

ATOM FASTENERS LTD

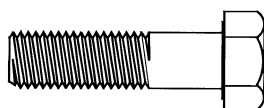
PHONE (09) 272 8664 FAX (09) 272 8694

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

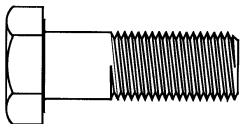
IMPERIAL BSW/UNC CUP POINT

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

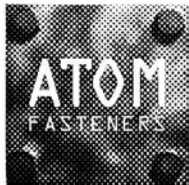
L BOLTS

METRIC L BOLTS

CI. 4.6

Hot Dip Galvanised

Bolts 35



HEX HEAD BOLTS and NUTS

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

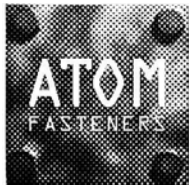


LEN/DIA	M6	M8		M10		M12		M16	M20	M24
Pitch	1.0	1.25		1.50		1.75		2.0	2.5	3.0
A/Flats	10	13		16		18		24	30	36
Hd. Hgt.	4	5		6.5		7.5		10	12.5	15
Nut Hgt.	5	6.5		8		10.5		14.5	18/20	21/23
FINISH	ZINC	ZINC	HD GALV.	ZINC	HD GALV.	ZINC	HD GALV.	HD GALV.	HD GALV.	HD GALV.
20	200	200	200	150	200					
25	200	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

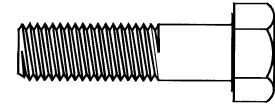
EX STOCK: STANDARD PACKETS SHOWN: BULK and BROKEN PACKS AVAILABLE

M30 and OTHER DIAMETERS and LENGHTS AVAILABLE TO ORDER

NUT and Head Heights are Nominal Dimensions

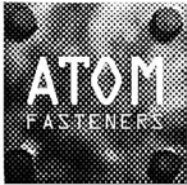


HEXAGON HEAD BOLTS DIN 931 (ISO 4014) STEEL Cl. 8.8



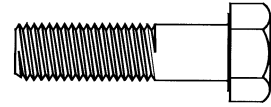
LEN/DIA	M4	M5	M6	M7	M8	M10	M12	M14	M16
Pitch	0.7	0.8	1.0	1.0	1.25	1.5	1.75	2.0	2.0
A/Flats	7	8	10	11	13	17	19	22	24
Hd. Hgt.	2.8	3.5	4	4.8	5.3	6.4	7.5	8.8	10.0
THD<125	14	16	18	20	22	26	30	34	38
125<200		22	24	26	28	42	36	40	44
>200						45	49	53	57
25	Z	Z	Z						
30	Z	Z	Z	Z	Z				
35	Z	Z	Z	Z	GZ				
40	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



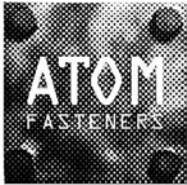
HEXAGON HEAD BOLTS

DIN 931 (ISO 4014) STEEL CL. 8.8

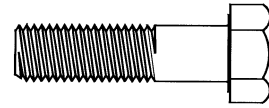


LEN/DIA	M18	M20	M22	M24	M27	M30	M33	M36	M39
Pitch	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0	4.0
A/Flats	27	30	32	36	41	46	50	55	60
Hd. Hgt.	11.5	12.5	14	15	17	18.7	21	22.5	25
THD<125	42	46	50	54	60	66	72	78	84
125<200	48	52	56	60	66	72	78	84	90
>200	61	65	69	73	79	85	91	97	103
55	B Z	B Z							
60	B Z	B Z							
65	B Z	B Z							
70	B Z	B Z	B Z	B Z					
75	B Z	B Z	B Z	B Z					
80	B Z	B Z	B Z	B Z	B Z				
85				B Z					
90	B Z	B Z	B Z	B Z	B Z	B Z			
95									
100	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	
110	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B
120	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B
130	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B
140	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B
150	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B
160	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B
170	B	B Z		B Z	B Z	B Z	B Z	B Z	B
180	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B
190				B Z					B
200	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B
210				B Z					
220	B Z	B Z	B	B Z	B Z	B Z	B	B Z	B
230		B Z		B Z		B			
240	B Z	B Z	B Z	B Z	B Z	B Z	B	B Z	B
250		B Z	B Z	B Z		B	B		
260	B Z	B Z	B Z	B Z	B Z	B Z	B	B Z	B
280	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B
300	B Z	B Z	B Z	B Z	B Z	B Z	B	B Z	B
320		B	B	B	B	B	B	B	B
330		B Z		B					
340		B	B	B	B	B	B	B	B
350		B Z	B	B Z	B	B	B	B	
360 - 380		B	B	B	B	B	B	B	B
400		B Z	B	B Z	B	B	B	B	B
420 - 440								B	
450		B Z							
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 CL. 8.8

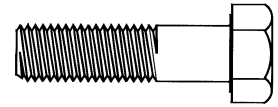


LEN/DIA	M42	M45	M48	M52	M56	M60	M64		
Pitch	4.5	4.5	5.0	5.0	5.5	5.5	6.0		
A/Flats	65	70	75	80	85	90	95		
Hd. Hgt.	26	28	30	33	35	38	40		
THD<125	90	96	102						
125<200	96	102	108	116	124	132	140		
>200	109	115	121	129	137	145	153		
120	B	B							
130	B								
140	B	B	B						
150	B		B						
160	B	B	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



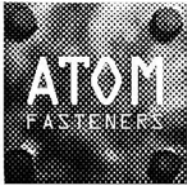
HEXAGON HEAD BOLTS DIN 931 (ISO 4014) STEEL Cl. 10.9



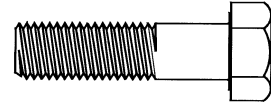
LEN/DIA	M6	M8	M10	M12	M14	M16	M18	M20	M22
Pitch	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5
A/Flats	10	13	17	19	22	24	27	30	32
Hd. Hgt.	4	5.3	6.4	7.5	8.8	10	11.5	12.5	14
THD<125	18	22	26	30	34	38	42	46	50
125<200	24	28	32	36	40	44	48	52	56
>200			45	49	53	57	61	65	69
30	B								
35	B	B							
40	B	B	B						
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.



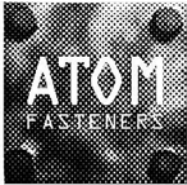
HEXAGON HEAD BOLTS DIN 931 (ISO 4014) STEEL Cl. 10.9



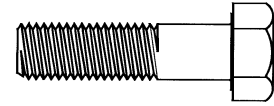
LEN/DIA	M24	M27	M30	M33	M36	M39	M42	M45	M52
Pitch	3.0	3.0	3.5	3.5	4.0	4.0	4.5	4.5	5.0
A/Fats	36	41	46	50	55	60	65	70	80
Hd. Hgt.	15	17	18.7	21	22.5	25	26	28	33
THD<125	54	60	66	72	78	84	90	96	116
125<200	60	66	72	78	84	90	96	102	116
>200	73	79	85	91	97	103	109	115	129
70	B								
75	B								
80	B	B							
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 CI. 12.9

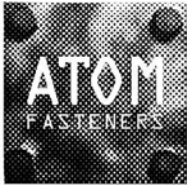


LEN/DIA	M6	M8	M10	M12	M14	M16	M18	M20	M22
Pitch	1.0	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5
A/Flats	10	13	17	19	22	24	27	30	32
Hd. Hgt.	4	5.3	6.4	7.5	8.8	10	11.5	12.5	14
THD<125	18	22	26	30	34	38	42	46	50
>125	24	28	32	36	40	44	48	52	56
30	B								
35									
40	B	B	B						
45			B	B					
50	B	B	B	B	B			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

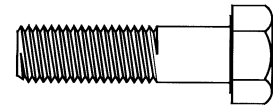
LEN/DIA	M24	M27	M30						
Pitch	3.0	3.0	3.5						
A/Flats	36	41	46						
Hd. Hgt.	15	17	18.7						
THD<125	54	60	66						
>125	60	66	72						
80	B								
90	B		B						
100	B		B						
110			B						
120			B						
130	TA								
150	TA								

EX STOCK: B= BLACK

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

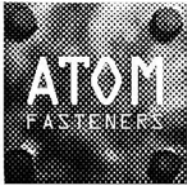


HEXAGON HEAD BOLTS DIN 931 (ISO 4014) STAINLESS STEEL



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

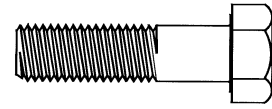


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HEXAGON HEAD BOLTS

DIN 931 (ISO 4014) STAINLESS STEEL



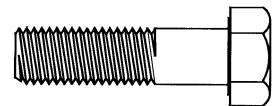
LEN/DIA	M18		M20		M22		M24		M27		M30		M33		M36	
Pitch	2.5		2.5		2.5		3.0		3.0		3.5		3.5		4.0	
A/Flats	27		30		32		36		41		46		50		55	
Hd. Hgt.	11.5		12.5		14		15		17		18.7		21		22.5	
THD<125	42		46		50		54		60		66		72		78	
125<200	48		52		56		60		66		72		78		84	
>200	61		65		69		73		79		85		91		97	
GRADE	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 Cl. 70

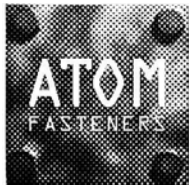
Cl. 80 and OTHER LENGTHS AVAILABLE TO ORDER

HEXAGON HEAD BOLTS

DIN 931 BRASS

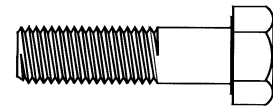


LEN/DIA	M4	M5	M6	M7	M8	M10	M12	M14	M16
Pitch	0.7	0.8	1.0	1.0	1.25	1.5	1.75	2.0	2.0
A/Flats	7	8	10	11	13	17	19	22	24
Hd. Hgt.	2.8	3.5	4	4.8	5.3	6.4	7.5	8.8	10.0
THD<125	14	16	18	20	22	26	30	34	38
		SOME LENGTHS SIZES EX STOCK(refer set screws)							



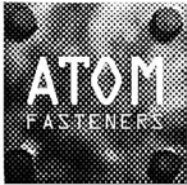
HEXAGON HEAD BOLTS METRIC FINE

DIN 960 STEEL CL. 8.8 (ISO 8765)



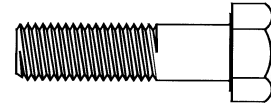
LEN/DIA	M6	M7	M8	M10		M12		M14	M16
Pitch	0.75		1.00	1.00	1.25	1.25	1.50	1.50	1.50
A/Flats	10	11	13	17	17	19	19	22	24
Hd. Hgt.	4	4.8	5.3	6.4	6.4	7.5	7.5	8.8	10
THD<125	18	20	22	26	26	30	30	34	38
125>200	24	26	28	32	32	36	36	40	44
>200				45	45	49	49	53	57
25									
30									
35			BY						
40			BY	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



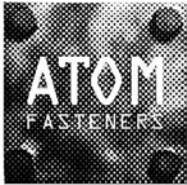
HEXAGON HEAD BOLTS METRIC FINE

DIN 960 STEEL CL. 8.8 (ISO 8765)



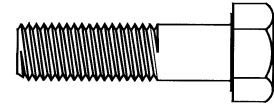
LEN/DIA	M18		M20		M22	M24		M30	M36	M42
Pitch	1.50	2.0	1.50	2.0	1.50	1.50	2.0	2.0	3.0	3.0
A/Flats	27	27	30	30	32	36	36	46	55	65
Hd. Hgt.	11.5	11.5	12.5	12.5	14	15	15	18.7	22.5	26
THD<125	42	42	46	46	50	54	54	66	78	90
125>200	48	48	52	52	56	60	60	72	84	96
>200	61	61	65	65	69	73	73	85	97	109
45										
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	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	More lengths to arrive								
260										
280	B									
300										

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



HEXAGON HEAD BOLTS METRIC FINE

DIN 960 STEEL CL. 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

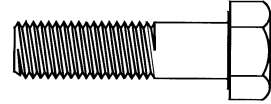
EX STOCK: B= BLACK Z= CLEAR ZINC PATED

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



HEXAGON HEAD BOLTS METRIC FINE

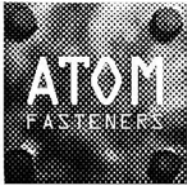
DIN 960 STEEL CL. 10.9 (ISO 8765)



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

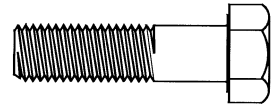
Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



ATOM FASTENERS LTD

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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											

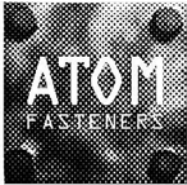
DIAMETER	1.1/2"		1.3/4"		2"		2.1/4"		2.1/2"		2.3/4"		3"	
Thread	UNC	UNF	UNC	UNF*	UNC	UNF*	UNC	UNF*	UNC	UNF*	UNC	UNF*	UNC	UNF*
T.P.I	6	12		12*	4.1/2	12*		12*		12*		12*		12*
A/Flat	2.1/4"		2.5/8"		3"		3.3/8"		3.3/4"		4.1/8"		4.1/2"	
Hd. Hgt.	.974/.902		1.134/1.054		1.263/1.175		1.423/1.327		1.583/1.479		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														

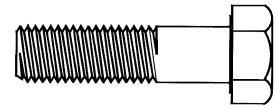
DIAMETER	3/4"		7/8"		1"			1.1/8"		1.1/4"		1.1/2"		
	UNC	UNF	UNC	UNF	UNC	UNF	NF	UNC	UNF	UNC	UNF	UNC	UNF	
T.P.I	10	16	9	14	8	12	14	7	12	7	12	6	12	
A/Flat	1.1/8"		1.5/16"		1.1/2"			1.11/16"		1.7/8"		2.1/4"		
Hd. Hgt.	.483/.455		.563/.531		.627/.591			.718/.658		.813/.749		.974/.902		
	CONTACT FOR FULL RANGE													



ATOM FASTENERS LTD

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

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

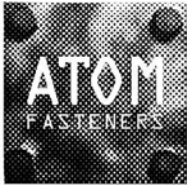
HEXAGON HEAD SET SCREWS IMPERIAL STAINLESS STEEL



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

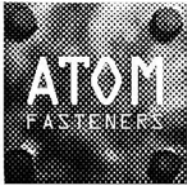


HEXAGON HEAD SET SCREWS DIN 933 STEEL Cl. 8.8



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 Cl. 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	B Z	B Z	B Z						
35	Z	B Z	B Z						
40	B Z	B Z	B Z		B Z				
45	Z	B Z	B Z		B Z				
50	B Z	B Z	B Z	B Z	B Z	B Z	B Z		B
55	Z	B Z	B Z	B Z	B Z	B Z			
60	Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	
65	Z	Z	B Z	B Z	B Z	B Z	B Z		
70	Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z
75	Z	Z	B Z	B Z	B Z	B Z	B Z	Z	B Z
80	Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z
90	Z	B Z	B Z	B Z	B Z	B Z	B Z	Z	B Z
100	Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z
110	Z	B	B Z		B Z		B Z		B Z
120	Z	B	B Z		B Z	Z	B Z		B Z
130	Z	B	Z						B Z
140	Z		Z		B Z		B Z		Z
150	Z		Z				B		
160	Z		Z		Z		B		Z
180	Z		Z				B	B	B
200	Z	B	Z			B	B		B

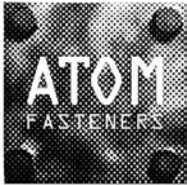
EX STOCK: B= BLACK G= HOT DIPPED GALV. (ISO FITTING). Z= CLEAR ZINC PLATED

HEXAGON HEAD SET SCREWS DIN 933 STEEL Cl. 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	B Z	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 Cl. 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

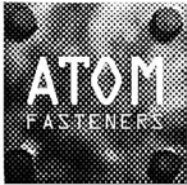
HEXAGON HEAD SET SCREWS DIN 933 STEEL Cl. 10.9



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	

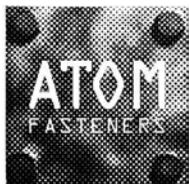
HEXAGON HEAD SET SCREWS DIN 933 STEEL CI. 12.9



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.



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														✓		✓		



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																		

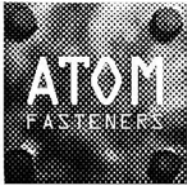
EX STOCK: ✓ = STAINLESS STEEL (316) ✓ = STAINLESS STEEL (304)

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							



ATOM FASTENERS LTD

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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 AVAILABLE TO ORDER

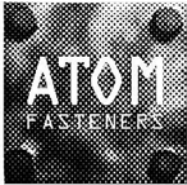
HEXAGON HEAD SET SCREWS IMPERIAL BRASS



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 AVAILABLE TO ORDER



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)



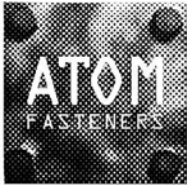
LEN/DIA	M18		M20		M22	M24		M30	
Pitch	1.50	2.0	1.50	2.0	1.50	1.50	2.0	2.0	3.0
A/Flats	27	27	30	30	32	36	36	46	46
Hd. Hgt.	11.5	11.5	12.5	12.5	14	15	15	18.7	18.7
35	BY								
40	BY		BY	B					
45	BY		B						
50	BY		BY	B	Z	B	Z		
55			B						
60	BYZ		BY					B	B
70	Y		Y						
80	Y		Y						B
90									
100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

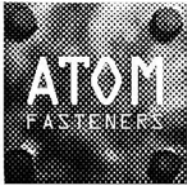
DIN 961 STEEL Cl. 10.9 (ISO 8676)



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 LENGTHS MAY VARY					
260						10
300					25	

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

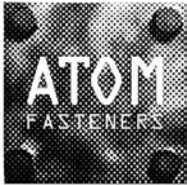
HEXAGON HEAD COACH SCREWS

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)

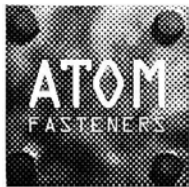


HEXAGON HEAD BOLTS WITH FLANGE (Plain under head & Toothed) DIN 6921 STEEL CI. 8.8 COARSE



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			Y Z	Z					
20			Y Z	Y Z	Y Z	Z			
25			Y Z	Y Z	Y Z	Y Z			
30			Y Z	Y Z	Y Z	Y Z			
35				Y	Y Z	Y Z	Y	Y	
40			Y	Y	Y Z	Y Z	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



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

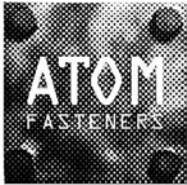
HEXAGON HEAD BOLTS WITH FLANGE (Plain under head) DIN 6921 STEEL CI. 10.9 METRIC FINE



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		
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



ATOM FASTENERS LTD

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

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



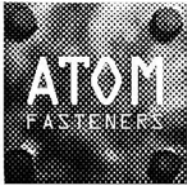
LEN/DIA	M5	M6	M8	M10	M12	M16			
Pitch	0.8	1.0	1.25	1.5	1.75	2.0			
A/Flats	8	10	13	15	17	22			
Hd. Hgt.	4.3	5.5	7.0	8.5	10	14			
FlangeOD	11.2	14.2	18.2	21.0	24.0	31.0			
10									
12									
16									
20			D	D					
25				D					
30				D	D				
35					D				
40				D	D	D			
45					D				
50					D	D			

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



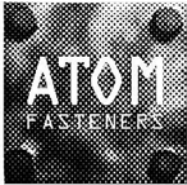
CUP HEAD BOLTS and NUTS

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 AVAILBLE.



ATOM FASTENERS LTD

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CUP HEAD BOLTS

STEEL STAINLESS, BRASS and STEEL CI 8.8
DIN 603

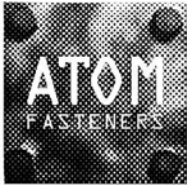


GRADE/ MATERIAL	STAINLESS STEEL										CI.8.8 (HIGH TENSILE)				
LEN/DIA	M5	M6	M8	M10	M12	M6	M8	M10	M12	M16					
Pitch	0.8	1.0	1.25	1.5	1.75	1.0	1.25	1.5	1.75	2.0					
HD. DIA	13.55	16.55	20.65	24.65	30.65	16.55	20.65	24.65	30.65	38.8					
THD<125	16	18	22	26	30	18	22	26	30	38					
	A2	A4	A2	A4	A2	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



SQUARE HEAD BOLTS METRIC DIN 479 STEEL Cl. 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

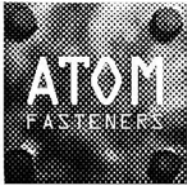


LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		5/8"		3/4"	
Thread	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC
T.P.I	20	20	18	18	16	16	14	14	12	13	11	11	10	10
1/2"			B		B				B					
3/4"	B		B		B				B	B	B			
1"	B		B		B				B	B	B		B	
1.1/4"			B		B		B		B	B		B	B	
1.1/2"	B		B		B		B		B	B		B	B	
1.3/4"			B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

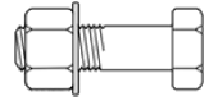
EX STOCK: B= BLACK

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 AVAILABLE SEPERATLEY

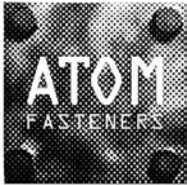
OTHER LENGTHS AVAILABLE TO ORDER

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

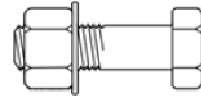
Category 8.8/TB – High strength structural bolts fully tightened in bearing type joints



ATOM FASTENERS LTD

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HIGH STRENGTH STRUCTURAL DIN 6914 STEEL CL. 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

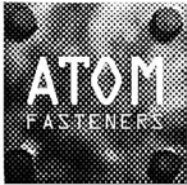
Bolts DIN 6914 Old standard – New standard EN 14399-4. Markings 10.9HV

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.



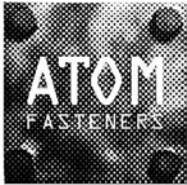
L BOLTS & NUTS STEEL CI. 4.6



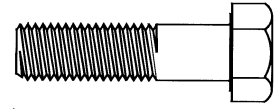
LEN/DIA	M12	M16	M20						
Pitch	1.75	2.0	2.5						
Foot	50	60	100		Other size of L Bolts, Holding Down Bolts to order				
Thread	50	50	100						
150	G								
180	G								
200	G	G							
250	G	G							
300	G	G							
500									
600									
700			G						

EX STOCK: G= HOT DIPPED GALVANISED

ATOM FASTENERS LTD



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

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

NUTS HEXAGON NUTS

PAGE



METRIC COARSE

DIN 934 STEEL CI 8	Self Colour	Nuts 1
DIN 934 STEEL CI 8	Zinc Plated	Nuts 1
DIN 934 STEEL CI 8	Zinc Plated Y/Passivated	Nuts 1
DIN 934 STEEL CI 8 o/size	HD Galvanised	Nuts 1
DIN 934 STEEL CI 8 fitting	HD Galvanised	Nuts 1
DIN 934 STEEL CI 10	Self Colour	Nuts 1
DIN 934 STEEL CI 10	Zinc Plated	Nuts 1
DIN 934 STEEL CI 12	Self Colour	Nuts 1
DIN 934 STAINLESS STEEL A2		Nuts 1
DIN 934 STAINLESS STEEL A4		Nuts 1
DIN 934 ALUMINIUM		Nuts 1
DIN 934 BRASS		Nuts 1
DIN 934 KUPRODUR CU5		Nuts 1
DIN 934 PLASTIC		Nuts 1

METRIC FINE

DIN 934 STEEL CI 8	Self Colour	Nuts 2
DIN 934 STEEL CI 8	Zinc Plated	Nuts 2
DIN 934 STEEL CI 8	Zinc Plated Y/Passivated	Nuts 2
DIN 934 STEEL CI 10	Self Colour	Nuts 2
DIN 934 STAINLESS STEEL A2		Nuts 2
DIN 934 STAINLESS STEEL A4		Nuts 2

IMPERIAL BSW

AS 2451	Zinc Plated	
BS BRASS		

IMPERIAL BSF

BS 1083 STEEL Grade R and mild	Self Colour	
--------------------------------	-------------	--

IMPERIAL UNC

B18.2.2 STEEL Grade 5 & Grade 8	Self Colour	Nuts 4
B18.2.2 STEEL Grade 5 & Grade 8	Zinc Plated	Nuts 4
B18.2.2 STEEL Grade 8	Zinc Plated Y/Passivated	Nuts 4
B18.2.2 STAINLESS STEEL 304		Nuts 4
B18.2.2 STAINLESS STEEL 316		Nuts 4
B18.2.2 BRASS		Nuts 4

IMPERIAL UNF

B18.2.2 STEEL Grade 5 & Grade 8	Self Colour	Nuts 4
B18.2.2 STEEL Grade 5 & Grade 8	Zinc Plated	Nuts 4
B18.2.2 STEEL Grade 8	Zinc Plated Y/Passivated	Nuts 4
B18.2.2 STAINLESS STEEL 304		Nuts 4
B18.2.2 STAINLESS STEEL 316		Nuts 4
B18.2.2 BRASS		Nuts 4

IMPERIAL UNIFIED

B18.6.3 STEEL Grade 5	Zinc Plated	Nuts 5
B18.6.3 STAINLESS STEEL 304		Nuts 5
B18.6.3 STAINLESS STEEL 316		Nuts 5

CONTINUED

HEXAGON NUTS LEFT HAND

METRIC COARSE



DIN 934 STEEL CI 8
DIN 934 STEEL CI 8
DIN 934 STEEL CI 8
DIN 934 STAINLESS STEEL A2
DIN 934 STAINLESS STEEL A4

Self Colour	Nuts 6
Zinc Plated	Nuts 6
HD Galvanised	Nuts 6
	Nuts 6
	Nuts 6

METRIC FINE

DIN 934 STEEL CI 8
DIN 934 STAINLESS STEEL A2

Self Colour	Nuts 7
	Nuts 7

IMPERIAL BSW

BS

Zinc Plated	Nuts 8
-------------	--------

IMPERIAL BSF

BS 1083 STEEL Grade R and mild

Self Colour	Nuts 8
-------------	--------

IMPERIAL UNC

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

Self Colour	Nuts 8
Zinc Plated	Nuts 8
Self Colour	Nuts 8
	Nuts 8
	Nuts 8

IMPERIAL UNF

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

Self Colour	Nuts 8
Zinc Plated	Nuts 8
Self Colour	Nuts 8
	Nuts 8
	Nuts 8

HEXAGON THIN NUTS

METRIC COARSE



DIN 439B STEEL CI 4
DIN 439B STEEL CI 4
DIN 439B STEEL CI 4
DIN 439B STEEL CI 4 o/size
DIN 439B STEEL CI 4 fitting
DIN 439B STAINLESS STEEL A2
DIN 439B STAINLESS STEEL A4
DIN 439B ALUMINIUM
DIN 439B BRASS

Self Colour	Nuts 10
Zinc Plated	Nuts 10
Zinc Plated Y/Passivated	Nuts 10
HD Galvanised	Nuts 10
HD Galvanised	Nuts 10
	Nuts 10
	Nuts 10
	Nuts 10
	Nuts 10

METRIC FINE

DIN 439B STEEL CI 4
DIN 439B STEEL CI 4
DIN 439B STEEL CI 4
DIN 439B STAINLESS STEEL A2
DIN 439B STAINLESS STEEL A4

Self Colour	Nuts 12
Zinc Plated	Nuts 12
Zinc Plated Y/Passivated	Nuts 12
	Nuts 12
	Nuts 12

CONTINUED

HEXAGON THIN NUTS

CONTINUED



IMPERIAL BSW

BS
BS BRASS

Zinc Plated

PAGE

Nuts 13
Nuts 13

IMPERIAL BSF

BS 1083 STEEL Grade R and mild

Self Colour

Nuts 13

IMPERIAL UNC (JAM)

B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 8
B18.2.2 STEEL Grade 8
B18.2.2 STEEL Grade 8
B18.2.2 STAINLESS STEEL 304
B18.2.2 STAINLESS STEEL 316

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

Nuts 13
Nuts 13
Nuts 13
Nuts 13
Nuts 13
Nuts 13
Nuts 13
Nuts 13

IMPERIAL UNF (JAM)

B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 8
B18.2.2 STEEL Grade 8
B18.2.2 STEEL Grade 8
B18.2.2 STAINLESS STEEL 304
B18.2.2 STAINLESS STEEL 316

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

Nuts 13
Nuts 13
Nuts 13
Nuts 13
Nuts 13
Nuts 13
Nuts 13
Nuts 13

HEXAGON THIN NUTS LEFT HAND



METRIC COARSE

DIN 439B STEEL CI 4
DIN 439B STEEL CI 4 o/size
DIN 439B STAINLESS STEEL A2
DIN 439B STAINLESS STEEL A4
DIN 439B BRASS

Zinc Plated
HD Galvanised

Nuts 10
Nuts 10
Nuts 10
Nuts 10
Nuts 10

METRIC FINE

DIN 439B STEEL CI 4
DIN 439B STEEL CI 4
DIN 439 STAINLESS STEEL A2
DIN 439 STAINLESS STEEL A4

Self Colour
Zinc Plated

Nuts 12
Nuts 12
Nuts 12
Nuts 12

IMPERIAL BSW

BS
BS BRASS

Zinc Plated

Nuts 13
Nuts 13

IMPERIAL BSF

BS 1083 STEEL Grade R and mild

Self Colour

Nuts 13

IMPERIAL UNC

B18.2.2 STEEL Grade 2 & Grade 5
B18.2.2 STEEL Grade 5
B18.2.2 STAINLESS STEEL 304
B18.2.2 STAINLESS STEEL 316

Self Colour
Zinc Plated

Nuts 13
Nuts 13
Nuts 13
Nuts 13

IMPERIAL UNF

B18.2.2 STEEL Grade 2 & Grade 5
B18.2.2 STEEL Grade 5
B18.2.2 STAINLESS STEEL 304
B18.2.2 STAINLESS STEEL 316

Self Colour
Zinc Plated

Nuts 13
Nuts 13
Nuts 13
Nuts 13

HEXAGON DEEP NUTS

PAGE



METRIC COARSE

DIN 6330B STEEL CI 10
DIN 9330B STAINLESS STEEL A2(A1)
DIN 9330B BRASS

Self Colour

Nuts 14
Nuts 14
Nuts 14

IMPERIAL BSW

BS BRASS

Nuts 15

IMPERIAL UNC

STEEL Grade 2

Self Colour

Nuts 15

IMPERIAL UNF

J482 STEEL Grade 5
J482 STEEL Grade 8

Self Colour
Self Colour

Nuts 15
Nuts 15

HEXAGON ROD COUPLER NUTS

METRIC COARSE



STEEL CI 4
STEEL CI 4 o/size
STEEL CI 10
STAINLESS STEEL A2
STAINLESS STEEL A4
BRASS

Zinc Plated
HD Galvanised
Zinc Plated

Nuts 16
Nuts 16
Nuts 16
Nuts 16
Nuts 16
Nuts 16

IMPERIAL BSW

STEEL Grade 2

Zinc Plated

IMPERIAL UNC

IFI 128 STEEL Grade 5

Zinc Plated

IMPERIAL UNF

IFI 128 STEEL Grade 5

Zinc Plated

HEXAGON NYLON INSERT LOCKNUTS

METRIC COARSE



DIN 985 STEEL CI 5
DIN 985 STEEL CI 5
DIN 985 STEEL CI 8
DIN 985 STEEL CI 8
DIN 985 STEEL CI 8
DIN 985 STEEL CI 10
DIN 985 STEEL CI 10
DIN 985 STAINLESS STEEL A2
DIN 985 STAINLESS STEEL A4
DIN 982 STEEL CI 8
DIN 982 STEEL CI 10
DIN 982 STAINLESS STEEL A4

Zinc Plated
Zinc Plated Y/Passivated
Zinc Plated
Zinc Plated Y/Passivated
HD Galvanised
Zinc Plated
Zinc Plated Y/Passivated

Nuts 17
Nuts 17
Nuts 17
Nuts 17
Nuts 17
Nuts 17
Nuts 17
Nuts 17
Nuts 17
Nuts 17
Nuts 18
Nuts 18
Nuts 18

METRIC FINE

DIN 985 STEEL CI 5
DIN 985 STEEL CI 8
DIN 985 STEEL CI 10

Zinc Plated
Zinc Plated Y/Passivated
Zinc Plated Y/Passivated

Nuts 18
Nuts 18
Nuts 18

CONTINUED

HEXAGON NYLON INSERT LOCKNUTS

CONTINUED

PAGE

Nuts 19



IMPERIAL BSF

STEEL Grade

Zinc Plated

IMPERIAL BSW

STEEL Grade

Zinc Plated

Nuts 19

IMPERIAL UNC

N.E. STEEL Grade 2/5

N.E. STEEL Grade 8

Zinc Plated

Zinc Plated

Nuts 19

Nuts 19

IMPERIAL UNF

N.E. STEEL Grade 2/5

N.E. STEEL Grade 8

Zinc Plated

Zinc Plated

Nuts 19

Nuts 19

HEXAGON NYLON INSERT THIN LOCKNUTS



IMPERIAL UNC

N.T. E. STEEL Grade 2/5

N.T.E. STEEL Grade (Thin)

Zinc Plated

Zinc Plated

Nuts 20

Nuts 19

IMPERIAL UNF

N.T.E. STEEL Grade (Thin)

Zinc Plated

Nuts 19

HEXAGON PREVAILING TORQUE LOCK NUT (Conelock)



METRIC COARSE

DIN 980 V STEEL CI 8

DIN 980 V STEEL CI 10

Zinc Plated & Wax

Zinc Plated & Wax

Nuts 22

Nuts 22

METRIC FINE

DIN 980 V STEEL CI 8

Zinc Plated & Wax

Nuts 22

IMPERIAL UNC

STEEL Grade C

Zinc Plated & Wax

Nuts 23

IMPERIAL UNF

STEEL Grade C

Zinc Plated & Wax

Nuts 23

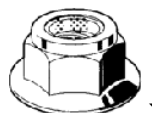
HEXAGON PREVAILING TORQUE LOCK NUT WITH FLANGE

METRIC COARSE

DIN 6926 STEEL CI 8 NYLON INSERT

Zinc Plated

Nuts 24



METRIC FINE

DIN 6927 STEEL CI 8 NYLON INSERT

Zinc Plated

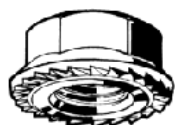
Nuts 24

IMPERIAL UNC

STEEL Grade G Flanged

Self Colour

Nuts 24



IMPERIAL UNF

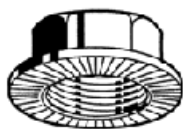
STEEL Grade G Flanged

Self Colour

Nuts 24

HEXAGON SELF-LOCKING NUT WITH FLANGE

PAGE



METRIC COARSE

DIN 6926 STEEL CI 8 NYLON INSERT
DIN 6923 STEEL CI 8 SERRATED
DIN 6923 STEEL CI 8 SERRATED
DIN 6923 STEEL CI 10 SERRATED
RIPP STEEL CI 10 SERRATED
TENSILOCK STEEL CI 8/10 TOOTHED

Zinc Plated
Zinc Plated
Zinc Plated Y/Passivated
Zinc Plated
Dacromet
Dacromet

Nuts 21

HEXAGON SELF-LOCKING NUT WITH FLANGE

METRIC FINE

STEEL CI 8 SERRATED
STEEL CI 8 SERRATED

Zinc Plated
Zinc Plated Y/Passivated

IMPERIAL UNC

STEEL Case Hardened SERRATED

Zinc Plated

IMPERIAL UNF

STEEL Case Hardened SERRATED

Zinc Plated

HEXAGON SELF-LOCKING NUT WITH CAPTIVE WASHER



METRIC COARSE

STEEL with TOOTH LOCK WASHER

Zinc Plated

HEXAGON SELF-LOCKING LOCK NUT (PAL Type)



METRIC COARSE

DIN 7964 SPRING STEEL
DIN 7964 STAINLESS STEEL A2

Zinc Plated

Nuts 33
Nuts 33

HEXAGON DOME NUTS

METRIC COARSE

DIN 1587 STEEL CI 6
DIN 1587 STAINLESS STEEL A2
DIN 1587 STAINLESS STEEL A4
BRASS
BRASS

Zinc Plated

Nuts 28
Nuts 28
Nuts 28
Nuts 28
Nuts 28

IMPERIAL BSW

BRASS
BRASS

Self Colour
Nickel Plated

Nuts 28
Nuts 28

IMPERIAL UNC

STAINLESS STEEL A2

Nuts 29

IMPERIAL UNF

STAINLESS STEEL A2

Nuts 29

HEXAGON SLOTTED NUTS (CASTELATED and SLOTTED HEX)

METRIC COARSE



DIN 935 STEEL CI 4
DIN 935 STEEL CI 4
DIN 935 STEEL CI 4 o/size
DIN 935 STAINLESS STEEL A2
DIN 935 STAINLESS STEEL A4
DIN 979 STEEL CI 4 (Thin Type)

Self Colour
Zinc Plated
HD Galvanised

PAGE

Nuts 25
Nuts 25
Nuts 25
Nuts 25
Nuts 25
Nuts 26

METRIC FINE



DIN 935 STEEL CI 4
DIN 935 STEEL CI 4
DIN 979 STEEL CI 4 (Thin Type)

Self Colour
Zinc Plated
Zinc Plated

Nuts 26
Nuts 26
Nuts 26

IMPERIAL BSW

STEEL Grade 2

Zinc Plated

Nuts 27

IMPERIAL BSF

STEEL Grade 2

Self Colour

Nuts 27

IMPERIAL UNC

B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 8

Self Colour
Zinc Plated
Self Colour

Nuts 27
Nuts 27
Nuts 27

IMPERIAL UNF

B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 5
B18.2.2 STEEL Grade 8

Self Colour
Zinc Plated
Self Colour

Nuts 27
Nuts 27
Nuts 27

PRESS NUTS



METRIC COARSE (KALEI)

STEEL CI 6

Zinc Plated

Nuts 33

RIVET BUSHES HEXAGON and ROUND



METRIC COARSE

STEEL
BRASS

Zinc Plated

WELD NUTS



METRIC COARSE (SPOT WELD)

STEEL Smooth Flange
STEEL Smooth Flange
STEEL with Welding Spots
STAINLESS STEEL A2 with Welding Spots

Self Colour
Zinc Plated
Self Colour

Nuts 33
Nuts 33
Nuts 33
Nuts 33



METRIC COARSE (HEXAGON)

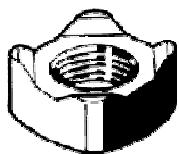
DIN 929 STEEL
DIN 929 STAINLESS STEEL A2
DIN 929 STAINLESS STEEL A4

Self Colour

Nuts 33
Nuts 33
Nuts 33

COUNTINUED

WELD NUTS COUNTINUED



METRIC COARSE (SQUARE)

DIN 928 STEEL
DIN 928 STAINLESS STEEL A2

Self Colour

PAGE

Nuts 33
Nuts 33

WING NUTS



METRIC COARSE

B18.17 STEEL
STAINLESS STEEL A2
STAINLESS STEEL A4
BRASS

Zinc Plated

Nuts 30
Nuts 30
Nuts 30
Nuts 30



IMPERIAL UNC/BSW

B18.17 STEEL
STAINLESS STEEL 304
STAINLESS STEEL 316

Zinc Plated

Nuts 30
Nuts 30
Nuts 30

TEE NUTS (DRIVE IN NUTS FOR WOOD)



METRIC COARSE

STEEL (Pronged)
STAINLESS STEEL A2 (Pronged)

Zinc Plated

Nuts 30
Nuts 30

SLOTTED ROUND NUTS (For HOOK SPANNERS)



METRIC FINE

DIN 1804 STEEL
STEEL with INSERT (GUK Type)

Self Colour
Zinc Plated Y/Passivated

Nuts 30
Nuts 30

SLOTTED COUNTERSUNK NUTS



METRIC COARSE

110 deg STEEL

Zinc Plated

Nuts 35

SQUARE NUTS



METRIC COARSE

DIN 557 STEEL CI 5

Zinc Plated

Nuts 30



METRIC COARSE (THIN)

DIN 562 STEEL CI 5
BRASS
STAINLESS STEEL A2

Zinc Plated

Nuts 30
Nuts 30
Nuts 30

STRUCTURAL NUTS

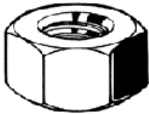


METRIC COARSE

AS 1252 STEEL CI 8 o/size
DIN 6915 STEEL CI 10
DIN 6915 STEEL CI 10 o/size

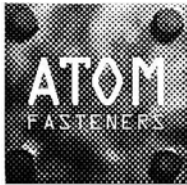
HD Galvanised
Self Colour
HD Galvanised

Nuts 9
Nuts 9
Nuts 9

PETROCHEMICAL NUTS (HEAVY HEX NUTS)			PAGE
	METRIC COARSE		
	ASTM 194 STEEL Grade 2H	Self Colour	Nuts 9
	IMPERIAL		
	ASTM 194 STEEL Grade 2H	Self Colour	Nuts 9
	ASTM 194 STAINLESS STEEL Grade 8		Nuts 9

SPACER WITH INTERNAL AND EXTERNAL THREAD			
	METRIC COARSE		
	Cl. 6 STEEL	Zinc Plated	Nuts 32

SPACER WITH TWO INTERNAL THREADS			
	METRIC COARSE		
	Cl. 6 STEEL	Zinc Plated	Nuts 32



ATOM FASTENERS LTD

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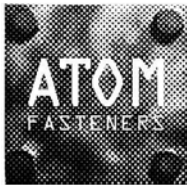
HEXAGON NUTS COARSE THREADS DIN 934



DIAMETER		M1.0	M1.2	M1.4	M1.6	M2	M2.5	M3
Pitch		0.25	0.25	0.3	0.35	0.4	0.45	0.5
A/Flats		2.5	3	3	3.2	4	5	5.5
HGT max-min		0.8-0.55	1-0.75	1.2-0.95	1.3-1.05	1.6-1.35	2-1.75	2.4-2.15
STEEL CI.8	SELF.COLOUR		✓					
	ZINC CLEAR				✓	✓	✓	✓
	ZINC YELLOW							✓
STEEL CI.10	SELF.COLOUR							✓
	ZINC CLEAR							✓
STEEL CI.12	SELF.COLOUR							✓
STAINLESS STEEL	A2 (G304)	✓	✓	✓	✓	✓	✓	✓
	A4 (G316)				✓	✓	✓	✓
ALUMINIUM	P40 OR P60							✓
BRASS						✓	✓	✓
PLASTIC	PA NYLON					✓	✓	✓

DIAMETER		M3.5	M4	M5	M6	M7	M8	M10
Pitch		0.6	0.7	0.8	1.0	1.0	1.25	1.5
A/Flats		6	7	8	10	11	13	17
HGT max-min		2.8-2.55	3.2-2.9	4-3.7	5-4.7	5.5-5.2	6.5-6.14	8-7.64
STEEL CI.8	SELF.COLOUR						✓	✓
	HOT DIP GALV				✓		✓	✓
	ZINC CLEAR	✓	✓	✓	✓	✓	✓	✓
	ZINC YELLOW			✓	✓		✓	✓
STEEL CI.10	SELF.COLOUR			✓	✓		✓	✓
	ZINC CLEAR		✓	✓	✓		✓	✓
STEEL CI.12	SELF.COLOUR		✓	✓	✓		✓	✓
STAINLESS STEEL	A2 (G304)		✓	✓	✓		✓	✓
	A4 (G316)		✓	✓	✓	✓	✓	✓
ALUMINIUM	P40 OR P60		✓	✓	✓		✓	✓
BRASS			✓	✓	✓	✓	✓	✓
KUPRODUR	CU5							
PLASTIC	NYLON		✓	✓	✓		✓	✓

DIAMETER		M12	M14	M16	M18	M20	M22	M24
Pitch		1.75	2.0	2.0	2.5	2.5	2.5	3.0
A/Flats		19	22	24	27	30	32	36
HGT max-min		10-9.64	11-10.3	13-12.3	15-14.3	16-14.9	18-16.9	19-17.7
STEEL CI.8	SELF.COLOUR	✓	✓	✓	✓	✓	✓	✓
	HOT DIP GALV	✓	✓	✓	✓	✓	✓	✓
	ZINC CLEAR	✓	✓	✓	✓	✓	✓	✓
	ZINC YELLOW	✓	✓	✓		✓		
STEEL CI.10	SELF.COLOUR	✓	✓	✓	✓	✓	✓	✓
	ZINC CLEAR	✓	✓	✓	✓	✓	✓	✓
STEEL CI.12	SELF.COLOUR	✓	✓	✓		✓		✓
STAINLESS STEEL	A2 (G304)	✓	✓	✓	✓	✓	✓	✓
	A4 (G316)	✓	✓	✓	✓	✓	✓	✓
BRASS		✓	✓	✓	✓	✓	✓	✓
PLASTIC	Nylon	✓		✓		✓		



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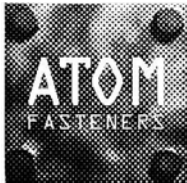
DIAMETER		M27	M30	M33	M36	M39	M42	M45
Pitch		3	3.5	3.5	4.0	4.0	4.5	4.5
A/Flats		41	46	50	55	60	65	70
HGT max-min		22-20.7	24-22.7	26-24.7	29-27.4	31-29.4	34-32.4	36-34.4
STEEL CI.8	SELF COLOUR	✓	✓	✓	✓	✓	✓	✓
	HOT DIP GALV	✓	✓	✓	✓	✓	✓	✓
	ZINC CLEAR	✓	✓	✓	✓	✓	✓	✓
STEEL CI.10	SELF.COLOUR	✓	✓	✓	✓	✓	✓	
	ZINC CLEAR							
STEEL CI.12	SELF.COLOUR	✓						
STAINLESS STEEL	A2 (G304)	✓	✓	✓	✓	✓	✓	
	A4 (G316)	✓	✓	✓	✓	✓	✓	
BRASS		✓	✓					

DIAMETER		M48	M52	M56	M60	M64	M68	M72
Pitch		5.0	5.0	5.5	5.5	6.0	6.0	6.0
A/Flats		75	80	85	90	95	100	105
HGT max-min		38-36.4	42-40.4	45-43.4	48-46.4	51-49.1	54-52.1	61-59.1
STEEL CI.8	SELF.COLOUR	✓	✓	✓	✓	✓	✓	✓
	HOT DIP GALV	✓	✓	✓	✓			
	ZINC CLEAR	✓	✓					
STAINLESS STEEL	A2 (G304)							
	A4 (G316)	✓						

DIAMETER		M76	M80	M85	M90	M100	
Pitch		6.0	6.0	6.0	6.0	6.0	
A/Flats		110	115	120	130	140	
HGT max-min		61-59.1	64-62.1	68-66.1	72-70.1	80-78.1	
STEEL CI.8	SELF.COLOUR	✓	✓		✓		
	HOT DIP GALV						

EX STOCK: =✓

Other sizes available to order



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HEXAGON NUTS FINE THREADS DIN 934



DIAMETER		M5	M6	M7	M8		M10	
Pitch		0.9	0.75	0.75	0.75	1.00	1.0	1.25
A/Flats		8	10	11		13	17	
HGT max-min		4/3.7	5.0/4.7	5.5/4.2		6.5/6.14	8/7.64	
STEEL Cl.8		B	B Y			B Y	B Y	B Y Z
STEEL Cl.10						B	B	B
STAINLESS STEEL	A2 (G304) / A4 (G316)					4	4 6	4 6
BRASS								

DIAMETER		M12			M14		M16	
Pitch		1.0	1.25	1.5	1.25	1.5	1.0	1.5
A/Flats		19			22		24	
HGT max-min		10/9.64			10/9.64		13/12.3	
STEEL Cl.8		B Y	B Z Y	B Z Y	B Z	B Z Y	B	B Z Y
STEEL Cl.10			B	B		B		B
STAINLESS STEEL	A2 (G304) / A4 (G316)		4 6	4 6		4		4

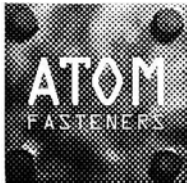
DIAMETER		M18			M20		M22	
Pitch		1.0	1.50	2.0	1.50	2.0	1.50	2.00
A/Flats		27			30		32	
HGT max-min		15/14.3			16/14.9		18-16.9	
STEEL Cl.8		B	B Z Y		B Z Y	B Y		B
STEEL Cl.10			B		B			
STAINLESS STEEL	A2 (G304) / A4 (G316)		4		4			

DIAMETER		M22			M24		M27	
Pitch		1.0	1.50	2.0	1.50	2.0	1.5	2.0
A/Flats		32			36		41	
HGT max-min		18-16.9			19-17.7		22-20.7	
STEEL Cl.8		B	B Z Y	B	B Z Y	Y	B Y	B Y
STEEL Cl.10			B			B		B
STAINLESS STEEL	A2 (G304) / A4 (G316)					4		

DIAMETER		M30		M33		M36			M42	
Pitch		1.5	2.0	1.5	2.0	1.5	2.0	3.0	1.5	3.0
A/Flats		46		50		55			65	
HGT max-min		24		26		29			34	
STEEL Cl.8		B Y Z	B Y	B Y	B Y	B Y	B Y	B Y	B Y	B Y
STEEL Cl.10			B							

DIAMETER		M45		M48		M52	M56	M60	M64	M68
Pitch		1.50	2.00	1.5/2.0	3.0	3.0	2.0/4.0	2.0/4.0	4.4	4.0
A/Flats		70		75		80	85	90	95	100
HGT max-min		35		38		42	45	48	51	54
STEEL Cl.8		B Y	B Y	B/B	B	B	B	B	B	B

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON NUTS IMPERIAL FULL HEX UNC UNF

DIAMETER		1/4"		5/16"		3/8"		7/16"		1/2"		9/16"	
A/Flats		7/16"		1/2"		9/16"		11/16"		3/4"		7/8"	
Height		7/32"		17/64"		21.64"		3/8"		7/16"		31/64"	
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I.		20	28	18	24	16	24	14	20	30	20	12	18
STEEL Gr 5		B Z	Z	BZ	Z	BZ	Z	B Z	Z	B Z	Z	B Z	B Z
	HOT DIP GALV									✓			
STEEL Gr 8		Y	Y	Y	Y	Y	Y	Y	Y	B Y Z	Z	B Z	B Z
STAINLESS STEEL	G304/G316	4 6	4	4 6	4	4 6	4	4 6	4	4 6	4 6	4 6	
BRASS			✓		✓		✓			✓			

DIAMETER		5/8"		3/4"		7/8"		1"		1.1/8"		
A/Flats		15/16"		1.1/8"		1.5/16"		1.1/2"		1.11/16"		
Height		35/64"		41/64"		3/4"		55/64"		31/32"		
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	NF	UNC	UNF
T.P.I.		11	18	10	16	9	14	8	12	14	7	12
STEEL Gr 5		B Z		B Z		B Z		B Z	B Z			B
	HOT DIP GALV	G		G		G		G			G	
STEEL Gr 8		B Y Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Y Z	B Z	B Z
STAINLESS STEEL	G304/G316	4 6	4 6	4 6	4 6	6	4 6	4 6	4 6		6	

DIAMETER		1.1/4"		1.3/8"		1.1/2"		1.5/8"		1.3/4"		1.7/8"	
A/Flats		1.7/8"		2.1/16"		2.1/4"		2.7/16"		2.5/8"		2.3/4"	
Height		1.1/16"		1.11/16"		1.9/32"		1.25/64"		1.1/2"		1.3/4"	
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I.		7	12	6	12	6	12	5.1/2"	12	5	12	5	12
STEEL Gr 5		B	B	B		B		B	B	B		B	B
STEEL Gr 8		B Z	B Z	B	B Z	B Z	B Z			B	B		
STAINLESS STEEL	G304/G316	4		4		4							

DIAMETER		2"		2.1/4"		2.1/2"		2.3/4"		3"		
A/Flats		3"		3.3/8"		3.3/4"		4.1/8"		4.1/2"		
Height		1.23/32"		1.59/64"		2.9/64"		2.23/64"		2.37/64"		
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	
T.P.I.		4.1/2	12	4.1/2	12	4	12	4	12	4	12	
STEEL Gr 5		B	B	B		B		B	B			
STEEL Gr 8		B	B	B	B	B	B	B	B	B	B	

IMPERIAL MACHINED NUTS

DIAMETER		3"		3.1/4"		3.1/2"		3.3/4"		4"		
A/Flats		4.18"		4.53"		4.85"		5.18"		5.50"		
Height												
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	
T.P.I.		4	12	4	12	4	12	4	12	4	12	
MACHINED	SELF COLOUR	✓	✓	✓		✓		✓		✓		

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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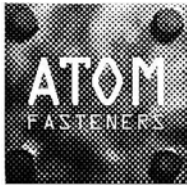
HEXAGON FULL NUTS IMPERIAL UNIFIED



DIAMETER	#2		#4		#5		#6		#8		#10		#12	
A/Flats	3/16"		1/4"		5/16"		5/16"		11/32"		3/8"		7/16"	
Height	3/64"		3/32"		23/64"		7/64"		1/8"		1/8"		5/32"	
THREAD	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF
T.P.I.	56	64	40	48	40	44	32	40	32	36	24	32	24	28
STEEL Gr 2	Z		Z		Z		Z		Z		Z		Z	
STAINLESS STEEL			4	4	4	4	4	4	4	4	4 6	4	4	4
BRASS												✓		

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

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HEXAGON NUTS

COARSE THREADS DIN 934 LEFT HAND

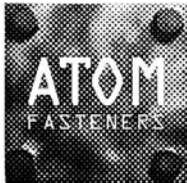


DIAMETER		M3	M4	M5	M6	M7	M8	M10
Pitch		0.5	0.7	0.8	1.0	1.0	1.25	1.5
A/Flats		5.5	7	8	10	11	13	17
HGT max-min		2.4-2.15	3.2-2.9	4-3.7	5-4.7	5.5-5.2	6.5-6.14	8-7.64
STEEL Cl.8		Z	Z	Z	Z		Z	Z
	HOT DIP GALV							G
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4	4	4	4		4 6	4 6
BRASS								

DIAMETER		M12	M14	M16	M18	M20	M22	M24
Pitch		1.75	2.0	2.0	2.5	2.5	2.5	3.0
A/Flats		19	22	24	27	30	32	36
HGT max-min		10-9.64	11-10.3	13-12.3	15-14.3	16-14.9	18-16.9	19-17.7
STEEL Cl.8		Z	B Z	B Z	B Z	B Z	B Z	B Z
	HOT DIP GALV	G	G	G	G	G	G	G
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4 6	4	4	4	4 6	4	4
BRASS								

DIAMETER		M27	M30	M33	M36	M39	M42	M48
Pitch		3.0	3.5	3.5	4.0	4.0	4.5	5.0
A/Flats		41	46	50	55	60	65	75
HGT max-min		22-20.7	24-22.7	26-24.7	29-27.4	31-29.4	34-32.4	38-36.4
STEEL Cl.8		B	B Z	B	B	B	B	B
	HOT DIP GALV		G		G			
STAINLESS STEEL	A2 (G304)/ A4 (G316)		4					

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON NUTS FINE THREADS DIN 934 LEFT HAND



DIAMETER		M5	M6	M7	M8	M10
Pitch		0.9	.75		1.00	1.0 1.25
A/Flat		8	10	11	13	17
HGT max-min		4/3.7	5.0/4.7	5.5/4.2	6.5/6.14	8/7.64
STEEL Cl.8					B	B B
STAINLESS STEEL	A2 (G304) / A4 (G316)					
BRASS						

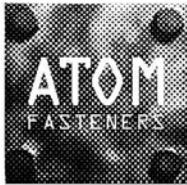
DIAMETER		M12	M14	M16
Pitch		1.0 1.25 1.5	1.25 1.5	1.0 1.5
A/Flat		19	22	24
HGT max-min		10/9.64	11/10.3	13/12.3
STEEL Cl.8		B	B	B
STAINLESS STEEL	A2 (G304) / A4 (G316)			

DIAMETER		M18	M20	M22
Pitch		1.0 1.50 2.0	1.50 2.0	1.50 2.00
A/Flat		27	30	32
HGT max-min		15/14.3	16/14.9	18-16.9
STEEL Cl.8		B	B	B
STAINLESS STEEL	A2 (G304) / A4 (G316)			

DIAMETER		M24	M27	M30	M33
Pitch		1.5 2.0	1.5 2.0	1.5 2.0	2.0
A/Flat		36	41	46	50
HGT max-min		19-17.7	22-20.7	24-22.7	26-24.7
STEEL Cl.8		B	B	B	B
STAINLESS STEEL	A2 (G304) / A4 (G316)				

DIAMETER		M36	M39	M42	M45	M48
Pitch		1.5 2.0	1.5	1.5	3.0	1.5 3.0
A/Flat		55	60	65	70	75
HGT max-min		29	31	34	36	38
STEEL Cl.8	FINISH	B	B	B	B	B

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON NUTS

IMPERIAL FULL HEX UNC UNF LEFT HAND



DIAMETER		1/4"		5/16"		3/8"		7/16"		1/2"		9/16"	
A/Flats		7/16"		1/2"		9/16"		11/16"		3/4"		7/8"	
Height		7/32"		17/64"		21.64"		3/8"		7/16"		31/64"	
THREAD		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	12	18
STEEL Gr 5		B	B	B	B	B	B	B	B	B	B	B	B
	HOT DIP GALV												
STEEL Gr 8													

DIAMETER		5/8"		3/4"		7/8"		1"		1.1/8"		
A/Flats		15/16"		1.1/8"		1.5/16"		1.1/2"		1.11/16"		
Height		35/64"		41/64"		3/4"		55/64"		31/32"		
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	NF	UNC	UNF
T.P.I.		11	18	10	16	9	14	8	12	14	7	12
STEEL Gr 5		B	B	B	B	B	B	B	B	B	B	B
	HOT DIP GALV											
STEEL Gr 8								B				

DIAMETER		1.1/4"		1.3/8"		1.1/2"		1.5/8"		1.3/4"		1.7/8"	
A/Flats		1.7/8"		2.1/16"		2.1/4"		2.7/16"		2.5/8"		2.3/4"	
Height		1.1/16"		1.11/16"		1.9/32"		1.25/64"		1.1/2"		1.3/4"	
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I.		7	12	6	12	6	12	5.1/2"	12	5	12	5	12
STEEL Gr 5		B	B	B	B	B	B	B	B	B	B		
STEEL Gr 8													

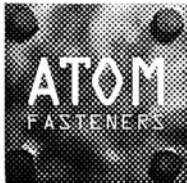
DIAMETER		2"		2.1/4"		2.1/2"		2.3/4"		3"		
A/Flats		3"		3.3/8"		3.3/4"		4.1/8"		4.1/2"		
Height		1.23/32"		1.59/64"		2.9/64"		2.23/64"		2.37/64"		
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	
T.P.I.		4.1/2	12	4.1/2	12	4	12	4	12	4	12	
STEEL Gr 5		B	B									
STEEL Gr 8												

BSF and BSW LEFT HAND HEXAGON NUTS

DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	26	20	22	18	20	16	18	14	16	12	16	12	14	11
STEEL			B		B				B	B			B	B

DIAMETER	11/16"		3/4"		7/8"		1"		1.1/8"		1.1/4"		1.1/2"	
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	14	11	12	10	11	9	10	8	9	7	9	7	8	6
STEEL			B	B	B	B	B	B	B		B		B	B

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



ATOM FASTENERS LTD

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HEXAGON NUTS 2H

A194M



DIAMETER		M10	M12	M14	M16	M18	M20
Pitch		1.5	1.75	2.0	2.0	2.0	2.5
A/Flats		17	19	22	24	27	30
Height		10	12	14	16	18	20
Steel 2H		B	B	B	B	B	B
Stainless	8M A4/316						6
Cl.10 DIN 6915		TO ORDER					

DIAMETER		M22	M24	M27	M30	M36	M39
Pitch		2.5	3.0	3.0	3.5	4.0	4.0
A/Flats		36	41	46	50	60	65
Height		22	24	27	30	35	40
Steel 2H		B	B				
Stainless	8M A4/316						

EX STOCK: B = BLACK

HEXAGON NUTS 2H

A194

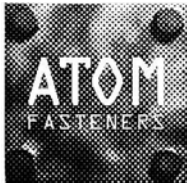


DIAMETER		1/4"	5/16"	3/8"	7/16"	1/2"	9/16"
T.P.I		20	18	16	14	13	12
A/Flats				11/16		7/8	
Height				23/64		31/64	
Steel 2H		B	B	B	B	B Y	B
Stainless	8M A4/316						

DIAMETER		5/8"	3/4"	7/8"	1"	1.1/8"	1.1/4"
T.P.I		11	10	9	8	8	8
A/Flats		1.1/16	1.1/4	1.7/16	1.5/8	1.13/16	2
Height		39/64	47/64	55/64	63/64	1.7/64	1.7/32
Steel 2H		B Y	B	B	B	B	B
Stainless	A2 304	4					

DIAMETER		1.1/2"	1.5/8"	1.3/4"	1.7/8"	2"	2.3/4"
T.P.I		8	8	8	8	8	8
A/Flats		2.3/8	2.9/16	2.3/4	2.15/16	3.1/8	4.1/4
Height		1.15/32	1.19/32	1.23/32	1.27/32	1.31/32	2.45/64
Steel 2H		B	B	B	B	B	B
Stainless	8M A4/316						

EX STOCK: B = BLACK Y= YELLOW ZINC PLATED 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON THIN NUTS COARSE THREADS DIN 439B RIGHT and LEFT HANDS



DIAMETER		M1.6	M2	M2.5	M3	M3.5	M4	M5
Pitch		0.35	0.40	0.45	0.5	0.6	0.7	0.8
A/Flats		3.2	4.0	5.0	5.5	6.0	7.0	8.0
Height		1.0	1.2	1.6	1.8	2.0	2.2	2.7
STEEL Cl.04	ZINC CLEAR		Z	Z	Z		Z	Z
STAINLESS STEEL	A2 (G304)/ A4 (G316)			4 6	4 6		4 6	4 6
ALUMINIUM	P40 OR P60							
BRASS			✓		✓	✓	✓	✓
LEFT HAND THREADS								
STEEL Cl.04	ZINC CLEAR							✓
STAINLESS STEEL	A2 (G304)/ A4 (G316)							4 6
BRASS								

DIAMETER		M6	M7	M8	M10	M12	M14	M16
Pitch		1.0	1.0	1.25	1.5	1.75	2.0	2.0
A/Flats		10		13	17	19	22	24
Height		3.2		4.0	5.0	6.0	7.0	8.5
STEEL Cl.04		Z	Z	Z Y	Z Y	Z Y	Z	Z Y
	HDGALV	G		G	G	G	G	G
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4 6		4 6	4 6	4 6	4 6	4 6
ALUMINIUM	P40 OR P60							
BRASS		✓	✓	✓	✓	✓	✓	✓
LEFT HAND THREADS								
STEEL Cl.04		Z		Z	Z	Z		Z
	HDGALV					G		G
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4		4	4	4		4
BRASS								

DIAMETER		M18	M20	M22	M24	M27	M30	M33
Pitch		2.5	2.5	2.5	3.0	3.0	3.5	3.5
A/Flats		27	30	32	36	41	46	50
Height		9	10	11	12	13.5	15	16.5
STEEL Cl.04		Z	B Z Y	Z	Z Y	Z Y	Z Y	Z
	HDGALV		G	G	G	G	G	G
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4 6	4 6	4 6	4 6	4 6	4	
BRASS			✓		✓			
LEFT HAND THREADS								
STEEL Cl.04			Z		Z	Z	Z	Z
	HDGALV		G		G		G	
STAINLESS STEEL	A2 (G304)/ A4 (G316)		4		4	4 6		4
BRASS								

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

CONTINUED



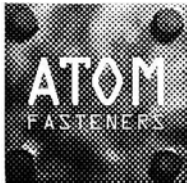
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DIAMETER		M36	M39	M42	M45	M48	M52	M56
Pitch		4.0	4.0	4.5	4.5	5.0	5.0	5.5
A/Flats		55	60	65	70	72	80	85
Height		18	19.5	21	22.5	24	26	28
STEEL CI.04		Z	Z	Z	Z	Z	B	B
	HDGALV	G						
STAINLESS STEEL	A2 (G304)/ A4 (G316)							
LEFT HAND THREADS								
STEEL CI.04								
	HD GALV	G						

DIAMETER		M60	M64	M68	M72	M76	M80	M90
Pitch		5.5						
A/Flats		90		To order				
Height		30						
STEEL CI.04	SELF.COLOUR	B						
	HOT DIP GALV							

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON THIN NUTS

METRIC FINE THREADS DIN 934 B

DIAMETER		M8	M10	M12	M14
Pitch		1.0	1.0 1.25	1.0 1.25 1.5	1.00 1.25 1.5
A/Flats		13	17	19	22
Height		4	5	6	7
STEEL Cl.04		Z	Z Z	Z Z Z	Z Z Z
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4 6	4 6 4 6	4 6 4 6	4 6
LEFT HAND THREADS					
STEEL Cl.04			B	Z	Z
STAINLESS STEEL	A2 (G304)/ A4 (G316)				

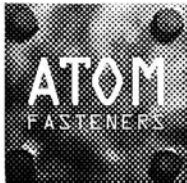
DIAMETER		M16	M18	M20
Pitch		1.0 1.5	1.0 1.50 2.0	1.00 1.50 2.0
A/Flats		24	27	30
Height		8	9	10
STEEL Cl.04		B Z	B Z B	Z B Z B
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4 6	4 6	4 6
LEFT HAND THREADS				
STEEL Cl.04		Z	Z Z	Z
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4	4	4

DIAMETER		M22	M24	M27	M30
Pitch		1.0 1.5 2.0	1.50 2.0	1.5 2.0	1.5 2.0
A/Flats		32	36	41	46
Height		11	12	13.5	15
STEEL Cl.04		B Z B	B B Z	Z Z	Z B Z
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4 6	4 6 4 6	4	4 4
LEFT HAND THREADS					
STEEL Cl.04		B	B	Z	
STAINLESS STEEL	A2 (G304)/ A4 (G316)			4 4	4

DIAMETER		M33	M36	M39	M42
Pitch		1.5 2.0	1.5 3.0	1.5 2.0 3.0	1.5
A/Flats		50	55	60	65
Height		16.5	18	19.5	21
STEEL Cl.04		B B	Z Z	B B B	B
STAINLESS STEEL	A2 (G304)/ A4 (G316)				
LEFT HAND THREADS					
STEEL Cl.04					
STAINLESS STEEL	A2 (G304)/ A4 (G316)		4		

DIAMETER		M45	M48	M52
Pitch		1.5 2.0 3.0	1.5 2.0 3.0	1.5
A/Flats		70	75	80
Height		22.5	24	26
STEEL Cl.04		B B B	B B B	

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON THIN (JAM) NUTS IMPERIAL



DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
A/Flats	7/16"		1/2"		9/16"		11/16"		3/4"		7/8"		15/16"	
Height	5/32"		3/16"		7/32"		1/4"		5/16"		5/16"		3/8"	
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	12	18	11	18
STEEL Gr 2											B			
STEEL Gr 5	B Z	B Y Z	B Z	B Y Z	B Z	B Y Z	B Z	B Y Z	B Z	B Y Z	Z	B Z	B Z	B Y Z
STEEL Gr 8														
STEEL LEFT HAND		B		B		B		B		B Z				B
BRASS				✓										
STAINLESS STEEL														

DIAMETER	3/4"		7/8"		1"		1.1/8"		1.1/4"		1.3/8"		
A/Flats	1.1/8"		1.15/16"		1.1/2"		1.11/16"		1.7/8"		2.1/16"		
Height	27/64"		31/64"		35/64"		39/64"		23/32"		25/32"		
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
STEEL Gr 2			G			B				B			
STEEL Gr 5	B Z	B Y Z	B Z	B	B Z		B	B	Z	B	B		
STEEL Gr 8		B											
STEEL LEFT HAND		B				B							

DIAMETER	1.1/2"		1.5/8"		1.3/4"		1.7/8"		2"		2.1/4"		2.1/2"	
A/Flats	2.1/4"		2.7/16"		2.5/8"		2.3/4"		3"		3.3/8"		3.3/4"	
Height	2.1/4		29/32		31/32		1.1/32		1.3/32		1.13/64		1.29/64	
THREAD	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I.	6	12	5.1/2	12	5	12	5	12	4.1/2	12	4.1/2	12	4	12
STEEL Gr 2														
STEEL Gr 5	B													

BSF and BSW LEFT HAND HEXAGON NUTS

DIAMETER	3/16"		1/4"		5/16"		3/8"		7/16"		1/2"		9/16"	
A/Flats max	.324		.445		.525		.600		.710		.820"		.920"	
Height max			.185		.210		.260		.275		.300		.330	
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	32	24	26	20	22	18	20	16	18	14	16	12	16	12
STEEL Mild Steel	Z								B		B	Z		
BRASS							✓					✓		

DIAMETER	5/8"		3/4"		7/8"		1"		1.1/8"		1.1/4"		1.1/2"	
A/Flats	1.010		1.200		1.300		1.480		1.670		1.860		2.220	
Height	.410		.490		.550		.630		.720		.810		.980	
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	14	11	12	10	11	9	10	8	9	7	9	7	8	6
STEEL Mild Steel	B			G	B	G						B		
BRASS		✓												



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HEXAGON DEEP METRIC THREADS DIN



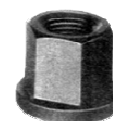
DIAMETER		M6	M8	M10		M12		
Pitch		1.0	1.25	1.25	1.5	1.25	1.50	1.75
A/Flats			13	16	16/17	18	18	18/19
HGT			12	15	15	18	18	18
STEEL Mild Steel	SELF.COLOUR	✓	✓	✓	✓	✓	✓	✓
STEEL CL. 10	SELF.COLOUR		✓		✓		✓	✓
STAINLESS STEEL	A2 (G304) or A1		✓		✓			✓
	A4 (G316)							✓
BRASS MANIFOLD			✓		✓			

DIAMETER		M14		M16		M18		
Pitch		1.5	2.0	1.5	2.0	1.5	2.0	2.5
A/Flats		22	21	24	24	27	27	27
HGT		21	21	24	24	27	27	27
STEEL Mild Steel	SELF.COLOUR	✓	✓	✓	✓	✓	✓	✓
STEEL CL. 10	SELF.COLOUR			✓	✓			
STAINLESS STEEL	A2 (G304) or A1				✓			
	A4 (G316)				✓			
BRASS								

DIAMETER		M20			M22		M24		
Pitch		1.5	2.0	2.5	1.5	2.5	1.5	2.0	3.0
A/Flats		30	30	30	32	32	36	36	36
HGT		28/30	28/30	28/30	33	33	36	34	36
STEEL Mild Steel	SELF.COLOUR	✓	✓	✓	✓	✓	✓	✓	✓
STEEL CL. 10	SELF.COLOUR		✓	✓					✓
STAINLESS STEEL	A2 (G304)			✓					✓
	A4 (G316)								

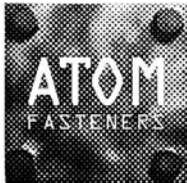
EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

HEXAGON COLLAR NUTS DIN 6331 METRIC THREADS



DIAMETER		M6	M8	M10	M12	M16	M20	M24
Pitch		1.0	1.25	1.5	1.75	2.0	2.5	3.0
A/Flats		10	13	16	18	24	30	36
Height		9	12	15	18	24	30	36
STEEL CL. 10	SELF.COLOUR		✓	✓	✓	✓	✓	✓

EX STOCK: = ✓



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HEXAGON DEEP (THICK) NUTS IMPERIAL



DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
A/Flats	7/16"		1/2"		9/16"		5/8"		3/4"		7/8"		15/16"	
Height					17/32		39/64		11/16		49/64		27/32	
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	12	18	11	18
STEEL Gr 2				B Z					B Z				B	
STEEL Gr 5				B		B		B		B		B		B
STEEL Gr 8										B		B		B Y
BRASS														
STAINLESS STEEL														

DIAMETER	3/4"		7/8"		1"		1.1/8"		1.1/4"		1.3/8"		
A/Flats	1.1/8"		1.15/16"		1.1/2"		1.5/8"		1.13/16"				
Height	1		1.5/32		1.5/16		1.15/32		1.5/8				
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
STEEL Gr 2					B	B	B		B		B		
STEEL Gr 5		B		B				B		B			
STEEL Gr 8		B		B			B Y	B		B			

DIAMETER	1.1/2"						1.1/8"					
A/Flats	2.3/16"						HEAVY					
Height	2						1.15/32					
THREAD	UNC	UNF					UNC	UNF				
T.P.I.	6	12						12				
STEEL Gr 2												
STEEL Gr 8		B						B				

BSF and BSW DEEP HEXAGON NUTS

DIAMETER	3/16"		1/4"		5/16"		3/8"		7/16"		1/2"		9/16"	
A/Flats max	.324		.445		.525		.600		.710		.820"		.920"	
Height max														
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	32	24	26	20	22	18	20	16	18	14	16	12	16	12
STEEL Mild Steel				B		B		B				B Z		
BRASS														

DIAMETER	5/8"		3/4"		7/8"		1"		1.1/8"		1.1/4"		1.1/2"	
A/Flats	1.010		1.200		1.300		1.480		1.670		1.860		2.220	
Height														
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	14	11	12	10	11	9	10	8	9	7	9	7	8	6
STEEL Mild Steel		B		B		B		B		B		B		
BRASS														

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON ROD COUPLERS

METRIC THREADS



DIAMETER		M5	M6		M8		M10	
Pitch		0.8	1.0	1.0	1.25	1.25	1.50	1.50
A/Flats		8	10	10	13	13	17	16/17
Length		15	18	30	24	40	30	40
STEEL Mild Steel	ZINC CLEAR	✓	✓	✓	✓	✓	✓	✓
	HD GALV Cl.4/Cl.8						✓	✓✓
STEEL Cl.10	ZINC CLEAR		✓		✓		✓	
STAINLESS STEEL	A2 (G304)						✓	
	A4 (G316)	✓	✓		✓		✓	
BRASS		✓	✓		✓		✓	

DIAMETER		M12			M14	M16		
Pitch		1.75	1.75	1.75	2.0	2.0	2.0	2.0
A/Flats		17	16	17	22	24	24	20
Length		36	40	40	42	48	50	48
STEEL Mild Steel	ZINC CLEAR	✓		✓	✓	✓		✓
	ZINC YELLOW			✓		✓		
	HD GALV Cl.4/Cl.8	✓	✓	✓		✓	✓	
STEEL Cl.10	ZINC CLEAR	✓			✓	✓		
STAINLESS STEEL	A2 (G304)	✓				✓		
	A4 (G316)	✓						
BRASS		✓						

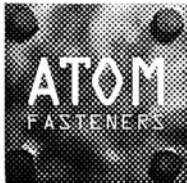
DIAMETER		M18	M20		M22	M24		M27
Pitch		2.5	2.5	2.5	2.5	3.0	3.0	2.5
A/Flats		27	16	17	32	36	36	41
Length		54	50	60	66	50	72	81
STEEL Mild Steel	ZINC CLEAR		✓	✓			✓	✓
	ZINC YELLOW		✓					
	HD GALV Cl.4/Cl.8		✓	✓		✓	✓	
STEEL Cl.10	ZINC CLEAR	✓		✓			✓	
STAINLESS STEEL	A2 (G304)							
	A4 (G316)							
BRASS								

DIAMETER		M30		M36		M42	M48	
Pitch		3.5	3.5	4.0	4.0	4.5	5.0	
A/Flats		46	46	55	55	65	75	
Length			90	90	108	125	144	
STEEL Mild Steel	ZINC CLEAR							
	HD GALV							
STEEL Cl.10	ZINC CLEAR		✓					

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

IMPERIAL ROD COUPLERS

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HEXAGON NYLON INSERT LOCKNUTS COARSE THREADS DIN 985



DIAMETER		M2.5	M3	M3.5	M4	M5	M6	M7
Pitch		0.45	0.5	0.6	0.7	0.7	1.0	1.0
A/Flats		5	5.5	6	7	8	10	11
HGT		3.5	4	4.5	5	5	6	7.5
STEEL CI.5/6		Z	Z		Z	Z	R Z	Z
STEEL CI.8						Z	Y Z	
STEEL CI.10						Z	Y Z	
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4	4 6		4 6	4 6	4 6	
LEFT HAND THREADS								
STEEL CI.8 DIN 955							Z	

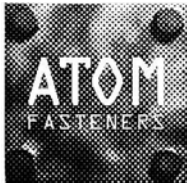
NB M2 & M3.5 to order

DIAMETER		M8	M10	M12	M14	M16	M18	M20
Pitch		1.25	1.5	1.75	2.0	2.0	2.5	2.5
A/Flats		13	17	19	22	24	27	30
HGT		8	10	12	14	16	18.5	20
STEEL CI.5		R Z	R Z	R Z	Z	Z	Z	Z
	HOT DIPPED GALV	G	G	G		G		G
STEEL CI.8		Y Z	Y Z	Y Z	Y Z	Y Z	Y Z	Y Z
STEEL CI.10		Y Z	Y Z	Y Z	Y Z	Y Z	Y Z	Y Z
STAINLESS STEEL	A2 (G304)/ A4 (G316)	4 6	4 6	4 6	4 6	4 6	6	4 6
LEFT HAND THREADS								
STEEL CI.8 DIN 955		Z	Z	Z		Z		

DIAMETER		M22	M24	M27	M30	M33	M36	M39
Pitch		2.5	3.0	3.0	3.5	3.5	4.0	4.0
A/Flats		32	36	41	46	50	55	60
HGT		22	24	27	30	33	36	39
STEEL CI.5		Z	Z	Z	Z	Z	Z	Z
	HOT DIPPED GALV		G		G			
STEEL CI.8		Z	Y Z	Y	Y Z			
STEEL CI.10		Z	Y Z	Y	Y			
STAINLESS STEEL	A2 (G304)/ A4 (G316)		6	6	6			
LEFT HAND THREADS								
STEEL CI.8 DIN 955								

DIAMETER		M42	M45	M48	M52	M56	M60	M64
Pitch		4.5	4.5	5	5	5.5	5.5	6
A/Flats		65	70	75	80	85	90	95
HGT		42	45	48	52	56	60	64
STEEL CI.5/6/8		Z	Z	Z	Z	Z	Z	Z
STEEL CI.8								

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON NYLON INSERT LOCKNUTS FINE THREADS DIN 985



DIAMETER		M4	M5	M6	M8	M10		M12		
Pitch		0.75	0.9	0.75	1.0	1.0	1.25	1.0	1.25	1.5
A/Flats		7	8	10	13	17		19		
Height		5	5	6	8	10		12		
STEEL Cl.5/6					Z	Z	Z	Z	Z	Z
STEEL Cl.8					Y	Y	Y		Y	Y
STEEL Cl.10					Y	Y				Y

DIAMETER		M14	M16		M18				M20	
Pitch		1.5	1.0	1.5	1.0	1.25	1.5	2.0	1.5	2.0
A/Flats		22	24		27				30	
Height		14	16		18.5				20	
STEEL Cl. 5/6	FINISH	Z		Z			Z		Z	Z
STEEL Cl. 8	FINISH	Y		Y					Y	
STEEL Cl.10	FINISH	Y		Y			Y		Y	Y

DIAMETER		M22	M24		M27		M30		M33	
Pitch		1.5	1.5	2.0	1.5	2.0	1.5	2.0	1.5	2.0
A/Flats		32	36		41		46		50	
Height		22	24		27		30		33	
STEEL Cl. 5/6	FINISH	Z	Z	Z	Z	Z	Z	Z	Z	Z
STEEL Cl. 8	FINISH			Y						
STEEL Cl.10	FINISH			Y						

DIAMETER		M36		M39	M42		M45		M48	
Pitch		1.5	3.0	3.0	1.5	3.0	1.5	3.0	1.5	3.0
A/Flats		55		60	65		70		75	
Height		36		39	42		45		48	
STEEL Cl.5/8	FINISH	Z	Z	Z	Z	Z		Z	Z	Z

N.B Check grades with sales

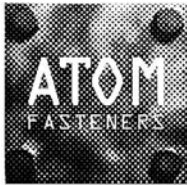
HEXAGON NYLON INSERT LOCKNUTS COARSE THREADS DIN 982/ISO 7040 (HIGH TYPE)



DIAMETER		M5	M6	M8	M10	M12	M14	M16
Pitch		0.6	1.0	1.25	1.5	1.75	2.0	2.0
A/Flats		8	10	13	17	19	22	24
Height		6.3	8	9.5	11.5	14	16	18
STEEL Cl.8		Z	Z	Z	Z	Z	Z	Z
STAINLESS STEEL	A4 (G316)	6	6	6	6	6	6	6

DIAMETER		M18	M20	M22	M24			
Pitch		2.5	2.5	2.5	3.0			
A/Flats		27	30	32	36			
Height		20	22	25	28			
STEEL Cl.8	FINISH	Z	Z	Z	Z			
STAINLESS STEEL	A4 (G316)	6	6	6	6			

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON NYLON INSERT LOCK NUTS IMPERIAL N.E. SERIES LIGHT STYLE UNC/UNF N.M.SERIES UNIFIED THREADS



DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
A/Flats	7/16"		1/2"		9/16"		5/8"		3/4"		7/8"		15/16"	
Height max	0.328"		0.359"		0.468"		0.468"		0.609"		0.656"		0.765"	
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	12	18	11	18
STEEL Gr 2/A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
STEEL Gr 5														
STEEL Gr 8/C	Y	Y Z	Y	Y Z	Y	Y Z		B Y Z	Y Z	Y Z	Y	Y Z	Y Z	Y Z
STAINLESS STEEL	4 6	4	4 6	4	4 6	4	4 6	4	4 6	4 6			4 6	4 6

DIAMETER	3/4"		7/8"		1"		1.1/8"		1.1/4"		1.3/8"		
A/Flats	1.1/8"		1.15/16"		1.7/16"		1.5/8"		1.13/16"		2"		
Height max	0.890"		0.999"		1.078"		1.203"		1.422"		1.609"		
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
STEEL Gr 2	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
STEEL Gr 5													
STEEL Gr 8/C	Y Z	Y Z	Y Z	Y Z	Y Z	Z	Y Z	Y	Y	Y	Y	Y	Y
STAINLESS STEEL	4 6	4 6	4	4	4	4	4						

DIAMETER	1.1/2"		1.5/8"		1.3/4"		1.7/8"		2"		2.1/4"		2.1/2"	
A/Flats	2.3/16"													
Height max	1.640"													
THREAD	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I.	6	12	5.1/2	12	5	12	5	12	4.1/2	12	4.1/2	12	4	12
STEEL Gr 2	Z	Z			Z	Z			Z	Z				
STEEL Gr 8	Y	Y											B	B
STAINLESS STEEL														

DIAMETER	#2		#3		#4		#5		#6		#8		#10	
THREAD	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF
T.P.I.	56	64	48	56	40	48	40	44	32	40	32	36	24	32
STEEL MILD	Z		Z		Z		Z		Z		Z		Z	Z
STAINLESS STEEL	4		4		4		4		4		4		4 6	

DIAMETER	3/16"		1/4"		5/16"		3/8"		7/16"		1/2"		9/16"	
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	32	24	26	20	22	18	20	16	18	14	16	12	16	12
TYPE			Z		Z		Z		Z		Z	Z 4 6		

DIAMETER	5/8"		3/4"		7/8"		1"		1.1/8"		1.1/4"		1.1/2"	
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	14	11	12	10	11	9	10	8	9	7	9	7	8	6
TYPE	Z		Z				Z		Z					

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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HEXAGON NYLON THIN LOCK NUTS

IMPERIAL N.T.E SERIES THIN LIGHT (JAM)



DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
A/Flats	7/16"		1/2"		9/16"		5/8"		3/4"		7/8"		15/16"	
Height	0.218"		0.265"		0.281"		0.328"		0.328"		0.374"		0.406"	
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	12	18	11	18
STEEL	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

DIAMETER	3/4"		7/8"		1"			1.1/8"		1.1/4"		1.3/8"		
A/Flats	1.1/16"		1.1/4"		1.7/16"			1.5/8"		1.13/16"		2"		
Height max	0.421"		0.484"		0.578"			0.672"		0.765"		0.821"		
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	
STEEL	Y Z	Y Z	Z	Y	Z			Z	Z	Z	Z	Z	Z	

DIAMETER	1.1/2"											
A/Flats	2.3/16"											
Height max	0.828"											
THREAD	UNC	UNF										
T.P.I.	6	12										
STEEL	Z	Z										

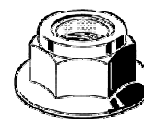
EX STOCK: Z= CLEAR ZINC PLATED Y = ZINC YELLOW



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FLANGE NYLON INSERT LOCKNUTS COARSE THREADS DIN 6926 ISO 7043



DIAMETER		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	18	24	
HGT		7.1	9.1	11.1	13.5	16.1	20.3	
Flange		11.8	14.2	17.9	21.8	26	34.5	
STEEL Cl.8		Z	Z	Z	Z	Z	Z	

EX STOCK: Z= CLEAR ZINC PLATED

HEXAGON PREVAILING TORQUE LOCK NUT (Conelock) DIN 980 V COARSE



DIAMETER		M5	M6	M8	M10	M12	M14	M16
Pitch		0.8	1.0	1.25	1.5	1.75	2.0	2.0
A/Flats		8	10	13	17	19	22	24
Hgt. max		5.1	6.0	8.0	10	12	14	16
STEEL Cl.8	ZINC CLEAR & Wax	✓	✓				✓	
	ZINC YELLOW/Wax							
STEEL Cl.10	ZINC CLEAR & Wax		✓	✓	✓	✓	✓	✓
	ZINC YELLOW/Wax				✓			

DIAMETER		M18	M20	M22	M24	M27	M30	M33
Pitch		2.5	2.5	2.5	3.0	3.0	3.5	3.5
A/Flats		27	30	32	36	41	46	50
Hgt. max		18	20	22	24	27	30	33
STEEL Cl.8	ZINC CLEAR & Wax				✓			
	ZINC YELLOW/Wax							
STEEL Cl.10	ZINC CLEAR & Wax	✓	✓		✓		✓	
	ZINC YELLOW/Wax							

DIAMETER		M36	M39	M42	M45	M48		
Pitch		4.0	4.0	4.5	4.5	5.0		
A/Flats		55	60					
Hgt. max		36	39					
STEEL Cl.10	ZINC CLEAR & Wax	✓						
	ZINC YELLOW/Wax							

✓ = STOCK ITEMS Other sizes available to order



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HEXAGON PREVAILING TORQUE LOCK NUT (Conelock) DIN 980 V METRIC FINE



DIAMETER		M8	M10		M12		M14	M16
Pitch		1.0	1.0	1.25	1.25	1.5	1.5	1.5
A/Flats		13	17		19		22	24
Hgt.max		8	10		12		14	16
STEEL Cl.8	ZINC CLEAR & Wax	✓	✓	✓	✓	✓	✓	✓

STEEL Cl.10	ZINC CLEAR & Wax							
DIAMETER		M18	M20	M22	M24		M30	M36
Pitch		1.5	1.5	1.5	1.5	2.0	3.0	4.0
A/Flats		27	30	32	36	36	46	55
Hgt. Max		18	20	22	24	24	30	36
STEEL Cl.8	ZINC CLEAR & Wax	✓	✓		✓	✓		
STEEL Cl.10	ZINC CLEAR & Wax							

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HEXAGON PREVAILING TORQUE LOCK NUT (Conelock) IMPERIAL IFI-100/107

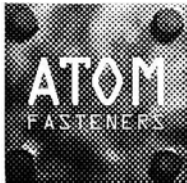


DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
A/Flats	7/16"		1/2"		9/16"		11/16"		3/4"		7/8"		15/16"	
Height max	0.288"		0.366"		0.415"		0.493"		0.573"		0.621"		0.731"	
THREAD	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I.	20	28	18	24	16	24	14	20	13	20	12	18	11	18
STEEL Gr C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

DIAMETER	3/4"		7/8"		1"			1.1/8"		1.1/4"		1.3/8"		
A/Flats	1.1/8"		1.5/16"		1.1/2"			1.11/16"		1.7/8"		2.1/16"		
Height max	0.872"		0.922"		1.018"			1.176"		1.272"		1.399"		
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	
STEEL Gr C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

DIAMETER	1.1/2"		1.3/4"		2"							
A/Flats	2.1/4"		2.5/8"		3"							
Height Max	1.526"											
THREAD	UNC	UNF	UNC	UNF	UNC	UNF						
T.P.I.	6	12		12	4.1/2	12						
STEEL Gr C	✓	✓										

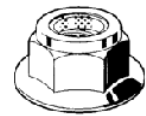
EX STOCK ✓ ZINC CLEAR & Wax



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HEXAGON PREVAILING TORQUE LOCK NUT WITH FLANGE METRIC FINE DIN 6927

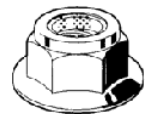


DIAMETER		M8	M10		M12		M14	M16
Pitch		1.0	1.0	1.25	1.25	1.5	1.5	1.5
A/Flats		13	17		19		22	24
Hgt.max		9.4	11.4		13.8		15.9	18.3
STEEL Cl.10	FINISH		Z		Z		Y	Y

DIAMETER		M18	M20	M22	M24		M30	M36
Pitch		1.5	1.5	1.5	1.5	2.0	3.0	4.0
A/Flats		27	30	32	36	36	46	55
Hgt. Max			22.4		30			
STEEL Cl.10	FINISH							

EX STOCK: Z= CLEAR ZINC PLATED

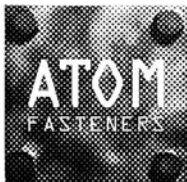
HEXAGON PREVAILING TORQUE LOCK NUT WITH FLANGE IMPERIAL GRADE G IFI 100/107



DIAMETER		1/4"		5/16"		3/8"		7/16"		1/2"		9/16"	
A/Flats		7/16"		1/2"		9/16"		11/16"		3/4"			
Thickness Max		0.300		0.365		0.425		0.495		0.555			
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I.		20	28	18	24	16	24	14	20	30	20	12	18
STEEL Gr G	SELF COLOUR	✓		✓		✓	✓		✓	✓	✓		
	ZINC yellow or clear	ZY		ZY		ZC		ZY		ZY			

DIAMETER		5/8"		3/4"		7/8"		1"		1.1/8"		
A/Flats		15/16"		1.1/8"		1.15/16"		1.1/2"				
Thickness Max		0.690		0.825		0.787		0.900				
THREAD		UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	NF	UNC	UNF
T.P.I.		11	18	10	16	9	14	8	12	14	7	12
STEEL Gr G	SELF COLOUR	✓	✓	✓	✓	✓	✓	✓		✓		

EX STOCK: = ✓



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HEXAGON SLOTTED NUTS DIN 935 CASTLE and SLOTTED



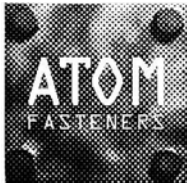
DIAMETER		M5	M6	M7	M8	M10	M12	M14
Pitch		0.8	1.0	1.0	1.25	1.5	1.75	2.0
A/Flats			10		13	17	19	22
Height O/A					9.5	12	15	16
Depth below Slot					6.5	8	10	11
STEEL Cl. 4/6	CASTLE				Z		B Z	B Z
	SLOTTED	B	Z	B	Z	Z	B Z	
STAINLESS STEEL	CASTLE	4	4		4	4		
	SLOTTED						4	
BRASS								

DIAMETER		M16	M18	M20	M22	M24	M27	M30
Pitch		2.0	2.5	2.5	2.5	3.0	3.0	3.5
A/Flats		24	27	30	32	36	41	46
Height O/A		19	21	22	26	17	30	33
Depth below Slot		13	15	16	18	19	22	24
STEEL Cl.4	CASTLE	B Z	B	B Z	B Z	B Z	B Z	B Z
	SLOTTED	B		B				
STAINLESS STEEL	CASTLE							
	SLOTTED	6		6				
BRASS								

DIAMETER		M33	M36	M39	M42	M45	M48	M52
Pitch		3.5	4.0	4.0	4.5	4.5	5.0	5.0
A/Flats		50	55	60	65	70	72	80
Height O/A		35	38	40	46	48	50	54
Slot width min.		7	7	7	9	9	9	9
Depth below Slot		26	29	31	34	36	38	38
STEEL Cl.4	CASTLE	B Z	B Z G	B G	B	B	B	B
	SLOTTED							

DIAMETER		M56	M60	M64	M68	M72	M76	M80
Pitch		5.5	5.5	6.0	6	6	6	6
A/Flats		85	90	95	100	105	110	115
Height O/A		57	63	66	69	73	76	79
Slot width min		9	11	11	11	11	11	11
Depth below Slot		45	48	61	54	58	61	64
STEEL Cl.4	CASTLE	B	B	B				
	SLOTTED							

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



ATOM FASTENERS LTD

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HEXAGON NUTS CASTLE and SLOTTED FINE THREADS DIN 935-1



DIAMETER		M8	M10		M12		M14	M16
Pitch		1.00	1.0	1.25	1.25	1.50	1.50	1.50
A/Flat		13	17		19		22	24
HGT max		9	12		15		16	19
Depth below slot		6.5	8		10		11	13
Slot width		2.5	2.8		3.5		3.5	4.5
STEEL CI.8	CASTLE				B	B	B	B
	SLOTTED	B	B	B		B Z		

DIAMETER		M18	M20		M22	M24		M27
Pitch		1.50	1.50	2.0	1.50	1.50	2.0	1.50
A/Flat		27	27		34	36		41
HGT max		21	22		26	27	30	30
Depth below slot		15	16		18	19		22
Slot width		4.5	4.5		5.5	5.5	5.5	5.5
STEEL CI.4	CASTLE	B	B		B	B Z		B
	SLOTTED						B	

DIAMETER		M30		M33	M36	M39	M42	
Pitch		1.5	2.0	1.5	1.5	1.5	1.5	
A/Flats		46		50	55	60	65	
HGT max		33		35	38	40	46	
Depth below slot		24		26	29	31	34	
Slot width		7		7	7	7	9	
STEEL CI.4	CASTLE	B	B	B	B		B	

EX STOCK: B = BLACK

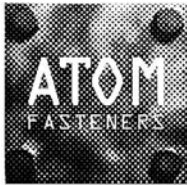
HEXAGON THIN CASTLE and THIN SLOTTED NUTS DIN 979



DIAMETER		M8	M10	M12	M14	M16	M18	M20
Pitch		1.00	1.25	1.50	1.50	1.50	1.50	1.50
A/Flats		13	16	18	21	24	27	30
HGT max		6.5	8	10	11	13	15	16
Depth below slot		3.5	4	5	6	7	9	10
Slot width		2.5	2.8	3.5	3.5	4.5	4.5	4.5
STEEL CI.04	CASTLE			B	B	B	B	B
	SLOTTED	B	B					

DIAMETER		M22	M24	M27	M30		M36	M39
Pitch		1.50	1.50	1.50	1.50	2.0	1.50	1.50
A/Flats		34	36	41	46		55	60
HGT max		18	19	22	24		29	31
Depth below slot		10	11	14	15		20	22
Slot width		5.5	5.5	5.5	7		7	7
STEEL CI.04	CASTLE	B	B	B	B	B	B	

EX STOCK: B = BLACK



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HEXAGON SLOTTED NUTS CASTLE and SLOTTED HEX IMPERIAL



DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
A/Flats	7/16"		1/2"		9/16"		11/16"		3/4"		7/8"		15/16"	
Height	7/32"		17/64"		21/64"		3/8"		7/16"		31/64"		35/64"	
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	12	18	11	18
CASTLE STEEL G5		B Z		B Z		B Z		B Z		B Z		B		B Z
SLOTTED STEEL G5	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z	B Z

DIAMETER	3/4"		7/8"		1"		1.1/8"		1.1/4"		1.3/8"		
A/Flats	1.1/8"		1.5/16"		1.1/2"		1.11/16"		1.7/8"		2.1/16"		
Height	41/64"		3/4"		55/64"		31/32"		1.1/16"		1.11/64"		
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
CASTLE STEEL G5		B Z		B Z			B Z		B		B		B
SLOTTED STEEL G5	B Z	B Y Z	B Z	B Z	B Z	B Z	B Z	B	B	B	B	B	B
SLOTTED STEEL G8	B	B	B	B	B	B			B	B			

DIAMETER	1.1/2"		1.3/4"		2"		2.1/4"		2.1/2"		2.3/4"		3"	
A/Flats	2.1/4"		2.5/8"		3"		3.3/8"		3/3/4"		4.1/8"		4.1/2"	
Height	1.9/32"		1.1/2"		1.23/32"		1.59/64"		2.9/64"		2.23/64"		2.37/64"	
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								
CASTLE STEEL G5		B		B		B								
SLOTTED STEEL G5	B Z	B Y	B Z	B Z	B Z	B								
SLOTTED STEEL G8	B	B Z												

BSF and BSW HEXAGON SLOTTED NUTS CASTLE and SLOTTED HEX

DIAMETER	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	26	20	22	18	20	16	18	14	16	12	16	12	14	11
CASTLE STEEL	B		B		B		B		B				B	
SLOTTED STEEL										B				

DIAMETER	1.1/16"		3/4"		7/8"		1"		1.1/8"		1.1/4"		1.1/2"	
THREAD	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
T.P.I.	14	11	12	10	11	9	10	8	9	7	9	7	8	6
CASTLE STEEL	B		B		B		B							
SLOTTED STEEL										B				

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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DOME NUTS COARSE THREAD DIN 1587



DIAMETER		M3	M4	M5	M6	M8	M10	M12
Pitch		0.5	0.7	0.8	1	1.25	1.50	1.75
A/Flats		5.5	7	8	10	13	17	19
Dome AF		5	6.5	7.5	9.5	12.5	16	18
HGT max		6.5	8	10	12	15	18	22
Steel	BRASS	✓	✓	✓	✓	✓	✓	✓
	BRASS NICKEL	✓	✓	✓	✓	✓	✓	✓
	ZINC CLEAR		✓					
Stainless Steel	A2 (G304) Cl. 50	✓	✓	✓	✓	✓	✓	✓
	A4 (G316)				✓	✓	✓	✓

✓ EX STOCK

DOME NUTS BSW THREAD



DIAMETER		1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	7/16"
THREAD		BSW	BSW	BSW	BSW	BSW	BSW	BSW
T.P.I		40	32	24	20	18	16	14
Steel	BRASS	✓	✓	✓	✓	✓	✓	✓
	BRASS NICKEL	✓	✓	✓	✓	✓	✓	
	ZINC CLEAR							
Stainless Steel	A2 (G304) Cl. 50							
	A4 (G316)							

REFER UNC NUTS PAGE 29

DIAMETER		1/2"	5/8"	3/4"	1"			
THREAD		BSW	BSW	BSW	BSW			
T.P.I		12	11	10	8			
Steel	BRASS	✓	✓	✓				
	BRASS NICKEL	✓	✓	✓				
	ZINC CLEAR							
Stainless Steel	A2 (G304) Cl. 50							
	A4 (G316)							

REFER UNC NUTS PAGE 29

EX STOCK: = ✓



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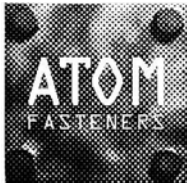
DOME NUTS UNC/NC THREAD SERIES



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	12	18	11	18
STAINLESS STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓

DIAMETER	3/4"		1"									
THREAD	UNC	UNF	UNC	UNF								
T.P.I.	10	16	8	12								
STAINLESS STEEL	✓	✓	✓	✓								

EX STOCK: = ✓



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WING NUTS METRIC AMERICAN STYLE



DIAMETER	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20
Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5
STEEL	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
STAINLESS STEEL	4 6	4 6	4 6	4 6	4 6	4 6	4 6	4	4 6	4
BRASS	✓	✓	✓	✓	✓	✓	✓			

✓ EX STOCK

WING NUTS IMPERIAL



DIAMETER	1/8"		3/16"		1/4"		5/16"		3/8"		1/2"		5/8"		3/4"	
Thread	BSW	NC	BSW	NC	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC	BSW	UNC
T.P.I	40	40	24	24	20	20	18	18	16	16	12	12	11	11	10	10
STEEL	Z		Z		Z		Z		Z		Z					Z
STAINLESS STEEL						4		4		4	✓					
BRASS			✓		✓		✓				✓		✓		✓	

TEE NUTS (DRIVE IN NUTS FOR WOOD) METRIC COARSE



DIAMETER	M3	M4	M5	M6	M8	M10	M12
Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75
STEEL	B	Z	Z	Z	Z	Z	
STAINLESS STEEL			4	4	4	4	

SQUARE NUTS FULL METRIC COARSE DIN 557



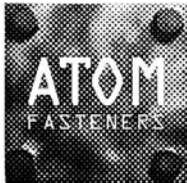
DIAMETER	M3	M4	M5	M6	M8	M10	M12
Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75
A/Flats	5.5	7	8	10	13	16	18
Thickness	2.4	3.2	4	5	6.5	8	10
STEEL CI.5		Z	Z	Z	Z	Z	Z
STAINLESS STEEL	4						

SQUARE NUTS THIN METRIC COARSE DIN 682



DIAMETER	M3	M4	M5	M6	M8	M10	M12
Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75
A/Flats	5.5	7	8	10 11	13	16	18
Thickness	1.8	2.2	2.7	3.2	4	5	6
STEEL CI.5	Z	Z	Z	Z Z	Z	Z	
STAINLESS STEEL	4	4					

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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SLOTTED ROUND NUTS (FOR HOOK SPANNERS) METRIC FINE DIN 1804 W



DIAMETER	M10	M12	M14	M16	M18	M20	M22	M24	M26	M28
Pitch	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Outside DIA.	25	28	30	32	34	36	40	42	45	50
Thickness	6	6	7	7	8	8	9	9	10	10
Number of slots	4	4	4	4	4	4	4	4	4	4
Slot depth	2	2	2	2	2.5	2.5	2.5	2.5	3	3
STEEL	B	B	B	B	B	B	B	B	B	B

EX STOCK: B = BLACK

SLOTTED ROUND NUTS (FOR HOOK SPANNERS) METRIC FINE DIN 1804 W



DIAMETER	M30	M32	M35	M38	M40	M42	M45	M48	M50	M55
Pitch	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Outside DIA.	50	52	56	58	62	62	68	75	75	80
Thickness	10	11	11	11	12	12	12	13	13	13
Number of slots	4	4	4	4	4	4	6	6	6	6
Slot depth	3	3	3	3.5	3.5	3.5	3.5	3.5	3.5	4
STEEL	B	B	B	B	B	B			B	B

EX STOCK: B = BLACK

SLOTTED ROUND NUTS (FOR HOOK SPANNERS) METRIC FINE DIN 1804 W



DIAMETER	M58	M60	M62	M65	M68	M70	M72	M75	M80	plus
Pitch	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	
Outside DIA.	90	90	95	95	100	100	110	110	115	
Thickness	13	13	14	14	14	14	14	14	16	
Number of slots	6	6	6	6	6	6	6	6	6	6
Slot depth	4	4	4	4	4	4	4-5			
STEEL	B	B	B	B	B	B	To Order			

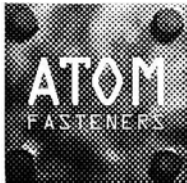
EX STOCK: B = BLACK

SLOTTED ROUND NUTS (FOR HOOK SPANNERS) METRIC FINE PREVAILING TORQUE TYPE GUK



DIAMETER	M10	M12	M15	M17	M20	M25	M30	M35	M40	M45
Pitch	0.75	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5
Outside DIA.	18	22	25	28	32	38	44	50	56	62
Thickness	7.4	7.4	7.4	7.4	9.4	10.3	10.9	11.1	12.1	12.1
STEEL	Y	Y	Y		Y	Y	Y	Y	Y	Y

EX STOCK: Y = ZINC PLATE Y YELLOW PASSIVATED



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SLOTTED ROUND NUTS (FOR HOOK SPANNERS) METRIC FINE PREVALING TORQUE TYPE GUK



DIAMETER	M50	M55	M60	M65	M70	M75	M80	M85	M90	plus
Pitch	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
Outside DIA.	68	75	80	85	92	98	105	110	120	
Thickness	12.7	13.2	13.2	14.3	14.3	15.3	16.3	17.3	17.5	
STEEL	Y		Y							

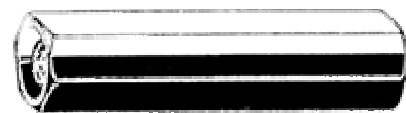
EX STOCK: Y = ZINC PLATE Y YELLOW PASSIVATED

SPACER WITH INTERNAL AND EXTERNAL THREAD COARSE STEEL CL.6



DIAMETER	M2.5	M3	M4	M5
Pitch	0.45	0.5	0.7	0.8
A/Flats	4	5.5	7	8
Thread Length	5.6	6	8	10
Length	10-25	5-50	5-50	10-50
8		Z		

SPACER WITH TWO INTERNAL COARSE STEEL CL.6



DIAMETER	M2.5	M3	M4	M5
Pitch	0.45	0.5	0.7	0.8
A/Flats	4	5.5	7	8
Thread length	7	7	9	15
Length				
10		Z		
15	Z		Z	Z
20		Z	Z	Z
25			Z	
30			Z	

Spacer with 2x internal threads has unthreaded blank in middle

EX STOCK: Z= CLEAR ZINC PLATED

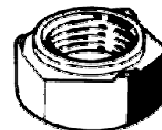


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HEXAGON WELD NUTS

DIN 929

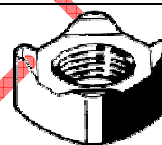


DIAMETER		M3	M4	M5	M6	M8	M10	M12
Pitch		0.5	0.7	0.8	1.0	1.25	1.5	1.75
A/Flats		7.5	9	10	11	14	17	19
HGT max		3	3.5	4	5	6.5	8	10
Hole Dia.		4.5	6	7	8	10.5	12.5	14.8
Steel		B	B	B	B	B	B	B

EX STOCK B= BLACK

SQUARE WELD NUTS

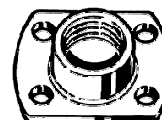
DIN 928



DIAMETER		M3	M4	M5	M6	M8	M10	M12
Pitch		0.5	0.7	0.8	1.0	1.25	1.5	1.75
A/Flats			7	9	10	14	17	19
HGT max			3.5	4.2	5	6.5	8	9.5
Hole Dia.			6	7	8	10.5	12.5	14.8
Steel			B	B	B	B	B	B

EX STOCK: B = BLACK

SPOT WELD NUTS



DIAMETER		M3	M4	M5	M6	M8	M10	
Pitch		0.5	0.7	0.8	1.0	1.25	1.5	
Width		9	9	11	14	18	18	
Length		17	17	19	22	26	26	
Height		5	6	7.5	8.5	10	10	
No. Welding Spots		2	2	2	4	4	4	
Steel			B	B	B	B	B	

EX STOCK: B = BLACK

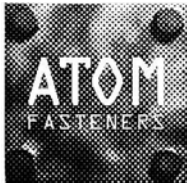
KALIE PRESS NUTS (PEM NUTS)

THIN SHEET METAL STEEL CI.6



DIAMETER		M2	M2.5	M3	M4	M5	M6	M8
Pitch		0.4	0.45	0.5	0.7	0.8	1.0	1.25
A/Flats		5.5	5.5	5.5	7	8	10	13
HGT max		3	3	3	3.2	4	5	6.5
Hole Dia.		4.5	4.5	4.5	5.5	6.5	8	10
Material thickness		1	1	1	1	1	1	2
Steel		Z	Z	Z	Z	Z	Z	Z

EX STOCK: Z= CLEAR ZINC PLATED



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PAL NUTS SLEF LOCKING

DIN 7967



DIAMETER		M5	M6	M8	M10	M12	M14	M16
Pitch		0.8	1.0	1.25	1.5	1.75	2.0	2.0
A/Flats		8	10	13	17	19	22	24
HGT max		2.5	3	3.5	4	4.5	5	5
Steel		Z	Z	Z	Z	Z		Z

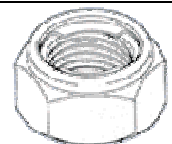
EX STOCK Z= CLEAR ZINC PLATE

DIAMETER		M18	M20	M22	M24	M27	M30	M36
Pitch		2.5	2.5	2.5	3.0	3.0	3.5	4.0
A/Flats		27	30	32	36	41	46	56
HGT max		5.5	6	6	7	7	8	9
Steel			Z	Z	Z			

EX STOCK: Z= CLEAR ZINC PLATED

MATERIAL SPRING STEEL DIN 17222

PLATELOCK NUTS (FUJI NUTS)



DIAMETER			M4	M5	M6	M8	M10	M12
Pitch			0.7	0.8	1.0	1.25	1.5	1.75
A/Flats			7	8	10	13	17	19
HGT max			3.8	4.6	5.1	7.3	8.3	10.5
Steel			Z	Z	Z	Z	Z	

EX STOCK: Z= CLEAR ZINC PLATED

TO BE DISCONTINUED

BINX NUTS



DIAMETER		M5	M6	M8	M10	M12	M16	M20
Pitch		0.8	1.0	1.25	1.5	1.75	2.0	2.5
A/Flats		8	10	13	17	19	24	30
HGT max		4.1	6.1	6.4	7.9	9.9	13.0	16.0
Steel		Y	Y	Y	Y			

EX STOCK: Z= CLEAR ZINC PLATED

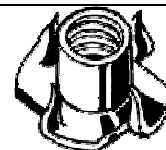
TO BE DISCONTINUED



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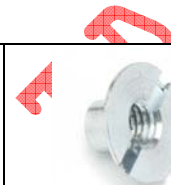
TEE NUTS



DIAMETER		M3	M4	M5	M6	M8	M10	M12
Pitch		0.5	0.7	0.8	1.0	1.25	1.5	1.75
Steel		B	Z	Z	Z	Z	Z	

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED

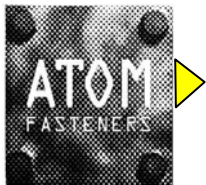
SLOTTED COUNTERSUNK NUTS



DIAMETER		M3	M4	M5	M6	M8	M10	
Pitch		0.5	0.7	0.8	1.0	1.25	1.5	
Steel		B	Z	Z	Z	Z	Z	

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED

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THREADED RODS FULLY THREADED



METRIC COARSE

DIN 975 STEEL CI 4.6
DIN 975 STEEL CI 4.6
DIN 975 STEEL CI 4.6
DIN 975 STEEL CI 8.8
DIN 975 STEEL CI 8.8
DIN 975 STEEL CI 8.8
DIN 975 STEEL CI 10.9
DIN 975 STEEL CI 12.9
HIGH TENSILE ASTM A193 B7
DIN 975 ALUMINIUM
DIN 975 BRASS
DIN 975 STAINLESS STEEL A2
DIN 975 STAINLESS STEEL A4
DIN 975 PLASTIC (NYLON)
DIN 976 STEEL CI 4.6

Self Colour FTR 1
Zinc Plated FTR 1
Hot Dipped Galvanised FTR 1
Black FTR 1
Zinc Plated FTR 1
Hot Dipped Galvanised FTR 1
Black FTR 1
Black FTR 1
Self Colour FTR 4

Zinc Plated Y/Passivated FTR 3

METRIC FINE

DIN 975 STEEL CI 4.6
DIN 975 STEEL CI 8.8
DIN 975 STEEL CI 8.8
DIN 975 STAINLESS STEEL A4

Zinc Plated FTR 1
Zinc Plated FTR 1
Zinc Plated Y/Passivated FTR 1
To Order

LEFTHAND (Coarse)

DIN 975 STEEL CI 4.6
DIN 975 STEEL CI 8.8
DIN 975 STAINLESS STEEL A2

Zinc Plated FTR 1
Zinc Plated FTR 1
FTR 1

IMPERIAL BSW

MILD STEEL
BRASS

Zinc Plated FTR 2
FTR 2

IMPERIAL UNC

HIGH TENSILE G5
ASTM A193 B7 HIGH TENSLE
(UN8 1" and over)
STAINLESS STEEL G316

Zinc Plated Y/Passivated FTR 2
Zinc Plated Y/Passivated FTR 5
To Order

IMPERIAL UNF

HIGH TENSILE G5
ASTM A193 B7 HIGH TENSLE

Zinc Plated Y/Passivated FTR 2
To Order

THREADED STUDS



DOUBLE END (Engine)

DIN 939 STEEL CI 5.6 1.25d
DIN 939 STEEL CI 8.8 1.25d
DIN 939 STAINLESS STEEL A2 1.25d
DIN 939 STAINLESS STEEL A4 1.25d

To Order
Self Colour FTR 3
FTR 3
To Order

CONTINUED

PETROCHEMICAL

PAGE



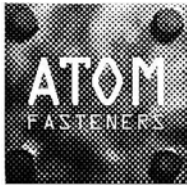
STUD BOLTS and NUTS

ASTM A193 B7 / A194 2H METRIC
ASTM A193 B7 / A194 2H IMPERIAL
ASTM A193 B7 / A194 2H IMPERIAL
Other Grades combinations to order

Self Colour
Self Colour
Zinc Plated Y/Passivated

FTR 4
FTR 5
FTR 5

CONTINUED



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FULLY THREADED ROD METRIC DIN 975

DIAMETER	COARSE	1 ST FINE	2 ND FINE	MILD STEEL								HIGH TENSILE												LEFT HAND				
				4.6 x 1000 BLK	4.6 x 1000 ZP	4.6 x 1000 HDG	4.6 x 2000 BLK	4.6 x 2000 ZP	4.6 x 2000 HDG	4.6 x 3000 ZP	4.6 x 3000 HDG	8.8 x 1000 BLK	8.8 x 1000 ZP/YZ	8.8 x 1000 HDG	8.8 x 2000 ZP/BLK	8.8 x 2000 HDG	8.8 x 3000 HDG	10.9 x 1000	12.9 x 1000	ST/STEEL A2	ST/STEEL A4	ALUMINIUM	BRASS	4.6 X 200	4.6 X 1000	8.8 x 200	8.8 x 1000	ST/STEEL A2
M 2	0.4			✓	✓															✓	✓			✓	✓			
M3	0.5				✓							✓	✓			✓					✓	✓		✓	✓			
M4	0.7				✓							✓	✓			✓					✓	✓		✓	✓			
M5	0.8				✓							✓	✓			✓			✓		✓	✓		✓	✓			
M6	1.00				✓							✓	✓			✓			✓		✓	✓		✓	✓			✓
M7	1.00				✓							✓	✓			✓					✓	✓		✓	✓			✓
M8	1.25				✓	✓						✓	✓			✓			✓		✓	✓		✓	✓			✓
	1.00				✓							✓	✓			✓					✓	✓		✓	✓			✓
M10	1.50			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓		✓	✓			✓
	1.25				✓							✓	✓			✓					✓	✓		✓	✓			✓
M12	1.75			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓			✓
	1.50				✓							✓	✓			✓					✓	✓		✓	✓			✓
M14	2.00				✓	✓		✓	✓			✓	✓			✓					✓	✓		✓	✓			✓
	1.50				✓							✓	✓			✓					✓	✓		✓	✓			✓
M16	2.00			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓			✓
	1.50				✓							✓	✓			✓					✓	✓		✓	✓			✓
M18	2.50				✓	✓		✓	✓			✓	✓			✓					✓	✓		✓	✓			✓
	1.50				✓							✓	✓			✓					✓	✓		✓	✓			✓
M20	2.50			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓			✓
	1.50				✓							✓	✓			✓					✓	✓		✓	✓			✓
M22	2.50				✓			✓	✓			✓	✓			✓					✓	✓		✓	✓			✓
	1.50				✓							✓	✓			✓					✓	✓		✓	✓			✓
M24	3.00			✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓			✓
	2.00				✓							✓	✓			✓					✓	✓		✓	✓			✓
M27	3.00			✓	✓				✓			✓	✓			✓			✓	TA		✓			✓	✓		✓
	2.00				✓							✓	✓			✓					✓	✓		✓	✓			✓
M30	3.50			✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	TA		✓			✓	✓		✓
	2.00				✓							✓	✓			✓					✓	✓		✓	✓			✓
M33	3.50			✓								✓	✓			✓					✓	✓		✓	✓			✓
	1.50				✓							✓	✓			✓					✓	✓		✓	✓			✓
M36	4.00			✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓			✓
M39	4.00			✓		✓						✓	✓			✓					✓	✓		✓	✓			✓
M42	4.50			✓		✓						✓	✓			✓					✓	✓		✓	✓			✓
M45	4.50			✓		✓						✓	✓			✓					✓	✓		✓	✓			✓
M48	5.00			✓		✓	✓					✓	✓			✓					✓	✓		✓	✓			✓
M52	5.00			✓								✓	✓			✓					✓	✓		✓	✓			✓
M56	5.50			✓								✓	✓			✓					✓	✓		✓	✓			✓
M60	5.50											✓	✓			✓					✓	✓		✓	✓			✓
M64	6.00											✓	✓			✓					✓	✓		✓	✓			✓

FINISHES: BLACK, ZINC PLATED, YELLOW ZINC PLATED, HOT DIPPED GALVANISED CHECK WITH SALES



ATOM FASTENERS LTD

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FULLY THREADED ROD IMPERIAL

HIGH TENSILE						MILD STEEL			
		Gr.5 x 24"	Gr.5 x 36"	B7 x 36"	B7 x 72"		STEEL ZP x 24"	BRASS x 24"	STAINLESS STEEL X 36"
1/8"									
5/32"									
3/16"						24-BSW	✓		
1/4"	20-UNC	✓	✓			20-BSW	✓		
	28-UNF	✓		✓					
5/16"	18-UNC	✓	✓			18-BSW	✓		
	24-UNF	✓		✓					
3/8"	16-UNC	✓	✓			16-BSW	✓		
	24-UNF	✓		✓					
7/16"	14-UNC	✓	✓			14-BSW	✓		
	20-UNF	✓							
1/2"	12-BSW		✓			12-BSW	✓	✓	✓
	13-UNC	✓	✓		✓				
	20-UNF	✓		✓					
9/16"	12-UNC	✓	✓						
	18-UNF			✓					
5/8"	11-UNC	✓	✓		✓	11-BSW	✓	✓	✓
	18-UNF	✓		✓					
3/4"	10-UNC	✓	✓		✓	10-BSW	✓	✓	
	16-UNF	✓		✓					
7/8"	9-UNC	✓	✓		✓	9-BSW	✓		
	14-UNF	✓							
1"	8-UNC/UN8	✓	✓		✓	8-BSW	✓	✓	
	12-UNF	✓							
	14-UNS/SAE	✓							
1.1/8"	7-UNC					8-UNC	✓		
	8-UN8	✓	✓		✓				
	12-UNF	✓							
1.1/4"	7-UNC	✓							
	8-UN8	✓	✓		✓				
	12-UNF	✓							
1.3/8"	8-UN8								
1.1/2"	6-UNC	✓			✓				
	8-UN8	✓	✓						
	12-UNF	✓							
1.3/4"	8-UN8				✓				
2"	4.1/2 UNC								
	8-UN8	✓	✓		✓				
	12-UNF								
2.1/4"									
2.1/2"									
3"									



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THREADED STUDS

DIN 939 STEEL CI 8.8 1.25d



	M6		M8		M10		M12		M14		M16	
		O/A		O/A		O/A		O/A		O/A		O/A
20			✓	30								
25			✓	35	✓	37	✓	40				
30	✓	37	✓	40	✓	42			✓	48		
35					✓	47	✓	57				
40			✓	50	✓	52	✓	55			✓	60
50			✓	60	✓	62	✓	65	✓	68	✓	70
55	✓	62										
60									✓	73	✓	80
65							✓	80				
70											✓	90
80											✓	100

THREADED STUDS

DIN 939 STAINLESS STEEL A2 1.25d



	M6		M8		M10		M12		M14		M16	
		O/A		O/A		O/A		O/A		O/A		O/A
20												
25												
30					✓	42						
35												
40			✓	50	✓	52	✓	55			✓	60
50											✓	70
65											✓	85
70					✓	82					✓	90

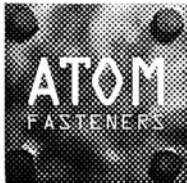
FULLY THREADED STUDS

MILD STEEL DIN 976A

ZINC YELLOW



	M3	M4	M5	M6	M8	M10
12		✓				
16						
20	✓	✓	✓	✓		
25						
30	✓	✓	✓	✓	✓	✓
35						
40	✓	✓	✓	✓	✓	
50	✓	✓	✓	✓	✓	✓
70						✓
100				✓		

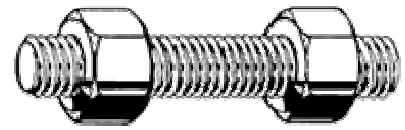


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B7 STUD BOLTS with 2 2H nuts

STUD:A193M 2H NUT:A194M



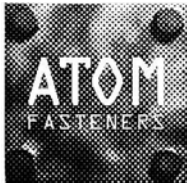
LEN/DIA	M12	M16	M18	M20	M22	M24	M30	M33
Pitch	1.75	2.0	2.0	2.5	2.5	3.0	3.50	3.5
65	B							
75		B						
85		B						
90				B				
95								
100		B		B				
110				B				
115				B				
120				B	B			
125		B				B		
130								
135				B				
140				B	B			
145								
150				B		B		
155								
160						B		
165						B	B	
170								
175								
180							B	
185								
190								
195								
200		B					B	
205								
210								
215								B
220								
225								
230								B

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

STUD BOLTS & NUTS

IMPERIAL B7 C/W 2H NUTS

Other sizes are Indented to Order

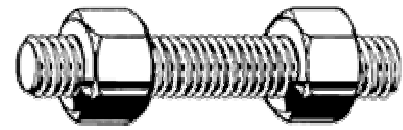


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B7 STUD BOLTS with 2 2H nuts

STUD:A193 2H NUT:A194



LEN/DIA	1/2"	5/8"	3/4"	7/8"	1"	1.1/8"	1.1/4"	1.1/2"	2"
T.P.I	13	11	10	9	8	8	8	8	8
65		Y							
75									
80		BY							
85									
90	B	BY	BY						
95									
100		B	B	B					
110		BY	BY						
115		Y		BY					
120			Y						
125		B	Y	Y					
130			B						
135		Y							
140			BY	Y					
145									
150		B	B						
155									
160		B	B			B			
165				BY					
170									
175									
180									
185									
190									
195									
200		B	Y						
205									
210									
215									
220									
225									
230									
270				B					

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)
NOTE 8 TPI OVER 1" REFER TO AS UN8

STUD BOLTS & NUTS

METRIC B7 C/W 2H NUTS

Other sizes are Indented to Order



ATOM FASTENERS LTD

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IN HEX PRODUCTS

HEXAGON SOCKET HEAD CAP SCREWS

PAGE



METRIC COARSE

DIN 912 STEEL CI 8.8	Self Colour	Sockets 1
DIN 912 STEEL CI 8.8	Zinc Plated	Sockets 1
DIN 912 STEEL CI 8.8	Zinc Plated Y/Passivated	Sockets 1
DIN 912 STEEL CI 10.9	To Order	
DIN 912 STEEL CI 12.9	Self Colour	Sockets 2
DIN 912 STEEL CI 12.9	Zinc Plated	Sockets 2
DIN 912 STAINLESS STEEL A2 CI 70		Sockets 2
DIN 912 STAINLESS STEEL A4 CI 70		Sockets 2
DIN 912 STAINLESS STEEL A4 CI 80	To Order	



METRIC COARSE (Fully Threaded)

DIN 912 STEEL CI 8.8	To Order	
DIN 912 STEEL CI 12.9	Self Colour	Sockets 5



METRIC FINE

DIN 912 STEEL CI 12.9	Self Colour	Sockets 6
DIN 912 STAINLESS STEEL A4 CI 70		Sockets 6

IMPERIAL BSW

BS 2470 STEEL CI 12.9	Self Colour	Sockets 7
BS 2470 STAINLESS STEEL A2		Sockets 7

IMPERIAL BSF

BS 2470 STEEL CI 12.9	Self Colour	Sockets 32
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IMPERIAL UNC (1960)

B18.3 STEEL CI 12.9	Self Colour	Sockets 8
B18.3 STAINLESS STEEL 304		Sockets 8
B18.3 STAINLESS STEEL 316		Sockets 8

IMPERIAL UNF (1960)

B18.3 STEEL CI 12.9	Self Colour	Sockets 8
B18.3 STAINLESS STEEL 304		Sockets 8
B18.3 STAINLESS STEEL 316		Sockets 8

IMPERIAL UNIFIED

B18.3 STEEL CI 12.9	Self Colour	Sockets 10
B18.3 STAINLESS STEEL 304		Sockets 10
B18.3 STAINLESS STEEL 316		Sockets 10

HEXAGON SOCKET LOW HEAD CAP SCREWS



METRIC COARSE

DIN 7984 STEEL CI 8.8	To Order	Sockets 11
DIN 7984 STEEL CI 10.9	Self Colour	Sockets 11
DIN 7984 STAINLESS STEEL A2 CI 70		Sockets 11
DIN 7984 STAINLESS STEEL A4 CI 70		Sockets 11

CONTINUED

HEXAGON SOCKET COUNTERSUNK HEAD SCREWS



METRIC COARSE

DIN 7991 STEEL CI 8.8
DIN 7991 STEEL CI 10.9
DIN 7991 STEEL CI 10.9
DIN 7991 STAINLESS STEEL A2 CI 70
DIN 7991 STAINLESS STEEL A4 CI 70

To Order
Self Colour
Zinc Plated

PAGE

Sockets 13
Sockets 13
Sockets 13
Sockets 13
Sockets 13

IMPERIAL BSW

BS 2470 STEEL CI 10.9
BS 2470 STAINLESS STEEL 304
BS 2470 STAINLESS STEEL 316

Self Colour

Sockets 17
Sockets 17
Sockets 17

IMPERIAL BSF

BS 2470 STEEL CI 10.9

Self Colour

Sockets 33

IMPERIAL UNC

B18.3 STEEL CI 10.9
B18.3 STAINLESS STEEL 304
B18.3 STAINLESS STEEL 316

Self Colour

Sockets 17
Sockets 17
Sockets 17

IMPERIAL UNF

B18.3 STEEL CI 10.9
B18.3 STAINLESS STEEL 304
B18.3 STAINLESS STEEL 316

Self Colour

Sockets 17
Sockets 17
Sockets 17

IMPERIAL UNIFIED

B18.3 STEEL CI 10.9
B18.3 STAINLESS STEEL 304
B18.3 STAINLESS STEEL 316

Self Colour

Sockets 17
Sockets 17
Sockets 17

HEXAGON SOCKET BUTTON HEAD SCREWS



METRIC COARSE

ISO 7380 STEEL CI 10.9
ISO 7380 STEEL CI 10.9
ISO 7380 STAINLESS STEEL A2
ISO 7380 STAINLESS STEEL A4

Self Colour
Zinc Plated

Sockets 18
Sockets 18
Sockets 18
Sockets 18

IMPERIAL BSW

BS 2470 STEEL CI 10.9

Self Colour

Sockets 20

IMPERIAL BSF

BS 2470 STEEL CI 10.9

Self Colour

Sockets 20

IMPERIAL UNC

B18.3 STEEL CI 10.9
B18.3 STAINLESS STEEL 304
B18.3 STAINLESS STEEL 316

Self Colour

Sockets 20
Sockets 20
Sockets 20

IMPERIAL UNF

B18.3 STEEL CI 10.9
B18.3 STAINLESS STEEL 304
B18.3 STAINLESS STEEL 316

Self Colour

Sockets 20
Sockets 20
Sockets 20

IMPERIAL UNIFIED

B18.3 STEEL CI 10.9
B18.3 STAINLESS STEEL 304
B18.3 STAINLESS STEEL 316

Self Colour

Sockets 21
Sockets 21
Sockets 21

CONTINUED

HEXAGON SOCKET CAP SCREWS WITH FLANGE

METRIC COARSE (Self Locking)

PAGE



RIPP STEEL CI 100 (10.9)

To Order

HEXAGON SOCKET HEAD SHOULDER SCREWS

METRIC COARSE



ISO 7379 STEEL CI 12.9
ISO 7379 STAINLESS STEEL A2

Self Colour

Sockets 27
Sockets 27

IMPERIAL BSW

BS 2470 STEEL CI 12.9

Self Colour

Sockets 29

IMPERIAL BSF

BS 2470 STEEL CI 12.9

Self Colour

Sockets 29

IMPERIAL UNC

B18.3 STEEL CI 12.9
B18.3 STAINLESS STEEL 304

Self Colour

Sockets 28
Sockets 28

IMPERIAL UNF

B18.3 STEEL CI 12.9

Self Colour

Sockets 28

HEXAGON SOCKET SET SCREWS

METRIC COARSE (Cup Point)



DIN 916 STEEL CI 45H
DIN 916 STEEL CI 45H
DIN 916 STEEL CI 45H
DIN 916 STAINLESS STEEL A2
DIN 916 STAINLESS STEEL A4

Self Colour
Zinc Plated
Zinc Plated Y/passivated

Sockets 23
Sockets 23
Sockets 23
Sockets 23
Sockets 23

METRIC FINE (Cup Point)

DIN 916 STEEL CI 45H

Self Colour

Sockets 23

METRIC COARSE (Knurled Cup Point)

DIN 916 STEEL CI 45H

Self Colour

Sockets 24

METRIC COARSE (Flat Point)



DIN 916 STEEL CI 45H
DIN 916 STAINLESS STEEL A2
DIN 916 STAINLESS STEEL A4

Self Colour

Sockets 22
Sockets 22
Sockets 22

METRIC FINE (Flat Point)

DIN 913 STEEL CI 45H

To Order

METRIC COARSE (Cone Point)



DIN 914 STEEL CI 45H
DIN 914 STAINLESS STEEL A2
DIN 914 STAINLESS STEEL A4

Self Colour

Sockets 22
Sockets 22
Sockets 22



METRIC COARSE (Dog Point)

DIN 915 STEEL CI 45H
DIN 915 STAINLESS STEEL A2
DIN 915 STAINLESS STEEL A4

Self Colour
To Order
To Order

Sockets 22

CONTINUED

HEXAGON SOCKET SET SCREWS

PAGE



METRIC COARSE (Nylon Dog Point)

DIN Thd. STEEL CI 45H

To Order



IMPERIAL BSW (Cup Point)

BS 2470 STEEL CI 45H
BS 2470 STAINLESS STEEL 304
BS 2470 STAINLESS STEEL 316

Self Colour

Sockets 22
Sockets 22
Sockets 22

IMPERIAL BSF (Cup Point)

BS 2470 STEEL CI 45H

Self Colour

Sockets 22

IMPERIAL UNC (Cup Point)

B18.3 STEEL CI 45H

Self Colour

Sockets 22

IMPERIAL UNF (Cup Point)

B18.3 STEEL CI 45H

Self Colour

Sockets 22

IMPERIAL UNC (Knurled Point)

B18.3 STEEL CI 45H

Self Colour

Sockets 25

IMPERIAL UNF (Knurled Point)

B18.3 STEEL CI 45H

Self Colour

Sockets 25

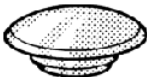
IMPERIAL UNFIED SERIES

B18.3 STEEL CI 45H

Self Colour

Sockets 26

HEXAGON SOCKET SCREW COVER



PLASTIC COVER

To suit In-hex socket product Metric

Grey

Sockets 31

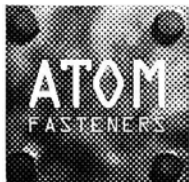
HEXAGON ALLEN KEY



ALLEN KEY

To suit In-hex socket product Metric

Sockets 31



SOCKET HEAD CAP SCREWS

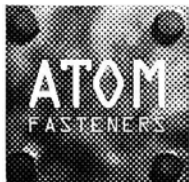
ISO 4762 DIN 912 STEEL CI. 8.8



LEN/DIA	M3	M4	M5	M6	M8	M10	M12	M14	M16
Pitch	0.5	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.0
Hd. Dia.	5.5	7.0	8.5	10	13	16	18	21	24
Hd. Hgt.	3.0	4.0	5.0	6.0	8.0	10.0	12.0	14.0	16.0
A/Key	2.5	3	4	5	6	8	10	12	14
6									
8									
10									
12			Z		Z				
16		Z	Z	Z	Z				
20				Z	B Z				
25				Z	Z	Z			
30				Z	Z	Z			
35					B				B
40				Z	B Z	Z	Z		
45									
50				Z		B	Z		B
55					Z				
60							Z		B
65									
70							B		B
75									
80									B
90									
95									
100									

LEN/DIA	M18	M20	M22	M24	M27	M30	M33	M36	M42
Pitch	2.5	2.5	2.5	3.0	3.0	3.5	3.5	4.0	4.5
Hd Dia.	27	30	33	36	40	45	50	54	63
Hd. Hgt.	18	20	22	24	27	30	33	36	42
A/Key	14	17	17	19	19	22	24	27	32
30		B							
35									
40		B							
45									
50		B							
55									
60		B							
65									
70									
75		B							
80									
90									
95									
100		B							
OTHER DIAMETERS AND LENGTHS up to 200 lg INDENTED TO ORDER									

EX STOCK B= BLACK STEEL CI.8.8 Z= CLEAR ZINC PLATE STEEL CI.8.8 **Cl10.9 to Order**



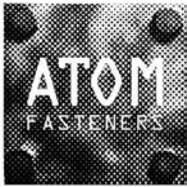
SOCKET HEAD CAP SCREWS ISO 4762

DIN 912 STEEL CI.12.9 STAINLESS A2-70 A4-70



LEN/DIA	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M7
Pitch	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.0
Hd Dia.	3.0	3.8	4.5	5.5	6.0	7.0	8.5	10	11
Hd. Hgt.	1.6	2.0	2.5	3.0	3.5	4.0	5.0	6.0	7.0
A/Key	1.5	1.5	2.0	2.5	2.5	3	4	5	5
3	B 4	B 4	B						
4	B 4	B 4	B 4	B 4					
5	B 4	B 4	B 4	B 4					
6	B 4	B 4	B 4	B 4	B	B	B 4 6		
8	B 4	B 4	B 4	B 4	B	B Z 4	B 4 6	B 4	
10	B 4	B 4	B 4	B 4	B	B Z 4 6	B Z 4 6	B Z 4 6	
12	4	B 4	B 4	B 4	B	B Z 4 6	B Z 4 6	B Z 4 6	
16		B 4	B 4	B 4 6	B	B Z 4 6	B Z 4 6	B Z 4 6	B
18						B			
20		B 4	B 4	B 4	B	B Z 4 6	B Z 4 6	B Z 4 6	B
22						B			
25		B 4	B	B 4		B Z 4	B Z 4 6	B Z 4 6	B
30		B 4		B 4		B Z 4	B Z 4 6	B Z 4 6	B
35				B 4		B 4	B 4 6	B 4 6	
40				B 4		B 4	B Z 4 6	B Z 4 6	B
45				B 4		B 4	B 4 6	B 4 6	
50				B 4		B 4	B Z 4 6	B Z 4 6	
55						B	B	B 6	
60				B 4		B 4	B 4	B 4 6	
65						B	B	B Z 4 6	
70				B 4		B 4	B 4	B 4 6	
75						B	B	B 4 6	
80				B 4		B 4	B 4	B 4 6	
85						B	B	B	
90				B 4		B 4	B 4 6	B 4 6	
95								B	
100				B 4		B 4	B 4	B 4 6	
110						B 4	B 4	B 4	
115							B		
120						B 4	B 4	B 4	
130						B 4	B 4	B 4	
140						B 4	B 4	B 4	
150						B 4	B 4	B 4	
160							B	B	
170							B	B	
180							B	B	
190							B	B	
200							B	B	
220							B	B	
240							B	B	
250								B	

B= BLACK STEEL CI.12.9 Z= ZINC STEEL 12.9 4 = STAINLESS STEEL A2-70(304) 6 = STAINLESS STEEL A4-70(316)



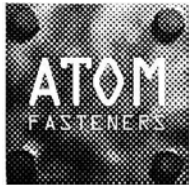
SOCKET HEAD CAP SCREWS ISO 4762

DIN 912 STEEL CI.12.9 STAINLESS A2-70 A4-70



LEN/DIA	M8	M10	M12	M14	M16	M18	M20	M22	M24
Pitch	1.25	1.5	1.75	2.0	2.0	2.5	2.5	2.5	3.0
Hd Dia.	13	18	21	24	27	30	33	36	36
Hd. Hgt.	8	10	12	14	16	18	20	22	24
A/Key	6	8	10	12	14	14	17	17	19
10	B 4 6	B							
12	B 4 6	B 4 6	B						
16	B 4 6	B 4 6	B						
20	B Z 4 6	B Y 4 6	B 4 6	B	B				
25	B Z 4 6	B Z 4 6	B Z 4 6	B	B Z				
30	B Z 4 6	B Z 4 6	B 4 6	B 6	B Z 4 6	B	B		
35	B Y 4 6	B Y Z 4 6	B Z 4 6	B 6	B 4 6	B	B	B	
40	B Y 4 6	B Z 4 6	B Z 4 6	B 6	B 4 6	B	B	B	B 4
45	B Y 4 6	B 4 6	B Z 4 6	B 6	B 4 6	B	B	B	B
50	B Y 4 6	B Z 4 6	B Z 4 6	B 6	B Z 4 6	B 4 6	B	B	B 4
55	B Y 4 6	B 4	B 4	B 6	B	B	B	B	B
60	B Y 4 6	B Z 4 6	B Z 4 6	B 6	B Z 4 6	B 6	B 6	B	B 4
65	B Y 4 6	B 4 6	B 4 6	B 6	B	B	B	B	B
70	B 4 6	B Z 4 6	B Z 4 6	B 6	B 4 6	B 6	B 6	B	B 6
75	B Z 4	B	B Z	B 6	B	B	B	B	B
80	B 4 6	B Z 4 6	B 4 6	B 6	B 4 6	B 6	B 6	B	B 6
85	B		B		B		B	B	B
90	B Z 4 6	B 4 6	B 4 6	B 6	B 4 6	B 6	B 6	B	B 6
95	B		B		B				B
100	B 4 6	B 4 6	B 4 6	B 6	B 4 6	B 6	B 6	B	B 6
110	B	B	B 4 6	B	B 4 6	B	B 6	B	B
120	B 4 6	B 4 6	B 4 6	B	B 4 6	B 4	B 6	B	B 6
130	B 4 6	B 4 6	B 4 6	B	B 4 6	B	B 6	B	B 6
140	B 4 6	B 4 6	B 4 6	B	B 4 6	B 4	B 6	B	B
150	B 4 6	B 4 6	B 4 6	B	B 4 6	B	B 6	B	B 6
160	B 4	B 4	B 4	B	B 4	B 4	B	B	B
170	B	B	B	B	B	B	B	B	B
180	B 4	B 4	B 4	B	B 4	B 4	B	B	B
190	B	B	B	B	B	B	B	B	B
200	B 4	B 4	B 4	B	B 4	B 4	B	B	B
210	B	B	B	B	B	B	B	B	B
220	B	B	B	B	B	B	B	B	B
230	B	B	B	B	B	B	B	B	B
240	B	B	B	B	B	B	B	B	B
250		B	B	B	B	B	B	B	B
260	B	B	B	B	B	B	B	B	B
270					B		B		B
280	B	B	B	B	B	B	B		B
290		B	B	B	B		B		
300	B	B	B	B	B	B	B	B	B
310/320			-/B		B/B		-/B		B/B
330/340			-/B		B/B		-/B		B/B
350/360		B/-	B/-		B/B		-/B		-/B
380/400					B/B		/B		B/B
420/450					B/B				B/B

B= BLACK STEEL CI.12.9 Z= ZINC STEEL 12.9 4 = STAINLESS STEEL A2-70(304) 6 = STAINLESS STEEL A4-70(316)



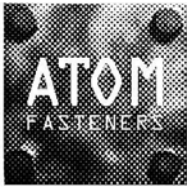
SOCKET HEAD CAP SCREWS ISO 4762 DIN 912 STEEL CI.12.9 STAINLESS A2-70 A4-70



LEN/DIA	M27	M30	M33	M36	M39	M42	M48	M56	M64
Pitch	3.0	3.5	3.5	4.0	4.0	4.5	5.0	5.5	6.0
Hd Dia.	40	45	50	54	58	63	72	84	96
Hd. Hgt.	27	300	33	36	39	42	48	56	64
A/Key	19	22	24	27	27	32	36	41	46
55		B							
60	B	B							
65		B							
70	B	B	B						
75		B							
80	B	B 4	B	B	B				
85									
90	B	B	B	B	B				
95									
100	B	B 4	B	B	B	B			
110	B	B							
120	B	B	B	B	B	B	B		
130	B	B							
140	B	B	B	B	B	B	B		
150	B	B							
160	B	B	B	B	B	B	B		
170	B	B							
180	B	B	B	B	B	B	B		
190	B	B							
200	B	B	B	B	B	B	B		
210									
220	B	B		B					
230	B								
240	B	B		B		B			
250	B					B			
260	B	B	B	B		B	B		
270									
280	B	B	B	B		B			
300	B	B		B	B	B	B		
310									
320	B	B							
330		B							
340									
350	B								
360		B		B		B			
370		B							
380		B							
390		B							
400	B	B		B					
420									
440									

B= BLACK STEEL CI.12.9 4 = STAINLESS STEEL A2-70(304) 6 = STAINLESS STEEL A4-70(316)

METRIC HEXAGON SOCKET SCREW STEEL KEYS UP TO 36mm EX STOCK



SOCKET HEAD CAP SCREWS

DIN 912 STEEL CI.10.9 STAINLESS A2-70
FULLY THREADED

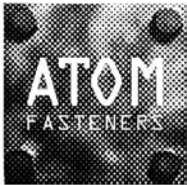


LEN/DIA	M3	M4	M5	M6	M8	M10	M12	M14	M16
Pitch	0.5	0.7	0.6	1.0	1.25	1.5	1.75	2.0	2.0
Hd. Dia.	5.5	7	8.5	10	13	16	21	24	27
Hd. Hgt.	3	4	5	6	8	10	12	14	16
A/Key	2.5	3	4	5	6	8	10	12	14
20									
25	B								
30		B	B						
35									
40		B	B	B 4	B				
45									
50		B	B	B 4	B	B			
55				B					
60				B 4	B 4	B	B		
70						B			
80				B	B	B 4	B 4		B 4
90									
100				B	B	B	B	B	B
110									B
120									
130									
140									
150									B

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	
Hd. Dia.	30	33	36	36	40	45	50	54	
Hd. Hgt.	18	20	22	24	27	30	33	36	
A/Key	14	17	17	19	19	22	24	27	
60									
65									
70									
75									
80		B							
90									
100	B	B							
110									
120									
130									
140	NEW STOCK LENTGHS ARRIVING SOON								
150									
140									
150									

EX STOCK: B= BLACK STEEL 10.9 4 = STAILLESS STEEL A2-70 (304)

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

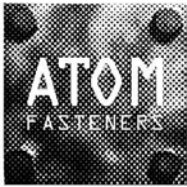


SOCKET HEAD CAP SCREWS METRIC FINE ISO 4762 DIN 912 STEEL CI.12.9 STAINLESS A4-70



LEN/DIA	M8	M10	M12	M14	M16	M18	M20	M24	M30	M36
Pitch	1.0	1.25 1.5	1.25 1.5	1.5	1.5	1.5/2.0	1.5	1.5/2.0	2.0	3.0
Hd Dia.	13	18	21	24	27	30	33	36	45	54
Hd. Hgt.	8	10	12	14	16	18	20	24	30	36
A/Key	6	8	10	12	14	14	17	19	22	27
16	B	B	B							
20	B	B	B	B	B					
25	B 6	B 6	B 6	B	B		B			
30	B	B 6	B 6	B 6	B 4	B	B			
35	B	B 6	B	B	B	B	B			
40	B	B 6	B 6	B 6	B	B	B 6	B/-	B	
45	B	B 6	B	B	B	B	B	B/B	B	
50	B	B 6	B 6	B 6	B	B	B 6	B/B	B	B/B
55			B	B	B		B	B		
60		B	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	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	B
110								B		
120					B	B	B/-	B	-/B	B
130								B		
140								B		
150								B		
160										B
200										B

EX STOCK: B= BLACK STEEL CI.12.9 6 = STAINLESS STEEL A4-70(316)
Warning: Electro-galvanising of these products may cause hydrogen embrittlement.



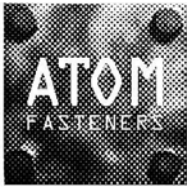
SOCKET HEAD CAP SCREWS BSW/BA STEEL CI.12.9 STAINLESS STEEL G304



	BSW THREADS					BA THREADS						
LEN/DIA	1/4"	5/16"	3/8"	7/16"	1/2"	8BA	6BA	5BA	4BA	3BA	2BA	1BA
Hd. Dia.	0.375	0.437	0.562	0.625	0.750	0.140	0.187	0.218				
A/Key	3/16"	7/32"	5/16"	5/16"	3/8"	1/16"	5/64"	3/32"	3/32"	1/8"	5/32"	5/32"
T.P.I	20	18	16	14	12	0.43mm	0.53mm	0.59mm	0.65mm	0.73mm	0.81mm	0.9mm
1/8"												
3/16"												
1/4"							B		B		B	
5/16"												
3/8"							B		B		B	
7/16"												
1/2"							B		B		B	
5/8"												
3/4"					B		B		B		B	
7/8"		B										
1"	B	B	B		B 4		B		B		B	
1.1/8"												
1.1/4"	B	B	B		B 4							
1.1/2"	B	B	B		B 4							
1.3/4"		B										
2"	B	B	B		B 4							
2.1/4"					B 4							
2.1/2"					B 4						B	
2.3/4"												
3"					B 4	OTHER DIAMETERS AND LENTGHS INDENTED TO ORDER						
3.1/2"					B 4							
4"					B 4							
4.1/2"					B 4							
5"					B 4							
5.1/2"					B							
6"					B 4							
7"												
8"	3/4 X 2"BSW & 3/4 X 8"											

EX STOCK: B= BLACK STEEL 4 = STAINLESS STEEL A2(G304)

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



SOCKET HEAD CAP SCREWS UNC/UNF

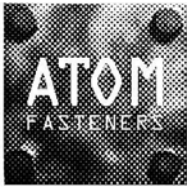
STEEL CI.12.9 STAINLESS STEEL ASME B18.3



LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
Hd. Dia. max	0.375		0.469		0.562		0.656		0.750		0.843		0.938	
Hd. Hgt. max	0.250		0.312		0.375		0.438		0.500		0.562		0.625	
A/Key	3/16"		1/4"		5/16"		3/8"		3/8"		7/16"		1/2"	
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	12	18	11	18
1/4"	B													
5/16"	B													
3/8"	B	B												
7/16"														
1/2"	B 4	B	B	B	B	B			B					
5/8"	B 4	B	B	B	B									
3/4"	B 4	B 4	B Z 4	B 4	B	B 4	B	B 4	B	B			B	
7/8"	B								B					
1"	B 4	B 4	B Z 4 6	B 4	B 4 6	B 4	B	B 4	B	B			B	B
1.1/8"														
1.1/4"	B 4	B 4	B 4 6	B 4	B 4 6	B 4	B	B 4	B 4 6	B 4			B	B
1.1/2"	B 4	B 4	B 4 6	B 4	B 4 6	B 4	B 4	B 4	B 4 6	B 4	B	B	B	B 4
1.3/4"	B 4	B 4	B 4	B 4	B 4	B 4	B 4	B 4	B 4 6	B 4			B	B
2"	B 4	B 4	B 4	B 4	B 4 6	B 4	B 4	B 4	B 4 6	B 4	B	B	B 4 6	B 4
2.1/4"	B 4	B	B 4	B	B 4	B	B 4	B	B	B		B	B	B
2.1/2"	B 4	B 4	B 4	B 4	B 4 6	B 4	B 4	B	B 4 6	B 4	B	B	B	B 4
2.3/4"	B		B 4	B	B	B	B		B	B			B	B
3"	B 4	B 4	B 4	B 4	B 4	B 4	B 4	B	B 4 6	B 4	B	B	B	B 4
3.1/4"			B 4						B					
3.1/2"	B 4	B	B 4	B	B 4	B	B	B	B 4	B 4			B	B 4
3.3/4"					B				B					
4"	B 4	B	B 4	B	B 4	B	B 4	B	B 4	B 4	B	B	B	B 4
4.1/2"	B 4		B 4	B	B	B	B		B	B			B	B
5"	B 4	B	B 4	B	B 4	B	B	B	B 4	B			B	B
5.1/2"	B	B			B	B	B		B	B			B	
6"	B 4	B	B 4		B 4	B	B	B	B 4	B			B	B
6.1/2"	B	B			B	B			B				B	
7"	B	B			B	B	B		B				B	
7.1/2"													B	
8"	B				B		B		B				B	
9"					B				B				B	
10"					B				B				B	
11"									B				B	
12"									B				B	
13"													B	
14"									B				B	
15"									B				B	
16"													B	

EX STOCK: B= BLACK STEEL 10.9 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

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



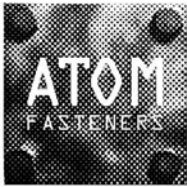
SOCKET HEAD CAP SCREWS UNC/UNF STEEL CI.12.9 STAINLESS STEEL



LEN/DIA	3/4"		7/8"		1"			1.1/8"		1.1/4"		1.1/2"	
Hd. Dia. max	1.125		1.312		1.500			1.688		1.875		2.250	
Hd. Hgt. max	0.750		0.875		1.000			1.125		1.250		1.500	
A/Key	5/8"		3/4"		3/4"			7/8"		7/8"		1"	
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNS	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	10	16	9	14	8	12	14	7	12	7	12	6	12
3/4"	B												
1"	B												
1.1/4"	B	B											
1.1/2"	B	B	B										
1.3/4"	B	B	B										
2"	B 6	B	B	B	B	B	B	B		B			
2.1/4"	B	B	B		B								
2.1/2"	B	B	B	B	B			B		B			
2.3/4"	B	B			B								
3"	B	B	B	B	B	B	B	B		B			
3.1/4"	B												
3.1/2"	B	B	B	B	B			B		B			
3.3/4"													
4"	B	B	B	B	B	B	B	B		B		B	
4.1/2"	B	B	B		B								
5"	B	B	B	B	B			B		B		B	
5.1/2"	B	B	B		B								
6"	B	B	B	B	B			B		B		B	B
6.1/2"	B				B					B			
7"	B	B	B		B			B		B		B	
7.1/2"					B								
8"	B	B	B		B			B		B		B	
9"	B		B		B			B		B		B	
10"	B		B		B			B		B		B	
11"	B		B		B							B	
12"	B		B		B			B		B		B	
13"	B				B			B				B	
14"			B		B					B		B	
15"	B		B		B			B		B		B	
16"	B		B		B			B		B		B	
17"													
18"	B		B		B					B		B	
19"													
20"	B		B		B					B		B	

EX STOCK: B= BLACK STEEL CI.12.9 4 = STAINLESS STEEL G304 6 = STAINLESS STEEL G316

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



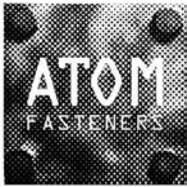
SOCKET HEAD CAP SCREWS UNIFIED STEEL CI.12.9 and STAINLESS STEEL ASME B18.3



LEN/DIA	#0		#2		#3		#4		#5		#6		#8		#10	
Hd. Dia.	0.096		0.140		0.161		0.183		0.205		0.226		0.270		0.312	
Hd. Hgt.	0.060		0.086		0.099		0.112		0.125		0.138		0.164		0.190	
A/Key			5/64"		5/64"		3/32"		3/32"		7/64"		9/64"		5/32"	
THREAD	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF
T.P.I		80	56	64	48	56	40	48	40	44	32	40	32	36	24	32
1/8"			B				B				B					
3/16"		B	B		B		B				B					
1/4"			B		B		B	B	B		B 4	B 4			B 4	B
5/16"			B				B				B	B			B	
3/8"			B		B		B	B	B		B 4	B 4			B 4	B
1/2"			B		B		B	B	B		B 4	B 4	B 4	B	B 4	B 4
5/8"			B				B		B 4		B 4	B		B	B 4	
3/4"			B				B	B	B 4		B 4	B 4	B 4	B	B 4	B 4
7/8"											B				B	B 4
1"			B				B		B		B 4	B 4	B 4	B	B 4	B 4
1.1/4"							B		B		B		B 4	B	B 4	B 4
1.1/2"							B		B		B		B 4	B	B 4	B 4
1.3/4"							B				B		B 4		B 4	B
2"							B		B		B		B 4		B 4	B
2.1/4"											B				B	
2.1/2"											B		B 4		B	B
2.3/4"															B	
3"											B				B	B
3.1/4"																
3.1/2"															B	B
3.3/4"																
4"															B	B
5"															B	
6"																

EX STOCK: B= BLACK STEEL CI.12.9 4 = STAINLESS STEEL (304) 6 = STAINLESS STEEL (316)

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



HEX SOCKET LOW HEAD CAP SCREWS

DIN 7984 STEEL CI.10.9 STAINLESS A2-70

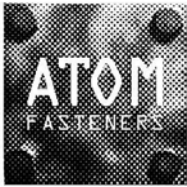


LEN/DIA	M4	M5	M6	M8	M10	M12	M16	M20	M24
Pitch	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5	2.0
THD min.	14	16	18	22	26	30	38	46	54
Hd. Dia. max	7	8.5	10	13	16	18	24	30	36
Hd. Hgt. max	2.8	3.5	4	5	6	7	9	11	13
A/Key	2.5	3	4	5	7	8	12	14	17
6									
8	B	B							
10	B 4	B 4	B 4	B 4					
12	B 4	B 4	B 4	B 4					
16	B 4	B 4	B 4	B 4	B 4				
20	B 4	B 4 6	B 4	B 4	B 4	B			
25		B	B 4	B 4	B 4	B 4			
30			B 4	B 4	B 4	B	B	B	
35			B 4	B 4	B 4	B 4	B		
40			B 4	B 4	B 4	B 4	B 4	B	
45				B	B	B	B	B	
50				B 4	B 4	B 4	B 4	B	
55							B	B	
60					B	B	B	B	B
65								B	
70					B		B	B	
80					B	B	B	B	
100							B		
120							B		

EX STOCK B= BLACK STEEL CI.12.9 4 = STAINLESS STEEL A2-70 (304) 6 = STAINLESS STEEL A4 (316)

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

M3 A2 STAINLESS STEEL AVAILABLE



ATOM FASTENERS LTD

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SOCKET LOW HEAD CAP SCREWS

IMPERIAL UNC/UNF

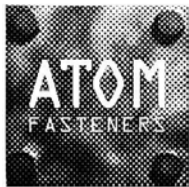
STEEL CI.12.9 STAINLESS STEEL ASME B18.3



LEN/DIA	#8	#10		1/4"	5/16"	3/8"	7/16"	1/2	5/8
Hd. Dia.max	0.270	0.312		0.375	0.437	0.562	0.625	0.750	0.875
Hd. Hgt. max	0.085	0.098		0.127	0.158	0.192	0.223	0.254	0.316
A/Key	5/64"	3/32"		1/8"	5/32"	3/16"	7/32"	1/4"	5/16
	UNC	NC	NF	UNC	UNC	UNC	UNC	UNC	UNC
T.P.I	32	24	32	20	18	16	14	13	11
1/4"	B								
3/8"	B	B							
1/2"	B	B		B	B				
5/8"	B	B		B					
3/4"	B	B		B	B	B		B	
1"		B		B	B	B		B	
1.1/4"				B	B	B		B	
1.1/2"				B	B	B		B	
1.3/4"									
2"									
2.1/2"									

EX STOCK: B= BLACK STEEL CI.12.9 4 = STAINLESS STEEL G304

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



ATOM FASTENERS LTD

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

HEX SOCKET COUNTERSUNK HEAD SCREWS ISO 10642 DIN 7991 STEEL CI.10.9 STAINLESS **A2** and **A4**

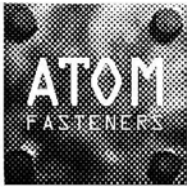


LEN/DIA	M2	M2.5	M3	M4	M5	M6	M8	M10	M12
Pitch	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5	1.75
Hd Dia.max	4.0	5.0	6.0	8.0	10.0	12.0	16.0	20.0	24.0
Hd. Hgt.	1.24	1.55	1.70	2.30	2.80	3.30	4.40	5.50	6.50
A/Key	1.27	1.50	2.0	2.5	3.0	4.0	5.0	6.0	8.0
4	B	B							
5	B	B	B						
6	B	B	B	B	B				
8	B	B	B 6	B 6	B 4	B 4			
10	B	B	B 6	B 6	B 4	B 4 6	B 4 6		
12	B	B	B 6	B 6	B Z 4 6	B 4 6	B 4 6	B	
16	B	B	B 6	B 4 6	B Z 4 6	B Z 4 6	B Z 4 6	B 4 6	B
20		B	B 6	B 4 6	B Z 4 6	B Y Z 4 6	B Z 4 6	B Z 4 6	B 4
25		B	B 4 6	B 4 6	B Z 4 6	B Y Z 4 6	B Y Z 4 6	B Z 4 6	B Z 4 6
30			B 4 6	B 4 6	B Z 4 6	B Y Z 4 6	B Y Z 4 6	B Z 4 6	B Z 4 6
35				B	B 4	B Y Z 4 6	B Z 2 4	B Z 4 6	B Z 4 6
40			B 4	B 4	B Z 4 6	B Z 4 6	B Y Z 4 6	B Z 4 6	B Z 4 6
45			B	B	B 4	B 4 6	B 4 6	B Z 4 6	B 4 6
50			B 4	B 4	B Z 4 6	B Z 4 6	B Y Z 4 6	B Z 4 6	B Z 4 6
55				B	B	B 4	B	B	B
60				B	B Z 4 6	B 4 6	B 4 6	B 4 6	B 4 6
65						B	B	B	B
70				B	B	B 4 6	B Y 4 6	B 4 6	B 4 6
75						B	B 4	B 4 6	B
80					B	B 4 6	B 4 6	B 4 6	B Z 4 6
90						B 4	B 4 6	B 4 6	B 4 6
100						B 4	B 4 6	B 4 6	B 4 6
110						B		B	B
120						B	B	B	B
130							B	B	B
140							B	B	B
150							B	B	B
160									B
180									B

EX STOCK B= BLACK STEEL CI.10.9 Z=ZINC PLATED 10.9 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

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

TO ORDER BLACK and ZINC PLATED CI. 8.8



ATOM FASTENERS LTD

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HEX SOCKET COUNTERSUNK HEAD SCREWS ISO 10642 DIN 7991 STEEL CI.10.9 STAINLESS A2 and A4

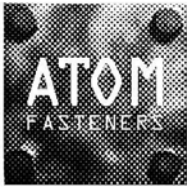


LEN/DIA	M14	M16	M18	M20	M22	M24	M27	M30	M36
Pitch	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.5	4.0
Hd Dia.max	27	30	33	36	36	39	46	53	
Hd. Hgt.	8.40	8.80	9.48	10.16	13.31	14.22	17.95	21.64	
A/Key	10	10	12	12	14	14	17	17	
20		B				Up to and Inc M20 have 90 Deg head above have a 60 Deg Head			
25	B	B 4 6							
30	B	B 4 6		B					
35	B	B							
40	B	B 4 6		B 4 6					
45	B	B		B					
50	B	B Z 4 6	B	B 4 6		B			
55	B	B				B			
60	B	B 4 6	B	B 4 6		B			
65	B			B		B			
70	B	B 4 6	B	B 4 6		B			
75	B	B		B		B			
80	B	B 4 6	B	B 4 6		B 4			
90	B	B	B	B		B			
100	B	B 4 6	B	B 4 6		B 4			
110		B	B	B					
120		B		B		B			
130		B		B		B			
140		B		B		B			
150		B		B		B			
160		B		B		B			
180		B		B		B			
200				B		B			

EX STOCK B= BLACK STEEL CI.10.9 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

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

TO ORDER BLACK and ZINC PLATED CI. 8.8



ATOM FASTENERS LTD

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

HEX SOCKET COUNTERSUNK HEAD SCREWS FULLY THREADED

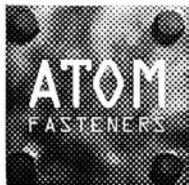
DIN 7991 (ISO 10642) STEEL CI.10.9



LEN/DIA	M5	M6	M8	M10	M12	M14	M16	M20	M24
Pitch	0.8	1.0	1.25	1.5	1.75	2.0	2.0	2.50	3.00
Hd. Dia. max	10.0	12.0	16.0	20.0	24.0	27.0	30.0	36.0	39.0
Hd. Hgt. max	3.10	3.72	4.96	6.20	7.44	8.12	8.80	10.16	14.22
A/Key	3.0	4.0	5.0	6.0	8.0	10	10	12	14
40	B								
45	B								
50	B	B	B	B					
60		B	B	B	B				
70		B	B 4	B	B				
80		B	B	B	B	B	B	B	
90		4	B	B	B	B			
100		4	B	B	B		B	B	B
110							B		
120							B	B	
130							B		
140							B		
150					B		B	B	

EX STOCK: B= BLACK STEEL CI.10.9

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



ATOM FASTENERS LTD

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

HEXAGON SOCKET COUNTERSUNK HEAD SCREWS UNC/UNF ASME B18.3 STEEL CI.10.9 STAINLESS STEEL A2

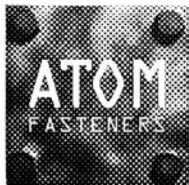


LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
Hd. Dia. min	0.476		0.589		0.704		0.755		0.857		0.963		1.065	
Hd. Hgt. max	0.162		0.198		0.234		0.234		0.251		0.288		0.324	
A/Key	5/32"		3/16"		7/32"		1/4"		5/16"		5/16"		3/8"	
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
T.P.I	20	28	18	24	16	24	14	20	13	20	12	18	11	18
3/8"	B 4													
1/2"	B 4	B	B 4		B									
5/8"	B 4	B 4	B 4	B	B	B								
3/4"	B 4	B 4	B 4	B 4	B 4	B 4	B	B	B	B				
1"	B 4	B 4	B 4	B 4	B 4	B 4	B	B	B 4	B 4			B	B
1.1/4"	B 4	B 4	B 4	B 4	B 4	B 4	B	B	B 4	B 4			B 4	B
1.1/2"	B 4	B	B 4	B 4	B 4	B 4	B	B	B 4	B 4			B 4	B
1.3/4"	B 4	B	B 4	B	B 4	B 4	B	B	B 4	B 4			B 4	B
2"	B 4	B	B 4	B 4	B 4	B 4	B	B	B 4	B 4			B 4	B
2.1/2"	B		B	B	B	B	B	B	B 4	B 4			B 4	B
3"	B		B		B	B 4	B	B	B	B			B	B
3.1/2"	B		B		B				B				B	B
4"	B		B		B				B				B	B
5"					B				B				B	
6"					B				B				B	

LEN/DIA	3/4"		7/8"		1"		1.1/8"		1.1/4"			
Hd. Dia. max	1.293		1.520		1.745		1.925		2.138			
A/Key	1/2"		9/16"		5/8"		5/8"		5/8"			
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNS	UNC	UNF	UNC	UNF	
T.P.I	10	16	9	14	8	12	14	7	12	7	12	
1.1/4"	B											
1.1/2"	B											
1.3/4"	B											
2"	B	B	B				80 to 82 DEG Head					
2.1/4"	B											
2.1/2"	B	B	B		B							
3"	B	B	B		B							
3.1/2"	B		B		B							
4"	B		B		B							
4.1/2"			B									
5"	B		B		B							
6"	B		B		B							
6.1/2"			B									
7"			B		B							
8"												

EX STOCK: B= BLACK STEEL CI.10.9 4 = STAINLESS STEEL G304

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



ATOM FASTENERS LTD

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

SOCKET CSK CAP SCREWS UNIFIED STEEL CI.10.9 STAINLESS STEEL A2



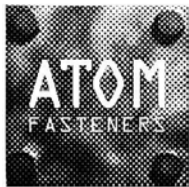
LEN/DIA	#0	#2		#4		#5		#6		#8		#10	
Hd. Dia.min	0.117	0.168		0.218		0.240		0.263		0.311		0.359	
Hd. Hgt.	0.045	0.064		0.073		0.090		0.097		0.112		0.127	
A/Key	0.035	0.05"		1/16"		5/64"		5/64"		3/32"		1/8"	
Thread	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF
T.P.I	00	56	64	40	48	40	44	32	40	32	36	24	32
3/16"	B												
1/4"	B	B		B		B		B		B 4		B	
5/16"		B		B		B		B		B		B	
3/8"		B		B		B		B		B 4		B	B
1/2		B		B		B		B 4		B 4		B 4	B
5/8"		B		B		B		B		B 4		B 4	B 4
3/4"		B		B		B		B 4		B 4		B 4	B
1"				B		B		B 4		B 4		B 4	B
1.1/4"				B				B		B 4		B 4	B
1.1/2"								B		B 4		B 4	B
1.3/4"												B	B
2"		82 to 80 Deg Head										B	B
2.1/2"												B	
3"												B	

SOCKET CSK CAP SCREWS BSW/BA STEEL CI.10.9



LEN/DIA	BSW THREADS 90 Deg. Head					BA THREADS 90 Deg. Head						
	1/4"	5/16"	3/8"	1/2"	5/8"	8BA	6BA	5BA	4BA	3BA	2BA	1BA
Hd. Dia. min	0.432	0.542	0.651	0.870	1.089	0.147	0.189	0.215	0.243	0.277	0.319	0.360
A/Key	5/32"	3/16"	7/32"	5/16"	3/8"	0.050	0.050	1/16"	1/16"	5/64"	3/32"	3/32"
T.P.I/Pitch	20 T.P.I	18 T.P.I	16 T.P.I	14 T.P.I	12 T.P.I	0.43mm	0.53mm	0.59mm	0.65mm	0.73mm	0.81mm	0.9mm
1/2"	B											
5/8"	B											
3/4"	B	B	B		B							
1"	B	B	B	B								
1.1/4"	B	B	B	B								
1.1/2"	B	B	B	B			B		B		B	
1.3/4"	B			B							B	
2"	B	B		B			B		B		B	
2.1/4"											B	
2.1/2"		B		B								
3"		B		B								
3.1/2"				B								
4"				B								

EX STOCK: B= BLACK STEEL CI.10.9 4 = STAINLESS STEEL A2 6 = STAINLESS STEEL A4



ATOM FASTENERS LTD

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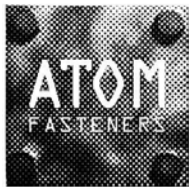
HEX SOCKET BUTTON HEAD SCREWS ISO 7380

STEEL CI.10.9 STAINLESS **A2** and **A4**



LEN/DIA	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.0	1.25
Hd. Dia.	3.5	4.5	5.7	6.6	7.6	9.5	10.5	14	17.5
Hd. Hgt.	1.3	1.5	1.65	1.9	2.2	2.75	3.3	4.4	5.5
A/Key	1.27	1.50	2	2	2.5	3	4	5	6
3	B								
4	B	B							
5	B	B	B	TA	B				
6	B	B 4	B 4 6		B	B	6		
8	B	B 4	B 4 6		B 4 6	B	B		
10	B	B 4	B 4		B 4 6	B Z 4 6	B 6		
12	B	B 4	B 4		B 4 6	B Z 4 6	B 4 6	B Z	B 4 6
14							B		
16	B	B 4	B 4		B 4	B Y Z 4 6	B Y Z 4 6	B Z 4 6	B 4 6
20		B 4	B 4		B 4	B Z 4 6	B Y Z 4 6	B Z 4 6	B Y Z 4 6
25			B 4		B 4	B 4	B Z 4 6	B Z 4 6	B Y Z 4 6
30			B	TA	B 4	B 4	B Y Z 4 6	B Y Z 4 6	B Z 4 6
35					B 4	B 4	B 4	B	B
40					B 4	B 4	B Z 4 6	B Y Z 4 6	B Z 4 6
45					B 4	B 4	B 4	B Z 4 6	B Z 4 6
50					B 4	B 4	B 4	B Z 4 6	B Z 4 6
55							B	B	B
60					B	B 4	B 4	B 4	B Z 4
65							B Z		B
70						B	B 4	B 4	B 4
75							B	B	
80							B 4	B 4	B 4
90								B	B 4
100								B	B 4

EX STOCK: B= BLACK STEEL CI.10.9 Y=Y/ZINC STEEL 10.9 4 = STAINLESS STEEL A2 6 = STAINLESS STEEL A4



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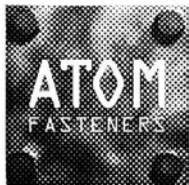
HEX SOCKET BUTTON HEAD SCREWS ISO 7380

STEEL CI.10.9 STAINLESS **A2** and **A4**



LEN/DIA	M12	M14	M16	M18	M20	M22	M24	M27	M30
Pitch	1.75	2	2	2.5	2.5	2.5	3.0	3.0	3.5
Hd Dia.	21	24.5	28	31.5	35	38	42	47	52
Hd. Hgt.	6.6	7.7	8.8	9.9	11	12.1	13.2	14.8	16.5
A/Key	8	10	10	12	12	14	14	17	17
16	B								
20	B								
25	B 4 6		B						
30	B 4 6	B	B						
35	B 4 6		B						
40	B 4 6		B		B				
45	B 4 6		B						
50	B Z 4 6	B	B						
55	B		B						
60	B 4		B				TA		
65	B								
70	B 4		B						
75	B								
80	B		B						
90	B								
100	B								
110	B								
120	B								

EX STOCK: B= BLACK STEEL CI.10.9 Y=Y/ZINC STEEL 10.9 4 = STAINLESS STEEL A2 6 = STAINLESS STEEL A4



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HEXAGON SOCKET BUTTON HEAD SCREWS UNC/UNF ASME 18.3 STEEL CI.12.9

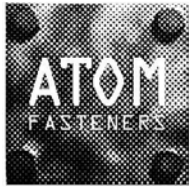


LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		5/8"		
Hd. Dia. max	0.437		0.547		0.656		0.750		0.875		1.00		
Hd. Hgt. max	0.132		0.166		0.199		0.232		0.265		0.331		
A/Key	5/32"		3/16"		7/32"		1/4"		5/16"		3/8"		
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	
T.P.I	20	28	18	24	16	11	10	10	13	20	12	18	
1/4"	B	B											
5/16"													
3/8"	B 4	B											
1/2"	B 4	B	B		B	B							
5/8"	B 4	B	B	B	B								
3/4"	B 4	B 4	B 4	B 4	B 4	B 4			B				
7/8	4												
1"	B 4	B 4	B 4	B 4	B 4	B 4	B		B 4				
1.1/8"													
1.1/4"	B 4	B 4	B 4	B 4	B 4	B 4			B 4	B			
1.1/2"	B 4	B	B 4	B	B 4	B 4			B 4	B			
1.3/4"				B	B 4				B				
2"	B 4		B	B	B 4	B 4			B 4	B			
2.1/4"													
2.1/2"									B	B			
2.3/4"													
3"					4	B	B		B				
3.1/2"													
4"													

EX STOCK: B= BLACK STEEL CI.10.9 4= STAINLESS STEEL A2 6= STAINLESS STEEL A4

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

LEN/DIA	1/2"
Hd. Dia. max	0.875
Hd Hgt. max	0.265
A/Key	5/16"
Thread	BSW
T.P.I	12
1"	
1.1/8"	
1.1/4"	
1.1/2"	
1.3/4"	
2"	
2.1/4"	
2.1/2"	
2.3/4"	
3"	
3.1/2"	



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SOCKET BUTTON HEAD CAP SCREWS UNIFIED

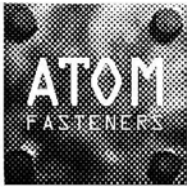
STEEL CI.10.9 and STAINLESS STEEL ASME B18.3



LEN/DIA	#0		#2		#3		#4		#5		#6		#8		#10	
Hd. Dia.	0.114		0.164		0.188		0.213		0.238		0.262		0.312		0.361	
Hd. Hgt	0.032		0.046		0.052		0.059		0.066		0.073		0.087		0.101	
A/Key	0.035		0.050		1/16"		1/16"		5/64"		5/64"		3/32"		1/8"	
Thread	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF
T.P.I		80	56	64	48	56	40	48	40	44	32	40	32	36	24	32
1/8"																
3/16"			B 4				B									
1/4"	B 4		B 4				B 4		B 4		B 4		B 4		B 4	B 4
5/16"			B				B		B		B		B		B	B
3/8"			B 4				B 4		B 4		B 4		B 4		B 4	B 4
1/2"			B 4		B		B 4		B 4		B 4		B 4		B 4	B 4
5/8"			B				B		B		B		B		B	B 4
3/4"			B 4				B 4		B 4		B 4		B 4		B 4	B 4
1"			B 4				B 4		B 4		B 4		B 4		B 4	B 4
1.1/4"							B		B		B		B		B 4	B 4
1.1/2"							B		B		B		B 4		B 4	B 4
1.3/4"															B 4	B 4
2"													B		B 4	B 4

EX STOCK: B= BLACK STEEL CI.10.9 4 = STAINLESS STEEL (304)

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



ATOM FASTENERS LTD

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HEXAGON SOCKET SET SCREWS UNC/UNF CUP POINT ANSI:B18.3-2003 STEEL CI.45H



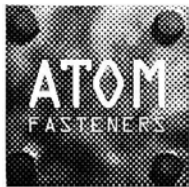
LEN/DIA	1/4"		5/16"		3/8"		7/16"		1/2"		9/16"		5/8"	
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
A/Key	1/8"		5/32"		3/16"		7/32"		1/4"		NA		5/16"	
T.P.I	20	28	18	24	16	24	14	20	13	20	12	18	11	18
3/16"	B													
1/4"	B	B	B	B	B									
5/16"	B	B	B Z	B	B	B								
3/8"	B	B	B	B	B	B	B							
7/16"						B	B	B						
1/2"	B	B	B	B	B	B	B	B	B	B			B	B
5/8"	B	B	B	B	B	B	B		B	B			B	
3/4"	B	B	B	B	B	B	B	B	B	B			B	B
1"	B	B	B		B Z	B	B	B	B	B			B	B
1.1/4"	B	B	B	B	B	B	B	B	B	B			B	B
1.1/2"	B		B	B	B	B	B	B	B	B			B	B
1.3/4"	B		B		B		B		B				B	
2"	B		B		B		B		B	C			B	B
2.1/4"									B					
2.1/2"	B				B				B				B	
3"					B				B				B	
3.1/2"									B					
4"									B					

EX STOCK: B= BLACK

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

LEN/DIA	3/4"		7/8"		1"		
A/Key	3/8"		1/2"		9/16"		
Thread	UNC	UNF	UNC	UNF	UNC	UNF	UNS
T.P.I	10	16	9	14	8	12	14
3/4"	B						
1"	B		B		B		
1.1/8"							
1.1/4"	B		B		B		
1.1/2"	B 4		B		B		
1.3/4"	B		B				
2"	B		B		B		
2.1/4"							
2.1/2"	B		B		B		
2.3/4"							
3"	B		B		B		
3.1/2"	B						
4"	B						

D = DOG POINT K= KNURLED POINT SOME SIZES AVAILABLE



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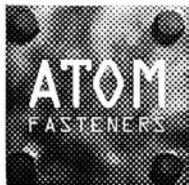
SOCKET HEAD SET SCREWS DIN 916 STEEL Cl. 45H CUP POINT (Plain)



LEN/DIA	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5
A/ Key	0.7	0.9	1.3	1.5	2.0	2.5	3.0	4.0	5.0
2	B	B							
3	B	B 4	B 4	B 4 6	B 4 6				
4		B 4	B 4 6	B 4 6	B Z 4 6	B			
5		B 4	B 4 6	B 4 6	B Z 4 6	B Z 4 6			
6		B 4	B 4 6	B 4 6	B Z 4 6	B Z 4 6	B Z 4 6		
8		B 4	B 4	B 4 6	B Z 4 6	B Z 4 6	B Z 4 6	B 4	4
10		B 4	B 4	B 4 6	B Z 4 6	B Z 4 6	B Z 4 6	B Z 4 6	B Z 4 6
12		B 4	B 4	B 4 6	B 4 6	B 4 6	B Z 4 6	B Z 4 6	B Z 4 6
16		B 4	B 4	B 4 6	B 4 6	B 4 6	B 4 6	B Z 4 6	B Z 4 6
20				B 4 6	B 4 6	B 4 6	B 4 6	B 4 6	B Z 4 6
25				B 4	B 4 6	B 4 6	B 4 6	B 4 6	B 4 6
30				B 4	B 4	B 4 6	B 4 6	B 4 6	B 4 6
35					B 4	B	B	B 4 6	B 4 6
40					B	B 4 6	B 4 6	B 4 6	B 4 6
45							B	B 4 6	B 4 6
50					B	B 4 6	B 4 6	B 4 6	B 4 6
60							B	B	B 4
70							B	B	B
80								B	B
90									B
100							B	B	B

LEN/DIA	M12	M14	M16	M18	M20	M22	M24	M27	M30
Pitch	1.75	2.0	2.0	2.5	2.5	2.5	3.0	3.0	3.5
A/ Key	6.0	6.0	8.0	10	10	12	12	14	14
10	B 4 6								
12	B 4 6								
14		B 4							
16	B 4 6	B 4	B 4						
20	B 4 6	B	B 4 6	B 4	B				
25	B 4 6	B	B 4	B 4	B 4		B 4		
30	B 4 6	B	B 4	B	B 4	B	B 4		
35	B 4	B	B 4		B 4		B 4		
40	B 4	B	B 4	B	B 4		B 4		
45	B 4	B	B 4		B 4		B 4		
50	B 4	B	B 4	B	B 4 6		B 4		
55	B	B	B 4		B		B 4		
60	B 4	B	B 4		B 4		B 4		
70	B	B	B 4		B		B		
75	B				B		B		
80	B	B	B 4		B		B		
90	B		B 4		B		B		
100	B		B 4		B		B		
120					B		B		

EX STOCK: B= BLACK 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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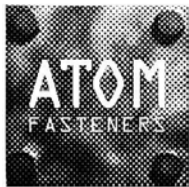
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SOCKET HEAD GRUB SCREWS DIN 916 STEEL Cl. 45H CONE POINT



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/ Key	1.5	2.0	2.5	3.0	4.0	5.0	6.0	7.0	8.0
2									
3	B 4								
4	B								
5	B	B	B						
6	B 4	B 4	B 4	B 4					
8	B 4	B 4	B 4	B 4	B				
10	B	B	B 4	B 4	B 4	B			
12	B	B 4	B 4	B 4	B 4	B 4			
16	B	B 4	B 4	B	B 4 6	B 4	B		
20		4	B	B	B 4	B 4	B		
25			B	B	B	B	B	B	
30			B		B	B	B		
35					B	B	B		
40					B	B	B		
45									
50					B	B	B		

EX STOCK: B= BLACK 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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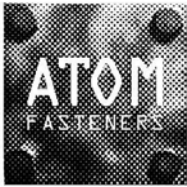
SOCKET HEAD GRUB SCREWS

DIN 916 STEEL Cl. 45H KNURLED POINT (Plain)

LEN/DIA	M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10
Pitch	0.35	0.4	0.45	0.5	0.7	0.8	1.0	1.25	1.5
A/ Key	0.7	0.9	1.3	1.5	2.0	2.5	3.0	4.0	5.0
2									
3				B					
4				B	B				
5				B	B				
6				B	B	B	B	B	
8				B	B	B	B	B	
10				B	B	B	B	B	B
12				B	B	B	B	B	B
16				B	B	B	B	B	B
20				B	B	B	B	B	B
25					B	B	B	B	B
30					B		B	B	B
35							B	B	B
40							B		
45							B		
50							B		

LEN/DIA	M12	M14	M16	M18	M20				
Pitch	1.75	2.0	2.0	2.50	2.50				
A/ Key	6.0		8.0		10.0				
10									
12	B								
16	B								
20	B								
25	B		B						
30	B		B						
35					B				
40	B								
45									
50									

EX STOCK: B= BLACK 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



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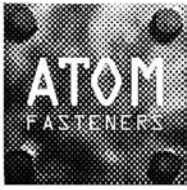
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HEXAGON SOCKET SET SCREWS UNC/UNF KNURLED POINT ANSI B18.3-2003 STEEL CI.45H



LEN/DIA	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
A/Key	1/8"		5/32"		3/16"		7/32"		1/4"				5/16"	
T.P.I	20	28	18	24	16	24	14	20	13	20	12	18	11	18
3/16"														
1/4"	B	B												
5/16"	B	B	B	B										
3/8"	B	B	B	B	B	B								
7/16"														
1/2"	B		B	B	B	B			B					
5/8"									B				B	
3/4"					B				B					
1"									B					
1.1/4"														
1.1/2"														
1.3/4"														
2"														
2.1/4"														
2.1/2"														
3"														
3.1/2"														
4"														

EX STOCK: B= BLACK



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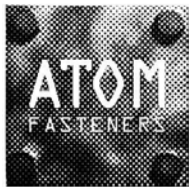
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HEXAGON SOCKET SET SCREWS UNIFIED STEEL CI.45H



LEN/DIA	#0	#1	#2		#3		#4		#5		#6		#8		#10	
A/Key	0.028	0.035	0.035		0.050		0.050		1/16"		1/16"		5/64"		3/32"	
Thread	NF	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF	NC	NF
T.P.I	80	72	56	64	48	56	40	48	40	44	32	40	32	36	24	32
1/8"							B		B		B		B			
3/16"	B	B					B		B		B		B		B	B
1/4"	B	B					B		B		B		B		B	B
5/16"							B		B		B		B		B	B
3/8"							B		B		B		B		B	B
7/16"							B									
1/2"							B		B		B		B		B	B
5/8"							B		B		B		B		B	B
3/4"							B		B		B		B		B	B
1"									B		B		B		B	B
1.1/4"											B		B		B	B
1.1/2"											B		B		B	
1.3/4"															B	
2"															B	

EX STOCK: B = BLACK



ATOM FASTENERS LTD

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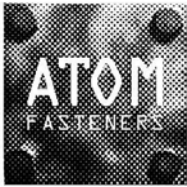
SOCKET HEAD SHOULDER SCREWS

ANSI B 18.3.3M ISO 7379 STEEL Cl. 12.9



LEN/DIA	5mm	6mm	8mm	10mm	12mm	16mm	20mm	24mm
Thread	M4	M5	M6	M8	M10	M12	M16	M20
Pitch	0.7	0.8	1.0	1.25	1.5	1.75	2.0	2.5
Hd. Dia.	8.5	10.22	13.27	16.27	18.27	24.33	30.33	36.39
Hd. Hgt.max	4.00	4.50	5.50	7.00	9.00	11.00	14.00	16.00
A/ KEY	2.5	3	4	5	6	8	10	12
Thd. Length	8.25	9.75	11.25	13.25	16.40	18.40	22.40	27.50
5	B							
6	B	B	B					
8	B	B	B					
10	B	B 4	B	B				
12	B	B 4	B 4	B	B			
16	B	B 4	B 4	B 4	B 4			
20	B	B 4	B 4	B 4	B 4	B	B	
25	B	B 4	B 4	B 4	B 4	B	B	
30	B	B 4	B 4	B 4	B 4	B 4	B	
35		B	B	B	B	B	B	
40	B	B 4	B 4	B 4	B 4	B 4	B 4	
45			B	B	B	B	B	
50		B	B 4	B 4	B 4	B 4	B 4	B
55			B	B	B	B	B	B
60			B	B	B	B	B	B
65			B	B	B	B	B	B
70			B	B	B	B	B	B
75			B	B	B	B		
80			B	B	B	B	B	B
85					B	B		
90			B	B	B	B	B	B
100			B	B	B	B	B	B
110				B	B	B	B	B
120				B	B	B	B	B
130				B	B	B	B	B
140				B	B	B	B	B
150				B	B	B	B	B
160					B	B	B	

EX STOCK: B= BLACK 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)



ATOM FASTENERS LTD

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SOCKET HEAD SHOULDER SCREWS

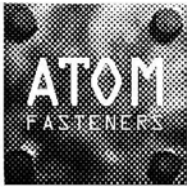
STEEL CI.12.9 UNC / UNF ASME B18.3



SHANK DIA	1/4"		5/16"		3/8"		1/2"		5/8"		3/4"		1"	
THREAD	#10		1/4"		5/16"		3/8"		1/2"		5/8"		3/4"	
Hd. Dia. max	0.375		0.437		0.562		0.750		0.875		1.000		1.312	
Hd. Hgt. max	0.188		0.219		0.250		0.313		0.375		0.50		0.625	
A/Key	1/8"		5/32"		3/16"		1/4"		5/16"		3/8"		1/2"	
T.P.I	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
	24	32	20	28	18	24	16	24	13	20	11	18	10	16
SHOULDER LENGTH														
1/4"	B		B		B									
3/8"	B		B		B		B							
1/2"	B		B		B		B							
5/8"	B		B		B 4		B		B					
3/4"	B		B		B		B		B		B			
1"	B		B		B		B		B		B			
1.1/4"	B 4		B		B		B		B		B			
1.1/2"	B		B		B		B		B		B			
1.3/4"	B		B		B		B		B		B			
2"	B		B		B		B		B		B			
2.1/4"	B		B		B		B		B					
2.1/2"	B		B		B		B		B		B			
2.3/4"			B		B		B		B					
3"	B		B		B		B		B		B			
3.1/4"			B						B					
3.1/2"			B		B		B		B		B			
3.3/4"			B						B					
4"			B		B		B		B		B			
4.1/2"							B		B		B			
5"							B		B		B			
5.1/2"									B					
6"									B		B			

EX STOCK: B= BLACK

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



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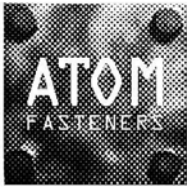


SOCKET HEAD SHOULDER SCREWS

STEEL CI.12.9 BSF/BSW

DIAMETER	1/4"		5/16"		3/8"		1/2"		5/8"		3/4"		1"	
THREAD			1/4"		5/16"		3/8"		1/2"		5/8"		3/4"	
HEAD DIA.	0.375		0.437		0.562		0.750		0.875		1.000		1.312	
HEAD Hgt. max	0.188		0.219		0.250		0.313		0.375		0.50		0.625	
ALLEN KEY	1/8"		5/32"		3/16"		1/4"		5/16"		3/8"		1/2"	
SHOULDER LENGTH TPI	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW	BSF	BSW
			26	20	22	18	20	16	16	12	14	11	12	10
3/8"														
1/2"														
5/8"														
3/4"														
1"			B		B									
1.1/4"			B		B									
1.1/2"			B		B				B	B				
1.3/4"			B		B									
2"			B		B									
2.1/2"			B		B									
3"					B		B	B						
3.1/2"														
4"														
5"														
6"														

EX STOCK: B= BLACK



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HEXAGON SOCKET SCREW COVER

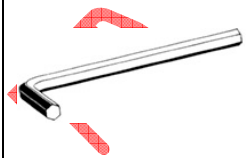
Plastic Polyethylene



DIA		M5	M6	M8	M10	M12	M16	M20	
Grey		✓	✓	✓	✓	✓	✓	✓	

EX STOCK: = ✓

ALLEN KEYS

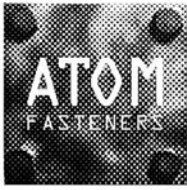


DIA		1.3	1.5	2.0	2.5	3.0	4.0	5.0	6.0
Short Arm		✓	✓	✓	✓	✓	✓	✓	✓
Long Arm						✓	✓	✓	

DIA		8.0	10	12	14	17	19	24	27
Short Arm		✓	✓	✓	✓	✓	✓	✓	✓

DIA		32	36		1/4"	5/16"			
Short Arm		✓	✓		✓	✓			

EX STOCK: = ✓



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SOCKET HEAD CAP SCREWS

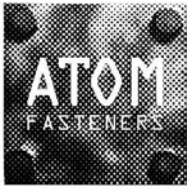
ASME B18.3 BSF

LEN/DIA	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"
Thread	BSF	BSF	BSF	BSF	BSF	BSF	BSF	BSF	BSF
T.P.I	32	26	22	20	18	16	14	12	11
Hd. Dia.	0.312	0.375	0.437	0.562	0.625	0.750	0.875	1.00	1.125
Hd. Hgt.	0.187	0.250	0.312	0.375	0.437	0.500	0.625	0.750	0.875
A/Key	5/32"	3/16"	7/32"	5/16"	5/16"	3/8"	1/2"	9/16"	9/16"
3/8"		B	B						
1/2"	B	B	B	B					
5/16"			B						
5/8"		B	B	B					
3/4"	B	B	B	B		B			
7/8"	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		
1.3/4"		B		B			B		
2"	B	B	B	B	B	B	B	B	B
2.1/4"			B	B					
2.1/2"		B	B	B		B	B	B	
3"		B	B	B		B	B	B	
3.1/2"		B		B			B		
4"			B	B		B	B	B	
4.1/2"									
5"						B	B	B	
6"				B			B		

LEN/DIA	1.1/4"	1.1/2"							
Thread	BSF	BSF							
T.P.I	9	8							
Hd. Dia.	1.875	2.25							
Hd. Hgt.	1.00	1.50							
A/Key	7/8"	1"							
1.1/2"	B								
1.3/4"									
2"									
2.1/4"									
2.1/2"	B								
3"									
3.1/2"		B							
4"									
4.1/2"									
5"									
6"									

EX STOCK: B= BLACK

All dimensions are in inches.



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SOCKET CSK CAP SCREWS ASME B18.3 BSF



LEN/DIA	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"
Thread	BSF	BSF	BSF	BSF	BSF	BSF	BSF	BSF	BSF
T.P.I	32	26	22	20	18	16	14	12	11
Hd. Dia.	0.314	0.420	.0527	0.635	0.742	0.950	1.187	1.425	1.662
Hd. Hgt.	0.087	0.116	0.146	0.174	0.204	0.233	0.291	0.349	0.407
A/Key	5/32"	3/16"	7/32"	5/16"	5/16"	3/8"	1/2"	9/16"	9/16"
3/8"	B								
1/2"	B	B	B	B					
5/16"									
5/8"									
3/4"	B	B	B	B	B				
7/8"		B							
1"	B	B	B	B	B	B			
1.1/4"		B	B		B	B			
1.1/2"		B	B	B		B			
1.3/4"									
2"				B		B			
2.1/4"									
2.1/2"									
3"									
3.1/2"									
4"									
4.1/2"									
5"									
6"									

EX STOCK: B= BLACK

All dimensions are in inches.

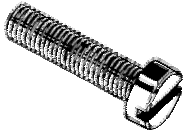


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SCREWS METAL THREAD

PAGE



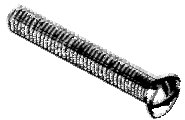
CHEESE SLOT

DIN 84 STEEL 4.8 ZINC PLATED	M2 to M12	Screws 6
DIN 84 STEEL 8.8 ZINC PLATED	M2 to M6	Screws 6
DIN 84 ALUMINIUM	M3 to M6	Screws 6
DIN 84 BRASS	M2 to M10	Screws 6
DIN 84 PLASTIC (NYLON)	M3 to M10	Screws 6
DIN 84 STAINLESS STEEL A2	To Order	
DIN 84 STAINLESS STEEL A4	To Order	



COUNTERSUNK SLOT

DIN 963 STEEL 4.8 ZINC PLATED	M2 to M20	Screws 7
DIN 963 STEEL 8.8 ZINC PLATED	M2 to M6	Screws 7
DIN 963 ALUMINIUM	M3 to M8	Screws 7
DIN 963 BRASS	M2 to M12	Screws 7
DIN 963 PLASTIC (NYLON)	M3 to M8	Screws 7
DIN 963 STEEL STAINLESS STEEL A2	To Order	Screws 7
DIN 963 STEEL STAINLESS STEEL A4	To Order	Screws 7
IMPERIAL BSW	To Order	Screws 7



RAISED COUNTERSUNK SLOT

DIN 964 STEEL 4.8 ZINC PLATED	To Order	
DIN 964 STAINLESS STEEL A2	To Order	
DIN 964 ALUMINIUM	To Order	

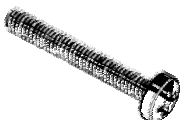


ROUND SLOT

DIN 450 STEEL 4.8 ZINC PLATED	To Order	Screws 9
DIN 450 STAINLESS STEEL A2	To Order	Screws 9
DIN 450 STAINLESS STEEL A4	To Order	Screws 9
IMPERIAL BSW	To Order	Screws 9

MUSH SLOT

STEEL ZINC PLATED	M5 to M6	
IMPERIAL ZINC PLATED	3/16" to 1/4"	



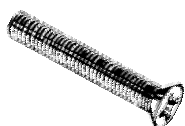
PAN HEAD POZIDRIVE (RAISED CHEESE)

DIN 7985 STEEL 4.8 ZINC PLATED	M3 to M8	Screws 11
DIN 7985 STAINLESS STEEL A2	M2 to M6	Screws 11



PAN HEAD PHILLIPS (RAISED CHEESE)

DIN 7985 STEEL 4.8 ZINC PLATED	M2 to M10	Screws 10
DIN 7985 STAINLESS STEEL A2	M2 to M8	Screws 10
DIN 7985 STAINLESS STEEL A4	M2 to M8	Screws 10



COUNTERSUNK HEAD POZIDRIVE

DIN 965 STEEL 4.8 ZINC PLATED	M3 to M8	Screws 8
DIN 965 STAINLESS STEEL A2	M1.6 to M8	Screws 8
DIN 965 STAINLESS STEEL A4	M1.6 to M8	Screws 8

CONTINUED

SELF TAPPING SCREWS

PAGE



PAN HEAD POZIDRIV

IMPERIAL ZINC PLATED
IMPERIAL STAINLESS STEEL G304
IMPERIAL STAINLESS STEEL G316

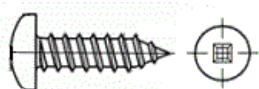
Screws 1
Screws 1
Screws 1



COUNTERSUNK HEAD POZIDRIV

IMPERIAL ZINC PLATED
IMPERIAL STAINLESS STEEL G304
IMPERIAL STAINLESS STEEL G316

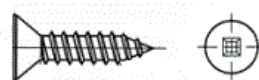
Screws 1
Screws 1
Screws 1



PAN HEAD SQUARE DRIVE

IMPERIAL ZINC PLATED
IMPERIAL STAINLESS STEEL G304
IMPERIAL STAINLESS STEEL G316

Screws 1
Screws 1
Screws 1



COUNTERSUNK HEAD SQUARE DRIVE

IMPERIAL ZINC PLATED
IMPERIAL STAINLESS STEEL G304
IMPERIAL STAINLESS STEEL G316

Screws 1
Screws 1
Screws 1

DRIVE SCREWS (HAMMER)

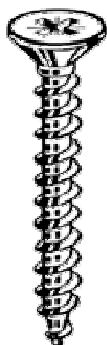


ROUND HEAD

STEEL
BRASS
STAINLESS STEEL A2

Screws 12
Screws 12
Screws 12

CHIPBOARD SCREWS



COUNTERSUNK POZIDRIVE

STEEL YELLOW PASSIVATED 6g to 10g
STAINLESS STEEL A2 (G304) 6g to 10g
STAINLESS STEEL A4 (G316) 6g to 10g

Screws 4
Screws 4
Screws 4

COUNTERSUNK SQUARE

STEEL YELLOW PASSIVATED 6g to 10g
STAINLESS STEEL A2 (G304) 6g to 10g

Screws 4
Screws 4

PAN HEAD POZIDRIVE (RAISED CHEESE)

STEEL YELLOW PASSIVATED 6g to 10g
STAINLESS STEEL A2 (G304) 6g to 10g

Screws 4
Screws 4

WOOD SCREWS



COUNTERSUNK SLOT

DIN 97 STEEL ZINC PLATED
DIN 97 BRASS

To Order
To Order

Screws 2
Screws 2

ROUND SLOT

DIN 96 STEEL ZINC PLATED
DIN 96 BRASS

To Order
To Order

Screws 3
Screws 3

PARTICLE BOARD SCREWS

COUNTERSUNK POZIDRIVE

STEEL ZINC PLATED

To Order

DRYWALL SCREWS



COUNTERSUNK PHILLIPS

STEEL COARSE & Fine ZINC PLATED

To Order

Screws 2

TWIN THREAD SCREWS



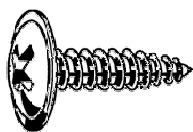
COUNTERSUNK POZI

STEEL

ZINC PLATED

Screws 2

SELF TAPPING SCREWS



MUSHROOM HEAD POZI DRIVE

STEEL
STEEL

ZINC PLATED
BLACK

Screws 3
Screws 3

SELF DRILLING SCREWS (METAL)



HEX WASHER FACE

STEEL

Class 3 & 4

Screws 5

SELF DRILLING SCREWS (TIMBER)



HEX WASHER FACE

STEEL

Class 3 & 4

Screws 5

TAP TITE SCREWS



THREAD ROLLING

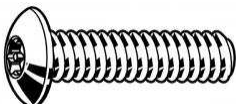
DIN 7500 STEEL

Zinc Plated

Screws 12

SECURITY FASTENERS

BUTTON HEXALOBULAR POST



STAINLESS STEEL A2 Cl. 70

Check with sales

Screws 13

PAN SNAKE EYE



STAINLESS STEEL A2 Cl. 70

Check with sales

Screws 13

CSK SNAKE EYE



STAINLESS STEEL A2 Cl. 70

Check with sales

Screws 14

SELF TAPPING SNAKE EYE



PAN HEAD STAINLESS STEEL A2 Cl. 70
CSK HEAD STAINLESS STEEL A2 Cl. 70

Check with sales
Check with sales

Screws 14
Screws 14

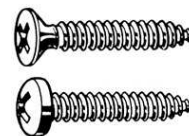




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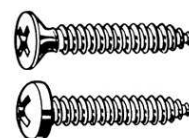
SELF TAPPING SCREWS PAN and CSK HEAD POZI DRIVE STEEL ZINC PLATED



LEN/DIA	4G		6G		8G		10G		12G		14G	
	CSK	PAN	CSK	PAN	CSK	PAN	CSK	PAN	CSK	PAN	CSK	PAN
1/4"		✓		✓								
3/8"	✓	✓	✓	✓	✓	✓		✓				
1/2"	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓
5/8"	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓
3/4"	✓	✓	✓	✓	✓	✓	✓	✓		✓		✓
1"		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
1.1/4"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.1/2"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.1/2"						✓	✓	✓	✓	✓	✓	✓
3"							✓		✓		✓	✓

✓ EX STOCK

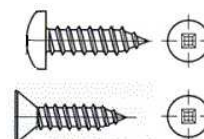
SELF TAPPING SCREWS PAN and CSK HEAD POZI DRIVE STAINLESS STEEL (304)



LEN/DIA	4G		6G		8G		10G		12G		14G	
	CSK	PAN	CSK	PAN	CSK	PAN	CSK	PAN	CSK	PAN	CSK	PAN
1/4"	✓	✓										
3/8"	✓	✓	✓	✓	✓	✓						
1/2"	✓	✓	✓	✓	✓	✓	✓	✓				
5/8"	✓	✓	✓	✓	✓	✓	✓	✓				
3/4"	✓	✓	✓	✓	✓	✓	✓	✓				
1"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.1/4"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
1.1/2"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2"					✓	✓	✓	✓	✓	✓	✓	✓
2.1/2"					✓	✓	✓	✓	✓	✓	✓	✓
3"					✓	✓	✓	✓	✓	✓	✓	✓

✓ EX STOCK 2g to Order

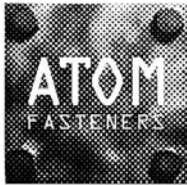
SELF TAPPING SCREWS PAN and CSK HEAD SQUARE DRIVE STAINLESS STEEL (304)



LEN/DIA	4G		6G		8G		10G		12G		14G	
	CSK	PAN	CSK	PAN	CSK	PAN	CSK	PAN	CSK	PAN	CSK	PAN
1/4"												
3/8"												
1/2"			✓	✓	✓	✓	✓	✓				
5/8"			✓	✓	✓	✓	✓	✓				
3/4"			✓	✓	✓	✓	✓	✓				
1"			✓	✓	✓	✓	✓	✓	✓	✓		✓
1.1/4"			✓	✓	✓	✓	✓	✓	✓	✓		✓
1.1/2"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2"			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2.1/2"					✓	✓	✓	✓	✓	✓	✓	✓
3"					✓	✓	✓	✓	✓	✓	✓	

2g to Order 6G = No 1 Square Drive

8G & 10g = No 2 Square Drive

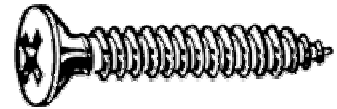


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TWIN THREAD SCREWS

CSK HEAD POZI DRIVE



LEN/DIA	4G	5G	6G	7G	8G	9G	10G	12G	14G	
Drive	#1	#2	#2	#2	#2	#2	#2	#3	#3	
Hd. Dia.	0.216	0.244	0.272	0.300	0.328	0.350	0.117	0.440	0.496	
Hd. Hgt.	0.064	0.073	0.082	0.091	0.100	0.109	0.117	0.135	0.153	
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	
3/8"	✓	✓								
1/2"	✓	✓	✓	✓	✓					
5/8"	✓	✓	✓	✓	✓					
3/4"	✓	✓	✓	✓	✓	✓	✓			
1"		✓	✓	✓	✓	✓	✓			
1.1/4"			✓	✓	✓	✓	✓			
1.1/2"			✓	✓	✓	✓	✓			
1.3/4"					✓	✓	✓			
2"					✓	✓	✓			

✓ EX STOCK

DRY WALL SCREWS

CSK HEAD POZI DRIVE



LEN/DIA	6G	6G								
Thread	COARSE	FINE								
Drive	#2	#2								
25	✓	✓								
30	✓	✓								
40	✓	✓								
45	✓	✓								

✓ EX STOCK

WOOD SCREWS

CSK HEAD SLOT DRIVE DIN 97



LEN/DIA	6G	8G	10G	12G						
1/2"	R									
5/8"	R									
3/4"	R	R								
1"	R	R	R	R						
1.1/4"	R Z	R	R	R						
1.1/2"	R Z	R	R	R						
1.3/4"			R							
2"		R	R	R Z						
2.1/2"			R	R						
3"			R	R						

EX STOCK: Z = CLEAR ZINC PLATED R = BRASS



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WOOD SCREWS

CSK, RND & RSD HEAD SLOT DRIVE

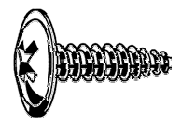
Image Not Available

	COUNTERSUNK				ROUND				RAISED		
LEN/DIA	2.0	2.50	3.0		2.0	2.5			3.5	4.0	4.5
8					R						
10	R	R	R		R	R					
12	R	R	R		R	R					
16	R	R	R		R	R					
20	R	R			R	R			R		
25									R	R	
30										R	R
40											R

EX STOCK: R = BRASS

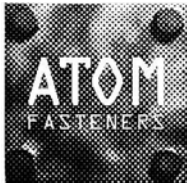
SELF TAPPING SCREWS

MUSHROOM HEAD POZI DRIVE BS 4174



LEN/DIA	4G	6G	8G	10G	12G	14G				
Drive	#1	#2	#2	#2	#3	#3				
Hd. Dia.	0.257	0.321	0.384	0.448	0.511	0.573				
Hd. Hgt.	0.063	0.074	0.093	0.114	0.124	0.145				
Thd.	Full	Full	Full	Full	Full	Full				
1/2"	B Z	B Z	B	B						
5/8"	B Z	B Z	B	B						
3/4"	B Z	B Z	B	B Z						
1"	B Z	B Z	B	B						

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED



ATOM FASTENERS LTD

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SCREWS – CHIPBOARD PAN and CSK HEAD POZI and SQUARE STEEL YELLOW ZINC PLATED

(indication only)



LEN/DIA	6G				8G				10G			5.5mm
	CSK POZI	CSK SQ	PAN POZI	PAN SQ	CSK POZI	CSK SQ	PAN POZI	PAN SQ	CSK POZI	CSK SQ	PAN POZI	CSK SQ
1/2"	✓	✓					✓					
5/8"	✓	✓					✓					
3/4"	✓	✓			✓	✓	✓					
1"	✓	✓			✓	✓	✓	✓				
1.1/8					✓	✓						
1.1/4"		✓			✓	✓	✓	✓				
1.1/2"		✓			✓	✓	✓	✓				
1.3/4"					✓	✓						
2"					✓	✓	✓					
2.1/2"					✓	✓				✓		
3"					✓	✓			✓	✓		
4"										✓		
120mm												✓
150mm												✓
175mm												✓

✓ EX STOCK 6g = No 1 Drive

8g & 10g = No 2 Drive

AVAILABLE IN Jars 200 or 100 P/Bags 1000/500

SCREWS - CHIPBOARD PAN and CSK HEAD POZI and SQUARE STAINLESS STEEL A2(304)

(indication only)



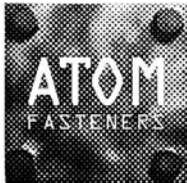
LEN/DIA	3.0mm		3.5mm		4.0mm(7G)				4.5mm(8G)			5.0mm(10G)			6.0mm	
	CSK POZI	PAN POZI	CSK POZI	PAN POZI	CSK POZI	CSK SQ	PAN POZI	PAN SQ	CSK POZI	CSK SQ	PAN SQ	CSK POZI	CSK SQ	PAN POZI	CSK POZI	CSK SQ
12mm				TA												
16mm/5/8"	TA	TA	TA	TA	TA		TA									
20mm/3/4"	TA	✓	TA	✓	TA	✓	✓		TA	✓✓						
25mm/1"	TA	✓	TA	✓	TA	✓	✓		TA	✓✓		TA		TA		
30mm/1.1/4"	TA	TA	TA	TA	TA	✓	TA		TA	✓✓		TA		TA		
35mm	TA		TA		TA	✓	TA		TA	✓✓		TA				
1.1/2"										✓			✓			
40mm			TA		TA		TA		TA	✓		TA	✓	✓	TA	
45mm					TA		TA		TA	✓✓		TA				
50mm/2"					TA		TA		TA	✓✓		TA	✓✓	TA	TA	✓
60mm					TA				TA	✓		TA	✓			
2.1/2"										✓						
70mm					TA					✓		TA	✓		TA	
3"										✓			✓			
90mm										✓		TA	✓		✓	
100mm												TA	✓		✓	
120mm																✓

3mm = No 1 Drive

7g, 8g, 10g and 3.5mm to 5.0mm = No 2 Drive

6.0mm = No 3 Drive

Jars 200 or 100 P/Bags 1000/500



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SCREWS – SELF DRILLING METAL HEXAGON WASHER HEAD

SELF DRILLING POINT SDM FINISH CLASS 4



LEN/DIA	8G (4.2mm)				10G (4.8mm)				12G (5.5mm)				14G (6.3mm)			
HEX DRIVE BIT	1/4" Hex				5/16" Hex				5/16" Hex				3/8" Hex			
POINT	SDM	SDM	SDM	SDM	SDM	SDM	SDM	SDM	SDM	SDM	SDM	SDM	SDM	SDM	SDM	SDM
NEO. SEAL	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Pitch	CRSE	CRSE	FINE	FINE	CRSE	CRSE	FINE	FINE	CRSE	CRSE	FINE	FINE	CRSE	CRSE	FINE	FINE
TPI	18	18			16	16	24	24	14	14	24	24	10	10	20	20
Max Drill Thickness	3.0	3.0			4.5	4.5	4.5	4.5	5.5	5.5	6.5	6.5	5.0	5.0	6.5	6.5
12	✓	✓														
16					✓	✓	✓	✓					✓	✓		
20									✓	✓	✓	✓	✓	✓		
22													✓	✓		
25					✓	✓	✓						✓			
30									✓	✓	✓	✓				
35									✓	✓						
42													✓	✓		
45									✓	✓						
50													✓	✓		
55									✓	✓						
65									✓	✓			✓	✓		
75									✓	✓			✓	✓		
90													✓	✓		
95													✓	✓		
115													✓	✓		
135													✓	✓		
150													✓	✓		

✓ EX STOCK PAINTED; A FULL RANGE AVAILABLE

CYCLONE WASHER AVAILABLE

Class 3 and 4 to AS 3566

SCREWS – SELF DRILLING TIMBER HEXAGON WASHER HEAD

SELF DRILLING POINT T17 FINISH CLASS 4

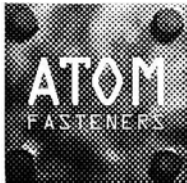


LEN/DIA	4G		6G		8G		10G		12G		14G	
HEX DRIVE BIT					1/4" Hex		5/16" Hex		5/16" Hex		3/8" Hex	
POINT	T17	T17	T17	T17	T17	T17	T17	T17	T17	T17	T17	T17
NEO. SEAL	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes
Pitch	CRSE	CRSE	CRSE	CRSE	CRSE	CRSE	CRSE	CRSE	CRSE	CRSE	CRSE	CRSE
TPI	10	10	16	16	15	15	12	12	11	11	10	10
Min Embedment					18	18	25	25	30	30	35	35
20					✓	✓						
25							✓	✓	✓	✓	✓	✓
30									✓	✓		
35									✓	✓		
40									✓	✓		
45									✓	✓		
50									✓	✓	✓	✓
65									✓	✓	✓	✓
75									✓	✓	✓	✓
90, 100, 115, 125 and 150											✓	✓

✓ EX STOCK PAINTED; A FULL RANGE AVAILABLE

CYCLONE WASHER AVAILABLE

Class 3 and 4 to AS 3566



ATOM FASTENERS LTD

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CHEESE SLOT METAL THREAD

DIN 84



LEN/DIA	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5	1.75
Hd. Hgt.	1.3	1.6	5.5	6	7	8.5	10	13	16	18
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
4	Z R	Z	Z R							
5	Z 4 R	Z R	Z R		Z R					
6	Z R	Z R	Z R	Z	Z R	Z R	Z			
8	Z R	Z R	Z R	Z	Z R	Z R	Z			
10	Z R	Z R	Z 4 R	Z 4	Z 4 A R	Z 4 A R	Z R	Z R		
12	Z R	Z R	Z 4 6 R	Z	Z 4 A R	Z 4 A R	Z 4 A R	Z R		
16	Z R	Z R	Z R	Z	Z A R	Z 4 A R	Z 4 A R	Z R	Z	
20	Z R	Z R	Z R	Z	Z 4 6 A R	Z 4 A R	Z 4 A R	Z R	Z R	Z
25	Z	Z R	Z 4 R	Z	Z R	Z 4 R	Z 4 A R	Z R	Z R	Z
30	Z	Z	Z R	Z	Z R	Z 4 R	Z R	Z R	Z R	Z
35			Z R	Z	Z R	Z 4 R	Z R	Z	Z	Z
40			Z R	Z	Z 4 R	Z 4 R	Z R	Z R	Z R	Z
45			Z		Z R	Z	Z	Z 4	Z	Z
50			Z R	Z	Z R	Z R	Z 4 R	Z 4 R	Z R	Z
60			Z		Z 4 R	Z R	Z R	Z R	Z	Z
70					Z	Z	Z R	Z	Z	Z
80					Z	Z	Z	Z 4	Z	Z
90							Z	Z		
100						Z	Z	Z	Z	Z

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316) R = BRASS

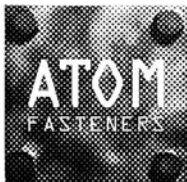
CHEESE SLOT METAL THREAD

BS 1981



LEN/DIA	0BA	1BA	2BA	3BA	4BA	5BA	6BA	7BA	8BA	9BA
Szie	6.0	5.3	4.7	4.1	3.6	3.2	2.8	2.5	2.2	1.9
Pitch	1.0	1.112	1.234	1.372	1.514	1.697	1.884	2.083	2.33	2.557
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
1/4"			Z					R	R	
3/8"					R Z	B R			B	
1/2"	B R	R	R Z	B R	Z		B R	B R	B	R
5/8"			Z							
3/4"	B		B Z		Z			B R	R	B R
7/8"			Z							
1"	R	R	R Z	R	R Z	R	B R	R	B R	R
1.1/4"										
1.1/2"			Z		Z	R				
1.3/4"										
2"	B R	R	B R	R	R	R				

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316) R = BRASS



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CSK SLOT METAL THREAD

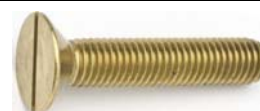
DIN 963



LEN/DIA	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5	1.75
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
4	Z R	Z	Z R							
5	Z 4 R	Z R	Z R		Z R					
6	Z R	Z R	Z R	Z	Z R	Z R	Z			
8	Z R	Z R	A Z R	Z	A Z R	Z R	Z			
10	Z R	Z R	A Z 4 R	Z 4	A Z 4 A R	Z 4 A R	Z R	Z R		
12	Z R	Z R	A Z 4 6 R	Z	A Z 4 A R	Z 4 6 A R	Z 4 A R	Z R		
16	Z R	Z R	A Z R	Z	A Z 4 A R	Z 4 A R	Z 4 6 A R	Z A 6 R	Z R	
20	Z R	Z R	A Z R	Z	A Z 4 A R	Z 4 6 A R	Z 4 6 A R	Z A 6 R	Z R	Z
25	Z	Z R	Z 4 R	Z	Z R	Z 4 6 R	Z 4 6 A R	Z A 4 R	Z 6 R	Z
30	Z	Z	Z R	Z	Z 4 R	Z 4 R	Z 6 R	Z A 4 6 R	Z 6 R	Z R
35			Z R	Z	Z R	Z 4 6 R	Z 6 R	Z	Z	Z
40			Z R	Z	Z 4 6 R	Z 4 6 R	Z 4 6 A R	Z A R	Z R	Z R
45			Z		Z R	Z	Z	Z 4	Z	Z R
50			Z R	Z	Z 4 6 R	Z R	Z 4 6 R	Z 4 A R	Z R	Z R
60			Z		Z 4 R	Z R	Z 4 R	Z R	Z R	Z R
70					Z 4 6 R	Z	Z 6 R	Z 4 6	Z	Z R
80					Z	Z	Z	Z 4	Z 6	Z R
100							Z 4	Z		R

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316) R = BRASS
A = ALUMINUM

CSK SLOT METAL THREAD



LEN/DIA	0BA	1BA	2BA	3BA	4BA	5BA	6BA	7BA	8BA	9BA
Size	6.0	5.3	4.7	4.1	3.6	3.2	2.8	2.5	2.2	1.9
Pitch	1.0	1.112	1.234	1.372	1.514	1.697	1.884	2.083	2.33	2.557
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
1/4"			R	R					R	
3/8"				B	Z					
1/2"	B R	B	Z	B R	R Z	R	B R	R	R	
3/4"			B Z	B	Z				R	
1"		B	B R Z	B R	B R Z	R	R		B	B R
1.1/2"	R		Z		Z					

LEN/DIA	3/16"	1/4"								
T.P.I.	24	20								
Thread	BSW	BSW								
1/2"	4 6	6								
3/4"	4 6	4 6								
1"	4 6	4 6								
1.1/4"	4 6	6								
1.1/2"	4 6	4 6								
2"	4 6	4 6								
2.1/2"	6	6								
3"	6	4								
4"	6									

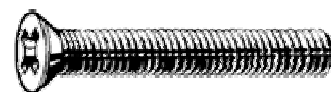


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CSK PHILLIPS METAL THREAD

DIN 965 CSK CROSS RECESSED



LEN/DIA	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	
Pitch										
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	
4	4									
5	4	4								
6	4	4	4							
8	4	4	4	4	4					
10	4	4	4	4	4	4				
12	4	4	4	4	4	4				
16	4	4	4	4	4	4				
20		4	4	4	4	4	4			
25			4	4	4	4	4			
30			4	4	4	4	4			
35			4	4	4	4	4			
40			4	4	4	4	4			
45				4	4	4				
50				4	4	4	4			
60				4	4	4	4			
70					4	4	4			
80					4	4	4			
100						4				

CSK POZI METAL THREAD

DIN 965 CROSS RECESSED



LEN/DIA	M3	M4	M5	M6	M8	M10	M12			
Pitch										
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
4										
5										
6	Z	Z								
8	Z	Z	Z	Z						
10	Z	Z	Z	Z						
12	Z	Z	Z	Z						
16	Z	Z	Z	Z	Z					
20	Z	Z	Z	Z	Z					
25	Z	Z	Z	Z	Z					
30	Z	Z	Z	Z	Z					
35			Z	Z	Z					
40		Z	Z	Z	Z					
45			Z	Z						
50		Z	Z	Z	Z					
60				Z	Z					
70				Z	Z					
80				Z	Z					
100				Z	Z					

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316) R = BRASS



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ROUND SLOT METAL THREAD

BS 450



LEN/DIA	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"				
T.P.I	40	32	24	20	18	16				
Thd.	Full	Full	Full	Full	Full	Full				
1/4"	Z	Z	6 Z							
3/8"	Z									
1/2"	R Z	Z	4 6 R Z	6 R Z						
3/4"	R Z	R Z	6 R Z	6 R Z	R	R				
1"	R Z	R Z	4 6 R Z	6 R Z	R	R				
1.1/4"	Z	R Z	4 6 R Z	6 R Z						
1.1/2"	R Z	R Z	4 6 R Z	6 R Z	R	R				
2"	R	R Z	6 R Z	6 R Z	R	R				
2.1/2"			6	6						
3"			6	R						
4"				R						

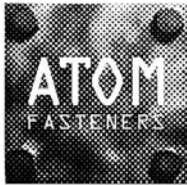
PAN SLOT METAL THREAD

BS 4183

Image Not Available

LEN/DIA	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5	1.75
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
10						R				
12						R				
16						R	4 R	6 Z		
20					R	R	4 R	Z		
25			R			4 R	R	Z	R	
30			R		R	4 R	R			
35						6				
40					4 R		R			
45										
50					R	R	Z	R		
60							6			

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316) R = BRASS



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PAN PHILLIPS METAL THREAD

DIN 7985 PAN CROSS RECESSED



LEN/DIA	M1.6	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10
Pitch		0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
4	Z	Z 4	4							
5		Z 4	4	4						
6	Z	Z 4	4	4		4	4	4		
8	Z	Z 4	4	4		4	4	4		
10	Z	Z 4	4	4		4	4	4		
12		Z 4	4	4		4	4	4	4	
16		Z 4	4	4		4	4	4	4	
20		Z	4	4		4	4	4	4	
25				4		4	4	4	4	Z
30				4		4	4	4	4	Z
35				4		4	4	4	4	
40				4		4	4	4	4	Z
45						4	4	4	4	
50				4		4	4	4	4	Z
60						4	4	4	4	Z

PAN PHILLIPS METAL THREAD

BS 1981



LEN/DIA	#4	#6	#8	#10	#10	#12				
T.P.I	40	32	32	24	32	24				
Thd.	FULL	FULL	FULL	FULL	FULL	FULL				
1/4"	4	Z	Z							
3/8"	4			4	4					
1/2"	Z	Z	4 Z	4	4					
3/4"	Z	Z	Z		4	4				
1"	Z	4 Z	Z		4	4				
1.1/4"										
1.1/2"	Z	Z	Z			4				
2"						4				
2.1/2"										

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316) R = BRASS



ATOM FASTENERS LTD

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PAN POZI METAL THREAD

DIN 7985 PAN CROSS RECESSED



LEN/DIA	M2	M2.5	M3	M3.5	M4	M5	M6	M8	M10	M12
Pitch	0.4	0.45	0.5	0.6	0.7	0.8	1	1.25	1.5	1.75
Thd.	Full	Full	Full	Full	Full	Full	Full	Full	Full	Full
4										
5					Z					
6			Z		Z	Z				
8			Z		Z	Z				
10			Z		Z	Z	Z			
12			Z		Z	Z	Z			
16			Z		Z	Z	Z	Z		
20			Z		Z	Z	Z	Z		
25			Z		Z	Z	Z	Z		
30			Z		Z	Z	Z	Z		
35					Z	Z	Z			
40					Z	Z	Z	Z		
45						Z				
50					Z	Z	Z	Z		
60							Z			

EX STOCK Z= CLEAR ZINC PLATED



ATOM FASTENERS LTD

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TAP TITE HEX FLANGE SCREW

DIN 7500 Thread rolling



LEN/DIA	M3	M4	M5	M6	M8					
Pitch	0.5	0.7	0.8	1	1.25					
Hd. Hgt.	2.58	3.58	4.45	5.2	7					
A/Flats	5.5	7	8	10	13					
Flange	6.9	8.9	10.4	13	17					
6										
8		Z	Z							
10	Z	Z	Z	Z						
12		Z	Z	Z						
16		Z	Z	Z	Z					
20		Z	Z	Z	Z					
25				Z	Z					
30				Z	Z					
35					Z					
40					Z					
45					Z					
50					Z					

HAMMER DRIVE SCREWS

U DRIVE



LEN/DIA	2g	4g	6g	8g						
3/16"	4	4								
1/4"		4	4							
5/16"		4	4 R							
3/8"			4							
1/2"			Z 4							
3/4"										
1"										

EX STOCK: Z = CLEAR ZINC PLATE, 4 = STAINLESS STEEL G304, R = BRASS



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BUTTON HEXALOBULAR POST SECURITY

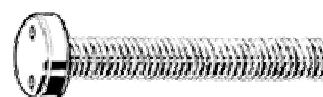


STAINLESS STEEL A2 CL.70

LEN/DIA	M4	M5	M6	M8						
Pitch	0.7	0.8	1	1.25						
Hd. Hgt.	2.2	2.75	3.3	4.4						
Socket No.	20	25	30	40						
Thd.	Full	Full	Full	Full						
10	✓		✓							
12	✓	✓	✓	✓						
16	✓	✓								
20	✓	✓	✓	✓						
25		✓	✓							
30				✓						
35										
40										
45										
50										

✓ EX STOCK

PAN HEAD SNAKE EYE SECURITY

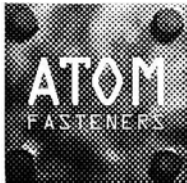


STAINLESS STEEL A2 CL.70

LEN/DIA	M4	M5	M6	M8		LEN/DIA	#6	#8	#10	#10
Pitch	0.7	0.8	1	1.25		T.P.I	32	32	32	24
Hd. Hgt.	2.2	2.75	3.3	4.4						
Socket No.	20	25	30	40						
Thd.	Full	Full	Full	Full						
10	✓									
12	✓	✓	✓	✓		1/2"		✓		✓
16	✓	✓	✓			3/4"				✓
20	✓	✓	✓	✓		1"		✓	✓	
25	✓	✓	✓							
30		✓	✓	✓						
35										
40			✓							
45										
50										

Security fasteners ranges can further be indented to order

- Self Tapping One Way Screws,
- Self Tapping Tri Wing Screws
- Security Nuts, Snap Nuts
- Security Bits,
- Security Tools,



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CSK HEAD SNAKE EYE SECURITY

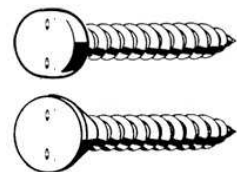
STAINLESS STEEL A2 CL.70



LEN/DIA	M4	M5	M6		LEN/DIA	#6	#8	#10	#10	
Pitch	0.7	0.8	1		T.P.I	32	32	32	24	
Hd. Hgt.	2.2	2.75	3.3							
Socket No.	20	25	30							
Thd.	Full	Full	Full							
10	✓									
12	✓	✓	✓		1/2"	✓				
16	✓	✓	✓		3/4"	✓	✓		✓	
20	✓	✓	✓		1"		✓	✓		
25	✓	✓	✓							
30		✓	✓							
35										
40			✓							
45										
50										

SELF TAPPING SNAKE EYE SECURITY SCREW

STAINLESS STEEL A2 CL.70



	PAN HEAD			CSK HEAD						
LEN/DIA	8G	10G		8G	10G	12G	14G			
1/2"	✓	✓		✓	✓					
3/4"	✓	✓		✓	✓		✓			
1"	✓	✓		✓	✓		✓			
1.1/4"	✓									
1.1/2"	✓	✓		✓	✓		✓			
1.3/4"										
2"				✓						

Security fasteners ranges can further be indented to order

- Self Tapping One Way Screws,
- Self Tapping Tri Wing Screws
- Security Nuts, Snap Nuts
- Security Bits,
- Security Tools,



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WASHERS ROUND

PAGE



LIGHT

STEEL
STEEL
BRASS
STAINLESS STEEL A2
STAINLESS STEEL A4

Zinc Plated
Zinc Plated Yellow Pass.

Washers 1
Washers 1
Washers 1
Washers 1
Washers 1



HEAVY

STEEL
STEEL
STEEL

Black
Zinc Plated
Hot Dipped Galvanised

Washers 3
Washers 3
Washers 3



DIN METRIC

DIN 125-1A STEEL
DIN 125-1A STEEL
DIN 125-1A ALUMINIUM
DIN 125-1A PLASTIC
DIN 125-1A STAINLESS STEEL A2
DIN 125-1A STAINLESS STEEL A4

Black
Zinc Plated

Washers 1
Washers 1
Washers 1
Washers 1
Washers 1
Washers 1



HARDENED

DIN 125-1A STEEL
DIN 125-1A STEEL
IMPERIAL SAE-F436
IMPERIAL SAE-F436

Black
Zinc Plated
Zinc Plated
Zinc Plated Yellow Pass

Washers 16
Washers 16
Washers 16
Washers 16



HIGH-STRENGTH STRUCTURAL

AS 1252-1983 (For Class 8.8)
DIN 6916 (For Class 10.9)
DIN 6916 (For Class 10.9)

Hot Dipped Galvanised
Black
Hot Dipped Galvanised

Washers 13
Washers 13
Washers 13



FENDER (Large,medium,small)

STEEL
STAINLESS STEEL A2
STAINLESS STEEL A4

Zinc Plated

Washers 17
Washers 17
Washers 17



ROUND EXTRA LARGE

DIN 9021 STEEL
DIN 9021 STEEL
STAINLESS STEEL A2

Black
Zinc Plated

Washers 3
Washers 3
Washers 3

CONTINUED

SPRING

PAGE



SPRING LOCK WASHERS (Single Coil)

DIN 127B & Imperial SPRING STEEL	Black	Washers 4
DIN 127B & Imperial SPRING STEEL	Hot Dipped Galvanised	Washers 4
DIN 127B & Imperial SPRING STEEL	Zinc Plated	Washers 4
DIN 127B & Imperial SPRING STEEL	Zinc Plated Yellow Pass.	Washers 4
ALUMINIUM		Washers 4
STAINLESS STEEL A2		Washers 4
STAINLESS STEEL A4		Washers 4



SPRING LOCK WASHERS (High Collar)

DIN 7980 (Single Coil) SPRING STEEL	Black	Washers 4
DIN 7980 (Single Coil) SPRING STEEL	Zinc Plated	Washers 4
STAINLESS STEEL A2		Washers 4
STAINLESS STEEL A4		Washers 4



SPRING LOCK WASHERS (Double Coil)

SPRING STEEL	Black	Washers 4
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SPRING WASHERS WAVE

DIN 137 B SPRING STEEL	Zinc Plated Yellow Pass.	Washers 4
DIN 137 B STAINLESS STEEL A2		Washers 4



SPRING WASHERS CURVED

DIN 137 A SPRING STEEL	Zinc Plated Yellow Pass	Washers 4
------------------------	-------------------------	-----------



SPRING LOCK WASHERS CURVED

DIN 128 A SPRING STEEL	Zinc Plated	Washers 4
DIN 128 A SPRING STEEL	Zinc Plated Yellow Pass.	Washers 4
DIN 128 A STAINLESS STEEL A2		Washers 4
DIN 128 A PHOSPHOR BRONZE CU4		Washers 4

LOCKING SERRATED



COUNTERSUNK SERRATED LOCK WASHERS

DIN 6798 V SPRING STEEL	Zinc Plated	Washers 5
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DOUBLE SERRATED LOCK WASHERS (Int/Ext)

E27-626 SPRING STEEL	Zinc Plated	Washers 5
----------------------	-------------	-----------



SERRATED LOCK WASHERS Internal Teeth

DIN 6798 J SPRING STEEL	Zinc Plated	Washers 5
DIN 6798 J STAINLESS STEEL A2		Washers 5
DIN 6798 J STAINLESS STEEL A4		Washers 5



SERRATED LOCK WASHERS External Teeth

DIN 6798 A SPRING STEEL	Zinc Plated	Washers 5
DIN 6798 A STAINLESS STEEL A2		Washers 5
DIN 6798 A STAINLESS STEEL A4		Washers 5

CONTINUED

LOCKING TOOTHED

PAGE



TOOTHED LOCK WASHERS Internal Teeth

DIN 6797 J SPRING STEEL
DIN 6797 J STAINLESS STEEL A2

Zinc Plated

Washers 5
Washers 5



Toothed Lock Washers External Teeth

DIN 6797 A SPRING STEEL
DIN 6797 A STAINLESS STEEL A2

Zinc Plated

Washers 5
Washers 5

LOCK WASHER



CONTACT

Type P

Zinc Plated Mechanical

Washers 6

LOCK WASHER



TAB (Long Tab and wing)

DIN 463 STEEL
DIN 463 STAINLESS STEEL A2

Self Colour

Washers 6
Washers 6

DISC SPRINGS



DISC SPRING

DIN 2093 B Critical Type B medium
DIN 2093 C Critical Type C light

Black Phosphated
Black Phosphated

Washers 7
Washers 7

DIN 2093 A Type A heavy
DIN 2093 B Type B medium
DIN 2093 C Type C light

Black Phosphated
Black Phosphated
Black Phosphated

Washers 7
Washers 7
Washers 7



CONICAL SPRING WASHERS

DIN 6796 For Bolted Connections

Zinc Plated Mech. Yellow

Washers 6



LOCKING DISC SPRING SK

SK Type M Steel
SK Type M Stainless Steel A4
SK Type Z

Dacromet 320
To Order
Dacromet 320

VIBRATION PROOF WASHERS



NORD-LOCK

STEEL Two piece – glued
STAINLESS STEEL Two piece – glued
STEEL Two piece – glued Large O.D.

Zinc Plated Mechanical

Washers 8

Zinc Plated Mechanical

Washers 8
Washers 8

SERRATED SAFTEY WASHERS LOCKING DISC SPRING



SCHNORR

SPRING STEEL Type S
SPRING STEEL Type S
STAINLESS STEEL A2 Type S
SPRING STEEL Type VS

Black
Zinc Plated Mechanical
Zinc Plated Mechanical

Washers 9
Washers 9
Washers 9
Washers 9

CONTINUED

SHAFT RETAINING RINGS- CIRCLIPS

PAGE



EXTERNAL

DIN 471 SPRING STEEL
DIN 471 STAINLESS STEEL A2

Self Colour

Washers 10
Washers 10



INTERNAL

DIN 472 SPRING STEEL
DIN 472 STAINLESS STEEL A2

Self Colour

Washers 11
Washers 11

SHAFT RETAINING WASHERS – E-CLIPS



EXTERNAL

DIN 6799 SPRING STEEL
DIN 4799 STAINLESS STEEL A2

Self Colour

Washers 12
Washers 12

SHAFT FIXING WASHER



PUSH ON FIXES

With-out cap Steel
With cap Type A (Stainless Steel)

Bronze/varnish
Bronze/varnish/St.St

Washers 12
Washers 12

SHIM RINGS



SHIM WASHERS

DIN 988 STEEL

Self Colour

Washers 14

SQUARE WASHERS



SQUARE WASHERS

STEEL
STAINLESS STEEL A2
STAINLESS STEEL A4

Hot Dipped Galvanised

Washers 13
Washers 13
Washers 13

SEALING RINGS



SEALING RINGS

DIN 7603 COPPER ANNEALED
DIN 7603 ALUMINUM

Washers 13
Washers 13

TAPER WASHERS



TAPER WASHERS

STEEL

Hot Dipped Galvanised

Washers 13

STRUCTURAL WASHERS



STRUCTURAL WASHERS

AS1252

Hot Dipped Galvanised

Washers 13

ROOFING SEAL WASHERS

ROOFING SEAL WASHERS

NEOPRENE
Embossed aluminum
EPDM

To Order
To Order
To Order

Washers 14
Washers 14
Washers 14

CYCLONE WASHERS

CYCLONE

To Order

Washers 14



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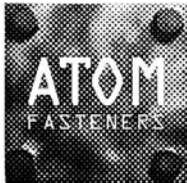
WASHERS DIN125 and DIN 126



DIAMETER	DIN 125	M1.6	M1.7	M2.0	M2.3	M2.5	M2.6	M3
Outside Dia.	Max	4	4.5	5	6	6	7	7
Thickness	Nominal	.0.3	0.3	0.3	0.5	0.5	0.5	0.5
STEEL MILD	SELF.COLOUR							
	ZINC CLEAR	✓		✓		✓		✓
	ZINC YELLOW							
STEEL H/T	SELF.COLOUR							
	ZINC CLEAR							
STEEL CI.10	SELF.COLOUR							
STAINLESS STEEL	A2 (G304)	✓		✓				✓
	A4 (G316)	✓		✓		✓		✓
ALUMINIUM	P40 OR P60							✓*
BRASS				✓		✓		✓
PLASTIC	PA NYLON			✓		✓		✓
FIBRE								✓*

DIAMETER	DIN 125	M3.5	M4	M5	M6	M7	M8	M10
Outside Dia.	Max	8	9	10	12	14	16	20
Thickness	Nominal	0.5	0.8	1	1.6	1.6	1.6	2
STEEL MILD	SELF.COLOUR							
	HOT DIP GALV							
	ZINC CLEAR	✓	✓	✓	✓	✓	✓	✓
	ZINC YELLOW			✓	✓		✓	✓
STEEL H/T	SELF.COLOUR				✓		✓	✓
	ZINC CLEAR				✓		✓	✓
STEEL CI.10	SELF.COLOUR							
STAINLESS STEEL	A2 (G304)	✓	✓	✓	✓		✓	✓
	A4 (G316)	✓	✓	✓	✓	✓	✓	✓
ALUMINIUM	P40 OR P60		✓*	✓*	✓*		✓*	✓*
BRASS			✓	✓	✓	✓	✓	✓
KUPRODUR	CU5							
PLASTIC	NYLON		✓	✓	✓		✓	✓
FIBRE			✓*					✓*

* not Din Standard dimensions
CONTINUED



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WASHERS DIN125 and DIN 126

(NF: E25-513) as noted *



DIAMETER	DIN 125	M12	M14	M16	M18	M20	M22	M24
Outside Dia.	Max	24	28	30	34	37	39	44
Thickness	Nominal	2.5	2.5	3.0	3.0	3.0	3.0	4.0
STEEL MILD	SELF.COLOUR							
	HOT DIP GALV							
	ZINC CLEAR		(30) ✓		(36) ✓		(45) ✓	
	ZINC YELLOW			✓				
STEEL H/T	SELF.COLOUR	✓	✓	✓	✓	✓	✓	✓
	ZINC CLEAR	✓	✓	✓	✓	✓	✓	✓
STEEL CI.10 (DIN 9616)	SELF.COLOUR	✓		✓		✓	✓	✓
	HOT DIP GALV	✓		✓		✓	✓	✓
STAINLESS STEEL	A2 (G304)	✓	✓	✓	✓	✓	✓	✓
	A4 (G316)	✓	✓	✓	✓	✓	✓	✓
ALUMINIUM	AG3	✓*		*				
BRASS		✓	✓	✓	✓	✓	✓	✓
PLASTIC	NYLON	✓		✓		✓		✓

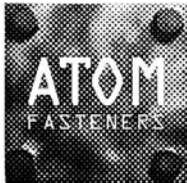
* not Din Standard dimensions

DIAMETER	DIN 125/126*	M27	M30	M33	M36	M39*	M42*	M45*
Outside Dia.	Max	50	56	60	66	72/75*	78/80*	85
Thickness	Nominal	4.0	4.0	5.0	5.0	6/6*	7/6*	7
STEEL MILD	SELF.COLOUR					(75) ✓	(80) ✓*	✓
	HOT DIP GALV					✓	✓	✓
	ZINC CLEAR							
STEEL H/T	SELF.COLOUR	✓	✓	✓	✓			
	ZINC CLEAR	✓	✓	✓	✓			
STEEL CI.10 (DIN 9616)	SELF.COLOUR	✓	✓					
	HOT DIP GALV	✓	✓		✓			
STAINLESS STEEL	A2 (G304)	✓	✓	✓	✓			
	A4 (G316)	✓	✓	✓	✓			

DIAMETER	DIN 126/NF*	M48	M52	M56	M60	M64	M68	M72
Outside Dia.	Max	90/92	98/100	105	110	115		172
Thickness	Nominal	7/8	8/8	9	9	9		10
STEEL MILD	SELF.COLOUR	(90) ✓	(100) ✓	✓*	✓	✓		✓
	HOT DIP GALV	✓	✓	✓	✓	✓		
	ZINC CLEAR							
STEEL H/T	SELF.COLOUR							
	ZINC CLEAR							

DIAMETER	DIN 126	M76	M80	M90	M100	M110	
Outside Dia.	Max		140	160			
Thickness	Nominal		12	12			
STEEL MILD	SELF.COLOUR		✓	✓			
	HOT DIP GALV						

✓ = STOCK ITEMS Other sizes available to order Washer to New Zealand Dimensions also carried



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WASHERS LARGE



DIAMETER		M6	M8	M10	M12	M12	M16	M18
Outside Dia.	Max	19	21	24	28	50	34	
Thickness	Nominal	2.5	2.5	2.5	2.5	3.0	3.0	
Steel		G Z	B G Z	B G Z	B G Z	G	B G Z	

DIAMETER		M20	M20	M20	M20	M22	M24	M24
Outside Dia.	Max	39	50	50	65	47.5	44	50
Thickness	Nominal	3.0	3.0	6.0	6.0	3.0	3.0	3.0
Steel		B G Z	6	G	G	G	4 6	B G Z

DIAMETER		M27	M30	M33	M36	M42	M48	M56
Outside Dia.	Max	60	60	67	72	85	96	95
Thickness	Nominal	3.0	3.0	3.0	3.0	3.0	3.0	6
Steel		G	G Z	B G	B G Z	G	B G	B

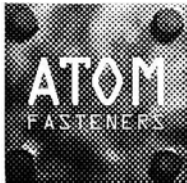
EX STOCK B = BLACK, G = HOT DIP GALV, Z = CLEAR ZINC PLATE 4 = STAINLESS STEEL A2 (G304) 6 = STAINLESS STEEL A4 (G316)

WASHERS DIN 9021



DIAMETER		M12	M14	M16	M18	M20	M22	M24
Outside Dia.	Max	37	44	50	56	60		72
Thickness	Nominal	3.0	3.0	3.0	4.0	4.0		5.0
Steel		Z	Z	Z 4	Z	Z		Z

EX STOCK B = BLACK, G = HOT DIP GALV, Z = CLEAR ZINC PLATE 4 = STAINLESS STEEL A2 (G304) 6 = STAINLESS STEEL A4 (G316)








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WASHERS SPRING

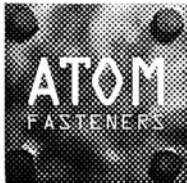
STEEL and STAINLESS STEEL

															
	SPRING LOCK WASHERS			SPRING LOCK WASHERS HIGH COLLAR			WAVE SPRING WASHERS			CURVE SPRING WASHERS			CURVED SPRING LOCK WASHERS		
	DIN 127 B			DIN 7980			DIN 137 B			DIN 137 A			DIN 128 A		
DIA. BOLT	O.D	THK	FINISH	O.D	THK	FINISH	O.D	THK	FINISH	O.D	THK	FINISH	O.D	THK	FINISH
M2	4.4	0.5	4							4.5	0.3		4.4	0.5	
M2.5	5.2	0.6	4							5	0.3		5.1	0.6	Z
M3	6.2	0.8	Z 4 6	5.6	1	Z 4 6	8	0.5	Y 4	6	0.4		6.2	0.7	P Z
M3.5	6.7	0.8	Z							7	0.4		6.7	0.7	
M4	7.6	0.9	Z 4 6	7	1.2	Z 4 6	9	0.5	Y 4	8	0.5		7.6	0.8	P Z
M5	9.2	1.2	Z 4 6	8.8	1.6	Z 4 6	11	0.5	Y 4	10	0.5	Y	9.2	1	P Z
M6	9.2	1.6	G Z 4 6	9.9	1.6	Z 4 6	12	0.5	Y 4	11	0.5	Y	11.8	1.3	P Z
M7	12.8	1.6	Y				14	0.8		12	0.5		12.7	1.3	Z
M8	14.8	2	A G Z 4 6	12.7	2	Z 4 6	15	0.58	Z 4	15	0.5	Y	14.8	1.6	P Z
M10	18.1	2.2	A G Z 4 6	16	2.5	Z 4 6	21	1	Y 4	18	0.8	Y	16.1	1.8	P Z
M12	21.1	2.5	B G Z 4 6	18	2.5	Z 4 6	24	1.2	Y 4				21.1	2.1	P Z
M14	24.1	3	Z	21.1	3	Z	28	1.6					24.1	2.4	Z
M16	27.4	3.5	G Z 4 6	24.4	3.5	Z 6	30	1.6	B 4				27.4	2.8	P Z
M18	29.4	3.5	G Z 4 6	26.4	3.5	6							29.4	2.8	Z
M20	33.6	4	G Z 4 6	30.6	4.5	Z 6	36	1.6	B 4				33.6	3.2	Z
M22	35.9	4	Z 4 6	32.9	4.5	Z	40	1.8					35.9	3.2	Z
M24	40	5	G Z 4 6	35.9	5	Z 6	44	1.8	4				40	4	Z
M27	43	5	B G Z	38.9	5	Z							43	4	Z
M30	48.2	6	B G Z	44.1	6	Z							48.2	6	Z
M33	55.2	6	B Z										54.2	6	
M36	58.2	6	B Z	52.2	7								58.2	6	
M39	61.2	6	B										58.6	6	
M42	68.2	7	B										68.2	7	
M45	71.2	7	B										70.5	7	
M48	75	7	B										75	7	
M52	83	8	B												
M56	87	8	B												
M60	91	8	B												
M64	95	8	B												
M68	99	8	B												
M72	106	8	B												
M76	107	8	B												

ALUMINIUM SPRING WASHER VARY

FINISHES: A= ALUMINIUM B=BLACK G= HOT DIPPED GALVANISED P= PHOSPHOR BRONZE Cu4 Z= ZINC CLEAR
Y = YELLOW ZINC PLATED/PASSIVATED or MECHANICAL 4 = A2(G304) ST/STEEL 6 = A4(G316)ST/STEEL






DOUBLE COIL SPRING WASHERS	M6	M8	M10	M12	M16	M20
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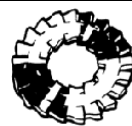
WASHERS LOCKING SERRATED STEEL and STAINLESS STEEL

															
	COUNTERSUNK SERRATED			SERRATED INTERNAL TEETH			SERRATED EXTERNAL TEETH			TOOTHED INTERNAL TEETH			TOOTHED EXTERNAL TEETH		
	DIN 6798 V			DIN 6798 J			DIN 6798 A			DIN 6797 J			DIN 6797 A		
DIA. BOLT	O.D	THK	FINISH	O.D	THK	FINISH	O.D	THK	FINISH	O.D	THK	FINISH	O.D	THK	FINISH
M2				4.5	0.3	Z	4.5	0.3	Z 4			Z			Z
M2.5				5.5	0.4	Z	5.5	0.4	Z			Z 4			
M3	6	0.2	Z	6	0.4	Z 4	6	0.4	Z 4	6	0.4	Z 4	6	0.4	B Z 4
M3.5				7	0.5	Z	7	0.5	4			Z			
M4	8	0.25	Z	8	0.5	Z 4	8	0.5	Z 4	8	0.5	Z 4	8	0.5	B Z 4
M5	9.8	0.3	Z	9	0.5	Z 4	10	0.6	Z 4	10	0.6	Z 4	10	0.6	B Z 4
M6	11.8	0.4	Z	11	0.7	Z 4	11	0.7	Z 4	11	0.7	Z 4	11	0.7	B Z 4
M7				12.5	0.8	Z	12.5	0.8	Z						
M8	15.3	0.4	Z	14	0.8	Z 4	15	0.8	Z 4	15	0.8	Z 4	15	0.8	Z 4
M10	19	0.5	Z	18	0.9	Z 4	18	0.9	Z 4	18	0.9	Z 4	18	0.9	Z 4
M12	23	0.5	Z	20.5	1	Z 4	20.5	1	B Z 4	20.5	1	Z 4	20.5	1	Z 4
M14	26.2	0.6	Z	24	1.1	Z	24	1	Z 4			Z			Z
M16	30.2	0.6	B	26	1.2	Z	26	1.	Z	26	1.2	Z 4 6	26	1.2	Z 4
M18				30	1.4	Z	30	1.4	Z						
M20				33	1.4	Z	33	1.4	Z	33	1.4	B Z 4	33	1.4	Z
M22				36	1.5	Z	36	1.5	Z			Z			Z
M24				38	1.5	Z	38	1.6	Z			Z			Z
M27				44	1.6	B	44	1.6	Z						
M30				48	1.6	B	48	1.6	B						

FINISHES: B=BLACK Z= ZINC CLEAR Y = YELLOW ZINC PLATED/PASSIVATED or MECHANICAL

4 = A2(G304) ST/STEEL 6 = A4(G316) ST/STEEL

DOUBLE SERRATED INT/EXT



E27-626

DIA. BOLT	I.D	O.D	Thick.	FINISH	DIA. BOLT	I.D	O.D	Thick.	FINISH
M4	4.2	15.6	0.8	Z	M10	10.3	12.3	1.1	B Z
M5	5.2	17.9	0.8	Z	M12	12.3	30.3	1.2	Z
M6	6.2	18.2	0.8	Z	M16	16.5	36.1	1.4	Z
M8	8.2	22.6	1.0	Z					



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CONTACT-LOCK WASHERS

STEEL TYPE P



DIA. BOLT	I.D	O.D	Thick.	Height max	STEEL M/YZP	DIA. BOLT	I.D	O.D	Thick.	Height max	STEEL M/YZP
M4	4.1	8	0.8	1.15	✓	M8	8.2	14	1.4	2.0	✓
M5	5.1	10	1	1.5	✓	M10	10.2	20	1.6	2.6	✓
M6	6.1	12	1.2	1.8	✓	M12	12.4	24	1.6	2.6	✓

✓ EX STOCK FOR USE WITH Fasteners Cl. 10.9 Ribbed upper-side, 6 Prongs under-side

TAB WASHERS

DIN 463 STEEL and STAINLESS STEEL

LONG TAB with WING



DIA. BOLT	I.D	O.D	Thickness	LEG		STEEL	ST/STEEL A2	DIA. BOLT	I.D	O.D	Thickness	LEG		STEEL	ST/STEEL A2
				LL.	SW							LL.	SW.		
M6	6.4	12.5	0.5	18	9	✓	✓	M16	17	30	1	32	18	✓	✓
M8	8.4	17	0.75	20	11	✓	✓	M18	19	34	1	36	20	✓	✓
M10	10.5	21	0.75	22	13	✓	✓	M20	21	37	1	36	21	✓	✓
M12	13	24	1	28	15	✓	✓	M22	23	39	1	42	23	✓	✓
M14	15	28	1	28	16	✓	✓	M24	25	44	1	42	25	✓	✓

✓ EX STOCK

CONICAL DISC SPRING WASHERS

DIN 6796 STEEL FOR BOLTED CONNECTIONS



DIA. BOLT	I.D	O.D	Thick.	Height max	STEEL M/YZP	DIA. BOLT	I.D	O.D	Thick.	Height max	STEEL M/YZP
M3	3.2	7	0.6	0.85	✓	M12	13	29	3	3.95	✓
M4	4.3	9	1	1.3	✓	M14	15	35	3.5	4.65	✓
M5	5.3	11	1.2	1.55	✓	M16	17	39	4	5.25	✓
M6	6.4	14	1.5	2	✓	M20	21	45	5	6.4	✓
M8	8.4	18	2	2.6	✓	M22	23	49	5.5	7.05	✓ blk
M10	10.5	23	2.5	3.2	✓	M24	25	56	6	7.75	✓

✓ EX STOCK FOR USE WITH Fasteners Cl. 8.8 and Cl. 10.9 Static Loading



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DISC SPRINGS STEEL

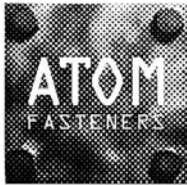
DIN 2093 TYPE A, TYPE B, TYPE C.

Includes Non DIN 2093



OUTSIDE DIA	INSIDE DIA	THK	Type	STK	OUTSIDE DIA	INSIDE DIA	THK	Type	STK	OUTSIDE DIA	INSIDE DIA	THK	Type	STK
8	4.2	0.2	C	✓	31.5	12.2	1.0	Gen	✓	63	31.0	1.8	C	✓
8	4.2	0.3	B	✓						63	31.0	2.5	B	✓
8	4.2	0.4	A	✓	31.5	16.3	0.8	C	✓	63	31.0	3.5	A	✓
					31.5	16.3	1.25	B	✓					
10	5.2	0.25	C	✓	31.5	16.3	1.75	A	✓	71	36.0	2.0	C	✓
10	5.2	0.4	B	✓	31.5	16.3	2.0	Gen	✓	71	36.0	2.0	B	✓
10	5.2	0.5	A	✓						71	36.0	4.0	A	✓
12	5.2	0.6	Crit	✓	34	16.3	1.5	Gen	✓					
					34	16.3	2.0	Gen	✓	80	31.0	3.0	Crit	✓
12.5	6.2	0.35	C	✓										
12.5	6.2	0.5	B	✓	35.5	18.3	0.9	C	✓	80	41.0	2.25	C	✓
12.5	6.2	0.7	A	✓	35.5	18.3	1.25	B	✓	80	41.0	3.0	B	✓
					35.5	18.3	2.0	A	✓	80	41.0	4.0	C	✓
14	7.2	0.35	C	✓						80	41.0	5.0	A	✓
14	7.2	0.5	B	✓	40	20.4	1.0	C	✓					
14	7.2	0.8	A	✓	40	20.4	1.5	B	✓	90	46.0	2.5	C	✓
					40	20.4	2.0	Crit	✓	90	46.0	3.5	B	✓
16	8.2	0.4	C	✓	40	20.4	2.25	A	✓	90	46.0	5.0	A	✓
16	8.2	0.6	B	✓										
16	8.2	0.9	A	✓	45	22.4	1.25	C	✓	100	41.0	4.0	Crit	✓
					45	22.4	1.75	B	✓					
18	8.2	1.0	Crit	✓	45	22.4	2.5	A	✓	100	51.0	2.7	C	✓
										100	51.0	3.5	B	✓
18	9.2	0.45	C	✓	45	22.4	1.25	C	✓	100	51.0	5.0	Crit	✓
18	9.2	0.7	B	✓	45	22.4	1.75	B	✓	100	51.0	6.0	A	✓
18	9.2	1.0	A	✓	45	22.4	2.5	A	✓					
										112	57.0	3.0	C	✓
20	10.2	0.5	C	✓	50	18.4	2.0	Crit	✓	112	57.0	4.0	B	✓
20	10.2	0.8	B	✓						112	57.0	6.0	A	✓
20	10.2	1.0	Crit	✓	50	20.4	2.0	Crit	✓					
20	10.2	1.1	A	✓						125	51.0	6.0	Crit	✓
					50	25.4	1.25	C	✓					
22.5	11.2	0.6	C	✓	50	25.4	2.0	B	✓	125	61.0	6.0	Crit	✓
22.5	11.2	0.8	B	✓	50	25.4	2.5	Gen	✓	125	64.0	3.5	Crit	✓
22.5	11.2	1.25	A	✓	50	25.4	3.0	A	✓					
										150	61.0	6.0	Crit	✓
23	12.2	1.25	Gen	✓	56	28.5	1.5	C	✓					
					56	28.5	2.0	B	✓	150	81	8.0	Crit	✓
25	12.2	0.7	C	✓	56	28.5	3.0	A	✓					
25	12.2	0.9	B	✓										
25	12.2	1.5	A	✓	60	20.4	2.5	Crit	✓	200	92	10.0	Crit	✓
28	14.2	0.8	C	✓	60	25.4	2.5	Gen	✓	200	112	12.0	Crit	✓
28	14.2	1.0	B	✓										
28	14.2	1.25		✓	60	30.5	2.5	Gen	✓	250	127	16.0	Crit	✓
28	14.2	1.5	A	✓	60	30.5	3.5	Gen	✓					

EX STOCK = ✓ STEEL Phosphated TYPE A = HEAVY. TYPE B = MEDIUM. TYPE C = LIGHT. Gen = DIN 2093 not A, B or C
 Crit = DISC SPRINGS FOR CRITICAL APPLICATIONS [STAINLESS STEEL TYPE A TO ORDER](#)



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VIBRATION PROOF WASHERS

STEEL and STAINLESS STEEL (NORD-LOCK) WASHER
Preassembled Pairs



DIA. BOLT	STEEL				Torque 8.8 Nm	Torque 10.9 Nm	DIA. BOLT	STAINLESS STEEL				Torque A4-70
	I.D	O.D	Thick.	STOCK				I.D	O.D	Thick	STOCK	
M3	3.4	7.0	1.8	✓	1.3	1.8	M3 ss	3.4	7.0	2.2	✓	0.9
M3.5	3.9	7.6	1.8	✓			M3.5ss	3.9	7.6	2.2	✓	
M3.5sp	3.9	9.0	1.8	✓			M3.5spss	3.9	9.0	2.2		
M4	4.4	7.6	1.8	✓	3.1	4.1	M4 ss	4.4	7.6	2.2	✓	2.0
M4 sp	4.4	9.0	1.8	✓			M4 spss	4.4	9.0	2.2		
M5	5.4	9.0	1.8	✓	6.0	8.1	M5 ss	5.4	9.0	2.2	✓	3.9
M5 sp	5.4	10.8	1.8	✓			M5 spss	5.4	10.8	2.2		
M6	6.5	10.8	1.8	✓	9.7	14.1	M6 ss	6.5	10.8	2.2	✓	6.9
M6 sp	6.5	13.5	2.5	✓			M6 spss	6.5	13.5	2.2	✓	
1/4"	7.2	11.5	1.8	✓			1/4" ss	7.2	11.5	2.2		
1/4" sp	7.2	13.5	2.5	✓			1/4" spss	7.2	13.5	2.2		
M8	8.7	13.5	2.5	✓	25	34	M8 ss	8.7	13.5	2.2	✓	17
M8 sp	8.7	16.6	2.5	✓			M8 spss	8.7	16.6	2.2	✓	
3/8"	10.3	16.6	2.5	✓			3/8" ss	10.3	16.6	2.2		
3/8" sp	10.3	21.0	2.5	✓			3/8" spss	10.3	21.0	2.2		
M10	10.7	16.6	2.5	✓	49	67	M10 ss	10.7	16.6	2.2	✓	33
M10 sp	10.7	21.0	2.5	✓			M10 spss	10.7	21.0	2.2	✓	
M11	11.4	18.5	2.5	✓			M11 ss	11.4	18.5	2.2		
M12	13.0	19.5	2.5	✓	85	115	M12 ss	13.0	19.5	2.2	✓	56
M12 sp	13.0	25.4	3.4	✓			M12 spss	13.0	25.4	3.2	✓	
1/2"	13.5	19.5	2.5	✓			1/2" ss	13.5	19.5	2.2		
1/2" sp	13.5	25.4	3.4	✓			1/2" spss	13.5	25.4	3.2		
M14	15.2	23.0	3.4	✓	135	183	M14 ss	15.2	23.0	3.2	✓	89
M14 sp	15.2	30.7	3.4	✓			M14 spss	15.2	30.7	3.2	✓	
M16	17.0	25.4	3.4	✓	205	279	M16 ss	17.0	25.4	3.2		136
M16 sp	17.0	30.7	3.4	✓			M16 spss	17.0	30.7	3.2	✓	
M18	19.5	29.0	3.4	✓	288	391	M18 ss	19.5	29.0	3.2	✓	191
M18 sp	19.5	34.5	3.4	✓			M18 spss	19.5	34.5	3.2	✓	
3/4"	20.0	30.7	3.4	✓			3/4" ss	20.0	30.7	3.2		
3/4" sp	20.0	39.0	3.4	✓			3/4" spss	20.0	39.0	3.2		
M20	21.4	30.7	3.4	✓	402	547	M20 ss	21.4	30.7	3.2	✓	267
M20 sp	21.4	39.0	3.4	✓			M20 spss	21.4	39.0	3.2	✓	
M22	23.4	34.5	3.4	✓	548	745	M22 ss	23.4	34.5	3.2	✓	364
M22 sp	23.4	42.0	4.6	✓			M22 spss	23.4	42.0	3.2		
M24	25.3	39.0	3.4	✓	693	942	M24 ss	25.3	39.0	3.2	✓	460
M24 sp	25.3	48.5	4.6	✓			M24 spss	25.3	48.5	3.2	✓	
1"	27.9	39.0	3.4	✓			1" ss	27.9	39.0	3.2		
1" sp	27.9	48.5	4.6	✓			1" spss	27.9	48.5	3.2		
M27	28.4	42.0	6.6	✓	1010	1375	M27 ss	28.4	42.0	6.8	✓	671
M27 sp	28.4	48.5	6.6	✓			M27 spss	28.4	48.5	6.8		
M30	31.4	47.0	6.6	✓	1379	1875	M30 ss	31.4	47.0	6.8	✓	915
M30 sp	31.4	58.5	6.6	✓			M30 spss	31.4	58.5	6.8		
M33	34.4	48.5	6.6	✓	1855	2526	M33 ss	34.4	48.5	6.6		1233
M33 sp	34.4	58.5	6.6				M33 spss					
M36	37.4	55.0	6.6	✓	2394	3259	M36 ss	37.4	55.0	6.8		1591
M36 sp	37.4	63.0	6.6				M36 spss					
M39	40.4	58.5	6.6	✓	3087	4203	M39 ss	40.4	58.5	6.8		2053
M42	43.2	63.0	6.6	✓	3820	5202	M42 ss	43.2	63.0	6.8	✓	2540
M45	46.2	70.0	7.0	✓			M45 ss	46.2	70.0	9.0		
M48	49.6	75.0	7.0	✓			M48 ss	49.6	75.0	9.0		

STEEL finish ZINC FLAKE, ss = STAINLESS STEEL, sp = Large Outside Dia:

Torque in Nm with ZP/Lightly Oiled Bolt, Black 10.9 Bolt or A4-70 Stainless Steel Bolt



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SERRATED LOCKING DISC SPRING SAFETY WASHERS

STEEL and STAINLESS STEEL (SCHNORR) WASHER



DIA. BOLT	I.D	O.D	Type S Thickness	STEEL TYPE S BLACK	STEEL TYPE S M/ZINC PLATED	ST/ STEEL A2	Type VS Thickness	STEEL TYPE VS BLACK	STEEL TYPE S M/ZINC PLATED
M2.5	2.7	4.8	0.45			✓			
M3	3.2	5.5	0.45	✓	✓	✓			
M4	4.3	7	0.5	✓	✓	✓			
M5	5.3	9	0.6	✓	✓	✓	1	✓	✓
M6	6.4	10	0.7	✓	✓	✓	1	✓	✓
M8	8.4	13	0.8	✓	✓	✓	1.2	✓	✓
M10	10.5	16	1	✓	✓	✓	1.5	✓	✓
M12	13	18	1.1	✓	✓	✓	1.5	✓	✓
M14	15	22	1.2	✓	✓	✓	1.5	✓	✓
M16	17	24	1.3	✓	✓	✓	2	✓	✓
M18	19	27	1.5	✓	✓				
M20	21	30	1.5	✓	✓	✓	2	✓	✓
M22	23	33	1.5	✓	✓				
M24	25.6	36	1.8	✓	✓	✓	2.5	✓	✓
M27	28.6	39	2	✓	✓		2.5	✓	✓
M30	31.6	45	2	✓	✓	✓			

Type S for use with 8.8 bolts Type VS for use with 10.9 bolts



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CIRCLIPS EXTERNAL

DIN 471 STEEL and STAINLESS STEEL



SHAFT DIA. mm	STEEL	ST/STEEL	SHAFT DIA. mm	STEEL	ST/STEEL	SHAFT DIA. mm	STEEL	ST/STEEL
3	✓		37	✓		95	✓	✓
4	✓	✓	38	✓	✓	97		
5	✓	✓	39	✓		98		
6	✓	✓	40	✓		100	✓	✓
7	✓	✓	42	✓		105	✓	
8	✓		44	✓		110	✓	
9	✓	✓	45	✓	✓	115	✓	
10	✓	✓	47	✓		120	✓	
11	✓	✓	48	✓	✓	125	✓	
12	✓	✓	50	✓	✓	130	✓	
13	✓	✓	52	✓	✓	135	✓	
14	✓	✓	54	✓		140	✓	
15	✓	✓	55	✓	✓	145	✓	
16	✓	✓	56	✓		150	✓	
17	✓		57	✓		155	✓	
18	✓	✓	58	✓	✓	160	✓	
19	✓		60	✓	✓	165	✓	
20	✓	✓	62	✓	✓	170	✓	
21	✓		63	✓		175	✓	
22	✓	✓	65	✓	✓	180	✓	
23			67	✓		185	✓	
24	✓	✓	68	✓		190	✓	
25	✓	✓	70	✓	✓	195	✓	
26	✓		72	✓		200	✓	
27	✓		75	✓	✓	210	✓	
28	✓	✓	77	✓		220	✓	
29	✓		78	✓		230	✓	
30	✓	✓	80	✓	✓	240	✓	
31			82	✓		250	✓	
32	✓	✓	85	✓	✓	260	✓	
33			87	✓		270	✓	
34	✓	✓	88	✓		280	✓	
35	✓	✓	90	✓	✓	290	✓	
36	✓	✓	92	✓		300	✓	

✓ EX STOCK



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CIRCLIPS INTERNAL

DIN 472 STEEL and STAINLESS STEEL



SHAFT DIA. mm	STEEL	ST/STEEL	SHAFT DIA. mm	STEEL	ST/STEEL	SHAFT DIA. mm	STEEL	ST/STEEL
8	✓		44	✓		100	✓	✓
9	✓		45	✓	✓	102	✓	
10	✓	✓	46	✓		105	✓	
11	✓	✓	47	✓		108	✓	
12	✓	✓	48	✓	✓	110	✓	
13	✓	✓	50	✓	✓	112	✓	
14	✓	✓	51	✓		115	✓	
15	✓	✓	52	✓		117	✓	
16	✓	✓	53	✓		120	✓	
17	✓	✓	54	✓		125	✓	
18	✓	✓	55	✓		130	✓	
19	✓	✓	56	✓		135	✓	
20	✓	✓	57	✓		140	✓	
21	✓		58	✓	✓	145	✓	
22	✓	✓	60	✓	✓	150	✓	
23	✓		62	✓	✓	155	✓	
24	✓	✓	63	✓		160	✓	
25	✓	✓	64	✓	✓	165	✓	
26	✓	✓	65	✓		170	✓	
27	✓		67	✓		175	✓	
28		✓	68	✓		180	✓	
29	✓		70	✓		185	✓	
30	✓	✓	72	✓	✓	190	✓	
31	✓		75	✓	✓	195	✓	
32	✓	✓	77	✓		200	✓	
33	✓		78	✓	✓	210	✓	
34	✓		80	✓	✓	220	✓	
35	✓	✓	82	✓		230	✓	
36	✓	✓	85	✓		240	✓	
37	✓	✓	87	✓		250	✓	
38	✓	✓	88	✓		260	✓	
39	✓		90	✓	✓	270	✓	
40	✓	✓	92	✓		280	✓	
41	✓		95	✓		290	✓	
42	✓		97			300	✓	
43	✓		98	✓				

✓ EX STOCK



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SHAFT RETAINING WASHERS

DIN 6799 STEEL and STAINLESS STEEL (E CLIPS)



GROOVE DIA. mm	STEEL		ST/STEEL	GROOVE DIA. mm	STEEL		ST/STEEL	GROOVE DIA. mm	STEEL		ST/STEEL
	BLK	ZP			BLK	ZP			BLK	ZP	
1.2 mm	✓			4 mm	✓			10 mm	✓	✓	✓
1.5 mm	✓			5 mm	✓	✓	✓	12 mm	✓	✓	✓
1.9 mm	✓			6 mm	✓	✓	✓	15 mm	✓		
2.3 mm	✓			7 mm		✓		19 mm	✓		
2.5 mm			✓	8 mm	✓	✓	✓	24 mm	✓		
3.2 mm	✓		✓	9 mm	✓						

✓ EX STOCK

SHAFT FIXING WASHERS

STEEL and STAINLESS STEEL (PUSH on FIXES)

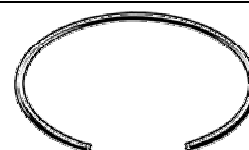


SHAFT DIA. mm	STEEL	ST/STEEL	SHAFT DIA. mm	STEEL	ST/STEEL	SHAFT DIA. mm	STEEL	ST/STEEL
2 mm	✓		8 mm	✓	✓	16 mm	✓	
3 mm	✓	✓	9 mm	✓		17 mm	✓	
1/8"	✓		10 mm	✓	✓	18 mm	✓	
4 mm	✓	✓	11 mm	✓		19 mm	✓	✓
5 mm	✓	✓	12 mm	✓	✓	20 mm	✓	✓
6 mm	✓	✓	13 mm	✓	✓	24 mm	✓	
1/4"			14 mm	✓		25 mm	✓	
7 mm	✓		15 mm	✓	✓	1"	✓	

✓ EX STOCK STEEL: FINISH IS BRONZE PLATED and Varnish
FIXING WASHERS WITH CAPS STAINLESS STEEL AVAILABLE

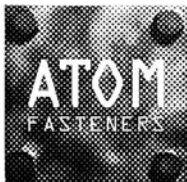
RETAING STEEL SNAP RING

DIN 7993A



SHAFT DIA. mm	STEEL	SHAFT DIA. mm	STEEL	SHAFT DIA. mm	STEEL
6mm	✓	24mm	✓	40mm	✓
8mm	✓	25mm	✓	45mm	✓
10mm	✓	26mm	✓	48mm	✓
12mm	✓	28mm	✓	50mm	
14mm	✓	30mm	✓	55mm	
16mm	✓	32mm	✓	60mm	
20mm	✓	35mm	✓	105mm	
22mm	✓	38mm	✓	120mm	

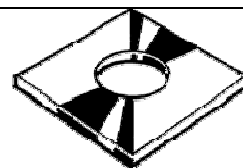
✓ EX STOCK



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SQUARE WASHERS



DIAMETER		M10	M12	M16	M20	M24	M30	M36
40 X 40 X 3		G	G					
50 X 50 X 3		G	B G 4 6	G 6	G 6	B		
50 X 50 X 6			G	G	G			
60 X 60 X 6				G	G			
80 X 80 X 6					G			
100 X 100 X 5						G		

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

HIGH STRENGTH STRUCTURAL WASHERS

EN 14399-6



DIAMETER		M12	M16	M20	M22	M24	M27	M30	M36
Outside Diameter		24	30	37	39	44	50	56	66
Thickness		3	4	4	4	4	5	5	6
Steel 10.9		G	G	G	G	G	G	G	G
Steel C45		B	B	B	B	B	B	B	B

EX STOCK: B = BLACK, G = HOT DIP GALV,

HIGH STRENGTH STRUCTURAL WASHERS

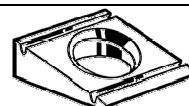
AS 1252:1996



DIAMETER		M12	M16	M20	M22	M24	M27	M30	M36
Outside Diameter max.		27	34	39	44	50	56	60	72
Thickness		4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Steel C26-C45		G	G	G	G	G	G	G	G

EX STOCK: G = HOT DIP GALV,

TAPER WASHERS



DIAMETER		M10	M12	M16	M20	M24	M30	M36
5 DEGREE		G	G	G	G			
8 DEGREE		TO ORDER						

EX STOCK: G = HOT DIP GALV,



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ROOFING SEAL WASHERS

Image Not Available

DIAMETER		12G	14G	16G				
NEOPRENE SEALING WASHER 14G FOR HWF EPDM			✓					
ROOFING SEALING WASHER 16mm Bonded		✓	✓					
ROOFING SEALING WASHER 25mm Embossed Aluminum			✓	✓				
PLATE CYCLONE WASH TRIM/ORB			✓					
CYCLONE WASH SEAL 14G x 30 EPDM			✓					

EX STOCK = ✓

NEO WASHERS

Image Not Available

DIAMETER		M3	M8	M10	M12	M16	M20	1/4"
OD. Max		19	17	21	24	30	37	1.1/4"
Thickness		1.5	1.6	1.6	1.6	1.6	1.6	3.0
Neo		✓	✓	✓	✓	✓	✓	✓

EX STOCK: = ✓

SHIM RINGS

DIN 988 STEEL 2 K 50 ACC. DIN 1624



SIZE	OD	THICKNESS	Self Colour		
8	14	0.3	✓		
8	14	0.5	✓		
8	20	0.1	✓		
10	22	0.1	✓		
12	24	0.1	✓		
14	26	0.1	✓		
16	28	0.1	✓		
18	30	0.1	✓		
20	32	0.1	✓		
22	32	0.1	✓		
24	36	0.1	✓		

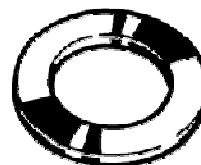
EX STOCK: = ✓



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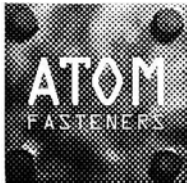
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GASKET SEAL WASHERS ANNEALED DIN 7603 & DIN 7603A



SIZE	OD	THICKNESS	Aluminum	Cooper	
5	10	1		✓	
6	10	1	✓	✓	
7	10	1		✓	
8	12	1		✓	
8	14	1	✓		
9	14	1		✓	
10	14	1	✓		
10	16	1		✓	
10.5	17	1.5		✓	
11	17	1.5		✓	
12	16	1.5		✓	
12	18	1.5	✓		
12.5	20	1.5		✓	
13	18	1.0		✓	
14	18	1.0		✓	
14	20	1.5		✓	
16	22	1.5	✓		
16	22	2.0		✓	
16.5	24	2.0		✓	
17	24	2.0		✓	
17.5	25	2.0		✓	
18	24	2.0		✓	
20	24	2.0		✓	
22	26	2.0		✓	
24	30	2.0		✓	
26	32	2.0		✓	
26	33	2.0		✓	
28	35	2.0		✓	
30	38	2.0		✓	
32	40	2.0		✓	
35	45	2.0		✓	

EX STOCK: = ✓



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HARDENED WASHERS

F436



DIAMETER		1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
Outside Dia.	Max	5/8"	11/16"	13/16"	7/8"	1"	1.5/16"	1.1/2"
Thickness	Nominal	0.08	0.08	0.08	0.08	0.177	0.177	0.177
Steel		B Y	B Y	B Y	B Y	B Y	B Y	B Y

DIAMETER		1"	1.1/8"	1.1/4"	1.1/2"	1.3/4"	2"	3"
Outside Dia.	Max	2"	1.1/4"	2.1/2"	3"	3.7/16"	3.13/16"	5.9/16"
Thickness	Nominal	0.177	0.177	0.177	0.177	0.280	0.280	0.340
Steel		B Y	B Y	B Y	B Y	B Y	B Y	B Y

EX STOCK Y = ZINC YELLOW

HARDENED WASHERS

F436 EXTRA THICK



DIAMETER		1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
Outside Dia.	Max	5/8"	11/16"	13/16"	7/8"	1"	1.5/16"	1.1/2"
Thickness	Nominal	3/32"	3/32"	1/8"	5/32"	3/16"	3/16"	3/16"
Steel		Y	Y	Y	Y	Y	Y	Y

DIAMETER		1"	1.1/8"	1.1/4"	1.1/2"			
Outside Dia.	Max	2"	1.1/4"	2.1/2"	3"			
Thickness	Nominal	1/4"	5/16"	5/16"	5/16"			
Steel		Y	Y	Y	Y			

EX STOCK Y = ZINC YELLOW

HARDENED WASHERS

DIN 125-1A (F436M)



DIAMETER		M6	M8	M10	M12	M14	M16	M18
Outside Dia.	Max	12	16	20	24	28	30	34
Thickness	Nominal	1.6	1.6	2.0	2.5	2.5	3.0	3.0
Steel		B Y	B Y	B Y	B Y	B Y	B Y	B Y

DIAMETER		M20	M22	M24	M27	M30	M33	M36
Outside Dia.	Max	37	39	44	50	56	60	66
Thickness	Nominal	3.0	3.0	4.0	4.0	4.0	5.0	5.0
Steel		B Y	B Y	B Y	B Y	B Y	B Y	B Y

EX STOCK Y = ZINC YELLOW



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FENDER WASHERS

METRIC



DIAMETER		M4	M5	M5	M5	M5	M5	M6
Outside Dia.	Max	25	20	22	25	25	32	20
Thickness	Nominal	1.6	1.3	1.6	1.2	1.6	1.6	1.6
Steel		Z	4	Z 6	4	Z	Z 6	4

DIAMETER		M6	M6	M6	M6	M6	M6	M8
Outside Dia.	Max	22	22	25	25	32	32	22
Thickness	Nominal	1.2	1.6	1.5	1.6	1.5	1.6	1.2
Steel		Z 4	4	4	Z 6	6	Z	6

DIAMETER		M8	M8	M8	M8	M10	M10	M10
Outside Dia.	Max	22	25	25	32	25	25	32
Thickness	Nominal	1.6	1.2	1.6	1.6	1.5	1.6	1.5
Steel		Z 4	4 6	Z	Z 4 6	6	Z	4

DIAMETER		M10	M12	M12				
Outside Dia.	Max	32	31	32				
Thickness	Nominal	1.6	1.5	1.6				
Steel		Z 6	4	Z 4 6				

EX STOCK: B = BLACK Z= CLEAR ZINC PLATED Y = ZINC YELLOW 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316)

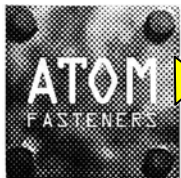
FENDER WASHERS

IMPERIAL



DIAMETER		1/4"	5/16"	3/8"	1/2"			
Outside Dia.	Max	1.1/4"	1.1/4"	1.1/4"	1.1/4"			
Thickness	Nominal	1.6	1.6	1.6	1.6			
Steel		Z	Z	Z	Z			

EX STOCK: Z= CLEAR ZINC PLATED



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RIVETS and PINS

PINS SOLID

PAGE



TAPERED

DIN 1 B STEEL
STAINLESS STEEL

1mm to 20mm Dia.
1mm to 20mm Dia.

Pins 6
Pins 6



TAPERED with External Thread

DIN 7977 STEEL

5mm to 20mm Dia.

Pins 6

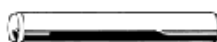


TAPERED with Internal Thread

DIN 7978 A STEEL

6mm to 20mm Dia.

Pins 6



DOWEL (Parallel)

DIN 6325 STEEL Cl.60
STAINLESS STEEL

2mm to 20mm Dia.
1mm to 20mm Dia.

Pins 1
Pins 1



DOWEL with Internal Thread

DIN 7979 D

6mm to 20mm Dia.

Pins 3



PINS (Grooved)

DIN 1471, DIN 1472, DIN 1473, DIN 1474

To order



CROSS SLOTTED DOWEL

DIN 7979D STEEL Cl. 60

6mm

Pins 3

PINS SPRING



SPRING TENSION (Straight)

ISO 8752 STEEL Single coil Steel
STEEL Imperial

1.5mm to 20mm
1/16" to 1/2"

Pins 4
Pins 4



COIL SPRING TENSION (Straight)

ISO 8752 STEEL Double coil Steel

5mm to 10mm

Pins 5

PINS SPLIT



PINS SPLIT (Cotter)

DIN 94 STEEL Self Colour and Zinc Plated
DIN 94 BRASS
DIN 94 STAINLESS STEEL A2
DIN 94 STAINLESS STEEL A4

1.0mm to 13mm
1.6mm to 6.3mm
To Order
To Order

Pins 7
Pins 7

Imperial STEEL Self Colour and Zinc Plated

1/16" to 1/2" as above.

Pins 7

RIVET



SOLID ROUND HEAD

DIN 660 STEEL
DIN 660 ALUMINIUM
DIN 660 COPPER

Pins 8
Pins 8
Pins 8



SOLID COUNTERSUNK HEAD

DIN 661 STEEL
DIN 661 ALUMINIUM
DIN 661 COPPER

Pins 8
Pins 8
Pins 8



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DOWEL PINS

DIN 6325 STEEL CI.60



LEN/DIA	1	1.5	2	2.5	3	4	5	6	8	10
4										
5										
6				✓	✓					
8					✓ 4					
10					✓	✓	✓	✓ 4		
12			✓	✓	✓		✓	✓ 4		
14			✓							
16			✓	✓	✓ 4	✓	✓	✓	✓	
18										
20			✓	✓	✓	✓	✓	✓	✓	✓
24			✓	✓						✓
25					✓	✓	✓	✓	✓	✓
26				✓						
28										
30			✓	✓	✓	✓	✓	✓ 4	✓	✓
32										
35					✓	✓	✓	✓	✓	✓
36				✓						
40			✓	✓	✓	✓	✓	✓	✓	✓
45					✓	✓	✓	✓	✓	✓
50			✓	✓	✓	✓	✓	✓	✓	✓
55										
60					✓	✓	✓	✓	✓	✓
70							✓	✓	✓	✓
75								✓		
80						✓	✓	✓	✓	✓
90									✓	✓
100							✓	✓	✓	✓
110									✓	✓
120								✓	✓	✓
140								✓		

✓ = EX STOCK, 4 = STAINLESS STEEL A2 (G304)

Continued..



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DOWEL PINS

DIN 6325 STEEL CI.60



LEN/DIA	12	14	16	20						
16										
18										
20	✓									
24										
25	✓									
26										
28										
30	✓		✓							
32		✓		✓						
35	✓		✓							
36		✓		✓						
40	✓	✓	✓	✓						
45	✓		✓	✓						
50	✓	✓	✓	✓						
55	✓									
60	✓	✓	✓	✓						
70	✓	✓	✓	✓						
75										
80	✓	✓	✓	✓						
90	✓	✓	✓							
100	✓	✓	✓	✓						
110	✓		✓							
120	✓	✓	✓	✓						
140										

✓ = EX STOCK, 4 = STAINLESS STEEL A2 (G304)

Continued..



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DOWEL PINS

DIN 6325 STEEL CI.60



LEN/DIA	1/4"	5/16"	3/8"	1/2"	5/8"					
1/2"	✓	✓								
3/4"				✓						
1"	✓				✓					
1.1/4"					✓					
1.1/2"				✓	✓					
1.3/4"										
2"			✓	✓						

✓ = EX STOCK

DOWEL PINS with INTERNAL THREAD

DIN 7979D ISO 8735A STEEL CI.60



LEN/DIA	6	8	10	12	14	16	20	25		
Int. Thd.	M4	M5	M6	M6	M8	M8	M10	M16		
16										
20	✓	✓	✓							
24			✓							
28										
30	✓	✓	✓							
32				✓						
40				✓						
50	✓	✓	✓	✓						
60				✓						
70				✓						
80				✓						
100				✓						

Indent to order

✓ = EX STOCK

SLOTTED CROSS DOWELS



LEN/DIA	M6									
Pitch	1									
12	✓ 4									
13	✓									
16	✓									

✓ = EX STOCK, 4 = STAINLESS STEEL A2 (G304)



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SPRING TENSION PIN

ISO 8748 (HEAVY DUTY)



LEN/DIA	1.5	2	2.5	3	4	5	6	8	10	12
Steel Thickness	0.3	0.4	0.5	0.6	0.8	1.0	1.25	1.5	2.0	2.0
Slot Thickness	1.1	1.5	1.8	2.1	2.8	3.4	3.9	5.5	6.5	7.5
Shear strength double min. in KN	1.58	2.82	4.38	6.32	11.24	17.54	26.04	42.76	70.16	104.1
5		✓		✓						
6	4	✓		✓	✓					
8		✓	✓	✓	✓	✓	✓			
10		✓	✓	✓	✓	✓	✓			
12		✓	✓	✓	✓	✓	✓	✓		
14		✓	✓	✓	✓	✓	✓			
16		✓	✓	✓	✓	✓	✓	✓		
18				✓	✓	✓	✓			
20	✓	✓	✓	✓	✓	✓	✓	✓	✓	
24		✓	✓	✓	✓	✓	✓	✓		
25		✓	✓	✓					✓	
26			✓	✓	✓		✓	✓		
28			✓	✓						
30		✓	✓	✓	✓	✓	✓	✓	✓	✓
32										
35				✓	✓					✓
36									✓	
40		✓			✓	✓	✓	✓	✓	✓
45				✓	✓	✓		✓	✓	
50					✓	✓	✓	✓	✓	✓
55										
60						✓	✓	✓	✓	✓
65						✓				
70						✓	✓	✓	✓	✓
75										
80							✓	✓	✓	✓
90							✓	✓	✓	✓
100							✓	✓	✓	✓
120									✓	✓
140										✓
160										✓
180										✓

LEN/DIA	14	16	18	20						
45										
50	✓	✓	✓	✓						
55										
60	✓	✓	✓	✓						
70	✓	✓	✓	✓						
75										
80	✓	✓	✓	✓						
90	✓	✓	✓	✓						
100	✓	✓	✓	✓						
120		✓	✓	✓						

✓ = EX STOCK, indent to order available on other sizes, Contact sales. 4.5mm, 7mm & 9mm limited ranges available



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SPRING TENSION PIN

IMPERIAL (HEAVY DUTY)



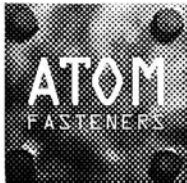
LEN/DIA	1/8"	5/32"	3/16"	7/32"	1/4"	5/16"	3/8"	7/16"	1/2"	
1/2"	✓		✓		✓					
3/4"	✓				✓		✓			
7/8"					✓					
1"					✓	✓	✓	✓	✓	
1.1/4"	✓	✓	✓	✓	✓	✓	✓	✓	✓	
1.1/2"	✓		✓		✓	✓	✓	✓	✓	
1.3/4"					✓		✓	✓	✓	
2"	✓			✓	✓		✓		✓	
2.1/4"						✓		✓		
2.1/2"				✓	✓	✓	✓	✓	✓	
2.3/4"										
3"				✓	✓	✓	✓	✓	✓	
3.1/2"							✓			
4"						✓	✓		✓	

COIL SPRING TENSION PIN

ISO 8750



LEN/DIA	4.5	6	7	8	9	10	12	14	16	
32		✓		✓		✓				
40	✓	✓		✓		✓				
50		✓	✓	✓	✓	✓	✓			
60						✓	✓			
70							✓			
80							✓	✓	✓	
100		✓	✓	✓	✓					



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TAPER PINS

DIN 1B angle ratio 1:50



LEN/DIA	1	1.5	2	2.5	3	4	5	6	8	10
10	✓ (1-1.2)									
20		✓ (1.5-1.9)	✓ (2.0-2.4)		✓ (3-3.4)					
25										✓ (10-10.5)
30					✓ (3-3.6)					
40					✓ (3-3.8)	✓ (4-4.8)	✓ (5-5.8)	✓ (6-6.8)	✓ (8-8.8)	✓ (10-10.8)
50					✓ (3-4)					
60							✓ (5-6.2)	✓ (6-7.2)	✓ (8-9.2)	✓ (10-11.2)
65					✓ (3-4.2)	✓ (4-5.2)				
80						✓ (4-5.6)	✓ (5-6.6)	✓ (6-7.6)	✓ (8-9.6)	✓ (10-11.6)
100						✓ (4-6)	✓ (5-7)	✓ (6-8.0)	✓ (8-10)	✓ (10-12)
140								✓ (6-8.8)	✓ (8-10)	✓ (10-12.8)

LEN/DIA	12	16								
100	✓ (12-14)	✓ (16-18)								
140	✓ (12-14.8)									
150		✓ (16-19)								

Size in brackets denotes small to large diameter ie (6-8) 6mm small end 8mm large end

✓ = EX STOCK

TAPER PINS INTERNAL THREAD

DIN 7978 A



LEN/DIA	6	8	10	12	16	20				
Thd. Depth	6	8	10	12	16	18				
Internal Thd.	M4	M5	M6	M8	M10	M12				
16	✓									
20										
25			✓							
30		✓								
40		✓	✓							
50		✓	✓	✓						
60										
65										
80										
100										
140										

✓ = EX STOCK



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COTTER PINS (SPLIT)

DIN 94



LEN/DIA	1	1.2	1.6	2	2.5	3.2	3.5	4	5	6.3
10	✓		✓							
12	4	4	✓4		6					
14			✓							
16	4		✓4	✓4	✓4	6		4		
20	4	4	✓4 R	✓4	✓4	✓4		✓4		
25			✓4 6	✓4	✓4 R	✓4	✓	✓4 R	✓4	✓4
32			✓4	✓4	✓4	✓4 R	✓	✓4	✓4	✓4
36				6		✓		✓	✓	✓
40			✓4	✓4	✓4	✓4	✓	✓4	✓4 R	✓4
50			✓	✓4	✓4	✓4		✓4	✓4	✓4
56									✓	✓
63					✓	✓		✓4	✓	✓4
71									4	
80								✓	✓4	✓4
90									✓	✓
100									✓	✓4
125										
140										
150										✓
160										

LEN/DIA	8	10	13							
40	✓									
50	✓4									
56										
63	✓4	✓6	✓							
71	✓	✓	✓							
80	✓4	✓	✓							
90	✓	✓								
100	✓	✓	✓							
125	✓	✓	✓							
140			✓							
160		✓	✓							

EX STOCK: B = BLACK Z = CLEAR ZINC PLATED 4 = STAINLESS STEEL A2 (304) 6 = STAINLESS STEEL A4 (316) R = BRASS



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SOLID ROUND RIVET

DIN 660



LEN/DIA	2	2.5	3	4	5	6	8	10		
Hd. Dep.	1.2	1.5	1.8	2.4	3	3.6	4.8	6.5		
Hd. AF	3.5	4.4	5.2	7	8.8	10.5	14	16		
6			Cu	A						
8				A						
10				Cu A	A	Z				
12				A	Cu A Z					
14										
16				Cu Z	Cu Z					
18										
20				Z	Cu Z	A Z	Cu z	Z		
25					Cu		Cu			
30								Z		
40							Z	Z		
50										
55										
60						Z				
70										
80							Z			

EX STOCK Cu = Copper, A = Aluminum, Z = Zinc Steel

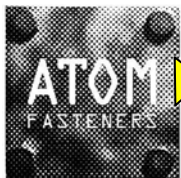
SOLID CSK RIVET

DIN 661



LEN/DIA	2	2.5	3	4	5	6	8	10		
Hd. Dia	3.5	4.4	5.2	7.0	8.8	10.5	14	14.5		
Hd. Hgt	1.0	1.2	1.4	2.0	2.5	3.0	4.0	3.0		
6			A	A						
8			Cu	A						
10				Cu A						
12				A						

EX STOCK Cu = Copper, A = Aluminum DIN 1790-1, 10mm DIN 302



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MISC

EYE BOLTS

EYE BOLTS

PAGE



METRIC COARSE

DIN 444 STEEL
DIN 912 STAINLESS STEEL A2
DIN 912 STAINLESS STEEL A4

Zinc Plated
To Order

Misc 1
Misc 1

DOWEL SCREWS

DOWEL SCREWS (Hanger Bolts)

METRIC COARSE



STEEL
STAINLESS STEEL A2

Zinc Plated

Misc 1
Misc 1

THUMB AND WING SCREWS

THUMB SCREWS



METRIC COARSE

Steel

Zinc Plated

Misc 2

WING SCREWS



METRIC COARSE

DIN 316 Steel
DIN 316 Brass
DIN 316 STAINLESS STEEL A2

Zinc Plated

Misc 2
Misc 2
Misc 2

PIPE SOCKETS

HEXAGON SOCKET PIPE PLUGS

EXTERNAL TAPER



DIN 906 (Metric Fine)
BSPT (Imperial)
NPT (Imperial)

Steel
Steel
Steel

Misc 3
Misc 3
Misc 3



HEXAGON SOCKET SCREW PLUGS

DIN 908 (Metric Fine)
BSP (Imperial)

Steel
Steel

Misc 3
Misc 2



HEXAGON HEAD SCREW PLUGS

DIN 910 (Metric Fine)
Stainless A4 (Metric Fine)
BSP (Imperial)

Steel
Steel
Steel

Misc 3
Misc 3
Misc 3

CONTINUED

SPRING PLUNGERS

PAGE



SLOTTED WITH BALL

Steel
Stainless Steel

Steel

Misc 4
Misc 4



SLOTTED WITH PIN

Steel
Stainless Steel

Misc 4
Misc 4



HEXAGON WITH PIN

Steel

Misc 4

BALL JOINT



BALL JOINT

DIN 71802 AS

Misc 5

JOINT FORKS



JOINT FORKS

DIN 71252

Misc 5



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EYE BOLTS

DIN 444 STEEL Cl. 4.6 STEEL and STAINLESS



LEN/DIA	M5	M6	M8	M10	M12	M16	M20	M24	M27	M30
HOLE DIA	5	6	8	10	12	16	20	24	27	30
PITCH	.8	1.0	1.25	1.50	1.75	2.0	2.5	6.0	3.0	3.5
THD,125	Full	18	22	26	30	28	46	54	60	66
25	Z									
30										
35										
40		Z	Z	Z		OTHER DIAMETERS and LENGTHS INDENTED TO ORDER				
50										
60			Z	Z						
70										
80				Z	Z					
90										
100										

DOWEL SCREWS (Hanger Bolts)

STEEL MILD STEEL and STAINLESS



LEN/DIA	M4	M5	M6	M8	M10	M12		1/4"	5/16"	3/8"
PITCH	0.70	0.80	1.0	1.25	1.5	1.75	T.P.I	20	18	16
20	Z									
25	Z	Z								
30	Z									
35	Z									
40	Z	Z	Z				1.1/2"		Z	
50		Z	Z	Z			2"			
60			Z	Z	Z		2.1/4"		Z	
70			Z	Z	Z		2.1/2"			
80			Z	Z	Z		3"			
90			Z	Z	Z		3.1/2"			
100				Z	Z	Z	4"			
110					Z					
120			Z	Z	Z	Z				
130					Z	Z				
140				Z	Z					
150			Z	Z						
160				Z		Z(165)				



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WING SCREWS (AMERICAN TYPE) STEEL, BRASS and STAINLESS STEEL



LEN/DIA	M4	M5	M6	M8	M10	M12	M16
PITCH	0.7	0.8	1.0	1.25	1.5	1.75	
10	Z	Z 4	Z				
12	Z	Z	Z 4	Z			
16		Z 4	Z 4	Z	Z		
20		Z B 4	Z B 4	Z B 4	Z 4	Z	
25		Z	Z	Z 4	Z 4	Z	
30		Z	Z	Z	Z 4	Z	
35		Z	Z		Z	Z	
40		Z	Z	Z	Z	Z	
50			Z	Z	Z	Z	
60			Z	Z	Z	Z	

EX STOCK: Z= ZINC PLATED B = BRASS 4= A2(G304)STAINLESS STEEL

THUMB SCREWS STEEL and BRASS



LEN/DIA	M4	M5	M6	M8	M10	LEN/DIA	3/16"	1/4"
PITCH	0.7	0.8	1.0	1.25	1.50	TPI	24	20
10								
12	B	Z B	Z			1/2"	Z	Z
16		Z	B(18)			3/4"	Z	Z
20		Z	Z	Z B	Z B	1"	Z	Z
25			Z			NOTE IMPERIAL NOT ALWAYS AVAILABLE		

EX STOCK: Z= ZINC PLATED B = BRASS 4= A2(G304)STAINLESS STEEL



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HEX SOCKET PIPE PLUGS

METRIC FINE TAPERED EXTERNAL PIPE THREAD DIN 906



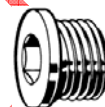
IPPT

LEN/DIA	M8	M10	M12	M14	M16	M18	M20	M22	M24	M26	M30	M36	M42
Pitch	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Length	8	8	10	10	10	10	10	10	12	12	12	15	18
A/KEY	4	5	6	7	5	5	10	10	12	12	17	19	22
STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

IMPERIAL AVAILABLE TO ORDER

HEX SOCKET PLUGS

METRIC FINE THREAD DIN 908



IPS

LEN/DIA	M8	M10	M12	M14	M16	M18	M20	M22	M24	M26	M27	M30	
Pitch	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	1.5	
O/A Length	10	11	15	15	15	16	18	18	18	20	20	20	
Dia. Head	12	14	17	19	21	23	25	27	29	31	32	36	
A/KEY	4	5	6	6	8	8	10	10	12	12	12	17	
STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

DIAMETERS UP TO M64 TO ORDER

HEXAGON HEAD SCREW PLUGS

METRIC FINE THREAD DIN 910



HPS

LEN/DIA	M8	M10	M12	M14	M16	M18	M20	M22	M24	M26	M30	M36	M42
Pitch	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
A/Flats	10	10	13	12	17	17	19	19	22	24	24	27	30
Length	8	8	12	12	12	12	14	14	14	16	16	16	16
Dia. Head	14	14	17	19	21	23	25	27	29	31	36	42	49
A/KEY	4	5	6	6	8	8	10	10	12	12	12	17	17
STEEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



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SPRING PLUNGER

SLOTTED WITH BALL



LEN/DIA	M3	M4	M5	M6	M8	M10	M12	M16	M20
Pitch	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2.5
Spring Pressure N	1.5-3	4-10	6-11	9-15	15-30	20-40	30-55	65-125	80-160
7	✓								
9		✓							
12			✓						
14				✓					
16					✓				
19						✓			
22							✓		
24								✓	
30									

✓ = EX STOCK

SPRING PLUNGER

SLOTTED WITH PIN



LEN/DIA		M4	M5	M6	M8	M10	M12	M16	
Pitch		0.7	0.8	1	1.25	1.5	1.75	2	
Spring Pressure N		6-20	6-20	7-20	15-35	20-45	25-60	45-100	
7									
9		To Order, Contact Sales							
12									
14									
16									
19									
22									
24									
30									

✓ = EX STOCK

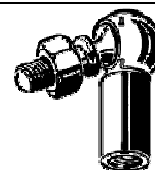


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BALL JOINT

DIN 71802 AS



LEN/DIA		M5	M6	M8	M10	M12	M14	M16		
Pitch		0.8	1	1.25	1.5	1.75	1.5	2.0		
Static load kN		.3	.7	1.5	2	2	3	3		
Left Hand		✓	✓	✓	✓	✓		✓		
Right Hand		✓	✓	✓	✓	✓		✓		

✓ EX STOCK = CLEAR ZINC PLATE Contact sales for dimension details

JOINT FORKS with Spring Pin

DIN 71252



LEN/DIA		M5	M6	M8	M10	M12	M14	M16	M20	
Pitch		0.8	1	1.25	1.5	1.75	1.5	2.0	2.5	
Static load kN		.3	.7	1.5	2	2	3	3		
Left Hand								✓		
12			✓							
16										
20					✓					
24			✓							
32				✓						
40					✓					
Right Hand										
10		✓								
12			✓							
14										
16				✓						
20		✓			✓					
24			✓			✓				
28							✓			
32				✓						
40					✓				✓	
48						✓				
50							✓			
64								✓		

✓ EX STOCK = CLEAR ZINC PLATE Contact sales for dimension details



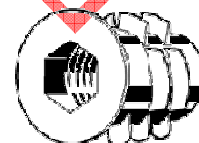
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JOINT CONNECTOR BOLTS

LEN/DIA		M6								
Pitch		1.0								
40		4								
50		4								
60		4 Z								
70		4								
100		4 Z								

JOINT CONNECTOR INSERTS



LEN/DIA		M4	M5	M6	M8	M10			
Pitch		0.7	0.8	1.0	1.25	1.50			
Diameter		8.5	11.5	12.5	14.5	16			
A/key		4	5	6	8	10			
10		Z	Z						
13			Z	Z	Z				
25					Z	Z			