

ATOM FASTENERS LTD

PHONE (09) 272 8664 FAX (09) 272 8694

BOLTS

HEXAGON HEAD BOLTS

PAGE

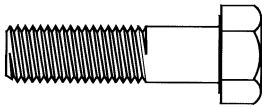
METRIC COARSE



AS 1111 STEEL CI 4.6
 AS 1111 STEEL CI 4.6
 DIN 931 STEEL CI 8.8 (ISO 4014)
 DIN 931 STEEL CI 8.8 (ISO 4014)
 DIN 931 STEEL CI 8.8 (ISO 4014)
 DIN 931 STEEL CI 8.8 (ISO 4014 Fitting)
 DIN 931 STEEL CI 10.9 (ISO 4014)
 DIN 931 STEEL CI 12.9 (ISO 4014)
 DIN 931 STAINLESS STEEL A2 CI 70
 DIN 931 STAINLESS STEEL A4 CI 70
 DIN 931 STAINLESS STEEL A4 CI 80
 DIN 931 BRASS

Zinc Plated
 HD Galvanised
 Self Colour
 Zinc Plated
 Zinc Plated Y/Passivated
 HD Galvanised
 Self Colour
 Self Colour

Bolts 1
 Bolts 1
 Bolts 2
 Bolts 2
 Bolts 2
 Bolts 2
 Bolts 5
 Bolts 7
 Bolts 8
 Bolts 8
 Bolts 8
 Bolts 9



METRIC FINE

DIN 960 STEEL CI 8.8
 DIN 960 STEEL CI 8.8
 DIN 960 STEEL CI 8.8
 DIN 960 STEEL CI 10.9
 DIN 960 STAINLESS STEEL A4 CI 70

Self Colour
 Zinc Plated
 Zinc Plated Y/Passivated
 Self Colour
 To Order

Bolts 10
 Bolts 10
 Bolts 10
 Bolts 12

IMPERIAL BSW

AS 2451
 BS BRASS

Zinc Plated

IMPERIAL BSF

BS 1083 STEEL Grade R and mild

Self Colour

Bolts 36

IMPERIAL UNC

B18.2.1 STEEL Grade 5
 B18.2.1 STEEL Grade 5
 B18.2.1 STEEL Grade 8
 B18.2.1 STEEL Grade 8
 B18.2.1 STEEL Grade 8
 B18.2.1 STAINLESS STEEL 304
 B18.2.1 STAINLESS STEEL 316

Self Colour
 Zinc Plated
 Self Colour
 Zinc Plated
 Zinc Plated Y/Passivated

Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14
 Bolts 15
 Bolts 15

IMPERIAL UNF

B18.2.1 STEEL Grade 5
 B18.2.1 STEEL Grade 5
 B18.2.1 STEEL Grade 8
 B18.2.1 STEEL Grade 8
 B18.2.1 STEEL Grade 8
 B18.2.1 STAINLESS STEEL 304
 B18.2.1 STAINLESS STEEL 316

Self Colour
 Zinc Plated
 Self Colour
 Zinc Plated
 Zinc Plated Y/Passivated

Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14

CONTINUED

HEXAGON HEAD SCREWS



METRIC COARSE

AS 1111 STEEL CI 4.6
 AS 1111 STEEL CI 4.6
 DIN 933 STEEL CI 8.8 (ISO 4017)
 DIN 933 STEEL CI 8.8 (ISO 4017)
 DIN 933 STEEL CI 8.8 (ISO 4017)
 DIN 933 STEEL CI 8.8 (ISO 4017 Fitting)
 DIN 933 STEEL CI 10.9 (ISO 4017)
 DIN 933 STEEL CI 12.9 (ISO 4017)
 DIN 933 STAINLESS STEEL A2 CI 70
 DIN 933 STAINLESS STEEL A4 CI 70
 DIN 933 STAINLESS STEEL A4 CI 80
 DIN 933 ALUMINIUM
 DIN 933 KUPRODUR CU5
 DIN 933 BRASS
 DIN 933 PLASTIC

Zinc Plated
 HD Galvanised
 Self Colour
 Zinc Plated
 Zinc Plated Y/Passivated
 HD Galvanised
 Self Colour
 Self Colour

PAGE

Bolts 37
 Bolts 37
 Bolts 16
 Bolts 16
 Bolts 16
 Bolts 16
 Bolts 18
 Bolts 19
 Bolts 20
 Bolts 20
 Bolts 20
 Bolts 21
 Bolts 21
 Bolts 22
 Bolts 22

METRIC FINE

DIN 961 STEEL CI 8.8
 DIN 961 STEEL CI 8.8
 DIN 961 STEEL CI 8.8
 DIN 961 STEEL CI 10.9
 DIN 961 STAINLESS STEEL A4 CI 70

Self Colour
 Zinc Plated
 Zinc Plated Y/Passivated
 Self Colour
 Contact Sales

Bolts 23
 Bolts 23
 Bolts 23
 Bolts 24

IMPERIAL BSW

AS 2451
 BS BRASS

Zinc Plated

IMPERIAL BSF

BS 1083 STEEL Grade R and mild

Self Colour

Bolts 36

IMPERIAL UNC

B18.2.1 STEEL Grade 5
 B18.2.1 STEEL Grade 5
 B18.2.1 STEEL Grade 8
 B18.2.1 STEEL Grade 8
 B18.2.1 STEEL Grade 8
 B18.2.1 STAINLESS STEEL 304
 B18.2.1 STAINLESS STEEL 316

Self Colour
 Zinc Plated
 Self Colour
 Zinc Plated
 Zinc Plated Y/Passivated

Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14
 Bolts 15
 Bolts 15

IMPERIAL UNF

B18.2.1 STEEL Grade 5
 B18.2.1 STEEL Grade 5
 B18.2.1 STEEL Grade 8
 B18.2.1 STEEL Grade 8
 B18.2.1 STEEL Grade 8
 B18.2.1 STAINLESS STEEL 304
 B18.2.1 STAINLESS STEEL 316

Self Colour
 Zinc Plated
 Self Colour
 Zinc Plated
 Zinc Plated Y/Passivated

Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14
 Bolts 14
 Bolts 15
 Bolts 15

HEXAGON HEAD COACH SCREWS



METRIC

Hot Dipped Galvanised

Bolts 25

HEAGON HEAD FLANGE BOLTS



METRIC COARSE

DIN 6921 STEEL CI 8.8
 DIN 6921 STEEL CI 8.8
 DIN 6921 STEEL CI 10.9

Zinc Plated
 Zinc Plated Y/Passivated
 Self Colour

PAGE

Bolts 26
 Bolts 26
 Bolts 27

METRIC COARSE SELF-LOCKING

DIN 6921 SERRATED STEEL
 RIPP STEEL CI 100
 TENSILOCK STEEL CI 90/100

Zinc Plated
 Dacromet
 Dacromet

Bolts 27
 Bolts 29
 Bolts 29

METRIC FINE

DIN 6921 STEEL CI 10.9

Self Colour

Bolts 27

IMPERIAL UNC/UNF

B18.2.1 STEEL Grade 8

Self Colour

Bolts 28

12 POINT FLANGE BOLTS



IMPERIAL UNC/UNF

B18.2.1 STEEL Grade 8

Self Colour

Bolts 28

CUP HEAD BOLTS



METRIC COARSE

AS 1390 STEEL CI 4.6
 AS 1390 STEEL CI 4.6
 DIN 603 STEEL CI 8.8
 DIN 603 STAINLESS STEEL A2
 DIN 603 STAINLESS STEEL A4
 DIN 603 BRASS

Zinc Plated
 HD Galvanised
 Zinc Plated

Bolts 30
 Bolts 30
 Bolts 30
 Bolts 31
 Bolts 31
 Bolts 31

IMPERIAL UNC

STEEL Grade 5
 STAINLESS STEEL A2

Zinc Plated

SQUARE HEAD BOLTS



METRIC COARSE DOG POINT

DIN 479 STEEL CI 8.8

Self Colour

Bolts 32

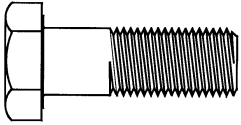
IMPERIAL BSW/UNC CUP POINT

Steel Case Hardened

Self Colour

Bolts 32

HIGH STRENGTH STRUCTURAL BOLT



METRIC COARSE BOLTS

AS 1252 STEEL CI 8.8 (some as assemblies)
DIN 6914 STEEL CI 10.9
DIN 6914 STEEL CI 10.9

HD Galvanised
Self Colour
Hot Dip Galvanised

Bolts 33
Bolts 34
Bolts 34

METRIC COARSE NUTS

AS 1252 STEEL CI 8
DIN 6915 STEEL CI 10
DIN 6915 STEEL CI 10

HD Galvanised
Self Colour
Hot Dip Galvanised



METRIC WASHERS

AS 1252 STEEL
DIN 6916 STEEL
DIN 6916 STEEL

HD Galvanised
Self Colour
Hot Dip Galvanised

Washers 13
Washers 13
Washers 13

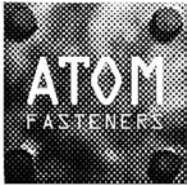
L BOLTS

METRIC L BOLTS

Cl. 4.6

Hot Dip Galvanised

Bolts 35



ATOM FASTENERS LTD

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HEX HEAD BOLTS and NUTS

AS 1111 + AS 1112 STEEL Cl. 4.6 (Mild Steel)



LEN/DIA	M6		M8		M10		M12		M16	M20	M24
Pitch	1.0		1.25		1.50		1.75		2.0	2.5	3.0
A/Flats	10		13		16		18		24	30	36
Hd. Hgt.	4		5		6.5		7.5		10	12.5	15
Nut Hgt.	5		6.5		8		10.5		14.5	18/20	21/23
FINISH	ZINC	ZINC	HD GALV.	ZINC	HD GALV.	ZINC	HD GALV.	HD GALV.	HD GALV.	HD GALV.	
20	200	200	200	150	200						
25	200	200	200	150	100	200	100	50			
30	200	200	200	100	100	200	100	50			
35	200	200	200	100	100		100	50			
40	200	200	200	100	100	200	50	50	25		
45		150			100		50	50	25		
50	200	150	100	75	100	150	50	25	25	20	
60	200	150			50			25	25	20	
65	150	150	100	75	50		50	25	25	20	
70	150			75			50	25	25	20	
75		100	100		50	150		25	25	20	
80	150				50		50	25	25	20	
90	150		100	50	50	100	50	25	25	20	
100	100	100	100	50	50		100	25	20	20	
110					50	100	25		15	10	
120			50		50		25	25	15	10	
130			50		50		25	25	15	10	
140			50		50		25	25	15	10	
150		100	50		50		25	25	15	10	
160					50		25	25	15	10	
170					50		25	25	15		
180					40		25	25	15	10	
200					50		25	25	15	10	
220					50		25	25	15	10	
240							25	25	15	10	
260							25	25	15	10	
280							25	25	15	10	
300							25	25	15	10	
325							25	25	15	10	
350							25	25	15	10	
375							25	10	10	10	
400							25	10	10	10	
450							25	10	10	10	

EX STOCK: STANDARD PACKETS SHOWN: BULK and BROKEN PACKS AVAILIABLE

M30 and OTHER DIAMETERS and LENGHTS AVAILIABLE TO ORDER

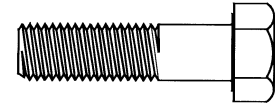
NUT and Head Heights are Nominal Dimensions



ATOM FASTENERS LTD

PHONE (09) 272 8664 FAX (09) 272 8694

HEXAGON HEAD BOLTS DIN 931 (ISO 4014) STEEL Cl. 8.8



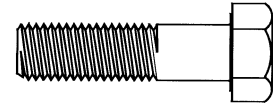
LEN/DIA	M4	M5	M6	M7	M8	M10	M12	M14	M16
Pitch	0.7	0.8	1.0	1.0	1.25	1.5	1.75	2.0	2.0
A/Flats	7	8	10	11	13	17	19	22	24
Hd. Hgt.	2.8	3.5	4	4.8	5.3	6.4	7.5	8.8	10.0
THD<125	14	16	18	20	22	26	30	34	38
125<200		22	24	26	28	42	36	40	44
>200						45	49	53	57
25	Z	Z	Z						
30	Z	Z	Z	Z	Z				
35	Z	Z	Z	Z	GZ				
40	Z	Z	Z	Z	GZ	G	GZ		
45	Z	Z	Z	Z	GZ	GZ	GZ		
50	Z	Z	Z	Z	GZ	GZ	BGZ	Z	Z
55		Z	Z		Z	GZ	Z	Z	BZ
60		Z	Z	Z	GZ	GZ	GZ	Z	BZ
65		Z	Z		Z	Z	Z	Z	BZ
70		Z	Z	Z	GZ	GZ	GZ	Z	BZ
75			Z		Z	Z	Z	Z	BZ
80		Z	Z	Z	GZ	GZ	GZ	Z	BZ
85					Z	Z	Z		BZ
90			Z		GZ	GZ	GZ	Z	BZ
95					Z				
100			Z		GZ	GZ	GZ	Z	BZ
110			Z		Z	GZ	GZ	Z	BZ
120			Z		Z	GZ	GZ	Z	BZ
130			Z		Z	GZ	GZ	Z	BZ
140			Z		Z	GZ	GZ	Z	BZ
150			Z		Z	GZ	GZ	Z	BZ
160			Z		Z	GZ	GZ	Z	BZ
170						Z	Z		BZ
180			B		Z	GZ	GZ	Z	BZ
190						Z	Z		Z
200					Z	GZ	GZ	Z	BZ
210									BZ
220						Z	Z	Z	BZ
230									BZ
240							Z	Z	BZ
250						Z	Z		BZ
260							Z	Z	BZ
280						Z	Z	Z	BZ
300						Z	Z	Z	BZ
330-350-380-400									BZ
450-500									B

EX STOCK: B= BLACK G= HOT DIPPED GALV. (ISO FITTING) Y= YELLOW ZINC PLATED Z= CLEAR ZINC PLATED



HEXAGON HEAD BOLTS

DIN 931 (ISO 4014) STEEL Cl. 8.8

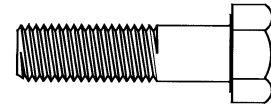


LEN/DIA	M18	M20	M22	M24	M27	M30	M33	M36	M39
Pitch	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0	4.0
A/Flats	27	30	32	36	41	46	50	55	60
Hd. Hgt.	11.5	12.5	14	15	17	18.7	21	22.5	25
THD<125	42	46	50	54	60	66	72	78	84
125<200	48	52	56	60	66	72	78	84	90
>200	61	65	69	73	79	85	91	97	103
55	BZ	BZ							
60	BZ	BZ							
65	BZ	BZ							
70	BZ	BZ	BZ	BZ					
75	BZ	BZ	BZ	BZ					
80	BZ	BZ	BZ	BZ	BZ				
85				BZ					
90	BZ	BZ	BZ	BZ	BZ	BZ			
95									
100	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	
110	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	B
120	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	B
130	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	B
140	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	B
150	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	B
160	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	B
170	B	BZ		BZ	BZ	BZ	BZ	BZ	B
180	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	B
190				BZ					B
200	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	B
210				BZ					
220	BZ	BZ	B	BZ	BZ	BZ	B	BZ	B
230		BZ		BZ		B			
240	BZ	BZ	BZ	BZ	BZ	BZ	B	BZ	B
250		BZ	BZ	BZ		B	B		
260	BZ	BZ	BZ	BZ	BZ	BZ	B	BZ	B
280	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ	B
300	BZ	BZ	BZ	BZ	BZ	BZ	B	BZ	B
320		B	B	B	B	B	B	B	B
330		BZ		B					
340		B	B	B	B	B	B	B	B
350		BZ	B	BZ	B	B	B	B	
360 - 380		B	B	B	B	B	B	B	B
400		BZ	B	BZ	B	B	B	B	B
420 - 440								B	
450		BZ							
460 -480-500		B	B	B	B			B	

EX STOCK: B= BLACK G= HOT DIPPED GALV. (ISO FITTING) Y= YELLOW ZINC PLATED Z= CLEAR ZINC PLATED

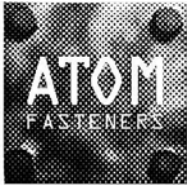


HEXAGON HEAD BOLTS DIN 931 (ISO 4014) STEEL CI. 8.8

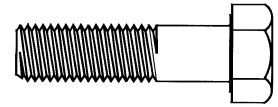


LEN/DIA	M42	M45	M48	M52	M56	M60	M64		
Pitch	4.5	4.5	5.0	5.0	5.5	5.5	6.0		
A/Flats	65	70	75	80	85	90	95		
Hd. Hgt.	26	28	30	33	35	38	40		
THD<125	90	96	102						
125<200	96	102	108	116	124	132	140		
>200	109	115	121	129	137	145	153		
120	B	B							
130	B								
140	B	B	B						
150	B		B						
160	B	B	B	B	B	B			
170									
180	B	B	B	B	B	B	B		
190									
200	B	B	B	B	B	B	B		
210									
220	B	B							
230									
240	B Z	B	B	B	B	B	B		
250	Z								
260	B		B		B				
280	B	B	B	B	B	B	B		
300	B	B	B						
320	B	B	B	B	B	B	B		
340	B								
350	B								
360	B	B	B	B	B	B			
380									
400	B		B	B	B				
420	B								
440					B				
460	B								
480	B								
500	B		B	B					

EX STOCK: B= BLACK . Z= CLEAR ZINC PLATED



HEXAGON HEAD BOLTS DIN 931 (ISO 4014) STEEL CI. 10.9



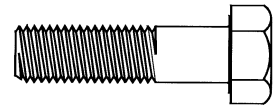
LEN/DIA	M6	M8	M10	M12	M14	M16	M18	M20	M22
Pitch	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5
A/Flats	10	13	17	19	22	24	27	30	32
Hd. Hgt.	4	5.3	6.4	7.5	8.8	10	11.5	12.5	14
THD<125	18	22	26	30	34	38	42	46	50
125<200	24	28	32	36	40	44	48	52	56
>200			45	49	53	57	61	65	69
30	B								
35	B	B							
40	B	B	B						
45	B	B	B	B					
50	B	B	B	B	B				
55			B	B		B			
60	B	B	B	B	B	B	B		B
65			B	B		B	B	B	
70	B	B	B	B	B	B	B	B	B
75						B		B	B
80	B	B	B	B	B	B	B	B	B
85									
90		B	B	B	B	B	B	B	B
95									
100		B	B	B	B	B	B	B	B
110		B	B	B		B	B	B	
120		B	B	B	B	B	B	B	B
130			B	B	B	B	B	B	B
140			B	B	B	B		B	
150			B	B	B	B	B	B	B
160			B	B	B	B		B	
170						B			
180			B	B	B	B	B	B	B
190					B				
200				B		B	B	B	
210									
220				B		B	B	B	B
230									
240				B		B		B	B
250						B			
260				B	B	B		B	
280				B	B	B	B	B	
300				B		B			B

EX STOCK: B= BLACK

Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



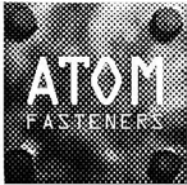
HEXAGON HEAD BOLTS DIN 931 (ISO 4014) STEEL Cl. 10.9



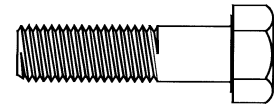
LEN/DIA	M24	M27	M30	M33	M36	M39	M42	M45	M52
Pitch	3.0	3.0	3.5	3.5	4.0	4.0	4.5	4.5	5.0
A/Fats	36	41	46	50	55	60	65	70	80
Hd. Hgt.	15	17	18.7	21	22.5	25	26	28	33
THD<125	54	60	66	72	78	84	90	96	116
125<200	60	66	72	78	84	90	96	102	116
>200	73	79	85	91	97	103	109	115	129
70	B								
75	B								
80	B	B							
85									
90	B	B	B						
95									
100	B	B	B	B	B		B		
110	B	B	B	B	B		B		
120	B	B	B	B	B	B			
130	B	B	B	B	B				
140	B	B	B	B	B	B			
150	B	B	B	B	B	B			
160	B	B	B	B	B	B	B	B	M52 to order
170									
180	B	B	B	B	B	B	B	B	
190				B					
200	B	B	B	B	B	B	B	B	
210									
220	B	B	B	B	B	B	B	B	
230									
240	B	B	B	B	B	B	B	B	
250									
260	B	B	B	B	B		B	B	
280	B	B	B	B	B		B		
300	B	B	B	B	B	B	B		

EX STOCK: B= BLACK

Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



HEXAGON HEAD BOLTS DIN 931 STEEL Cl. 12.9

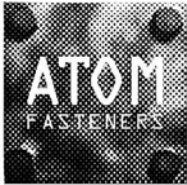


LEN/DIA	M6	M8	M10	M12	M14	M16	M18	M20	M22
Pitch	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5
A/Flats	10	13	17	19	22	24	27	30	32
Hd. Hgt.	4	5.3	6.4	7.5	8.8	10	11.5	12.5	14
THD<125	18	22	26	30	34	38	42	46	50
>125	24	28	32	36	40	44	48	52	56
30	B								
35									
40	B	B	B						
45			B	B					
50	B	B	B	B	B				
60	B	B	B	B	B	B			
65									
70			B	B	B	B		B	
75									
80		B	B	B	B	B		B	
90				B	B	B		B	
100		B	B	B	B	B		B	
110				B		B		B	
120			B	B	B	B			
130						B			
140						B		B	
150									
160						B		B	

LEN/DIA	M24	M27	M30						
Pitch	3.0	3.0	3.5						
A/Flats	36	41	46						
Hd. Hgt.	15	17	18.7						
THD<125	54	60	66						
>125	60	66	72						
80	B								
90	B		B						
100	B		B						
110			B						
120			B						
130	TA								
150	TA								

EX STOCK: B= BLACK

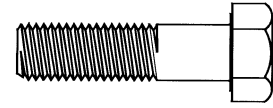
Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



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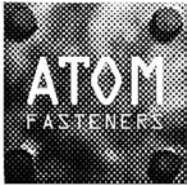
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HEXAGON HEAD BOLTS DIN 931 (ISO 4014) STAINLESS STEEL



LEN/DIA	M4		M5		M6		M7		M8		M10		M12		M14		M16	
Pitch	0.7		0.8		1.0		1.0		1.25		1.5		1.75		2.0		2.0	
A/Flats	7		8		10		11		13		17		19		22		24	
Hd. Hgt.	2.8		3.5		4		4.8		5.3		6.4		7.5		8.8		10.0	
THD<125	14		16		18		20		22		26		30		34		38	
125<200			22		24		26		28		42		36		40		44	
>200											45		49		53		57	
GRADE	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4
25																		
30				✓	✓	✓												
35					✓	✓			✓	✓								
40				✓	✓	✓			✓	✓	✓							
45									✓	✓	✓			✓				
50				✓	✓	✓			✓	✓	✓	✓		✓		✓		✓
55											✓						✓	
60					✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		✓
65					✓	✓			✓	✓	✓	✓		✓	✓	✓		
70					✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		✓
75						✓				✓	✓	✓	✓	✓	✓			✓
80					✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		✓
90					✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		✓
100					✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
110					✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
120						✓				✓	✓	✓	✓	✓	✓	✓	✓	✓
130						✓				✓	✓	✓	✓	✓	✓	✓	✓	✓
140						✓				✓	✓	✓	✓	✓	✓	✓	✓	✓
150						✓				✓	✓	✓	✓	✓	✓	✓	✓	✓
160										✓	✓	✓	✓	✓	✓	✓	✓	✓
170										✓	✓	✓	✓	✓	✓	✓	✓	✓
180										✓	✓	✓	✓	✓	✓	✓	✓	✓
190											✓	✓	✓	✓	✓	✓	✓	✓
200											✓	✓	✓	✓	✓	✓	✓	✓
210												✓	✓	✓	✓	✓	✓	✓
220												✓	✓	✓	✓	✓	✓	✓
230												✓	✓	✓	✓	✓	✓	✓
240												✓	✓	✓	✓	✓	✓	✓
250												✓	✓	✓	✓	✓	✓	✓
260												✓	✓	✓	✓	✓	✓	✓
280													✓	✓	✓	✓	✓	✓
300													✓	✓	✓	✓	✓	✓

EX STOCK: ✓ = STAINLESS STEEL (316) ✓ = STAINLESS STEEL (304) STAINLESS STEEL BOLTS CI. 70
CI. 80 and OTHER LENGTHS AVAILABLE TO ORDER

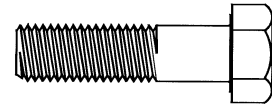


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HEXAGON HEAD BOLTS

DIN 931 (ISO 4014) STAINLESS STEEL

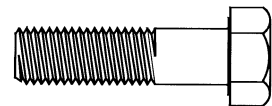


LEN/DIA	M18		M20		M22		M24		M27		M30		M33		M36	
Pitch	2.5		2.5		2.5		3.0		3.0		3.5		3.5		4.0	
A/Flats	27		30		32		36		41		46		50		55	
Hd. Hgt.	11.5		12.5		14		15		17		18.7		21		22.5	
THD<125	42		46		50		54		60		66		72		78	
125<200	48		52		56		60		66		72		78		84	
>200	61		65		69		73		79		85		91		97	
GRADE	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4
60																
65				✓												
70																
75			✓	✓												
80		✓	✓					✓								
90	✓	✓		✓		✓		✓	✓	✓						✓
100	✓	✓		✓		✓		✓	✓	✓			✓			✓
110								✓					✓			
120		✓		✓		✓		✓	✓	✓						✓
130				✓		✓							✓			
140			✓													
150						✓										
160			✓						✓	✓						
180											✓	✓				
200			✓													
220																
240																
260																
280																
300																

EX STOCK: ✓ = STAINLESS STEEL (316) ✓ = STAINLESS STEEL (304) STAINLESS STEEL BOLTS CI. 70
CI. 80 and OTHER LENGTHS AVAILABLE TO ORDER

HEXAGON HEAD BOLTS

DIN 931 BRASS



LEN/DIA	M4	M5	M6	M7	M8	M10	M12	M14	M16
Pitch	0.7	0.8	1.0	1.0	1.25	1.5	1.75	2.0	2.0
A/Flats	7	8	10	11	13	17	19	22	24
Hd. Hgt.	2.8	3.5	4	4.8	5.3	6.4	7.5	8.8	10.0
THD<125	14	16	18	20	22	26	30	34	38
SOME LENGTHS SIZES EX STOCK(refer set screws)									

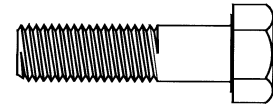


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HEXAGON HEAD BOLTS METRIC FINE

DIN 960 STEEL CI. 8.8 (ISO 8765)



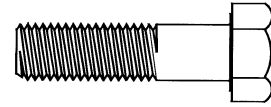
LEN/DIA	M6	M7	M8	M10		M12		M14	M16
Pitch	0.75		1.00	1.00	1.25	1.25	1.50	1.50	1.50
A/Flats	10	11	13	17	17	19	19	22	24
Hd. Hgt.	4	4.8	5.3	6.4	6.4	7.5	7.5	8.8	10
THD<125	18	20	22	26	26	30	30	34	38
125>200	24	26	28	32	32	36	36	40	44
>200				45	45	49	49	53	57
25									
30									
35			BY						
40			BY	BY	BYZ				
45				BY	YZ	BYZ			
50			BYZ	BY	BYZ	BYZ	BYZ	BYZ	
55						BYZ	BYZ	BY	BYZ
60			BY	BY	BYZ	BYZ	BYZ	BYZ	BYZ
65					BYZ	BYZ	BYZ	BYZ	BYZ
70			BY	BY	BYZ	BYZ	BYZ	BYZ	BYZ
75	B				BYZ	BYZ	BYZ	BYZ	BYZ
80			BY	BY	BYZ	BYZ	BYZ	BYZ	BYZ
85									
90			BY	BY	BYZ	BYZ	BYZ	BYZ	BYZ
95									
100				BY	BYZ	BYZ	BYZ	BYZ	BYZ
110					BYZ	BY	BY	BY	BYZ
120					BYZ	BYZ	BYZ	BYZ	BY
130					BYZ	BYZ	BY	BY	BY
140					BY	BYZ		BY	BYZ
150					BYZ	BY	BY	BY	BY
160									
170									
180									
190									
200									
210									
220									
230						Contact sales for other lengths			
240									
250									
260									
280									
300									

EX STOCK: B= BLACK Y= YELLOW ZINC PLATED Z= CLEAR ZINC PLATED



HEXAGON HEAD BOLTS METRIC FINE

DIN 960 STEEL CI. 8.8 (ISO 8765)



LEN/DIA	M18		M20		M22	M24		M30	M36	M42
Pitch	1.50	2.0	1.50	2.0	1.50	1.50	2.0	2.0	3.0	3.0
A/Flats	27	27	30	30	32	36	36	46	55	65
Hd. Hgt.	11.5	11.5	12.5	12.5	14	15	15	18.7	22.5	26
THD<125	42	42	46	46	50	54	54	66	78	90
125>200	48	48	52	52	56	60	60	72	84	96
>200	61	61	65	65	69	73	73	85	97	109
45										
50										
55										
60	BY	BY	Z	B						
65	BYZ									
70	BYZ		BY	B	BZ					
75	BYZ		BY				B			
80	BYZ		BY	B			B			
85										
90	BY	B	BY				B	B	B	
95										
100	BY		BY	B			B		B	
110	BY		BY				B			
120	BYZ		BYZ				B		B	
130	BY		BYZ				B			
140	BYZ		BY				B	B	B	
150	BY		BY	B			B	B	B	B
160	BY							B	B	B
170	B									
180	B							B	B	B
190	B									
200	B							B	B	B
210										
220	B									
230										
240										
250	B									
260										
280	B									
300										

EX STOCK: B= BLACK Y= YELLOW ZINC PLATED Z= CLEAR ZINC PLATED

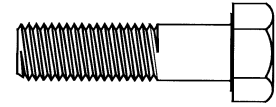


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HEXAGON HEAD BOLTS METRIC FINE

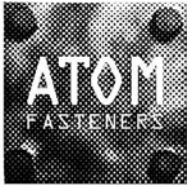
DIN 960 STEEL CI. 10.9 (ISO 8765)



LEN/DIA	M6	M7	M8	M10		M12		M14	M16	
Pitch	0.75		1.00	1.00	1.25	1.25	1.50	1.50	1.50	
A/Flats	10	11	13	17	17	19	19	22	24	
Hd. Hgt.	4	4.8	5.3	6.4	6.4	7.5	7.5	8.8	10	
THD<125	18	20	22	26	26	30	30	34	38	
125>200	24	26	28	32	32	36	36	40	44	
>200				45	45	49	49	53	57	
25										
30										
35			B							
40			B		B					
45			B				B			
50			B	B	B	B	B	B	B	
55							B		B	
60			B	B	B	B	B	B	B	
65							B		B	
70			B	B	B	B	B	B	B	
75					B	B	B		B	
80			B	B	B	B	B	B	B	
85										
90			B	B	B	B	B	B	B	
95										
100				B	B	B	B	B	B	
110							Z	B	B	
120							B	B	B	
130									B	
140								Z	B	
150									B	
160									B	
170										
180			More lengths to arrive							B
190										
200									B	

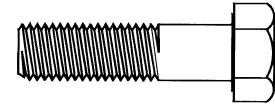
EX STOCK: B= BLACK Z=CLEAR ZINC PATED

Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



HEXAGON HEAD BOLTS METRIC FINE

DIN 960 STEEL CI. 10.9 (ISO 8765)



LEN/DIA	M18		M20		M22	M24		M27	M30	M36
Pitch	1.50	2.0	1.50	2.0	1.50	1.50	2.0	2.0	2.0	3.0
A/Flats	27	27	30	30	32	36	36	41	46	55
Hd. Hgt.	11.5	11.5	12.5	12.5	14	15	15	17	18.7	22.5
THD<125	42	42	46	46	50	54	54	60	66	78
125>200	48	48	52	52	56	60	60	66	72	84
>200	61	61	65	65	69	73	73	79	85	97
60	B									
65										
70	B		B		B		B			
75	B									
80	B		B	B	B		B			
85										
90	B	B	B		B		B		B	
95										
100	B		B	B	B		B	B	B	
110	B		B				B		B	
120	B		B	B	B		B		B	
130	B		B	B			B		B	B
140	B		B		B		B			
150	B		B	B	B		B		B	
160	B		B		B		B		B	
170	B		B							
180	B		B		B		B		B	
190			B							
200	B		B		B		B	B	B	B
210										
220										
230						More lengths arriving				
240										
250										
260										
280										
300										

EX STOCK: B= BLACK

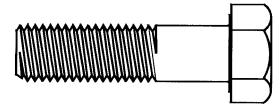
Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



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HEXAGON HEAD BOLTS IMPERIAL STEEL Grade 5 and Grade 8



DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	20	28	18	24	16	24	14	20	13	20	11	18	10	16
A/Flat	7/16"		1/2"		9/16"		5/8"		3/4"		13/16"		15/16"	
Hd. Hgt.	.183/.150		.211/.195		.243/.226		.291/.272		.323/.302		.371/.348		.371/.348	
Thd.< 6"	3/4"		7/8"		1"		1.1/8"		1.1/4"		1.3/8"		1.1/2"	
Over 6"	1"		1.1/8"		1.1/4"		1.3/8"		1.1/2"		1.5/8"		1.3/4"	
CONTACT FOR FULL RANGE														

DIAMETER	3/4"		7/8"		1"			1.1/8"		1.1/4"		1.3/8"	
Thread	UNC	UNF	UNC	UNF	UNC	UNF	NF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	10	16	9	14	8	12	14	7	12	7	12	8	12
A/Flat	1.1/8"		1.5/16"		1.1/2"			1.11/16"		1.7/8"		2.1/16"	
Hd. Hgt.	.483/.455		.563/.531		.627/.591			.718/.658		.813/.749		.878/.810	
Thd.< 6"	1.3/4"		2"		2.1/4"			2.1/2"		2.3/4"		3"	
Over 6"	2"		2.1/4"		2.1/2"			2.3/4"		3"		3.1/4"	
CONTACT FOR FULL RANGE													

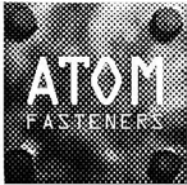
DIAMETER	1.1/2"		1.3/4"		2"		2.1/4"		2.1/2"		2.3/4"		3"	
Thread	UNC	UNF	UNC	UNF*	UNC	UNF*	UNC	UNF*	UNC	UNF*	UNC	UNF*	UNC	UNF*
T.P.I	6	12		12*	4.1/2	12*		12*		12*		12*		12*
A/Flat	2.1/4"		2.5/8"		3"		3.3/8"		3.3/4"		4.1/8"		4.1/2"	
Hd. Hgt.	.974/.902		1.134/1.054		1.263/1.175		1.423/1.327		1.583/1.479		1.744/1.632		1.935/1.815	
Thd.< 6"	3.1/4"		3.3/4"		4.1/4"									
Over 6"	3.1/2"		4"		4.1/2"		5"		5.1/2"		6"		6.1/2"	
CONTACT FOR FULL RANGE UNF* - 12tpi* not covered by standard														

HEXAGON HEAD SET SCREWS IMPERIAL STEEL Grade 5 and Grade 8



DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	20	28	18	24	16	24	14	20	13	20	11	18	10	19
A/Flat	7/16"		1/2"		9/16"		5/8"		3/4"		13/16"		15/16"	
Hd. Hgt.	.183/.150		.211/.195		.243/.226		.291/.272		.323/.302		.371/.348		.371/.348	
CONTACT FOR FULL RANGE														

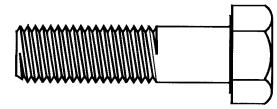
DIAMETER	3/4"		7/8"		1"			1.1/8"		1.1/4"		1.1/2"	
	UNC	UNF	UNC	UNF	UNC	UNF	NF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	10	16	9	14	8	12	14	7	12	7	12	6	12
A/Flat	1.1/8"		1.5/16"		1.1/2"			1.11/16"		1.7/8"		2.1/4"	
Hd. Hgt.	.483/.455		.563/.531		.627/.591			.718/.658		.813/.749		.974/.902	
CONTACT FOR FULL RANGE													



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HEXAGON HEAD BOLTS IMPERIAL STAINLESS STEEL



LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		5/8"		3/4"	
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	20	28	18	24	16	24	14	20	13	20	10	19	10	16
1.1/4"		✓												
1.1/2"	✓	✓	✓	✓	✓✓	✓								
1.3/4"		✓			✓	✓			✓	✓				
2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.1/4"			✓✓		✓									
2.1/2"	✓	✓	✓	✓	✓✓	✓		✓	✓	✓	✓	✓	✓	✓
3"	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
3.1/2"									✓	✓				
4"	✓		✓		✓				✓	✓				

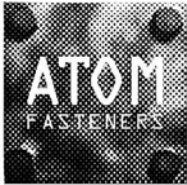
EX STOCK: ✓ = STAINLESS STEEL (316) ✓ = STAINLESS STEEL (304)
OTHER LENGTHS AVAILABLE TO ORDER plus 1/2" BSW

HEXAGON HEAD SET SCREWS IMPERIAL STAINLESS STEEL



LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		5/8"		3/4"	
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	20	28	18	24	16	24	14	20	13	20	10	19	10	16
3/8"	✓													
1/2"	✓	✓												
3/4"	✓	✓	✓	✓	✓	✓								
1"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
1.1/4"	✓		✓	✓	✓	✓		✓	✓	✓				
1.1/2"	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
1.3/4"														
2"	✓		✓	✓	✓	✓			✓	✓		✓		✓
2.1/4"														
2.1/2"	✓				✓				✓	✓				✓
3"	✓		✓		✓	✓			✓	✓				
3.1/2"									✓	✓				
4"	✓		✓		✓				✓	✓				

EX STOCK: ✓ = STAINLESS STEEL (316) ✓ = STAINLESS STEEL (304)
OTHER LENGTHS AVAILABLE TO ORDER plus 1/2" BSW

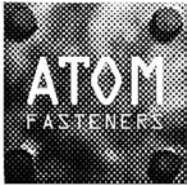


HEXAGON HEAD SET SCREWS DIN 933 STEEL Cl. 8.8



LEN/DIA	M3	M4	M5	M6	M7	M8	M10	M12	M14
Pitch	0.5	0.7	0.8	1.0	1.0	1.25	1.5	1.75	2.0
A/Flats	5.5	7	8	10	11	13	16	19	22
Hd. Hgt.	2	2.8	3.5	4	4.5	5.3	6.4	7.5	8.8
6	Z	Z							
8	Z	Z	Z	Z					
10	Z	Z	Z	Z	Z	Z			
12	Z	Z	YZ	Z	Z	GZ	Z		
14				Z		Z	Z		
16	Z	Z	YZ	GZ	Z	GYZ	GZ	Z	
18			Z	Z		Z			
20	Z	Z	YZ	GZ	Z	GZ	GYZ	GZ	Z
22				Z		Z	Z	Z	
25	Z	Z	YZ	GZ	Z	GZ	BGZ	GZ	Z
30	YZ	Z	Z	Z	Z	Z	BGZ	BGZ	Z
35	Z	Z	Z	Z	Z	Z	GZ	GZ	Z
40	Z	Z	Z	Z	Z	Z	GZ	BGZ	BZ
45	Z		Z	Z	Z	Z	Z	Z	BZ
50	Z	Z	Z	Z	Z	Z	Z	Z	BZ
55			Z	Z	Z	Z	Z	Z	Z
60		Z	Z	Z	Z	Z	Z	Z	GZ
65				Z		Z	Z	Z	Z
70				Z	Z	Z	Z	Z	Z
75				Z		Z	Z	Z	Z
80				Z		Z	Z	Z	Z
85								Z	
90				Z		Z	Z	Z	Z
95									
100				Z		Z	Z	Z	Z
110						Z	Z	Z	
120						Z	Z	Z	Z
130							Z	Z	
140							Z	Z	
150							Z	Z	

EX STOCK: B= BLACK G= HOT DIPPED GALV. (ISO FITTING). Y= YELLOW ZINC PLATED Z= CLEAR ZINC PLATED



HEXAGON HEAD SET SCREWS DIN 933 STEEL CI. 8.8



LEN/DIA	M16	M18	M20	M22	M24	M27	M30	M33	M36
Pitch	2.0	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0
A/Flats	24	27	30	32	36	41	46	50	55
Hd. Hgt.	10	11.5	12.5	14	15	17	18.7	21	22.5
20	Z								
25	Z								
30	BZ	BZ	BZ						
35	Z	BZ	BZ						
40	BZ	BZ	BZ		BZ				
45	Z	BZ	BZ		BZ				
50	BZ	BZ	BZ	BZ	BZ	BZ	BZ		B
55	Z	BZ	BZ	BZ	BZ	BZ			
60	Z	BZ	BZ	BZ	BZ	BZ	BZ	BZ	
65	Z	Z	BZ	BZ	BZ	BZ	BZ	BZ	
70	Z	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ
75	Z	Z	BZ	BZ	BZ	BZ	BZ	Z	BZ
80	Z	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ
90	Z	BZ	BZ	BZ	BZ	BZ	BZ	Z	BZ
100	Z	BZ	BZ	BZ	BZ	BZ	BZ	BZ	BZ
110	Z	B	BZ		BZ		BZ		BZ
120	Z	B	BZ		BZ	Z	BZ		BZ
130	Z	B	Z						BZ
140	Z		Z		BZ		BZ		Z
150	Z		Z				B		
160	Z		Z		Z		B		Z
180	Z		Z				B	B	B
200	Z	B	Z			B	B		B

EX STOCK: B= BLACK G= HOT DIPPED GALV. (ISO FITTING). Z= CLEAR ZINC PLATED

HEXAGON HEAD SET SCREWS DIN 933 STEEL CI. 8.8



LEN/DIA	M39	M42	M45	M48	M52	M56	M60	M64
Pitch	4.0	4.5	4.5	5.0	5.0	5.5	5.5	6.0
A/Flats	60	65	70	75	80	85	90	95
Hd. Hgt.	25	26	28	30	33	35	38	40
80	B	B						
90	B	B	B					
100	B	BZ	B	B	B			
110				B				
120	B	B		B	B			
140		B						
160			B	B				B

EX STOCK: B= BLACK Z= CLEAR ZINC PLATED



HEXAGON HEAD SET SCREWS DIN 933 STEEL CI. 10.9



LEN/DIA	M6	M7	M8	M10	M12	M14	M16	M18	M20
Pitch	1.0	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5
A/Flat	10	11	13	17	19	22	24	27	30
Hd. Hgt.	4	4.5	5.3	6.4	7.5	8.8	10	11.5	12.5
10	B		B						
12	B		B						
16	B		B	B					
20	B		B	B	B				
25	B		B	B	B	B	B		
30	B		B	B	B	B	B		B
35	B		B	B	B	B	B		B
40	B		B	B	B	B	B	B	B
45	B			B	B	B	B		B
50	B		B	B	B	B	B	B	B
55				B			B		B
60	B		B	B	B	B	B	B	B
65							B		
70	B		B	B	B	B	B		B
75					B			B	
80			B	B	B	B	B		B
90				B	B	B	B		B
100				B	B	B	B		B
120							B		B

HEXAGON HEAD SET SCREWS DIN 933 STEEL CI. 10.9



LEN/DIA	M22	M24	M27	M30	M33	M36			
Pitch	2.5	3.0	3.0	3.5	3.5	4.0			
A/Flat	32	36	41	46	50	55			
Hd. Hgt.	14	15	17	18.7	21	22.5			
40	B	B							
50	B	B							
55		B							
60	B	B	B	B					
65		B							
70		B	B	B		B			
80		B	B	B		B			
90		B		B		B			
100		B		B		B			
110				B		B			
120		B				B			

EX STOCK: B= BLACK

Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



HEXAGON HEAD SET SCREWS DIN 933 STEEL CI. 12.9



LEN/DIA	M6	M8	M10	M12	M14	M16	M18	M20	M22
Pitch	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5
A/Flats	10	13	16	19	22	24	27	30	32
Hd. Hgt.	4	5.3	6.4	7.5	8.8	10	11.5	12.5	14
20		B	B						
25		B	B	B					
30		B	B	B		B			
35			B	B		B			
40			B	B		B		B	
45						B		B	
50						B		B	
60						B		B	
65									
70						B		B	
75									
80						B		B	
90								B	
100								B	

HEXAGON HEAD SET SCREWS DIN 933 STEEL CI. 12.9



LEN/DIA	M24	M27	M30						
Pitch	3.0	3.0	3.5						
A/Flats	36	41	46						
Hd. Hgt.	15	17	18.7						
50	B								
60	B		B						
70	B		B						
80	B		B						
90	B		B						
100	B		B						

EX STOCK: B= BLACK

Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



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HEXAGON HEAD SET SCREWS DIN 933 STAINLESS STEEL



LEN/DIA	M3		M4		M5		M6		M7		M8		M10		M12		M14	
Pitch	0.5		0.7		0.8		1.0		1.0		1.25		1.5		1.75		2.0	
A/Flats	5.5		7		8		10		11		13		17		19		22	
Hd. Hgt.	2		2.8		3.5		4		4.5		5.3		6.4		7.5		8.8	
GRADE	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4
8	✓	✓	✓	✓														
10	✓	✓	✓	✓	✓	✓												
12	✓	✓	✓	✓	✓	✓	✓	✓										
16	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓				
20	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		
25	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		
30	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓
35											✓	✓	✓	✓	✓	✓		✓
40			✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓
45											✓	✓	✓	✓	✓	✓		
50					✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
55											✓	✓	✓	✓	✓	✓		
60					✓						✓	✓	✓	✓	✓	✓		
65											✓	✓	✓	✓	✓	✓		
70					✓						✓	✓	✓	✓	✓	✓		
75													✓	✓	✓	✓		
80													✓	✓	✓	✓		
90																		
100												✓	✓	✓	✓	✓		
110													✓					
120																		✓

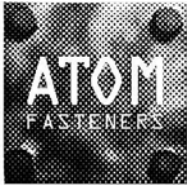
EX STOCK: ✓ = STAINLESS STEEL (316) ✓ = STAINLESS STEEL (304)

STAINLESS STEEL SET SCREWS Cl. 70 Cl. 80 and OTHER LENGTHS AVAILABLE TO ORDER

HEXAGON HEAD SET SCREWS DIN 933 STAINLESS STEEL A4-80



LEN/DIA	M3		M4		M5		M6		M7		M8		M10		M12		M16	
Pitch	0.5		0.7		0.8		1.0		1.0		1.25		1.5		1.75		2.0	
A/Flats	5.5		7		8		10		11		13		17		19		24	
Hd. Hgt.	2		2.8		3.5		4		4.5		5.3		6.4		7.5		10	
GRADE	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4
20												✓	✓					
25												✓	✓					
30												✓	✓					
40												✓	✓		✓			✓
50												✓	✓		✓			✓
60													✓		✓			
80													✓		✓			



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HEXAGON HEAD SET SCREWS DIN 933 STAINLESS STEEL



LEN/DIA	M16		M18		M20		M22		M24		M27		M30		M33		M36	
Pitch	2.0		2.5		2.5		2.5		3.0		3.0		3.5		3.5		4.0	
A/Flat	24		27		30		32		36		41		46		50		55	
Hd. Hgt.	10		11.5		12.5		14		15		17		18.7		21		22.5	
GRADE	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4
25																		
30	✓	✓																
35	✓	✓																
40	✓	✓	✓															
45	✓	✓			✓	✓												
50	✓	✓				✓			✓									
55																		
60	✓	✓	✓	✓		✓												
65										✓								
70	✓	✓		✓	✓	✓												
75																		
80	✓	✓	✓	✓		✓			✓	✓			✓			✓		
90		✓																
100		✓		✓		✓												
110		✓																
120																		
130																		
140																		
150																		
160																		
180																		
200																		

EX STOCK: ✓ = STAINLESS STEEL (316) ✓ = STAINLESS STEEL (304)

STAINLESS STEEL SET SCREWS Cl. 70 Cl. 80 and OTHER LENGTHS AVAILABLE TO ORDER

HEXAGON HEAD SET SCREWS DIN 933 ALUMINIUM and KUPRODOR CU5



LEN/DIA	M3	M4	M5	M6	M7	M8	M10	M12	M14
Pitch	0.5	0.7	0.8	1.0	1.0	1.25	1.5	1.75	2.0
A/Flats	5.5	7	8	10	11	13	16	19	22
Hd. Hgt.	2	2.8	3.5	4	4.5	5.3	6.4	7.5	8.8
SOME LENGTHS SIZES EX STOCK									



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HEXAGON HEAD SET SCREWS DIN 933 BRASS



LEN/DIA	M3	M4	M5	M6	M8	M10	M12	M16	M20
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5
A/Flats	5.5	7	8	10	13	17	19	24	30
Hd. Hgt.	2	2.8	3.5	4	5.3	6.4	7.5	10	12.5
8									
10		✓	✓						
12		✓	✓	✓					
16		✓	✓	✓	✓				
20		✓	✓	✓	✓	✓	✓		
25		✓	✓	✓	✓	✓	✓		
30			✓	✓	✓	✓	✓	✓	
35			✓	✓	✓	✓	✓		
40				✓	✓	✓	✓	✓	
45				✓	✓	✓	✓		
50				✓	✓	✓	✓	✓	
60					✓	✓	✓	✓	
70					✓	✓	✓		
80									
100							✓		

EX STOCK ✓ = BRASS

OTHER LENGTHS AVAILBLE TO ORDER

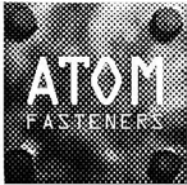
HEXAGON HEAD SET SCREWS IMPERIAL BRASS



LEN/DIA	3/16	1/4"		5/16"		3/8"		7/16"		1/2"			5/8"	3/4"
Thread	BSW	BSW	UNF	BSW	UNF	BSW	UNF	BSW	UNF	BSW	UNC	UNF	BSW	BSW
T.P.I	24	20	28	18	24	16	24	14	20	12	13	20	11	10
1/2"	✓	✓												
3/4"	✓	✓		✓		✓								
1"	✓	✓		✓		✓				✓				
1.1/4"		✓		✓		✓				✓			✓	
1.1/2"		✓		✓		✓				✓			✓	
1.3/4"														
2"				✓		✓				✓			✓	
2.1/2"														
3"													✓	
3.1/2"														
4"														

EX STOCK ✓ = BRASS

OTHER LENGTHS AVAILBLE TO ORDER



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HEXAGON HEAD SET SCREW METRIC FINE DIN 961 STEEL CI. 8.8 (ISO 8676)



LEN/DIA	M6	M7	M8	M10		M12		M14	M16
Pitch	0.75		1.00	1.00	1.25	1.25	1.50	1.50	1.50
A/Flats	10	11	13	17	17	19	19	22	24
Hd. Hgt.	4	4.8	5.3	6.4	6.4	7.5	7.5	8.8	10
20	Z		BYZ	BY	BYZ	YZ	BY	BY	BY
25	Z		BYZ	BYZ	BYZ	BYZ	BYZ	BY	BY
30	Z		BYZ	BY	BYZ	BYZ	BYZ	BYZ	BY
35	Z		Y	BY	BYZ	BYZ	BYZ	BYZ	BY
40	Z		Y	Y	BYZ	BYZ	BYZ	BYZ	BY
45			YZ		BY	BY	BY	BYZ	BY
50	Z		YZ		BY	BY	BY	BYZ	BYZ
55					BY	BY		BY	BY
60					BY	BY	BY	BY	BYZ
70									Y
120									Y

HEXAGON HEAD SET SCREW METRIC FINE DIN 961 STEEL CI. 8.8 (ISO 8676)



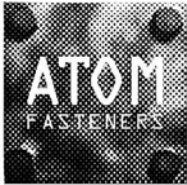
LEN/DIA	M18		M20		M22	M24		M30	
Pitch	1.50	2.0	1.50	2.0	1.50	1.50	2.0	2.0	3.0
A/Flats	27	27	30	30	32	36	36	46	46
Hd. Hgt.	11.5	11.5	12.5	12.5	14	15	15	18.7	18.7
35	BY								
40	BY		BY	B					
45	BY		B						
50	BY		BY	B	Z	B	Z		
55			B						
60	BYZ		BY					B	B
70	Y		Y						
80	Y		Y						B
90									
100						B	B		

EX STOCK: B= BLACK Y= YELLOW ZINC PASSIVATED Z= CLEAR ZINC PLATED

HEXAGON HEAD SET SCREW METRIC FINE DIN 961 STAINLESS STEEL A4



CONTACT FOR FULL RANGE



HEXAGON HEAD SET SCREW METRIC FINE

DIN 961 STEEL CI. 10.9 (ISO 8676)



LEN/DIA	M6	M7	M8	M10		M12		M14	M16
Pitch	0.75		1.00	1.00	1.25	1.25	1.50	1.50	1.50
A/Flats	10	11	13	17	17	19	19	22	24
Hd. Hgt.	4	4.8	5.3	6.4	6.4	7.5	7.5	8.8	10
20			B	B	B		B		
25			B	B	B	B	B	B	
30			B	B	B	B	B	B	B
35			B	B	B	B	B	B	B
40			B	B	B	B	B	B	B
45								B	B
50								B	B
60								B	B
70									
80									

HEXAGON HEAD SET SCREW METRIC FINE

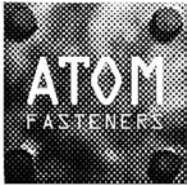
DIN 961 STEEL CI. 10.9 (ISO 8676)



LEN/DIA	M18		M20		M22	M24		M30	
Pitch	1.50	2.0	1.50	2.0	1.50	1.50	2.0	2.0	3.0
A/Flats	27	27	30	30	32	36	36	46	46
Hd. Hgt.	11.5	11.5	12.5	12.5	14	15	15	18.7	18.7
40	B		B						
45			B				B		
50	B		B		B		B		
60	B		B		B		B		
70							B	B	
80									B
90									
100							B		

EX STOCK; B= BLACK

Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



HEXAGON HEAD COACH SCREWS

AS 1393 STEEL CI. 4.6



LEN/DIA	M6	M8	M10	M12	M16	M20
A/Flats	10	13	17	19	24	30
Hd. Hgt.	4.38	5.88	7.45	8.45	10.45	13.9
THD	Thread Length 0.6 nominal length +3mm/-0mm					
30			100			
40	200	100	100	50		
50	100	100	100	50	50	
65	100	100	100	50		
75	100	100	50	50		
90	200	100	50			
100	150	100	50	50		
120			50	25		
130			25	25		
150			25	25	25	
160						
180			100	25		
200				25	25	
250	NB: HEAD DIAMETERS and Thread LENGHTS MAY VARY					
260						10
300					25	

EX STOCK: STANDARD PACKETS SHOWN: BULK and BROKEN PACKS AVAILABLE

HEXAGON HEAD COACH SCREWS

STAINLESS STEEL



LEN/DIA	M6	M8	M10	M12	M16	M20
A/Flats	10	13	17	19	24	30
Hd. Hgt.	4.38	5.88	7.45	8.45	10.45	13.9
THD	Thread Length 0.6 nominal length +3mm/-0mm					
40	6	6	6			
50		6		6		
65		6				
75			6			
80		6	6	6		
90			6			
100	6	6		6		
110		6				
130	6			6		
150				6		
180				6		
200			6	6		
240				6		

EX STOCK: 6 = STAINLESS STEEL (316)



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HEXAGON HEAD BOLTS WITH FLANGE (Plain under head & Toothed) DIN 6921 STEEL CI. 8.8 COARSE

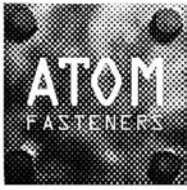


LEN/DIA	M4	M5	M6	M8	M10	M12	M14	M16	M20
Pitch	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5
A/Flats			10	13	15	16	18	21	27
Hd. Hgt.			6.6	8.1	9.2	11.5	12.8	14.4	17.1
Flge. Dia			14.2	18	22.3	26.6	30.5	35	43
THD min			18	22	26	30	34	38	46
12			Z						
16			YZ	Z					
20			YZ	YZ	YZ	Z			
25			YZ	YZ	YZ	YZ			
30			YZ	YZ	YZ	YZ			
35				Y	YZ	YZ	Y	Y	
40			Y	Y	YZ	YZ	Y	Y	Y
45				Y	Y	Y	Y	Y	
50			Y	Y	Y	Y	Y	Y	Y
60				Y	Y	Y	Y	Y	Y
65				Y					
70				Y	Y	Y		Y	Y
75									
80				Y	Y	Y	Y	Y	Y
90						Y			Y
100				Y	Y	Y		Y	Y
110									
120						Y			Y

ZINC PLATED ARE WITH TOOTHED FLANGE YELLOW ZINC ARE PLAIN UNDER FLANGE

EX STOCK: Y= YELLOW ZINC PASSIVATED Z= CLEAR ZINC PLATED

ATOM FASTENERS LTD



HEXAGON HEAD BOLTS WITH FLANGE (Plain under head) DIN 6921 STEEL CI. 10.9 COARSE



LEN/DIA	M4	M5	M6	M8	M10	M12	M14	M16	M20
Pitch	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.5
A/Flats			10	13	15	16	18	21	27
Hd. Hgt.			6.6	8.1	9.2	11.5	12.8	14.4	17.1
Flge. Dia			14.2	18	22.3	26.6	30.5	35	43
THD min			18	22	26	30	34	38	46
12									
16									
20			B	B	B				
25			B	B	B	B			
30			B	B	B	B			
35						B	B	B	
40			B	B	B	B	B	B	
45						B	B	B	
50			B	B	B	B	B	B	
60					B	B		B	
70					B	B		B	
80						B		B	
90						B			
100									

EX STOCK: B= BLACK

Warning: CI 10.9 Electro-galvanizing of these products may cause hydrogen embrittlement

HEXAGON HEAD BOLTS WITH FLANGE (Plain under head) DIN 6921 STEEL CI. 10.9 METRIC FINE



LEN/DIA	M8	M10	M12	M14	M16	M18	M20
Pitch	1.0	1.00	1.25	1.25	1.50	1.5	1.5
A/Flats	13	15	16	18	21		
Hd. Hgt.	8.1	9.2	11.5	12.8	14.4		
Flge. Dia	18	22.3	26.6	30.5	35		
THD min	22	26	30	34	38		
20	B	B					
25	B		B				
30	B	B	B				
35				B	B		
40	B	B	B	B	B		
45			B	B	B		
50	B	B	B	B	B		
60				B	B		

EX STOCK: B= BLACK

Warning: CI 10.9 Electro-galvanizing of these products may cause hydrogen embrittlement



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HEXAGON HEAD BOLTS WITH FLANGE (Plain under head)

B18.2.1 STEEL GRADE 8 150,000psi Rc 33/39



LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		5/8"		3/4"	
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	20	28	18	24	16	24	14	20	13	20	11	18	10	16
Hd. Hgt.	7.1mm		8.1mm		9.9mm		11.7mm		13mm		15.8mm		18.5mm	
A/Flats	3/8"		1/2"		9/16"		5/8"		3/4"		15/16"		1.1/8"	
Flge. Dia	14.2mm		17.3mm		20.6mm		23.6mm		27.2mm		33.8mm		40.4mm	
1/2"		B												
3/4"	B	B	B		B									
1"	B		B		B		B		B	B				
1.1/4"	B		B		B		B		B	B				
1.1/2"	B		B		B		B		B	B	B	B		
1.3/4"							B		B	B	B	B		B
2"							B		B	B	B	B	B	B
2.1/4"									B		B			B
2.1/2"									B	B	B	B	B	B
2.3/4"									B		B			
3"									B	B	B	B		B
3.1/2"										B	B	B	B	B
4"										B		B		B
4.1/2"										B		B		B
5"										B		B		B

EX STOCK: B= BLACK OTHER LENGHTS AVAILABLE TO ORDER

Warning: Electro-galvanising of these products may cause hydrogen embrittlement

12 POINT FLANGE BOLTS

(Plain under head)

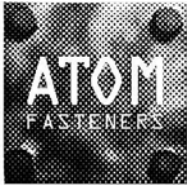
B18.2.1 STEEL 140,000psi Rc 37/42



LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		5/8"		3/4"	
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	20	28	18	24	16	24	14	20	13	20	11	18	10	16
Hd. Hgt.	0.260		0.312		0.375		0.438		0.500		0.625		0.750	
A/Flats	1/4"		5/16"		3/8"		7/16"		1/2"		5/8"		3/4"	
Flge. Dia max	0.375		0.469		0.562		0.656		0.750		0.938		1.125	
3/4"	B	B												
1"	B	B	B	B	B	B			B	B				
1.1/4"	B	B	B	B	B	B			B	B	B			
1.1/2"	B	B	B	B	B	B	B		B	B	B	B	B	
1.3/4"			B	B	B	B	B		B	B	B		B	
2"	B	B	B	B	B	B	B		B	B	B	B	B	
2.1/4"									B	B	B		B	
2.1/2"									B	B	B		B	

EX STOCK: B= BLACK OTHER LENGHTS AVAILABLE TO ORDER

Warning: Electro-galvanising of these products may cause hydrogen embrittlement



RIPP SELF LOCKING WITH FLANGE STEEL CI. 100 BOLTS COARSE



LEN/DIA	M5	M6	M8	M10	M12	M16			
Pitch	0.8	1.0	1.25	1.5	1.75	2.0			
A/Flats	8	10	13	15	17	22			
Hd. Hgt.	4.3	5.5	7.0	8.5	10	14			
FlangeOD	11.2	14.2	18.2	21.0	24.0	31.0			
10	D								
12	D								
16	D								
20	D								
25									
30									
35									
40									
45						D			
50						D			

EX STOCK D = Dacromet

Other Sizes Available to Order

Designated with property class 100 with a minimum tensile strength of 1040 N/mm², they are casehardened and cannot be classified 10.9

CONTACT US FOR FURTHER INFORMATION

TENSILOCK SELF LOCKING WITH FLANGE STEEL CI. 90 BOLTS COARSE



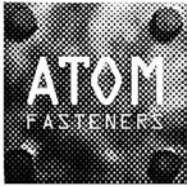
LEN/DIA	M5	M6	M8	M10	M12	M16			
Pitch	0.8	1.0	1.25	1.5	1.75	2.0			
A/Flats	8	10	13	15	17	22			
Hd. Hgt.	4.3	5.5	7.0	8.5	10	14			
FlangeOD	11.2	14.2	18.2	21.0	24.0	31.0			
10									
12									
16									
20			D	D					
25				D					
30				D	D				
35					D				
40				D	D	D			
45					D				
50					D	D			

EX STOCK D = Dacromet

Other Sizes Available to Order

Designated with property class 90, they are casehardened and cannot be classified 10.9

CONTACT US FOR FURTHER INFORMATION



ATOM FASTENERS LTD

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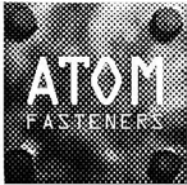
CUP HEAD BOLTS and NUTS

AS 1390 + AS 1112 Nuts STEEL Cl. 4.6



LEN/DIA	M5 DIN 603	M6	M8	M10	M12	M16	M20
	ZINC	ZINC	HD GALV.	HD GALV.	HD GALV.	HD GALV.	HD GALV.
Hd. Hgt Min/Max		3.0-3.6	4.0-4.8	5.0-5.8	6.0-6.8	8.0-8.9	10.0-10.9
Hd. Dia Min/Max		12.4-13.5	16.9-18.0	21.2-22.5	25.7-27.0	34.4-36.0	43.4-45.0
Pitch		1.0	1.25	1.5	1.75	2.0	2.5
Sq. Hgt Min/Max		3.0-3.6	4.0-4.8	5.0-5.8	6.0-6.8	8.0-8.9	10.0-10.9
Sq AF Min/Max		5.52-6.48	7.42-8.58	9.42-10.58	11.30-12.70	15.30-16.70	19.16-20.84
16	500						
20	500	200	200	100 Zinc			
25	500	200	200	100 Zinc			
30	500	200	100	100			
35		200					
40		200	100	50	50		
45		200	100	50	50		
50		100	100	50	50	25	
60		100	100	50			
65		100	100	50	50	25	20
70		100	100	50			
75		100	100	50	50	25	20
80		100	100	50	50	25	20
85				50	50		
90		100	100	50	50	25	20
100		100	100	50	25	25	15
110		100	100	50	25	25	15
120		100	100	50	25	25	15
130		100	100	50	25	25	15
140		100	100	50	25	25	15
150		100	100	50	25	25	15
160			100	50	25	20	10
170			100	50	25	20	10
180			50	50	25	10	10
190			50	25	25		
200			50	25	25	10	10
220				25	25	10	10
240				25	25	10	10
260				25	25	10	10
280				25	25	10	10
300				25	25	10	10
325					25		
350					25	10	10
375					25		
400					25	10	10
450						10	

EX STOCK: STANDARD PACKETS SHOWN: BULK and BROKEN PACKS AVAILABLE.



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CUP HEAD BOLTS

STEEL STAINLESS, BRASS and STEEL CI 8.8
DIN 603

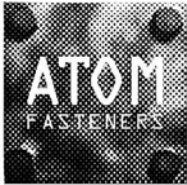


GRADE/ MATERIAL	STAINLESS STEEL										CI.8.8 (HIGH TENSILE)				
	M5		M6		M8		M10		M12		M6	M8	M10	M12	M16
Pitch	0.8		1.0		1.25		1.5		1.75		1.0	1.25	1.5	1.75	2.0
HD. DIA	13.55		16.55		20.65		24.65		30.65		16.55	20.65	24.65	30.65	38.8
THD<125	16		18		22		26		30		18	22	26	30	38
	A2	A4	A2	A4	A2	A4	A2	A4	A2	A4					
16	✓										Z	Z			
20	✓		✓		✓						Z	Z	Z		
25			✓		✓						Z	Z	Z		
30			✓		✓	✓	✓				Z	Z	Z	Z	
35					✓							Z	Z	Z	
40			✓	✓	✓	✓	✓				Z	Z	Z	Z	
45												Z		Z	
50			✓	✓	✓	✓	✓				Z	Z	Z	Z	B Z
55															
60							✓					Z	Z	Z	
65															
70							✓		✓				Z	Z	
75															
80							✓		✓				Z	Z	
85															
90							✓		✓				Z	Z	
95															
100							✓		✓				Z	Z	
110															
120															B Z
130							✓		✓						
140							✓		✓						
150							✓		✓						
160							✓		✓						
180							✓		✓						
200							✓		✓						

EX STOCK: A2 = STAINLESS STEEL (304), A4 = STAINLESS STEEL (316), Z = CLEAR ZINC PLATED, B = BRASS

MATERIAL	BRASS		
LEN/DIA	M5	M6	M8
Pitch	0.8	1.0	1.25
HD. DIA	13.55	16.55	20.65
THD	Fully Threaded		
20		✓	
30	✓	✓	✓
40		✓	

NB: NUTS SOLD SEPERATLEY



ATOM FASTENERS LTD

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SQUARE HEAD BOLTS METRIC DIN 479 STEEL CI. 8.8 SHORT DOG POINT



LEN/DIA	M6	M8	M10	M12	M16	M20	M24		
Pitch	1.0	1.25	1.5	1.75	2.0	2.5	3.0		
A/Flats	6	8	10	13	17	22	24		
Hd. Hgt.	6	8	10	12	16	20	22		
16	B	B	B						
20	B	B	B						
25	B	B	B	B					
30		B	B	B					
35			B						
40		B	B	B					
50		B	B	B	B				
60				B		B	B		
70									
80									
90									
100									
110									
120									

EX STOCK: B= BLACK

OTHER LENGTHS AVAILABLE TO ORDER

Warning: Electro-galvanising of these products may cause hydrogen embrittlement

SQUARE HEAD BOLTS IMPERIAL STEEL CASE HARDENED CUP POINT

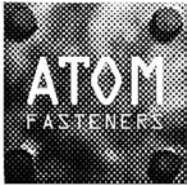


LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		5/8"		3/4"	
	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC
T.P.I	20	20	18	18	16	16	14	14	12	13	11	11	10	10
1/2"			B		B				B					
3/4"	B		B		B				B	B	B			
1"	B		B		B				B	B	B		B	
1.1/4"			B		B		B		B	B		B	B	
1.1/2"	B		B		B		B		B	B		B	B	
1.3/4"			B										B	
2"					B		B		B	B		B		
2.1/4"									B				B	
2.1/2"									B	B		B	B	
3"					B				B	B		B	B	
3.1/2"														
4"														B

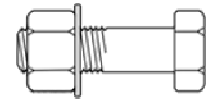
EX STOCK: B= BLACK

OTHER LENGTHS AVAILABLE TO ORDER

Warning: Electro-galvanising of these products may cause hydrogen embrittlement



HIGH STRENGTH STRUCTURAL AS1252 STEEL Cl. 8.8 BOLTS and ASSEMBLIES



LEN/DIA	M12	M16	M20	M22	M24	M27	M30	M33	M36
Pitch	1.75	2.0	2.5	2.5	3.0	3.0	3.5	3.5	4.0
A/Flats	21	27	32	36	41	46	50		60
Hd. Hgt.	8	10	13	14	15	17	19		23
Nut Hgt.	12	16	20		24		30		36
Nut A/Flats	21	27	32	36	41	46	50		60
Washer OD	25	32	37	42	48	54	58		70
Washer Thk	3	4	4	4	4	5	5		6
40		G							
45			G						
50		G	G						
55		G	G						
60		G	G		G				
65		G	G	G	G				
70		G	G	G	G				
75		G	G	G	G		G		
80		G	G		G		G		
90		G	G	G	G	G	G		G
100		G	G	G	G		G		G
110		G	G		G	G	G		G
120		G	G		G	G	G	G	G
130		G	G	G	G	G	G		G
140		G	G		G	G	G		G
150		G	G	G	G	G	G		G
160		G	G		G	G	G	G	G
180		G	G		G	G	G		G
200		G	G	G	G	G	G		G
220		G	G		G	G		G	
240		G			G	G			
250		G				G			
260			G		G	G			
280					G				
300					G		G		

EX STOCK: G= HOT DIPPED GALVANISED NUTS and WASHERS are AVAILIABLE SEPERATLEY

OTHER LENGTHS AVAILIABLE TO ORDER

M27 & M33 not covered in AS1252

Category 8.8/S – High strength structural bolts used snug tight

Category 8.8/TF – High strength structural bolts fully tightened in friction type joints

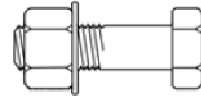
Category 8.8/TB – High strength structural bolts fully tightened in bearing type joints



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HIGH STRENGTH STRUCTURAL DIN 6914 STEEL CI. 10.9 BOLTS



LEN/DIA	M12	M16	M20	M22	M24	M27	M30	M33	M36
Pitch	1.75	2.0	2.5	2.5	3.0	3.0	3.5	3.5	4.0
A/Flats	22	27	32	36	41	46	50		60
Hd. Hgt.	8	10	13	14	15	17	19		23
Nut Hgt.	10	13	16	18	20	22	24		29
Nut A/Flats	22	27	32	36	41	46	50		60
Washer OD	24	30	37	39	44	50	56		66
Washer Thk	3	4	4	4	4	5	5		6
60	B G								
70	B	G	G		G		G		
80			G						
90					G				
100		B					G		
110			G				G		
120			G						
140									
150						G			

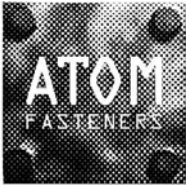
EX STOCK: B= BLACK G= HOT DIPPED GALVANISED

OTHER LENGTHS AVAILABLE TO ORDER

Bolts DIN 6914 Old standard – New standard EN 14399-4. Markings 10.9HV
 Nuts DIN 6915 Old standard – New standard EN 14399-4. Markings 10V
 Washers Din 6915 Old Standard – New standard EN 14399-6. Markings H.
 Product standard DIN can not be combined with new EN standards and used for assembly.

For further information contact Atom Fasteners.

ATOM FASTENERS LTD



L BOLTS & NUTS STEEL CI. 4.6



LEN/DIA	M12	M16	M20						
Pitch	1.75	2.0	2.5						
Foot	50	60	100		Other size of L Bolts, Holding Down Bolts to order				
Thread	50	50	100						
150	G								
180	G								
200	G	G							
250	G	G							
300	G	G							
500									
600									
700			G						

EX STOCK: G= HOT DIPPED GALVANISED

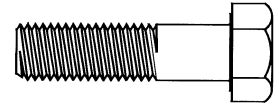
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HEXAGON HEAD BOLTS BSF BS 1083:1965 GRADE R MILD STEEL



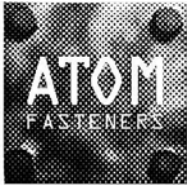
LEN/DIA	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
T.P.I	22	20	18	16	16	14	12	11	10
A/Flats max	0.525	0.60	0.71	0.82	0.92	1.01	1.20	1.30	1.48
Hd. Hgt.max.	0.218	0.26	0.302	0.343	0.375	0.417	0.50	0.583	0.666
1/2"									
3/4"									
1"									
1.1/4"									
1.1/2"	B	B	B						
1.3/4"									
2"				B					
2.1/4"				B					
2.1/2"		B	B	B	B		B	B	
3"				B					
3.1/2"	B		B	B		B	B		B
4"				B					
4.1/2"						B	B		
5"									
5.1/2"									
6"									

EX STOCK: B = BLACK OTHER SIZES AVAILABLE TO ORDER

HEXAGON HEAD SETSCREW BSF BS 1083 GRADE R MILD STEEL



LEN/DIA	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"
T.P.I	26	22	20	18	16	14	12	11	10
A/Flats	0.445	0.525	0.60	0.71	0.82	1.01	1.20	1.30	1.48
Hd. Hgt.	0.176	0.218	0.26	0.302	0.343	0.417	0.50	0.583	0.666
1/2"	B	B	B						
3/4"	B	B 6	B	B					
1"	B	B Z	B	B	B	B			
1.1/4"	B	B 6	B 6		B	B			
1.1/2"	B	B	B	B	B	B	B		
1.3/4"		6	B 6						
2"	B	B	B	B	B	B	B	B	B
2.1/2"	B	B	B	B	B	B	B	B	B
3"		B	B		B		B		B
3.1/2"	B	B	B	Z					B
4"		B	B		B	B		B	B
5"						B	B		B



HEX SETSCREWS

AS 1111 STEEL Cl. 4.6 (Mild Steel)



LEN/DIA	M6	M8	M10	M12	M16	M20	M24
Pitch	1.0	1.25	1.50	1.75	2.0	2.5	3.0
A/Flats	10	13	16	18	24	30	36
Hd. Hgt.	4	5	6.5	7.5	10	12.5	15
12	Z	Z					
16	Z	Z	Z				
20	Z	Z	Z				
25	Z	Z	Z	Z			
30		Z	Z	Z G	Z		
35	Z	Z	Z	Z			
40	Z	Z	Z	Z			
45	Z	Z	Z	Z			
50	Z	Z	Z	Z			
55							
60			Z				
65	Z	Z	Z	Z			
70							
75	Z	Z	Z	Z			
80							
90				Z			
100				Z			

EX STOCK: Z = CLEAR ZINC PLATED G = HOT DIP GALVANISED

ATOM FASTENERS LTD