	192,30				364,00	462,00
200	199,08	200,92	197,70	202,30				380,00	484,00

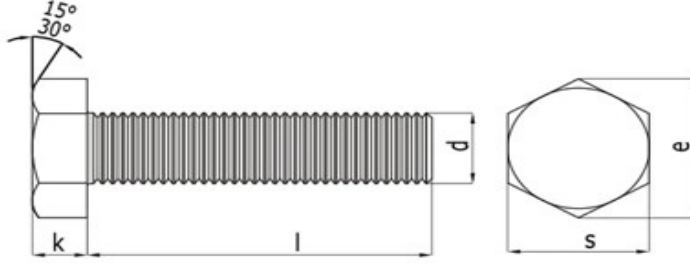


After M24 diameter, we manufacture hot forging up to 450 mm length.



## DIN 933 ISO 4017

## HEXAGON HEAD BOLTS (Full Thread)



Teknik Bilgiler / Technical Informations							
Thread size / Anma çapı (d)			M22	M24	M27	M30	
Pitch / Diş adımı		P	2,50	3,00	3,00	3,50	
		Nominal	14,00	15,00	17,00	18,70	
Head height / Kafa yüksekliği	k	A	min.	13,78	14,78	-	-
			max.	14,22	15,22	-	-
	B	min.	13,65	14,65	16,65	18,28	
		max.	14,35	15,35	17,35	19,12	
Head width / Anahtar ağızı	s	A	max.	31,61	35,38	-	-
			min.	31,00	35,00	40,00	45,00
	Nominal			32,00	36,00	41,00	46,00
Diagonal / Köşegen	e	A	max.	35,72	39,98	-	-
		B	min.	35,03	39,55	45,20	50,85

Thread size Anma çapı	A		B		M22	M24	M27	M30
Length Boy (l)	min.	max.	min.	max.	Weight /Ağırlık gr/p			
10	9,71	10,29	-	-				
12	11,65	12,35	-	-				
14	13,65	14,35	-	-				
16	15,65	16,35	-	-	133,00	173,00		
18	17,65	18,35	-	-	137,00	178,00		
20	19,58	20,42	-	-	143,00	184,00		
22	21,58	22,42	-	-	148,00	190,00	269,00	
25	24,58	25,42	-	-	155,00	199,00	280,00	
28	27,58	28,42	-	-	161,00	200,00	292,00	
30	29,58	30,42	-	-	168,00	214,00	310,00	
35	34,50	35,50	-	-	181,00	229,00	319,00	424,00
40	39,50	40,50	-	-	193,00	244,00	338,00	448,00
45	44,50	45,50	43,75	46,25	206,00	259,00	358,00	472,00
50	49,50	50,50	48,75	51,25	219,00	274,00	377,00	496,00
55	54,40	55,60	53,50	56,50	232,00	289,00	397,00	519,00
60	59,40	60,60	58,50	61,50	244,00	304,00	416,00	543,00

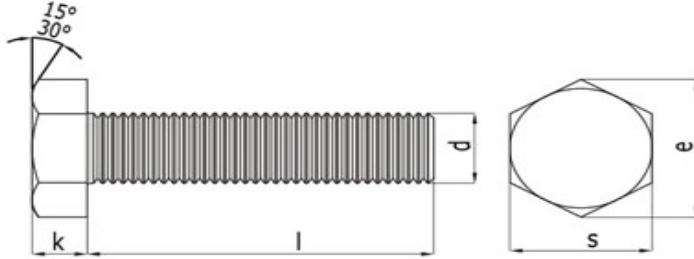
**COATING** : Plain, Zinc Plate, Zinc Flake, HDG

**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 933**

ISO 4017

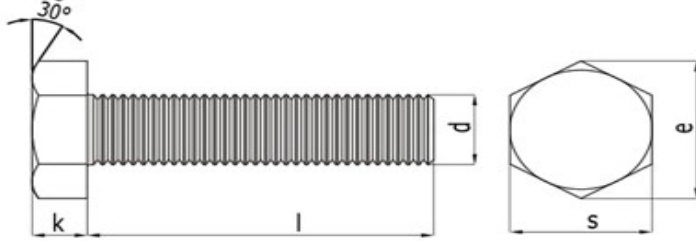
**HEXAGON HEAD BOLTS (Full Thread)**

Teknik Bilgiler / Technical Informations								
Thread size Anma çapı	A		B		M22	M24	M27	M30
Length Boy (l)	min.	max.	min.	max.	Weight /Ağırlık gr/p			
65	64,40	65,60	63,50	66,50	257,00	319,00	435,00	566,00
70	69,40	70,60	68,50	71,50	269,00	334,00	454,00	590,00
75	74,40	75,60	73,50	76,50	282,00	348,00	473,00	614,00
80	79,40	80,60	78,50	81,50	295,00	363,00	492,00	637,00
85	84,30	85,70	83,25	86,75	308,00	378,00	512,00	661,00
90	89,30	90,70	88,25	91,75	321,00	393,00	531,00	685,00
95	94,30	95,70	93,25	96,75	333,00	408,00	550,00	708,00
100	99,30	100,70	98,25	101,75	346,00	423,00	569,00	732,00
110	109,30	110,70	108,25	111,75	371,00	453,00	608,00	779,00
120	119,30	120,70	118,25	121,75	397,00	483,00	647,00	827,00
130	129,20	130,80	128,00	132,00	421,00	513,00	685,00	874,00
140	139,20	140,80	138,00	142,00	448,00	543,00	724,00	921,00
150	149,20	150,80	148,00	152,00	473,00	572,00	762,00	969,00
160	159,20	160,80	158,00	162,00	498,00	602,00	801,00	1010,00
170	169,20	170,80	168,00	172,00	523,00	632,00	839,00	1060,00
180	179,20	180,80	178,00	182,00	548,00	662,00	875,00	1110,00
190	189,08	190,92	187,70	192,30	573,00	692,00	911,00	1160,00
200	199,08	200,92	197,70	202,30	598,00	722,00	947,00	1210,00



## DIN 933 ISO 4017

## HEXAGON HEAD BOLTS (Full Thread)



Teknik Bilgiler / Technical Informations					M33	M36	M39
Thread size / Anma çapı (d)							
Pitch / Diş adımı	P				3,50	4,00	4,00
	Nominal				21,00	22,50	25,00
Head height / Kafa yüksekliği	k	A	min.				
			max.				
		B	min.		20,58	22,08	24,58
			max.		21,42	22,92	25,42
Head width / Anahtar ağızı	s	A	min.				
		B	min.		49,00	53,80	58,80
		Nominal	max.		50,00	55,00	60,00
Diagonal / Köşegen	e	A	min.				
		B	min.		55,37	60,79	66,44

Thread size Anma çapı	A		B		M33	M36	M39
Length Boy (l)	min.	max.	min.	max.	Weight / Ağırlık gr/p		
10	9,71	10,29	-	-			
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	-	-	543,00	670,00	869,00
40	39,50	40,50	-	-	572,00	714,00	910,00
45	44,50	45,50	43,75	46,25	601,00	748,00	951,00
50	49,50	50,5	48,75	51,25	630,00	783,00	992,00
55	54,40	55,60	53,50	56,50	659,00	817,00	1030,00
60	59,40	60,60	58,50	61,50	688,00	851,00	1070,00

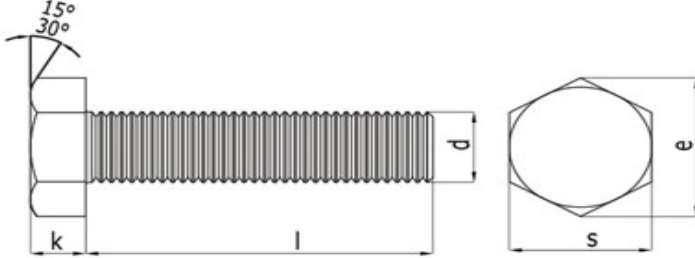
**COATING** : Plain, Zinc Plate, Zinc Flake, HDG

**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 933**

ISO 4017

**HEXAGON HEAD BOLTS (Full Thread)**

Teknik Bilgiler / Technical Informations							
Thread size Anma çapı	A		B		M33	M36	M39
Length Boy (l)	min.	max.	min.	max.	Weight /Ağırlık gr/p		
65	64,40	65,60	63,50	66,50	717,00	886,00	1110,00
70	69,40	70,60	68,50	71,50	746,00	910,00	1160,00
75	74,40	75,60	73,50	76,50	775,00	950,00	1200,00
80	79,40	80,60	78,50	81,50	806,00	990,00	1240,00
85	84,30	85,70	83,25	86,75	837,00	1020,00	1280,00
90	89,30	90,70	88,25	91,75	866,00	1060,00	1320,00
95	94,30	95,70	93,25	96,75	891,00	1100,00	1360,00
100	99,30	100,70	98,25	101,75	920,00	1140,00	1400,00
110	109,30	110,70	108,25	111,75	978,00	1200,00	1480,00
120	119,30	120,70	118,25	121,75	1040,00	1260,00	1560,00
130	129,20	130,80	128,00	132,00	1090,00	1330,00	1650,00
140	139,20	140,80	138,00	142,00	1150,00	1400,00	1730,00
150	149,20	150,80	148,00	152,00	1210,00	1470,00	1810,00
160	159,20	160,80	158,00	162,00	1270,00	1540,00	1890,00
170	169,20	170,80	168,00	172,00	1330,00	1610,00	1970,00
180	179,20	180,80	178,00	182,00	1390,00	1680,00	2050,00
190	189,08	190,92	187,70	192,30	1440,00	1740,00	2140,00
200	199,08	200,92	197,70	202,30	1500,00	1810,00	2220,00

