

HEX BOLT
CLASS 10.9 METRIC



BLACK

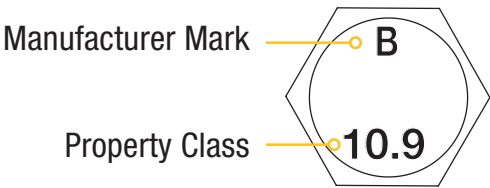
APPLICATION

Bremick® Hex Head Metric Class 10.9 bolts are designed for industrial and construction applications where high tensile superior performance is required

PRODUCT ATTRIBUTES

Material Class:	Carbon Steel Class 10.9
Thread Form:	Metric 6g
Finish:	Plain/Black/Natural
Standard:	Complies to AS 1110.1:2015 - Grade B
Mechanical Properties:	Complies to ISO 898.1:2013
Chemical Composition:	Complies to ISO 898.1:2013

HEAD MARKING



In some cases, the Bremick head mark will be replaced by the mark of the original manufacturer

MECHANICAL PROPERTIES

PROPERTIES	TENSILE STRENGTH (MPa)	STRESS UNDER PROOF LOAD (MPa)	HARDNESS					
	MIN	NOM.	VICKERS (HV)		BRINELL (HBW)		ROCKWELL (HRC)	
CLASS 10.9	1040	830	320	380	316	375	32	39

CHEMICAL COMPOSITION (%)

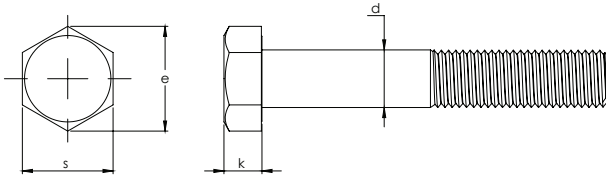
MATERIAL	C		P	S	B	TEMPERING TEMPERATURE °C
	MIN	MAX	MAX	MAX	MAX	MIN
CARBON STEEL	0.25	0.55	0.025	0.025	0.003	425

FINISH INFORMATION

PLAIN / BLACK / NATURAL

DESCRIPTION	OVERVIEW	CORROSION RESISTANCE
Plain, Black & Natural are all terms referring to the fastener not having a coating applied. The product has a light oil added.	Plain or uncoated fasteners offer no corrosion protection they are supplied lightly oiled to inhibit the rust process prior to installation and help during installation.	—

DIMENSIONAL DATA (mm)



DIAMETER	PITCH (mm)	ACROSS FLATS (s)		ACROSS CORNERS (e)		HEAD HEIGHT (k)	
		MIN	MAX	MIN		MIN	MAX
M5	0.80	7.64	8.00	8.63		3.26	3.74
M6	1.00	9.64	10.00	10.89		3.76	4.24
M8	1.25	12.57	13.00	14.20		5.06	5.54
M10	1.50	15.57	16.00	17.59		6.11	6.69
M12	1.75	17.57	18.00	19.85		7.21	7.79
M14	2.00	20.16	20.67	22.78		8.51	9.09
M16	2.00	23.16	24.00	26.17		9.71	10.29
M20	2.50	29.16	30.00	23.95		12.15	12.895
M24	3.00	35.00	36.00	39.55		14.650	15.350
M27	3.00	40.00	41.00	45.20		13.65	17.35
M30	3.50	45.00	46.00	50.85		18.28	19.12
M36	4.00	53.80	55.00	60.79		22.08	22.92
M42	4.50	63.10	65.00	71.30		25.58	26.42
M48	5.00	73.10	75.00	82.60		29.58	30.42

SOCKET OR SPANNER SIZE (mm)

BOLT DIAMETER	M5	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M36	M42	M48
SPANNER SIZE	8	10	13	16	18	21	24	30	36	41	46	55	65	75

THREAD LENGTH (mm)

LENGTH	M5	M6	M8	M10	M12	M14	M16	M20	M24	M27	M30	M36	M42	M48
20														
25														
30														
35														
40														
45														
50														
55	16													
60	16													
65	16	18												
70	16	18												
80	16	18												
90	16	18	22											
100	16	18	22											
110	16	18	22	26						60				
120	16	18	22	26						60	66			
130	22	24	28	32	36					66	72			
140	22	24	28	32	36					66	72	84		
150	22	24	28	32	36	40				66	72	84		
160		24	28	32	36	40	44	52	60	66	72	84	96	
180			28	32	36	40	44	52	60	66	72	84	96	108
200			28	32	36	40	44	52	60	66	72	84	96	108
220				45	49	53	57	65	73	79	85	97	109	121
240					49	53	57	65	73	79	85	97	109	121
260					49	53	57	65	73	79	85	97	109	121
280						53	57	65	73	79	85	97	109	121
300							57	65	73	79	85	97	109	121
320								65	73	79	85	97	109	121
340								65	73	79	85	97	109	121
360									73	79	85	97	109	121
380										79	85	97	109	121
400										-	85	97	109	121
420										-	-	97	109	121
440										-	-	97	109	121
460										-	-	97	109	121
480										-	-	-	109	121
500										-	-	-	109	121

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