



CLASSIC FASTENERS



Obsolete fastener specialist

CLASSIC FASTENERS was established circa 1988 to supply 'obsolete' and just plain hard to get fasteners to restorers of automobiles and motorcycles via a mail order service. The business changed hands in November 1998 and is now based in Adelaide, owned and run by the Milne family.

- All prices in this catalogue include GST.
- Our ABN is 68 056 601 532

Derek & Leanne Milne

Contact Details

Address

Shop 1, 75-77 Grange Road
Welland
Australia

Postal Address

PO Box 187
WELLAND SA 5007

Tel (08) 7127 0582

Email: nuts@classicfasteners.com.au

Web: www.classicfasteners.com.au

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TERMS AND CONDITIONS OF SALE

- ORDERS** Orders can be placed via our Online store, Telephone, Post or E-mail,
- PAYMENT** Payment is accepted by Visa, MasterCard, Direct Deposit.
- PACKING and POSTAGE** Postage and packing charges for orders delivered in Australia are as follows
- | | |
|---|------|
| Flat Rate Standard Australia Post with tracking | \$10 |
| Express Post | \$15 |
- Overseas orders by quotation via our web site.
- PRICES** Every attempt will be made to hold the prices to those shown in this catalogue, but we reserve the right to alter or amend prices at any time without prior notice.
- TAXES** All prices include 10% GST.
Overseas customers deduct 1/11th from the prices listed
- DELIVERY** All effort will be made to dispatch orders within five working days of receipt. If we cannot do so (for example an item is temporarily out of stock) we will contact you, quoting a delivery date. If this date is unacceptable, a refund may be obtained any time prior to dispatch.

Risk Free Guarantee

If you are not fully satisfied with any of our products, return it to us within 60 days and we will happily offer you the following options:

- 1) A replacement
- 2) A full refund on the product
- 3) A different product in exchange

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Threaded Rod

The following rods are threaded for their entire length and are ideal for cutting up as required.



BSF		STAINLESS 304	
Dia	tpi	9" length	SKU
1/4	26	\$17.00	ATBFS14
5/16	22	\$19.00	ATBFS516
3/8	20	\$24.00	ATBFS38

UNF		STAINLESS 304	
Dia	tpi	12" length	SKU
1/4	28	\$18.00	ATUFS14
5/16	24	\$20.00	ATUFS516
3/8	24	\$25.00	ATUFS38

UNC		STAINLESS 304	
Dia	tpi	36" length	SKU
5/16	18	\$8.00	ATUCS14

METRIC - Course		STAINLESS 304			STAINLESS 316	
Dia	pitch	300mm	1m	SKU	1m	SKU
M3	0.50				\$13.00	ATMS3A4
M4	0.70		\$6.00	ATMS41		
M5	0.80		\$7.00	ATMS51		
M6	1.00	\$5.00		ATMS6		
M6	1.00		\$7.00	ATMS61		
M8	1.25		\$8.00	ATMS81		
M10	1.50		\$14.00	ATMS101		
M12	1.75		\$24.00	ATMS121		

Note: 1m / 36" length bars are an in-store pickup item only.

Studs

BSCY - 26tpi studs.

Thread length is approx. 1" on the stainless studs and 3/4" on the zinc.



Dia	Length	BSCY STAINLESS 303 / 304			BSCY Mild Steel Zinc Plated	
		tpi	Each	SKU	Each	SKU
1/4"	3"	26	tba			
	3 1/2"		\$4.10	SBCS143		
	4"		\$4.45	SBCS144		
	4 1/2"		\$4.85	SBCS14412		
5/16"	3"	26	\$8.00	SBCS5163		
	3 1/2"		\$8.20	SBCS516312		
	4"		\$8.40	SBCS5164		
	4 1/2"		\$8.60	SBCS516412		
	5"		\$8.80	SBCS5165		
	5 1/2"		\$8.90	SBCS516512		
3/8"	6"		tba	SBCS5166		
	3 1/2"	26	\$8.80	SBCS38312		
	4"		\$9.00	SBCS384		
	4 1/2"		\$8.80	SBCS38412		
	5"		\$9.00	SBCS384		
	5 1/2"		\$9.20	SBCS38512		
	6"		tba			
7"		tba				
8"		tba				
7/16"	4"	26	\$12.00	SBCS7164		
	4 1/2"		\$12.20	SBCS716412		
	5"		\$12.40	SBCS7165		
	5 1/2"		\$12.60	SBCS716512		
	6"		\$12.80	SBCS7166		
	7"				\$15.00	SBCZ7167
8"				\$19.00	SBCZ7168	
1/2"	4 1/2"	26	\$13.50	SBCS12412		
	5"		\$14.00	SBCS125		
	5 1/2"		\$14.50	SBCS12512		
	6"		\$15.00	SBCS125		
	6 1/2"		\$16.50	SBCS12612		

Bumper (Cup Head) Bolts

Stainless Steel.
Polished bolts are supplied with stainless nut and spring washer to suit



DIN603					STAINLESS 304	STAINLESS 316			
Dia	Pitch (mm)	Head diameter	Head height	Length	Each	Polished Each	Each	per 50	per 100
M5	0.75	13mm	3mm	16mm	\$0.70				
				20mm	\$0.75				
M6	1.00	16mm	3.5mm	20mm		\$3.50	\$0.50		\$25.00
				25mm		\$3.50	\$0.50		\$25.00
				30mm		\$3.50	\$0.50		\$25.00
				40mm			\$0.60		\$30.00
M8	1.25	20mm	4.8mm	20mm		\$4.00	\$1.10		\$55.00
				25mm		\$4.00	\$1.10	\$27.50	
				30mm		\$4.00	\$1.30	\$32.50	
				40mm		\$4.00	\$1.40	\$35.00	
M10	1.50	24mm	5.4mm	25mm		\$4.90	\$1.65	\$41.00	
				30mm		\$4.90	\$1.90	\$45.00	
				40mm		\$4.90	\$2.10	\$52.50	
				50mm			Each	per 25	
					\$4.90	\$1.90	\$23.75		

UN					STAINLESS Polished	STAINLESS
		Head diameter	Head height	Length	Each	Each
10-32	UNF	0.392"	0.125"	5/8"	\$4.95	\$1.40

To suit MGA grille

Drain Plugs

Drain Plugs						Stainless 304 each
SKU	Thread	Pitch	AF	Spanner size	Length	
DPBPS18	1/8 BSP	28tpi	0.522"	5/16 BS	7/16"	\$ 8.10
DPBPS14	1/4 BSP	19tpi	0.707"	7/16 BS	1/2"	\$ 9.70
DPBWS38	3/8 BSW	16tpi	0.522"	5/16 BS	7/16"	\$ 8.10
DPBCS38	3/8 BSCY	26tpi	0.522"	5/16 BS	7/16"	\$ 8.10
DPBFS716	7/16 BSF	18tpi	0.598"	3/8 BS	7/16"	\$ 8.10



BA - British Association

Set screws are threaded their entire length.
Length is measured from under the head.



Dia	AF	Length inches		STAINLESS	MILD STEEL	
				304	ZNC	
				Each	Each	Per 25
2 BA	0.325"	1/2	Set screw	\$2.00	\$1.25	\$18.75
		3/4	Set screw	\$2.65	\$1.25	\$18.75
		1	Set screw	\$2.70		

BSF - Zinc plated

Steel, bright zinc plated

Length is measured from under the head.
 Bolts have a section of shank unthreaded.
 Set screws are threaded for their entire length.



Dia	AF	Length inches		HIGH TENSILE GRADE R			MILD STEEL		
				ZINC plated			ZINC plated		
				Each	per 10	per 25	Each	per 25	
3/16	0.325"	1/2	Set screw		\$1.25	\$23.50			
		3/4	Set screw		\$1.25	\$23.50			
		1	Set screw		\$1.30	\$24.50			
		2	Set screw					\$1.40	
1/4	0.438"	3/8	Set screw		\$1.00	\$18.75			
		1/2	Set screw		\$0.90	\$17.00			
		3/4	Set screw		\$1.20	\$22.50			
		1	Set screw		\$1.20	\$22.50			
		1 1/4	Bolt		\$1.60	\$30.00			
		1 1/2	Bolt		\$2.00	\$37.50			
		1 3/4	Set screw					\$0.80	\$14.00
		1 3/4	Bolt		\$2.10	\$39.50			
		2	Bolt		\$2.00	\$37.50		\$1.50	
		2 1/4	Bolt		\$2.50	\$47.00			
		2 1/2	Bolt		\$2.75	\$51.60			
		2 3/4	Bolt		\$2.40	\$45.00			
		3	Bolt		\$3.40	\$27.50	\$57.25		
3 1/2	Bolt		\$3.70	\$27.80					

5/16	0.520"	1/2	Set screw		\$1.30	\$24.50		
		3/4	Set screw		\$1.45	\$27.25	\$0.85	
		1	Set screw		\$1.70	\$32.00		
		1 1/4	Bolt		\$2.25	\$42.20		
		1 1/2	Bolt		\$2.55	\$47.85		
		1 3/4	Bolt		\$2.75	\$51.60		
		2	Bolt		\$2.70	\$50.50	\$1.85	\$34.00
		2 1/4	Bolt				\$1.90	\$35.00
		2 1/2	Bolt		\$3.90	\$73.00	\$2.40	\$45.00
		2 3/4	Bolt		\$5.10	\$38.30		
		3	Bolt		\$4.05	\$30.50		
		3 1/2	Bolt		\$5.90	\$44.30		
		4	Bolt		\$5.50	\$41.30		

BSF - Zinc plated

BSF—continued

Dia	AF	Length		HIGH TENSILE GRADE R ZINC plated			MILD STEEL ZINC plated	
				Each	per 10	per 25	Each	per 25
3/8	0.595"	1/2	Set screw	\$1.30		\$24.50		
			Set screw	\$1.70		\$31.90		
		3/4	Set screw	\$2.25		\$46.00		
			Set screw	\$2.80		\$52.50		
		1	Bolt	\$3.10		\$58.13		
			Bolt	\$4.20	\$31.50			
		2	Bolt	\$6.90	\$51.70			
			Bolt	\$5.20	\$39.00	\$97.50	\$2.85	\$54
		3	Bolt	\$8.80	\$66.00			
			Bolt	\$5.90	\$44.20			
		4	Bolt	\$7.75	\$58.10		\$4.50	\$85
			Bolt	\$11.60	\$87.00			
		6	Bolt					
7/16	0.705"	3/4	Set screw	\$4.50		\$84.50		
			Set screw	\$3.65				
		1	Set screw	\$3.95				
			Set screw				\$2.90	\$55
		1 1/2	Bolt	\$7.45				
			Bolt	\$5.00		\$93.75		
		2	Bolt	\$8.50				
			Bolt	\$3.00				
		3	Bolt	\$8.85				
			Bolt	\$9.65				
		4	Bolt	\$10.75				
		1/2	0.820"	1	Set screw	\$4.00		
Set screw								
1 1/2	Bolt			\$5.30				
	Bolt			\$5.70				
2	Bolt			\$10.95				
	Bolt			\$8.75				
3	Bolt			\$10.35				
	Bolt			\$11.30				
3/4	2 1/2	Set screw				\$3.00		
7/8		2 1/2	Set screw				\$3.30	
			Set screw				\$3.80	
		4	Set screw				\$4.30	

BSF - Stainless & Chrome

Chrome plated—Top face of heads mirror polished.

Stainless—choose between a flat head with markings machined off or a domed head that is lightly polished.

Length is measured from under the head.



AF	Length inches		STAINLESS 304		CHROME High Tensile Grade R	
			Flat Head Each	Domed Head Each		
1/4	0.438"	1/2	Set screw	\$2.90	\$4.60	\$5.35
		5/8	Set screw	\$3.40	\$4.80	
		3/4	Set screw	\$3.70	\$5.10	
		1	Set screw	\$3.90	\$5.50	
		1 1/4	Set screw			\$2.55
		1 1/4	Bolt		\$5.60	
		1 1/2	Bolt		\$6.10	\$5.35
		2	Bolt		\$7.10	\$6.40
		2 1/2	Bolt			\$6.50
		3	Bolt			\$7.15
5/16	0.520"	3/4	Set screw		\$7.80	\$4.95
		1	Set screw		\$8.25	\$5.75
		1 1/4	Set screw		\$8.30	
		1 1/2	Bolt		\$10.00	\$6.95
		1 3/4	Bolt		\$9.90	
		2	Bolt		\$10.85	\$6.60
		2 1/2	Bolt		\$11.95	\$7.55
		3	Bolt			\$7.15
3/8	0.595"	5/8	Set screw			\$2.50
		3/4	Set screw		\$8.90	\$4.40
		1	Set screw		\$9.90	\$4.15
		1 1/4	Bolt			\$4.70
		1 3/4	Bolt		\$12.40	\$7.25
		2	Bolt			\$7.25
		2 1/2	Bolt			\$7.25
		3	Bolt			\$9.05

1/4" BSCY vs 1/4" BSF

1/4" BSF is interchangeable with 1/4" BSCy. Both have 26 tpi, the difference being BSF has a 55 degree thread angle and BSCy has a 60 degree thread angle.

BSCY (CEI, Cycle, 26tpi)

Length is measured from under the head.
Set screws are threaded all the way to the head; bolts are partially threaded.



				STAINLESS	MILD STEEL		GRADE 8.8	
				304 Domed Head Each	CHROME Each	ZINC plated Each per 25		Zinc Each
AF	Length							
1/4	USE 1/4 BSF			USE 1/4 BSF		USE 1/4 BSF		
5/16	0.520"	1/2	Set screw			\$1.20	\$22.50	
		5/8	Set screw	\$7.50				
		3/4	Set screw	\$7.80		\$1.40	\$26.25	
		1	Set screw	\$8.25	\$5.40	\$1.45	\$27.25	
		1 1/4	Set screw	\$8.90		\$1.80		
		1 1/2	Set screw			\$1.90	\$35.75	
		1 1/2	Bolt	\$10.00				\$1.90
		2	Set screw			\$2.30	\$43.25	
		2	Bolt	\$10.85	\$6.75	\$2.10		
		2 1/2	Bolt	\$12.95		\$2.20		
		3	Set screw			\$2.15	\$40.25	
		3 3/4	Bolt		\$7.95			
		4	Bolt		\$9.85			
		3/8	0.595"	3/4	Set screw	\$8.50	\$5.35	\$1.65
1	Set screw			\$9.70	\$3.80	\$1.95	\$36.50	
1 1/4	Set screw							
1 1/4	Bolt			\$10.90	\$4.50			
1 1/2	Set screw				\$5.65	\$2.15	\$40.25	
1 1/2	Bolt			\$11.60				
1 3/4	Bolt				\$6.00			
2	Set screw					\$2.40	\$45.00	
2	Bolt			\$14.10	\$6.35			
2 1/2	Bolt				\$9.20			
3	Set screw					\$3.10	\$58.25	
3	Bolt					\$4.25	\$79.75	
4	Bolt				\$11.55			
Reduced Head Size - made on 1/4 BS hex size								
5/16	0.438"	5/8		\$6.80				
		3/4	Set screw			\$1.20	\$22.50	
		1	Set screw	\$8.25				
		1 1/8	Bolt	\$8.00	BSA Handle Bar Bolt			

Metric (Coarse) - Stainless

Length is measured from under the head.

IMPORTANT - PLEASE READ

Metric bolts in M4, M5, M6, M7 and M8 diameters are generally suitable for both European and Japanese cars and motorcycles. However, M10 in the standard 1.50 pitch and M12 1.75 pitch are only suitable as replacements on European machines. They will not fit Japanese vehicles which use a 1.25 pitch fine thread.



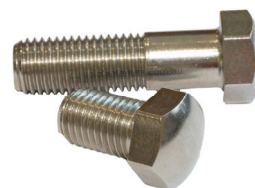
Hex Head Bolts / Set Screws DIN 933 Set Screws / DIN 931 Bolts					STAINLESS 304		STAINLESS 316			
					Each	Per 100	Each	Per 100		
M3	Pitch	AF	Length							
	0.50mm	5.5mm	25mm	Set screw		\$6.50				
M4	0.70mm	7mm	8mm	Set screw			\$0.18	\$9.00		
			10mm	Set screw			\$0.18	\$9.00		
			12mm	Set screw			\$0.18	\$9.00		
			16mm	Set screw			\$0.18	\$9.00		
			20mm	Set screw			\$0.22	\$11.00		
M5	0.80mm	8mm	12mm	Set screw			\$0.22	\$11.00		
			16mm	Set screw			\$0.24	\$12.00		
			20mm	Set screw			\$0.30	\$15.00		
			25mm	Set screw			\$0.32	\$17.00		
			45mm	Set screw			\$0.46	\$23.00		
M6	1.00mm	10mm	10mm	Set screw			\$0.26	\$13.00		
			12mm	Set screw			\$0.30	\$15.00		
			16mm	Set screw			\$0.32	\$16.00		
			20mm	Set screw			\$0.34	\$17.00		
			25mm	Set screw			\$0.38	\$19.00		
			30mm	Set screw			\$0.42	\$21.00		
			35mm	Set screw			\$0.45	\$23.00		
			40mm	Set screw			\$0.54	\$27.00		
			40mm	Bolt			\$0.45	\$23.00		
			45mm	Bolt			\$0.60	\$30.00		
			50mm	Bolt			\$0.70	\$35.00		
			55mm	Bolt			\$0.50			
									Each	Per 50
						\$0.66	\$16.50			
						\$0.75	\$19.00			
						\$0.90	\$22.50			
					Each	Per 100	Each	Per 100		
M7	1.00mm	11mm	20mm	Set screw	\$5.90					
			30mm	Set screw	\$6.90					
			40mm	Bolt	\$6.90					
			50mm	Bolt	\$7.90					
M8	1.25mm	13mm	12mm	Set screw			\$0.64	\$32.00		
			16mm	Set screw			\$0.64	\$32.00		
			20mm	Set screw			\$0.66	\$32.00		
			25mm	Set screw			\$0.76	\$38.00		
			30mm	Set screw			\$0.75	\$38.00		
			35mm	Set screw			\$0.80	\$40.00		
			35mm	Bolt			\$0.75	\$38.00		
			40mm	Bolt			\$0.46	\$23.00	\$0.92	\$46.00
			45mm	Set screw					\$0.95	\$48.00
			45mm	Bolt					\$0.94	\$47.00
			50mm	Bolt					\$1.20	\$60.00
			55mm	Bolt			\$0.85	\$64.00		
									Each	Per 50
						\$1.20	\$30.00			

Metric (Coarse) - Stainless

Hex Head Bolts / Set Screws					STAINLESS		
DIN 933 Set Screws / DIN 931 Bolts					304		
	Pitch	AF	Length		Each	Per 50	Per 100
M10	1.50mm	17mm	20mm	Set screw	\$0.68		
			25mm	Set screw	\$1.00		\$50.00
			30mm	Set screw	\$1.00		\$50.00
			35mm	Set screw	\$1.16		\$58.00
M12	1.75mm	19mm	25mm	Set screw	\$1.40		\$70.00
			30mm	Set screw	\$1.45		\$72.50
			40mm	Set screw	\$1.80	\$45.00	

Metric (JIS) - Stainless

JIS—Japanese Industrial Standard fasteners use smaller head sizes than ISO and DIN standard fasteners



Shallow Domed Hex Head Bolts/Set Screws							STAINLESS
JIS Head Size							Each
SKU	Dia	Pitch	AF	Length			
		mm	mm	mm			
BMSD830	M8	1.25	12	30	Set Screw		\$5.60
BMSD835				35	Set Screw		\$6.30
BMS10F16AF14	M10	1.25	FINE 14	16	Set Screw		\$8.00
BMS10F20AF14				20	Set Screw		\$8.20
BMS10F25AF14				25	Set Screw		\$8.50
BMS10F30AF14				30	Set Screw		\$9.50
BMS10F35AF14				35	Bolt		\$11.70
BMS10F40AF14				40	Bolt		\$13.40

Metric (Coarse) - HDG



Hex head Bolts / Sets				Hot Dip Galvanised							
ISO 4014 / 4017				Class 4.6							
				Bolts/Set screws include nuts							
Dia	Pitch mm	AF mm	Length mm		Each	save 20%	per box, save 60%				
						per 20	per 75	per 100	per 150	per 200	
M8	1.25	13	40	Bolt	\$0.45	\$7.20					\$36.00
			50	Bolt	\$0.55	\$8.80			\$33.00		
			60	Bolt	\$0.65	\$10.40			\$39.00		
M10	1.50	16	35	Set	\$0.70	\$11.20			\$42.00		
			40	Bolt	\$0.85	\$13.60			\$51.00		
			75	Bolt	\$1.20	\$19.20	\$36.00				
M12	1.75	18	35	Set screw	\$1.05	\$16.80					\$84.00
			40	Set screw	\$1.25	\$20.00					\$100.00
			50	Set screw	\$1.25	\$20.00			\$75.00		
			60	Bolt	\$1.45	\$23.20			\$87.00		
			75	Bolt	\$1.65	\$26.40			\$99.00		
			100	Bolt	\$2.00	\$32.00			\$80.00		
M16	2.00	24	40	Set screw	\$2.05	\$32.80		\$82.00			
			50	Set screw	\$2.30	\$36.80		\$92.00			
			60	Set screw	\$2.55	\$40.80	\$76.50				
			75	Bolt	\$2.95	\$47.20	\$88.50				

Metric (Coarse) - Chrome



Hex Head Bolts/Set Screws					CHROME
	Dia	Pitch	AF	Length	Class 8.8
SKU	mm	mm	mm	mm	Each
	M6	1.00	10	25	Set Screw \$4.70

Metric (Coarse) - Zinc Class 4.6



Hex head Bolts / Sets					ZINC	
AS1111.2					Class 4.6	
Dia	Pitch	AF	Length		Each	per 100
	mm	mm	mm			
M5	0.80	8mm	45mm	Set screw	\$0.25	\$26.00

Metric (Coarse) - HT Zinc



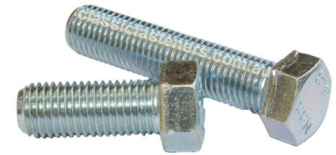
Hex head Bolts / Sets					ZINC		ZINC				
ISO 4014 / 4017					Class 8.8		Class 10.9				
Dia	Pitch	AF	Length		Each	per 100	Each	per 25	per 50	per 100	per 200
	mm	mm	mm								
M5	0.80	8mm	12mm	Set screw	\$0.22	\$11.00					
M6	1.00	10mm	10mm	Set screw	\$0.40	\$20.00					
			12mm	Set screw			\$0.16				\$16.00
			16mm	Set screw							
			20mm	Set screw			\$0.22			\$11.00	
			25mm	Set screw			\$0.26			\$13.00	
			30mm	Bolt			\$0.32			\$16.00	
			35mm	Set screw			\$0.30			\$15.00	
			35mm	Bolt			\$0.35			\$17.50	
M8	1.25	13mm	16mm	Set screw			\$0.40			\$20.00	
			20mm	Set screw			\$0.40			\$20.00	
			25mm	Set screw			\$0.42			\$21.00	
			30mm	Set screw			\$0.42			\$21.00	
			35mm	Set screw			\$0.45			\$23.00	
			55mm	Bolt			\$0.80			\$40.00	
			75mm	Bolt			\$0.95			\$47.00	
M10	1.50	16mm	25mm	Set screw			\$0.55			\$27.50	
			30mm	Set screw			\$0.80			\$40.00	
			35mm	Set screw			\$0.65			\$32.50	
			40mm	Set screw			\$0.75			\$38.00	
			50mm	Bolt			\$0.95			\$48.00	
M12	1.75	19mm	25mm	Set screw			\$1.10		\$27.50		
			30mm	Set screw			\$1.00		\$25.00		
			40mm	Set screw			\$1.30		\$32.50		
			50mm	Bolt			\$1.35		\$34.00		
			65mm	Bolt			\$1.60		\$40.00		
			70mm	Bolt			\$1.70		\$42.50		
			80mm	Bolt			\$2.00	\$25.00			
			90mm	Bolt			\$2.15	\$27.00			
			100mm	Bolt		\$1.50	\$3.00	\$37.50			
							Each	per 25			
M14	2.00	21mm	50mm	Set screw	\$1.25	\$15.50					
M16	2.00	24mm	65mm	Bolt	\$2.45	\$30.75					

Metric (Fine) - HT Zinc

See also our JIS stainless range of Set Screws and Bolts for more Metric FINE



Hex Head Set Screw/Bolts DIN 960/961						ZINC High Tensile Class 8.8		
SKU	Dia	Pitch mm	AF mm	Length mm		Each	per 25	per 50
BMZ810025C8	M8	1.00	FINE	13	25	Set screw	\$0.60	
BMZ1212530C8	M12	1.25	EXTRA FINE		30	Set screw	\$0.80	\$20.00
BMZ1212550C8					50	Bolt	\$1.20	\$30.00
BMZ1212575C8					75	Bolt	\$1.70	\$21.00
BMZ1212580C8					80	Bolt	\$1.80	\$22.00
BMZ1215025C8	M12	1.50	FINE		25	Set Screw	\$0.75	\$19.00



JIS Hex Head Set Screws JIS - 1180						ZINC High Tensile Class 8.8		
SKU	Dia	Pitch mm	AF mm	Length mm		Each	per 50	
BJIS840Z	M8	1.25		12	40	Set Screw	\$1.25	\$ 31.50
BJIS1020Z	M10	1.25	FINE	14	20	Set screw	\$1.60	\$40.00
BJIS1025Z					25	Set screw	\$1.70	\$42.50
BJIS1030Z					30	Set screw	\$1.90	\$47.50
BJIS1035Z					35	Set screw	\$2.10	\$52.50
BJIS1040Z					40	Set Screw	\$2.50	\$62.50
BJIS1045Z					45	Set screw	\$2.80	\$70.00
BJIS1050Z					50	Set screw	\$2.90	\$66.00

UNC

Length is measured from under the head.



UNC		ZINC plated				
Diameter	Pitch tpi AF	Length inches	High Tensile Grade 8			
			Each	per 50	per 100	per 200
1/4	20 7/16"	1/2 Set screw	\$0.20		\$10.00	
		3/4 Set screw	\$0.25		\$13.00	
		1 Set screw	\$0.30		\$15.00	
		1 1/4 Bolt	\$0.30		\$15.00	
		1 1/2 Bolt	\$0.35		\$18.00	
		2 Bolt	\$0.50		\$25.00	
		5/16	18 1/2"	1/2 Set screw	\$0.30	
		3/4 Set screw	\$0.25			\$26.00
		1 Set screw	\$0.36		\$18.00	
		1 1/4 Set screw	\$0.40		\$20.00	
		1 1/2 Bolt	\$0.45		\$22.50	
		1 3/4 Bolt	\$0.50		\$25.00	
		2 Bolt	\$0.55		\$27.50	
		2 1/4 Bolt	\$0.60		\$30.00	
		2 1/2 Bolt	\$0.65		\$33.00	
		2 3/4 Bolt	\$0.70		\$35.00	
		3 Bolt	\$1.20		\$60.00	
		3 1/2 Bolt	\$1.65	\$31.00		
		3 3/4 Bolt	\$1.70	\$42.50		
		4 Bolt	\$1.00		\$50.00	
		4 1/2 Bolt	\$1.80			
		5 Bolt	\$1.10		\$53.00	
3/8	16 9/16"	3/4 Set screw	\$0.35			\$34.00
		1 Set screw	\$0.36		\$18.00	
		1 1/4 Set screw	\$0.45		\$22.50	
		1 1/2 Bolt	\$0.55		\$28.00	
		2 Bolt	\$0.60		\$30.00	
		2 1/2 Bolt	\$0.75		\$37.50	
		3 Bolt	\$0.90	\$22.50		
		3 1/2 Bolt	\$0.94	\$23.50		
		4 Bolt	\$1.12	\$28.00		

UNC

Length is measured from under the head.



UNC Diameter	Pitch tpi	AF	Length inches		ZINC plated				
					High Tensile Grade 5		High Tensile Grade 8		
					Each	per 25	per 50	per 100	
7/16	14	5/8"	3/4	Set screw					
			1	Set screw		\$1.05		\$53.00	
			1 1/4	Set screw		\$0.76		\$38.00	
			1 1/2	Set screw		\$0.90		\$22.50	
			1 3/4			\$0.95		\$23.75	
			2	Bolt	\$0.80	\$1.10	\$27.50		
			2 1/2	Bolt		\$1.30	\$33.00		
			3 1/2	Bolt		\$2.10	\$52.50		
			3 3/4	Bolt	\$2.10	\$26.25			
			5	Bolt		\$2.65	\$65.75		
1/2	13	3/4"	1	Set Screw		\$0.75		\$38.00	
			1 1/2	Set Screw		\$0.90	\$22.50		
			1 3/4	Bolt		\$0.95	\$24.00		
			2	Bolt		\$1.10	\$27.50		
			3	Bolt		\$1.50	\$37.35		
			4	Bolt		\$1.90	\$23.75		
			5	Bolt		\$2.15	\$37.50		

UNC - Stainless

UNC Diameter	Pitch tpi	AF	Length inches		STAINLESS	STAINLESS	
					304 Each	316 Each	Per 100
1/4	20	7/16"	1/2	Set screw		\$0.30	\$15.00
			3/4	Set screw		\$0.35	\$18.00
			1	Set screw		\$0.40	\$20.00
			1 1/2	Bolt		\$0.65	\$33.00
			1 3/4	Bolt	\$0.46		
			2	Bolt		\$0.60	\$30.00
			2 1/2	Bolt	\$0.55		
			2 3/4	Bolt	\$0.60		
5/16	18	1/2"	1/2	Set screw		\$0.50	\$25.00
			3/4	Set screw		\$0.60	\$30.00
			1	Set screw		\$0.70	\$35.00
			1 1/4	Set screw		\$0.84	\$42.00
			1 1/2	Bolt		\$0.95	\$48.00
			2	Bolt		\$1.26	\$63.00
			2 1/2	Bolt		\$1.30	\$65.00
3/8	16	9/16"	3/4	Set screw		\$0.88	\$44.00
			1	Set screw		\$1.05	\$53.00
			1 1/4	Set screw		\$1.10	\$55.00
			1 1/2	Bolt		\$1.25	\$63.00
			2	Bolt		\$1.84	\$92.00
			2 1/4	Bolt	\$1.35		

UNF

Zinc plated bolts are silver zinc plated unless YZ is indicated.
Length is measured from under the head.



AF	Length inches			ZINC plated						
				STAINLESS 304 Each	CHROME Grade 5 Each	Grade 5		Grade 8		
						Each	per 100	Each	per 50	per 100
10 - 32	5/16"	1/2	Set screw	\$0.80						
		3/4	Set screw	\$0.85						
		1	Set screw	\$0.90						
1/4 - 28	7/16"	1/2	Set screw	\$0.75	\$3.50	\$0.18	\$9.00	\$0.20		\$10.00
		5/8	Set screw		\$3.55	\$0.20	\$10.00			
		3/4	Set screw	\$0.90	\$3.55			\$0.22		\$11.00
		7/8	Set screw			\$0.22	\$11.00			
		1	Set screw	\$1.15	\$3.80			\$0.26		\$13.00
		1 1/4	Bolt	\$1.40				\$0.22		\$11.00
		1 1/2	Set screw		\$3.95					
		1 1/2	Bolt	\$1.60	\$4.05			\$0.30		\$15.00
		1 3/4	Bolt	\$1.60				\$0.54		\$27.00
		2	Bolt	\$1.60	\$4.35			\$0.36		\$18.00
		2 1/4	Bolt			\$0.47	\$26.00			
		2 1/2	Bolt					\$0.74		\$37.00
		2 3/4	Bolt			\$0.65		\$0.78		\$39.00
		3	Bolt					\$0.84		\$42.00
		5/16 - 24	1/2"	1/2	Set screw	\$1.00	\$3.70			\$0.45
5/8	Set screw			\$1.00				\$0.32		\$16.00 YZ
3/4	Set screw			\$1.50	\$4.00			\$0.45		\$23.00
1	Set screw			\$1.75	\$4.70			\$0.30		\$15.00
1 1/4	Set screw			\$2.10	\$4.85					
1 1/4	Bolt							\$0.35		\$18.00
1 1/2	Bolt			\$2.45	\$4.45			\$0.46		\$23.00
1 3/4	Bolt							\$0.50		\$25.00
2	Bolt			\$2.85	\$4.75			\$0.58		\$29.00
2 1/4	Bolt							\$0.85		\$42.00
2 1/2	Bolt			\$3.50	\$5.65			\$1.15		\$58.00
3	Bolt							\$1.40		\$70.00
3 1/2	Bolt							\$0.90		\$44.50
4	Bolt							\$1.90	\$47.75	
4 1/2	Bolt							\$3.50	\$65.75	
3/8 - 24	9/16"	3/4	Set screw	\$2.25	\$4.30			\$0.60		\$30.00
		1	Set screw	\$2.00	\$4.55			\$0.52		\$26.00
		1 1/4	Set screw	\$3.25				\$0.55		\$28.00
		1 1/2	Set screw	\$2.20	\$5.20					
		1 1/2	Bolt	\$3.85				\$0.60		\$30.00
		2	Bolt	\$4.00	\$5.35			\$1.20		\$60.00
		2 1/4	Bolt		\$3.80			\$1.30		\$65.00
		2 1/2	Bolt	\$5.00	\$6.25			\$1.50		\$75.00
		2 3/4	Bolt		\$4.50					
		3	Bolt					\$1.65		\$83.00
		3 1/2	Bolt					\$2.05	\$51.25	
		4	Bolt					\$2.35	\$59.00	
4 1/2	Bolt					\$1.70	\$85.00			

UNF



AF	Length inches		ZINC plated						
			Grade 5		Grade 8				
			Each	per 25	Each	per 25	per 50	per 100	
7/16 - 20	1	Set screw			\$1.10			\$55.00	
	1 1/4	Set screw			\$1.30		\$32.50		
	1 1/2	Set screw			\$1.40		\$35.00		
	1 3/4	Bolt			\$1.50		\$37.50		
	2	Bolt			\$1.80		\$45.00		
	2 1/2	Bolt			\$1.90		\$47.50		
	3	Bolt			\$2.55		\$63.75		
	3 1/2	Bolt		\$1.75	\$22.00	\$1.80		\$45.00	
	4	Bolt			\$3.20	\$40.00			
	4 1/2	Bolt			\$2.25		\$56.50		
	1/2 - 20	3/4"	1 1/2	Set screw			\$1.00		\$25.00
			2	Bolt			\$1.25		\$31.25
2 1/2			Bolt			\$1.50		\$37.50	
3			Bolt			\$1.70	\$21.25		
3 1/2			Bolt			\$2.15	\$27.00		
4			Bolt			\$2.20	\$27.50		
6 1/2			Bolt			\$3.50	\$35.00		
7 1/2	Bolt			\$7.10	\$88.75				

Flange Bolts - Metric

Hex Flanged Bolts 8mm AF Class 8.8 Zinc

Clear Zinc, Non-serrated

All M6 but with a smaller 8mm A/F. This small range is often sort after by the motor cycle industry. In the preferred zinc clear finish

SKU	Dia	Pitch	AF	Length	Fully threaded	each	per 50
BFMZ8612	M6	1.00	8mm	12mm	Yes	\$0.70	\$17.50
BFMZ8616	M6	1.00	8mm	16mm	Yes	\$0.70	\$17.50
BFMZ8620	M6	1.00	8mm	20mm	Yes	\$0.70	\$17.50
BFMZ8625	M6	1.00	8mm	25mm	Yes	\$0.75	\$19.00



Metric Hex Flanged Bolts Class 8.8

Yellow Zinc, Non-serrated

SKU	Dia	Pitch	AF	Length	Fully threaded	each	per 50
BFMZ812	M8	1.25	12mm	12mm	Yes	\$0.80	\$20.00
BFMZ816	M8	1.25	12mm	16mm	Yes	\$0.90	\$22.50
BFMZ820	M8	1.25	12mm	20mm	Yes	\$0.95	\$24.00
BFMZ825	M8	1.25	12mm	25mm	Yes	\$1.00	\$25.00
BFMZ830	M8	1.25	12mm	30mm	Yes	\$1.10	\$27.50
BFMZ840G8	M8	1.25	12mm	40mm	Yes	\$1.35	\$34.00
BFMZ850	M8	1.25	12mm	50mm	Yes	\$1.55	\$39.00
BFMZ870	M8	1.25	12mm	70mm	No	\$1.90	\$47.50
BFMZ1025	M10	1.50	14mm	25mm	Yes	\$1.50	\$37.50
BFMZ1030	M10	1.50	14mm	30mm	Yes	\$1.65	\$41.50
BFMZ1040	M10	1.50	14mm	40mm	Yes	\$2.00	\$50.00
BFMZ1050	M10	1.50	14mm	50mm	Yes	\$2.40	\$60.00
BFMZ1070	M10	1.50	14mm	70mm	Yes	\$3.10	\$77.50



Metric FINE Hex Flanged Bolts Class 8.8

Yellow Zinc, Non-serrated

SKU	Dia	Pitch	AF	Length	Fully threaded	each	per 50
BFMFZY1025	M10	1.25	14mm	25mm	Yes	\$1.60	\$40.00
BFMFZY1030	M10	1.25	14mm	30mm	Yes	\$1.75	\$44.00
BFMFZY1035	M10	1.25	14mm	35mm	Yes	\$1.90	\$47.50
BFMFZY1040	M10	1.25	14mm	40mm	Yes	\$2.05	\$51.50
BFMFZY1050	M10	1.25	14mm	50mm	Yes	\$2.40	\$60.00



Metric Hex Flanged Bolts Class 8.8

Clear Zinc, Serrated

SKU	Dia	Pitch	AF	Length	Fully threaded	each	per 50
BFMZ820	M8	1.25	13mm	20mm	Yes	\$0.90	\$22.50
BFMZ825	M8	1.25	13mm	25mm	Yes	\$0.95	\$24.00
BFMZ830	M8	1.25	13mm	30mm	Yes	\$1.10	\$27.50
BFMZ850	M8	1.25	13mm	50mm	No	\$1.55	\$39.00

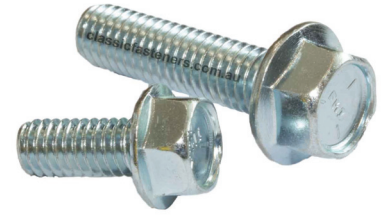


Flange Bolts - Metric



Metric Hex Flanged Bolts							
Stainless A2-304							
SKU	Dia	Pitch	AF	Length	Fully threaded	each	per 50
BFMS616	M6	1.00	10mm	16mm	Yes	\$1.15	\$29.00
BFMS620	M6	1.00	10mm	20mm	Yes	\$1.30	\$32.50
BFMS625	M6	1.00	10mm	25mm	Yes	\$1.40	\$35.00
BFMS630	M6	1.00	10mm	30mm	Yes	\$1.50	\$37.50
BFMS816	M8	1.25	13mm	16mm	Yes	\$2.05	\$51.50
BFMS820	M8	1.25	13mm	20mm	Yes	\$2.30	\$57.50

Flange Bolts - UNC



UNC Hex Serrated Flanged Set Screw SAE Grade 5

Manufactured to IFI 111

Clear Zinc, Serrated

SKU	Dia in	Pitch tpi	AF in	Length in	Fully threaded	each	per 25	per 50
BFUCZ1412	1/4	20	3/8	1/2	Yes	\$0.65		\$16.50
BFUCZ1458	1/4	20	3/8	5/8	Yes	\$0.75		\$19.00
BFUCZ1434	1/4	20	3/8	3/4	Yes	\$0.95		\$24.00
BFUCZ141	1/4	20	3/8	1	Yes	\$1.00		\$25.00
BFUCZ14114	1/4	20	3/8	1 1/4	Yes	\$1.10		\$27.50
BFUCZ14112	1/4	20	3/8	1 1/2	Yes	\$1.20		\$30.00
BFUCZ14134	1/4	20	3/8	1 3/4	Yes	\$1.40	\$17.50	
BFUCZ142	1/4	20	3/8	2	Yes	\$1.45	\$18.50	
BUCZ51612	5/16	18	1/2	1/2	Yes	\$1.20		\$30.00
BUCZ51658	5/16	18	1/2	5/8	Yes	\$1.30		\$32.50
BUCZ51634	5/16	18	1/2	3/4	Yes	\$1.40		\$35.00
BUCZ5161	5/16	18	1/2	1	Yes	\$1.55		\$39.00
BUCZ516114	5/16	18	1/2	1 1/4	Yes	\$1.75	\$22.00	
BUCZ516112	5/16	18	1/2	1 1/2	Yes	\$2.00	\$25.00	
BUCZ516134	5/16	18	1/2	1 3/4	Yes	\$2.20	\$27.50	
BUCZ5162	5/16	18	1/2	2	Yes	\$2.45	\$31.00	
BUCZ516214	5/16	18	1/2	2 1/4	Yes	\$2.75	\$34.50	
BUCZ516212	5/16	18	1/2	2 1/2	Yes	\$3.00	\$37.50	
BUCZ3834	3/8	16	9/16	3/4	Yes	\$2.00	\$25.00	
BUCZ381	3/8	16	9/16	1	Yes	\$2.25	\$28.50	
BUCZ38114	3/8	16	9/16	1 1/4	Yes	\$2.55	\$32.00	
BUCZ38112	3/8	16	9/16	1 1/2	Yes	\$3.00	\$37.50	
BUCZ38134	3/8	16	9/16	1 3/4	Yes	\$3.40	\$42.50	
BUCZ382	3/8	16	9/16	2	Yes	\$3.70	\$46.50	

Workshop Packs

UNF High Tensile Pack

Silver zinc plated

Save 20% off purchasing items individually

310 items

\$76.00

Qty	Description	SAE Grade	Diameter	Length
10	Set Screw	5	1/4	1/2
10	Set Screw	8	1/4	3/4
10	Set Screw	8	1/4	1
5	Bolt	8	1/4	1 1/2
5	Bolt	8	1/4	2
5	Bolt	8	1/4	2 1/2
2	Bolt	8	1/4	3
10	Set Screw	8	5/16	3/4
10	Set Screw	8	5/16	1
10	Set Screw	8	5/16	1 1/4
5	Bolt	8	5/16	1 1/2
5	Bolt	8	5/16	2
5	Bolt	8	5/16	2 1/2
2	Bolt	8	5/16	3
10	Set Screw	8	3/8	3/4
5	Set Screw	8	3/8	1
5	Bolt	8	3/8	1 1/2
2	Bolt	8	3/8	2
2	Bolt	8	3/8	2 1/2
2	Bolt	8	3/8	3
30	Standard Nut	8	1/4	
30	Standard Nut	8	5/16	
20	Standard Nut	8	3/8	
10	Nylon Insert Lock Nut	8	1/4	
10	Nylon Insert Lock Nut	5	5/16	
10	Nylon Insert Lock Nut	5	3/8	
30	High Tensile Flat Washer		1/4	
30	High Tensile Flat Washer		5/16	
20	High Tensile Flat Washer		3/8	
310	Total items in pack			

UNF Stainless Steel Pack

Stainless steel grade 304/316

Save 20% off purchasing items individually

130 items



\$115.00

Qty	Grade	Description	Diameter	Length
5	304	Set Screw	1/4"	1/2"
10	304	Set Screw	1/4"	3/4"
10	304	Set Screw	1/4"	1"
2	304	Bolt	1/4"	1 1/2"
2	304	Bolt	1/4"	2"
5	304	Set Screw	5/16"	1/2"
10	304	Set Screw	5/16"	3/4"
10	304	Set Screw	5/16"	1"
5	304	Set Screw	5/16"	1 1/2"
2	304	Bolt	5/16"	2"
5	304	Set Screw	3/8"	3/4"
5	304	Set Screw	3/8"	1"
2	304	Bolt	3/8"	1 1/2"
2	304	Bolt	3/8"	2"
15	316	Std Nut	1/4"	
15	316	Std Nut	5/16"	
10	316	Std Nut	3/8"	
5		Nylon Insert Lock Nut	1/4"	
5		Nylon Insert Lock Nut	5/16"	
5		Nylon Insert Lock Nut	3/8"	
130		Total items in pack		

Workshop Packs

UNC Stainless Steel Pack

Stainless steel grade 304/316

Save 20% off purchasing items individually

130 items

\$51.00

METRIC Bolt & Nuts

Stainless Steel 316



260 items

\$75.00

Qty	Grade	Description	Diameter	Length
4	316	Set Screw	1/4	1/2
6	316	Set Screw	1/4	3/4
4	316	Set Screw	1/4	1
4	316	Bolt	1/4	1 1/2
2	304	Bolt	1/4	2
2	304	Bolt	1/4	2 3/4
4	316	Set Screw	5/16	1/2
6	316	Set Screw	5/16	3/4
4	316	Set Screw	5/16	1
4	316	Bolt	5/16	1 1/2
2	316	Bolt	5/16	2
2	316	Bolt	5/16	2 1/2
4	316	Set Screw	3/8	3/4
2	316	Set Screw	3/8	1
2	316	Set Screw	3/8	1 1/4
2	316	Bolt	3/8	2
2	304	Bolt	3/8	2 1/2
22	316	Std Nut	1/4	
22	316	Std Nut	5/16	
12	316	Std Nut	3/8	
6	316	Nylon Insert Lock Nut	1/4	
6	316	Nylon Insert Lock Nut	5/16	
6	316	Nylon Insert Lock Nut	3/8	
130		Total items in pack		

Metric Bolt & Nut Pack - 260 Pieces			B1
Stainless 316			
		Length	Qty
M5	Set screw	16	20
	Set screw	20	20
M6	Set screw	12	10
	Set screw	16	10
	Set screw	20	10
	Set screw	25	10
	Set screw	30	10
	Bolt	40	10
M8	Set screw	16	10
	Set screw	25	10
	Set screw	30	10
	Bolt	40	10
M5	Standard nut		20
M6	Standard nut		20
M8	Standard nut		20
M5	Nylon insert lock nut		20
M6	Nylon insert lock nut		20
M8	Nylon insert lock nut		20
	6 Compartment box		1
			261

Assortment Packs

BSCY—26tpi Mild Steel Pack

Silver zinc plated

Save 20% off purchasing items individually

160 items

\$138.00

BSCY - 26tpi Nut & Bolt Pack			B2
Mild steel - Zinc plated			
Diameter	Description	Length	Qty
1/4	Set Screw	1/2	6
1/4	Set Screw	3/4	10
1/4	Set Screw	1	10
1/4	Bolt	1 1/2	5
1/4	Bolt	2	2
5/16	Set Screw	1/2	4
5/16	Set Screw	3/4	6
5/16	Set Screw	1	6
5/16	Set Screw	1 1/2	4
5/16	Set Screw	2	2
3/8	Set Screw	3/4	2
3/8	Set Screw	1	2
3/8	Set Screw	1 1/2	2
3/8	Set Screw	2	2
1/4	Std Nut		30
5/16	Std Nut		25
3/8	Std Nut		15
7/16	Std Nut		4
1/2	Std Nut		2
1/4	Nylon Insert Lock Nut		5
1/4	Half Nut		5
5/16	Half Nut		5
3/8	Half Nut		5
	6 Compartment Box 1H-038		1
Total items in pack			160

BSF High Tensile Pack

Grade R high tensile bolts & set screws.



Silver zinc plated

Save 20% off purchasing items individually

218 items

\$162.00

BSF - High Tensile Bolt Pack			B3
Zinc plated			
Diameter	Description	Length	Qty
1/4	Set Screw	1/2	10
1/4	Set Screw	3/4	10
1/4	Set Screw	1	10
1/4	Bolt	1 1/2	4
1/4	Bolt	2	2
5/16	Set Screw	3/4	8
5/16	Set Screw	1	8
5/16	Bolt	1 1/2	5
5/16	Bolt	2	5
5/16	Bolt	2 1/2	2
3/8	Set Screw	1	5
3/8	Bolt	1 1/2	5
3/8	Bolt	2	2
3/8	Bolt	2 1/2	2
1/4	Std Nut		20
5/16	Std Nut		20
3/8	Std Nut		15
1/4	Nylon Insert Lock Nut		10
5/16	Nylon Insert Lock Nut		10
3/8	Nylon Insert Lock Nut		5
1/4	High Tensile Flat Washer		20
5/16	High Tensile Flat Washer		20
3/8	High Tensile Flat Washer		20
Total items in pack			218

Assortment Packs

Metric Socket Cap Screw Pack Stainless Steel Grade 316

100 items

\$40.00



Qty	Description	Diameter	Length	Grade
10	Socket cap screw	M5	10mm	316
10	Socket cap screw	M5	16mm	316
10	Socket cap screw	M5	20mm	316
10	Socket cap screw	M6	12mm	316
10	Socket cap screw	M6	16mm	316
10	Socket cap screw	M6	20mm	316
10	Socket cap screw	M6	25mm	316
10	Socket cap screw	M6	30mm	316
5	Socket cap screw	M6	40mm	316
5	Socket cap screw	M8	20mm	316
5	Socket cap screw	M8	25mm	316
5	Socket cap screw	M8	30mm	316
100	Total items in pack			

Cap Head - Metric

Length is measured from under head.



METRIC - Coarse DIN 912			STAINLESS 304		STAINLESS 316			ALLOY STEEL Class 12.9 Zinc	
Dia	Pitch	Length	Each	Per 100	Each	Per 50	Per 100	Each	Per 100
M2	0.4mm	6mm		\$6.40					
		8mm		\$7.50					
		10mm		\$10.00					
M2.5	0.45mm	6mm		\$6.00					
		8mm		\$7.50					
		10mm		\$11.00					
M3	0.5mm	6mm					\$7.00		
		8mm					\$7.00		
		10mm			\$0.14		\$7.00		
		12mm			\$0.14		\$7.00		
M4	0.70mm	10mm			\$0.20		\$10.00		
		12mm			\$0.26		\$13.00		
		16mm			\$0.21		\$11.00		
		20mm			\$0.24		\$12.00		
M5	0.80mm	8mm			\$0.32		\$16.00	\$0.18	\$9.00
		10mm			\$0.28		\$14.00		
		12mm			\$0.30		\$15.00	\$0.20	\$10.00
		16mm			\$0.30		\$15.00	\$0.22	\$11.00
		20mm	\$0.22	\$11.00	\$0.34		\$17.00	\$0.24	\$12.00
		25mm			\$0.40		\$20.00	\$0.26	\$13.00
		30mm	\$0.34	\$17.00	\$0.40		\$20.00	\$0.28	\$14.00
		35mm	\$0.40	\$20.00	\$0.50		\$25.00		
M6	1.00mm	50mm			\$0.60		\$30.00		
		10mm			\$0.40		\$20.00		
		12mm			\$0.44		\$22.00	\$0.23	\$12.00
		16mm			\$0.46		\$23.00	\$0.23	\$12.00
		20mm			\$0.45		\$23.00	\$0.25	\$13.00
		25mm			\$0.50		\$25.00	\$0.25	\$13.00
		30mm			\$0.58		\$29.00	\$0.26	\$13.00
		35mm	\$0.42	\$21.00	\$0.60		\$30.00	\$0.29	\$15.00
		40mm			\$0.60		\$30.00	\$0.38	\$19.00
		45mm			\$0.60		\$30.00	\$0.38	\$19.00
		50mm			\$0.70		\$35.00	\$0.46	\$23.00
		55mm			\$0.74		\$37.00	\$0.55	\$28.00
		60mm			\$0.76		\$38.00	\$0.74	\$37.00
65mm						\$0.80	\$40.00		
70mm					\$1.20	\$60.00	\$0.86	\$43.00	
75mm					\$1.30	\$32.50	\$1.00	\$50.00	
80mm					\$1.60	\$40.00	\$1.35	\$68.00	
90mm							\$1.60	\$80.00	
100mm					\$2.05	\$51.00	\$1.90	\$95.00	

Cap Head - Metric



METRIC - Coarse DIN 912			STAINLESS 304		STAINLESS 316			ALLOY STEEL Class 12.9 Zinc	
Dia	Pitch	Length	Each	Per 100	Each	Per 50	Per 100	Each	Per 100
M7	1.00mm	50mm	\$5.70						
M8	1.25mm	16mm							
		20mm			\$0.80		\$40.00	\$0.40	\$20.00
		25mm			\$1.00		\$50.00		
		30mm			\$1.00		\$50.00	\$0.50	\$25.00
		35mm	\$0.84	\$42.00	\$1.18		\$59.00		
		40mm			\$1.24		\$62.00	\$0.60	\$30.00
		50mm			\$1.30		\$65.00	\$0.60	\$30.00
		55mm						\$0.82	\$41.00
		60mm					\$1.40	\$35.00	\$0.90
		70mm			\$1.50	\$37.50	\$1.00	\$50.00	
M10	1.50mm	35mm						\$1.00	\$50.00

M10 Fine Thread (1.25 pitch)

M10 1.50mm pitch socket cap screws are not usually used on Japanese motorcycles. Use the 1.25mm fine pitch screws below that have been specially made for this purpose.

METRIC - FINE DIN			STAINLESS 304	ALLOY STEEL Class 12.9 Zinc	
Dia	Pitch	Length	Each	Each	Per 100
M8	1.00mm	25mm		\$1.15	\$58.00
M8	1.00mm	30mm		\$1.20	\$60.00
M10	1.25mm	35mm	\$12.90		
M10	1.25mm	75mm	\$12.60		

Cap Head

Length is measured from under head.



BSW		Length	CHROME	Zinc				
Dia	BSW		Class 12.9	Alloy Steel Class 12.9	Each	Per 100		
1/4"	BSW	1/2	\$2.05					
		3/4	\$2.60	\$0.32	\$16.00			
		7/8		\$0.32	\$16.00			
		1	\$2.90	\$0.50	\$25.00			
		1 1/4		\$0.45	\$23.00			
		1 1/2	\$3.25	\$0.60	\$22.50	\$30.00		
		1 3/4		\$0.50	\$25.00			
		2	\$3.55	\$0.80	\$40.00			
		2 1/4		\$1.05	\$52.50			
		2 1/2	\$4.85	\$1.20	\$60.00			
		2 3/4		\$1.65	\$82.50			
		3	\$4.35	\$1.85	\$92.50			
		5/16"	BSW	1 1/4		\$1.00	\$50.00	
				2		\$0.68	\$20.50	

BSF		Length	STAINLESS	CHROME	High Tensile		High Tensile					
Dia	BSF		304	Each	Zinc	Each	Per 100	Black Oxide	Each	Per 25	Per 50	
1/4"	BSF	1/2	\$4.85	\$1.60	\$0.70	\$53.00						
		5/8					\$1.05		\$26.50			
		3/4					\$1.05					
		1					\$1.05					
		1 1/4					\$1.05		\$39.50			
		1 1/2					\$1.20		\$22.50			
		2	\$11.65									
		2 1/2					\$1.60	\$30.00				
		5/16"	BSF	3/4				\$1.30	\$24.25			
				1				\$1.30	\$24.25			
2						\$2.00	\$37.50					

Cap Head



BA			STAINLESS	High Tensile	
Size	Thread	Length	304	Black Oxide	
			Each	Each	Per 25
2	BA	3/8	\$2.25	\$0.70	\$17.00
		7/16		\$0.80	\$15.00
		1/2		\$0.85	\$16.00
		7/8		\$1.05	\$19.75
		1			
		1 1/2		\$1.20	\$22.50
		2		\$1.40	\$26.25

Cap Head

Unified National ANSI B18.3 1960		Length	CHROME Class 12.9	Zinc Class 12.9	
Dia				each	per 100
1/4" - 20 UNC	1/2		\$2.05	\$0.26	\$13.00
		3/4	\$2.60	\$0.32	\$16.00
		7/8		\$0.32	\$16.00
	1	1	\$2.90	\$0.40	\$20.00
		1 1/4		\$0.45	\$22.50
		1 1/2	\$3.25	\$0.60	\$30.00
		1 3/4		\$0.50	\$25.00
		2	\$3.55	\$0.60	\$30.00
		2 1/4		\$1.05	\$52.50
		2 1/2	\$4.85	\$1.20	\$60.00
		2 3/4		\$1.65	\$82.50
		3	\$4.35	\$1.85	\$92.50
5/16" -18 UNC		1 1/4		\$0.80	\$40.00
	2		\$0.80	\$40.00	
5/16" -24 UNF	3/4		\$0.80	\$40.00	
	1		\$0.75	\$38.00	
3/8" -24 UNF	1 1/4		each	per 50	
			\$1.40	\$35.00	



Cap Head



Unified National ANSI B18.3 1960			STAINLESS 304			
Dia		Length	Each	Per 25	Per 50	Per 100
5-40	UNC	5/8	\$0.25			\$12.50
6-32	UNC	3/8	\$0.30			\$15.00
		1/2	\$0.31			\$15.50
		3/4	\$0.34			\$17.00
		1 1/4	\$0.64			\$32.00
8-32	UNC	1/2	\$0.40			\$20.00
		5/8	\$0.43			\$22.00
		3/4	\$0.45			\$23.00
10-24	UNC	1/2	\$0.27			\$16.00
		3/4	\$0.30			\$15.00
		1 1/2	\$0.50			\$25.00
10-32	UNF	1/2	\$0.66			\$33.00
		3/4	\$0.66			\$33.00
		1	\$0.74			\$37.00
		1 1/4	\$1.00			\$70.00
		1 1/2	\$0.80			\$40.00
1/4" - 20	UNC	1/2	\$0.35			\$18.00
		3/4	\$0.36			\$18.00
		1	\$0.35			\$18.00
		1 1/4	\$0.44			\$22.00
		1 1/2	\$0.48			\$24.00
		1 3/4	\$0.50			\$25.00
		2	\$0.72			\$36.00
		2 1/4	\$0.64		\$24.00	\$32.00
		2 1/2	\$1.06			\$53.00
		2 3/4	\$1.10			\$55.00
1/4" - 28	UNF	1/2	\$0.70			\$35.00
		3/4	\$0.80			\$40.00
		1	\$0.90			\$45.00
5/16" - 18	UNC	3/4	\$0.54			\$27.00
		7/8	\$0.55			\$28.00
		1	\$0.57			\$28.00
		1 1/2	\$0.60			\$30.00
		1 3/4	\$0.83			\$41.00
		2	\$0.80			\$40.00
5/16" - 24	UNF	3/4	\$0.90			\$45.00
		1	\$1.25		\$32.00	
		1 1/4	\$1.90	\$33.25		
		1 3/4	\$2.10	\$36.75		
3/8" - 24	UNF	1 1/4	\$1.60		\$40.00	

Countersunk Socket



METRIC - Coarse			ALLOY STEEL		
DIN 7991			G12.9 Zinc		
Dia	Pitch	Length	Each	Per 100	SKU
M6	1.00mm	12mm	\$0.32	\$16.00	SCMZ612
M8	1.25mm	20mm	\$0.35	\$17.00	SCMZ820
		25mm	\$0.40	\$20.00	SCMZ825
		30mm	\$0.58	\$29.00	SCMZ830

METRIC - Coarse			STAINLESS 304		STAINLESS 316			
DIN 7991			Each	Per 100	Each	Per 50	Per 100	
M3	0.5mm	6mm					\$3.20	
		8mm					\$5.00	
								\$5.00
		12mm						\$5.00
		20mm						\$7.80
		25mm						\$9.00
		30mm						\$11.00
M4		10mm	\$0.50	\$5.40			\$7.80	
		12mm					\$8.00	
		16mm	\$0.50	\$6.80				
		20mm	\$0.50	\$8.10			\$10.00	
M5	0.80mm	12mm			\$0.24		\$12.00	
		16mm	\$0.18	\$9.00	\$0.28		\$14.00	
		20mm			\$0.32		\$16.00	
		25mm			\$0.38		\$19.00	
		30mm			\$0.30		\$15.00	
		35mm			\$0.34		\$17.00	
M6	1.00mm	12mm	\$0.18	\$9.00				
		16mm	\$0.22	\$11.00				
		20mm			\$0.42		\$21.00	
		25mm		\$14.00	\$0.44		\$22.00	
		30mm	\$0.40	\$20.00	\$0.60		\$30.00	
		35mm			\$0.70		\$35.00	
		50mm PT			\$1.00		\$50.00	
		60mm FT			\$1.20			
		60mm PT			\$1.15	\$28.50		
		70mm PT			\$1.60	\$40.00		
80mm PT			\$1.60	\$40.00				

Countersunk Socket

Length is measured from top of head.



UNC ANSI B18.3			STAINLESS 304	
Dia		Length	Each	Per 100
4-40	UNC	1/4		\$6.50
10-24	UNC	1/2	\$0.35	\$21.00
		1	\$0.45	\$27.00
1/4"	UNC	1/2	\$0.40	\$20.00
		3/4	\$0.40	\$20.00
		1	\$0.50	\$34.00
		1 1/4	\$0.70	\$42.00
5/16"	UNC	2	\$1.00	\$50.00

BA			ALLOY STEEL Black Oxide	
Size	Thread	Length	Each	Per 50
2	BA	3/8	\$0.85	\$21.50
		1/2	\$0.90	\$22.50

Button Head



METRIC - Coarse ISO 7380			STAINLESS 304		STAINLESS 316		ALLOY STEEL Class 12.9 Zinc	
Dia	Pitch	Length	Each	Per 100	Each	Per 100	Each	Per 100
M3								
M4	0.70mm	16mm			\$0.18	\$9.00		
		20mm			\$0.20	\$10.00		
M5	0.80mm	12mm			\$0.26	\$13.00		
		10mm			\$0.26	\$13.00		
		16mm			\$0.28	\$14.00		
		20mm			\$0.42	\$21.00	\$0.20	\$10.00
		25mm			\$0.48	\$25.00		
		30mm			\$0.50	\$25.00		
M6	1.00mm	8mm			\$0.48	\$24.00		
		10mm			\$0.26	\$13.00	\$0.20	\$10.00
		12mm			\$0.36	\$18.00	\$0.22	\$11.00
		16mm			\$0.46	\$23.00	\$0.24	\$12.00
		20mm			\$0.40	\$20.00	\$0.26	\$13.00
		25mm	\$0.28	\$14.00	\$0.50	\$25.00	\$0.28	\$14.00
		30mm			\$0.50	\$25.00	\$0.36	\$18.00
		35mm			\$0.65	\$33.00	\$0.42	\$21.00
		40mm	\$0.50	\$25.00	\$1.00	\$50.00	\$0.44	\$22.00
		45mm					\$0.48	\$24.00
		50mm	\$0.60	\$30.00	\$1.20	\$60.00	\$0.52	\$26.00
		60mm					\$0.65	\$33.00
		70mm					\$0.90	\$45.00
		75mm					\$0.84	\$42.00
		80mm					\$1.18	\$59.00
M8	1.25mm	16mm			\$0.60	\$30.00		
		20mm			\$0.64	\$32.00		
		25mm			\$0.72	\$36.00		
		30mm			\$0.90	\$45.00		
		35mm			\$0.86	\$43.00		
		50mm	\$1.00	\$50.00				

Button Head

Length is measured from under head.



UN			STAINLESS 304	
Dia		Length	Each	Per 100
10-24	UNC	3/4	\$0.35	\$17.50
		1		
1/4 - 20	UNC	3/8	\$0.30	\$15.00
		1/2	\$0.46	\$23.00
		3/4	\$0.50	\$25.00
		1	\$0.52	\$26.00
1/4 - 28	UNF	3/4	\$0.80	\$40.00
5/16 - 18	UNC	3/4	\$0.70	\$35.00
		1	\$0.70	\$35.00
		1 1/2	\$1.05	\$53.00
3/8 - 16	UNC	1 1/2	\$1.50	\$75.00

Grub Screws

METRIC - Coarse			ALLOY STEEL	
Cup Point			G12.9 Black	
DIN 916				
Dia	Pitch	Length	Each	Per 100
M8	1.25	20mm	\$0.28	\$14.00



Raised Countersunk, Slot

SLOTTED

Length is measured from edge of head.



BA			ZINC plated		STAINLESS	
		Length	Each	per 100	Each	per 50
2	BA	3/8			\$1.10	
		1/2			\$1.30	
		5/8			\$1.40	
		3/4	\$0.45	\$34.00	\$1.50	
		1	\$1.25		\$1.70	
3	BA	1/2			\$1.80	\$67.50
		3/4			\$1.85	\$69.50
4	BA	3/4				
6	BA	3/4				

BSW			ZINC plated		STAINLESS	
Dia		Length	Each		Each	
1/8	BSW	1/2				
		1	\$0.50		\$1.30	
3/16	BSW	2	\$1.15			

UN			ZINC plated		STAINLESS		
Dia		Length	Each	per 50	Each	per 25	per 50
6-32	UNC	1/2			\$0.50		\$19.00
		5/8			\$0.55		\$19.50
		3/4			\$0.60	\$11.25	
8-32	UNC	3/8			\$0.55		
		1/2			\$0.65	\$12.25	
		3/4			\$0.75	\$14.00	
		1			\$0.80	\$15.00	
10-24	UNC	1/2			\$0.70	\$13.25	
		3/4			\$0.50		\$19.00
		1			\$1.05	\$19.75	
		1 1/2			\$1.10	\$20.50	
10-32	UNF	1/2	\$0.55	\$20.50	\$0.90	\$17.00	
		3/4	\$0.70	\$26.50	\$0.50		\$19.00
		1	\$0.95	\$35.50	\$1.30	\$24.50	
12-24	UNC	1/2	\$0.50	\$17.50	\$1.10		
1/4 - 20	UNC	1/2			\$1.40		
		3/4			\$1.70		
		1			\$1.90		
		1 1/2			\$2.80		
		2			\$3.10		

Raised Countersunk, Slot

Length is measured from the widest part of the head



METRIC - Coarse			STAINLESS	
Dia	Pitch	Length	Each	per 100
M4		20mm	\$0.50	

Raised Countersunk, Phillips/POZI

STEEL, PHILLIPS or POZI drive

Length is measured from edge of head.



UN			ZINC plated Each	STAINLESS	
Dia		Length		Each	per 50
6-32	UNC	1/2		\$0.30	\$11.50
		3/4		\$0.30	\$11.50
8-32	UNC	3/8		\$0.30	\$7.50
		1/2		\$0.30	\$7.50
		3/4		\$0.45	\$17.00
		1		\$0.50	\$19.00
10-24	UNC	1/2		\$0.60	\$22.50
		5/8		\$0.40	\$15.00
		3/4		\$0.40	\$15.00
10-32	UNF	1/2		\$0.30	\$11.25
		5/8		\$0.40	\$15.00
		3/4		\$0.50	\$19.00
		1		\$0.55	\$20.50
12-24	UNC	1/2		\$0.50	\$19.00
1/4 - 28	UNF	1	\$1.00		
5/16 - 24	UNF	1	tba		

METRIC - Coarse			ZINC plated Each	STAINLESS 304	
Dia	Pitch	Length		Each	per 100
M3	0.50	6mm			\$5.00
		8mm			\$5.00
M4	0.70	12mm		\$0.14	\$7.00
M5	0.80	12mm		\$0.18	\$9.00
		25mm		\$0.24	\$12.00
		30mm		\$0.32	\$16.00
M5	0.90	35mm	\$2.50		
M6	1.00	12mm		\$0.80	
		16mm		\$0.20	\$10.00
		20mm		\$0.24	\$12.00
		25mm		\$0.24	\$12.00
		50mm		\$0.50	\$25.00
M8	1.25	20mm		\$1.95	

Countersunk - Slot

STEEL, SLOTTED HEAD

Length is measured from the top of the head.



BSW			ZINC plated			STAINLESS		
Dia		Length	Each	per 100	per 200	Each	per 100	per 200
1/8	BSW	1/2				\$0.20		\$20.00
3/16	BSW	1/2	\$0.18	\$9.00		\$0.25	\$19.00	
		3/4	\$0.20		\$20.00			
		1				\$0.45	\$34.00	
1/4	BSW	1/2	\$0.14	\$11.00				
		3/4	\$0.30		\$30.00			
		1	\$0.32		\$32.00			
		1 1/2	\$0.40		\$40.00			
		2	\$0.50		\$50.00			
5/16	BSW	3/4	\$0.41	\$31.00				
		1	\$0.75	\$36.00				
		1 1/2	\$0.85	\$41.00				

BSF			ZINC plated	
Dia		Length	Each	per 25
1/4	BSF	1/2	\$1.10	\$20.75
		5/8	\$1.10	\$20.75
		3/4	\$1.25	\$23.50
		1	\$1.30	\$24.50
		1 1/4	\$1.60	\$30.00
		1 1/2	\$2.30	\$43.25
		1 3/4	\$1.90	\$35.75
		2	\$2.00	\$37.50
5/16	BSF	1/2	\$1.30	\$24.25
		7/8	\$1.40	\$26.25
		1 1/2	\$1.80	\$33.75
3/8	BSF	1	\$2.60	\$48.75

Countersunk - Slot

STEEL, SLOTTED HEAD

Length is measured from the top of the head.



BA	Length	ZINC plated			
		Each	per 100	per 200	
2	BA	1/2	\$0.50	\$38.00	\$50.00
		3/4	\$0.50	\$38.00	\$50.00
	1	\$0.55	\$41.00	\$56.00	
	1 1/2	\$1.00	\$50.00		
4	BA	5/16	\$0.22	\$11.00	
		1/2	\$0.30		
	5/8	tba			
	3/4	\$0.44	\$33.00	\$44.00	
6	BA	3/16	tba		
		1/4	\$0.15	\$11.00	
		3/8	\$0.15	\$11.00	
		1/2	\$0.24	\$18.00	
		5/8	\$0.15	\$11.00	
		1	\$0.29	\$22.00	

UN Dia	UNC / UNF	Length	ZINC plated			STAINLESS	
			Each	per 50	per 100	Each	per 100
8-32	UNC	3/8				\$0.25	\$12.50
		1/2				\$0.30	
10-32	UNF	3/4	\$0.25	\$9.50			
12-24	UNC	3/4	\$0.35				
1/4 - 20	UNC	1/2	\$0.28		\$14.00		
		3/4	\$0.28		\$14.00		
		1	\$0.35		\$26.00		
		2 1/2	\$1.20		\$60.00		
1/4 - 28	UNF	3/4	\$1.30	\$52.50			
		1	\$1.40	\$48.50			

Countersunk - Phillips

STEEL, PHILLIPS or POZI DRIVE

Length is measured from the top of the head.



METRIC - Coarse DIN 965H			ZINC plated			Stainless 304	STAINLESS 316			
Dia	pitch	Length	Each	per 100	per 200	per 100	Each	per 100	per 200	SKU
M3	0.50	10mm						\$3.75		MSMXS310A4
		16mm						\$5.00		MSMXS316A4
		20mm						\$5.40		MSMXS320A4
M4	0.70	8mm					\$0.10		\$10.00	
		10mm					\$0.12	\$6.00		
		12mm	\$0.05		\$5.00		\$0.12	\$6.00		
		16mm					\$0.12	\$6.00		
		20mm					\$0.14	\$7.00		
		25mm					\$0.20	\$10.00		
		30mm					\$8.00	\$0.22	\$11.00	
		35mm						\$0.30	\$15.00	
M5	0.80	10mm					\$0.20	\$10.00		
		12mm				\$4.40	\$0.16	\$8.00		
		16mm					\$0.20	\$10.00		
		20mm					\$0.26	\$13.00		
		25mm					\$0.30	\$15.00		
		30mm						\$0.35	\$17.00	
M6	1.00	12mm	\$0.23		\$23.00		\$0.28	\$14.00		
		16mm								
		20mm					\$0.32	\$16.00		
		25mm					\$0.48	\$24.00		
		30mm					\$0.55	\$28.00		
M8	1.25	20mm	\$0.35	\$16.50			\$0.54	\$27.00		

Countersunk - Phillips

UN		ZINC plated		STAINLESS 304			
Dia	Length	Each	per 200	Each	per 25	per 50	per 100
4-40 UNC	3/4						\$6.00
6-32 UNC	3/8			\$0.20			
	1/4	\$0.32	\$32.00				
	1/2	\$0.20	\$30.00	\$0.24			\$12.00
	3/4	\$0.22	\$34.00	\$0.26			\$13.00
8-32 UNC	1/2	\$0.21	\$32.00				
	3/4			\$0.26			\$13.00
10-32 UNF	5/16			\$0.30			\$15.00
	1/2			\$0.20			\$10.00
	3/4			\$0.34			\$17.00
	1			\$0.38			\$19.00
12-24 UNC	1/2			\$0.52		\$19.50	\$26.00
	3/4			\$0.50		\$12.50	
	1			\$0.72		\$18.00	
	1 1/2			\$0.90			
1/4 -20 UNC	1/2	\$0.28	\$14.00				
	1	\$0.35	\$18.00				
1/4 - 28 UNF	3/4			\$1.55	\$29.00		
	1			\$1.95	\$36.50		
	1 1/2			\$2.55	\$47.75		
5/16 - 24 UNF	1	\$1.65					



BSW				STAINLESS
Dia	Length			Each
3/16 BSW	1 1/2			\$0.50

Fillister

STEEL, SLOTTED HEAD

Length is measured from under the head.



UN			ZINC plated		STAINLESS 304	
Dia		Length	Each	per 50	Each	per 25
8-32	UNC	3/8			\$0.52	\$11.70
		5/8	\$0.20	\$7.50		
10-24	UNC	1"				
10-32	UNF	5/8"				
		3/4"				
		1"	\$0.85	\$32.00		
12-24	UNC	1/4"	\$1.55			
		3/8"				
		3/4"				
		1"				
1/4-20	UNC	3/4"	\$0.75	\$28.00		
		1"	\$0.75	\$28.00		

STEEL, PHILLIPS HEAD



UNF			ZINC plated	
Dia		Length	Each	per 50
10-32	UNF	1/2"	\$0.50	\$19.00

AMAL CONTROLS MOUNTING SCREWS



1BA & 1/4 BSF FILLISTER HEAD SLOTTED SCREWS

These screws have specially manufactured to suit Amal type throttles and handlebars controls.

[See catalogue page 112](#)

Cheese Head - Slot

STEEL, SLOTTED HEAD

Length is measured from under head.



BA			ZINC plated		STAINLESS	CHROME
		Length	Each	per 100	Each	Each
2	BA	3/8			\$1.05	
		1/2	\$0.42	\$21.00	\$1.10	
		3/4	\$0.34	\$26.00	\$1.25	
		1	\$0.55	\$41.00	\$0.95	
		1 1/2	\$1.00	\$50.00		
3	BA	3/4			\$3.10	\$1.35
		1	\$0.50	\$38.00		
4	BA	5/16	\$0.25	\$12.50		
		1/2	\$0.45	\$23.00		
		3/4	\$0.45	\$23.00		
		1	\$0.32	\$24.00		
		1 1/2	\$0.37	\$28.00		
6	BA	1/4	\$0.15	\$11.00		
		3/8	\$0.15	\$11.00		
		1/2	\$0.27	\$20.00		
		5/8	\$0.15	\$11.00		
		3/4	\$0.27	\$20.00		
		1	\$0.29	\$22.00		

BSW			ZINC plated		STAINLESS	CHROME
Dia		Length	each	per 200	light polish Each	Polished Each
3/16	BSW	1/2			\$1.95	
		5/8			\$2.00	
1/4	BSW		each	per 50		
		1/2	\$0.75	\$28.00	\$2.80	\$4.05
		5/8			\$2.80	
		3/4	\$0.90	\$34.00	\$3.10	\$4.10
		1	\$0.90	\$34.00	\$3.40	
		1 1/4			\$3.70	
		1 1/2	\$1.50		\$4.60	
		1 3/4			\$5.00	
		2			\$5.40	
		2 1/4			\$5.60	
		2 1/2			\$5.70	
		2 3/4			\$6.80	
		3			\$6.90	
		3 1/2			\$9.05	

Cheese Head - Slot

METRIC - Course			STAINLESS	
DIN84			304	
Dia	pitch	Length	Each	per 100
M5	0.80mm	16mm	\$0.35	\$17.00
		20mm	\$0.43	\$21.00



BSF			ZINC plated		STAINLESS
					304
Dia		Length	Each	per 100	Each
1/4	BSF	1/2			\$2.80
		5/8	\$1.30		
		3/4	\$1.35		\$3.90
		1			\$3.80
		1 1/8			\$3.95
		1 1/4			\$3.90
		1 1/2			\$5.40
		2			\$6.60
		2 1/2			\$8.20



BA			BRASS		
			Un-plated		
Size	Thread	Length	Each	per 25	per 50
2	BA	5/16	\$0.40		\$14.00
		1/2	\$1.00	\$18.75	
		5/8	\$0.40		\$14.00
		3/4	\$0.40		\$14.00
3	BA	1/2	\$0.70		
4	BA	5/16	\$0.32		\$11.00
		1/2			
		3/4	\$0.32		\$11.00
		1	\$0.37		\$13.00
5	BA	1/2	\$0.70		
6	BA	1/4			
		1/2	\$0.95		\$35.50
		3/4			
		1	\$0.39		\$13.50



Pan Head, Phillips

Length is measured from under the head.



METRIC - Coarse			ZINC plated		STAINLESS 304		STAINLESS 316		
DIN 7985			per 25	per 200	Each	per 100	Each	per 100	per 200
Dia	pitch	Length							
M2	0.40mm	4mm				\$3.00			
		5mm				\$3.00			
		6mm				\$3.00			
		8mm							
		10mm				\$3.00			
		12mm				\$3.00			
		16mm				\$3.00			
		20mm				\$3.50			
		25mm				\$6.00			
M2.5	0.45mm	5mm				\$3.00			
		6mm				\$3.20			
		8mm				\$3.00			
		10mm				\$3.00			
		12mm				\$3.00			
		16mm				\$3.20			
		20mm				\$5.10			
		25mm				\$5.70			
M3	0.50mm	5mm				\$3.20			
		6mm					\$0.07		\$7.00
		8mm				\$3.50		\$0.12	\$12.00
		10mm					\$0.10		\$10.00
		12mm				\$4.00		\$0.10	\$10.00
		16mm					\$0.11	\$5.50	
		20mm				\$4.50		\$0.14	\$7.00
		25mm					\$0.14	\$7.00	
		50mm					\$0.36	\$18.00	
M4	0.70mm	8mm				\$4.25		\$0.12	\$6.00
		10mm					\$0.14	\$7.00	
		12mm	\$3.75	\$15.00		\$4.90		\$0.16	\$8.00
		16mm	\$4.00	\$16.00		\$5.60		\$0.18	\$9.00
		20mm	\$4.00	\$16.00		\$7.30		\$0.20	\$10.00
		25mm					\$0.22	\$12.00	
		30mm				\$8.90		\$0.28	\$14.00
		40mm				\$10.85		\$0.42	\$21.00
		50mm				\$12.90		\$0.44	\$22.00
60mm					\$0.54	\$27.00			
M5	0.80mm	10mm	\$1.65	\$10.00		\$7.75		\$0.24	\$12.00
		12mm	\$5.00	\$20.00			\$0.24	\$12.00	
		16mm	\$1.75	\$11.00		\$9.30		\$0.30	\$15.00
		20mm					\$0.30	\$15.00	
		25mm				\$12.40		\$0.40	\$20.00
		30mm					\$0.38	\$19.00	
		35mm				\$16.60		\$0.52	\$26.00
		40mm					\$0.55	\$28.00	
50mm				\$24.50		\$0.70	\$35.00		

Pan Head, Phillips

METRIC - Coarse			ZINC plated			STAINLESS 316	
DIN 7985			Each	per 200		Each	per 100
M6	1.00mm	10mm				\$0.40	\$20.00
		12mm				\$0.40	\$20.00
		16mm				\$0.45	\$23.00
		20mm				\$0.50	\$25.00
		25mm				\$0.56	\$28.00
		30mm	\$0.34	\$34.00			
		40mm	\$0.38	\$38.00			



Pan Head, JIS (Phillips)

Smaller head diameter screws than ISO/DIN standard screws.
 As used on many Japanese designed goods.
 Often designated (but not always as that would be too easy) with a dot next to the cross drive on the head.
 The use of JIS compatible screwdrivers is recommended—a standard Phillips screwdriver bottoms out before the flanks engage correctly leading to damaged screw heads.



JIS METRIC				ZINC plated			
ISO thread pitches				each	per 50	per 100	SKU
Dia	pitch	Length	Head diameter				
M4	0.70	4mm	7mm	\$0.20		\$12.00	MPMJZ44
		6mm	7mm	\$0.20		\$12.00	MPMJZ46
		8mm	7mm	\$0.50		\$30.00	MPMJZ48
		10mm	7mm	\$0.30		\$18.00	MPMJZ410
		12mm	7mm	\$0.35		\$21.00	MPMJZ412
		14mm	7mm	\$0.25		\$15.00	MPMJZ414
		16mm	7mm	\$0.45		\$27.00	MPMJZ416
		20mm	7mm	\$0.50		\$30.00	MPMJZ420
		25mm	7mm	\$0.45		\$27.00	MPMJZ425
M5	0.80	8mm	9mm	\$0.40		\$24.00	MPMJZ58
		10mm	9mm	\$0.40		\$24.00	MPMJZ510
		12mm	9mm	\$0.45		\$27.00	MPMJZ512
		16mm	9mm	\$0.30		\$15.00	MPMJZ516
		18mm	9mm	\$0.55		\$33.00	MPMJZ518
		20mm	9mm	\$0.35		\$18.00	MPMJZ520
		25mm	9mm	\$0.55		\$33.00	MPMJZ525
		45mm	9mm	\$1.25	\$37.50		MPMJZ545
		65mm	9mm	\$1.70	\$51.00		MPMJZ565
M6	1.00	8mm	10mm	\$0.40		\$24.00	MPMJZ608
		10mm	10mm	\$0.45		\$27.00	MPMJZ610
		12mm	10mm	\$0.35		\$18.00	MPMJZ612
		16mm	10mm	\$0.40		\$20.00	MPMJZ616
		20mm	10mm	\$0.45		\$23.00	MPMJZ620
		25mm	10mm	\$1.10			MPMJZ625
		30mm	10mm	\$1.25	\$31.50		MPMJZ630
		35mm	10mm	\$1.45	\$36.00		MPMJZ635
		40mm	10mm	\$1.55	\$39.00		MPMJZ640
		45mm	10mm	\$2.00	\$65.00		MPMJZ645
		50mm	10mm	\$1.90	\$47.50		MPMJZ650
		55mm	10mm	\$2.15	\$53.50		MPMJZ655
		60mm	10mm	\$1.65			MPMJZ660
		65mm	10mm	\$2.50	\$62.50		MPMJZ665
		70mm	10mm	\$1.90			MPMJZ670
		75mm	10mm	\$2.05			MPMJZ675
80mm	10mm	\$2.25			MPMJZ680		
90mm	10mm	\$3.70	\$92.50		MPMJZ690		

Pan Head, JIS (Phillips) - Coarse Pitch

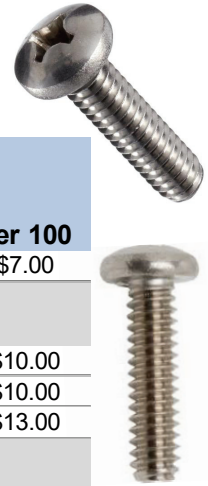
JIS METRIC					
Special JIS Coarse pitch used pre 1967					
Dia	pitch	Length	Head diameter	ZINC plated each	SKU
M3	0.6mm	5mm	5.5mm	\$0.50	MPMJZC35
		10mm	5.5mm	\$0.50	MPMJZC310
M4	0.75mm	10mm		\$0.70	MPMJZC410
M5	0.9mm	12mm	9mm	\$2.00	MPMJZC512
		20mm	9mm	\$2.00	MPMJZC520
		25mm	9mm	\$0.85	MPMJZC525
		35mm	9mm	\$2.50	MPMJZC535



Pan Head, Phillips

STEEL, PHILIPS or POZI HEAD

Length is measured from under the head.



UN			ZINC plated			STAINLESS 304			
Dia		Length	Each	per 100	per 200	Each	per 25	per 50	per 100
4-40	UNC	3/4							\$7.00
6-32	UNC	1/4"	\$0.30	\$23.00	\$30.00				
		3/8"				\$0.20			\$10.00
		1/2"	\$0.45	\$34.00	\$45.00	\$0.20			\$10.00
		5/8"				\$0.25			\$13.00
		3/4"	\$0.42		\$42.00				
		7/8"				\$0.30		\$11.50	
		1"	\$0.40	\$30.00	\$40.00	\$0.35			
		1 1/2"	\$0.48		\$48.00				
8-32	UNC	1/4"				\$0.20			\$10.00
		3/8"				\$0.20			\$10.00
		1/2"	\$0.35	\$26.00	\$35.00	\$0.25			\$12.50
		5/8"				\$0.30			\$15.00
		3/4"	\$0.40	\$20.00		\$0.30			\$15.00
		1"	\$0.40	\$20.00		\$0.30			\$15.00
		1 1/2"	\$0.42	\$21.00					
10-24	UNC	3/8"	\$0.18		\$18.00				
		1/2"	\$0.20		\$20.00				
		5/8"	\$0.20		\$20.00				
		1"	\$0.30		\$27.00				
10-32	UNF	1/4							
		3/8"				\$0.22			\$11.00
		1/2"	\$0.50	\$38.00	\$50.00	\$0.22			\$11.00
		5/8"				\$0.35		\$14.00	
		3/4"	\$0.54	\$41.00	\$54.00	\$0.26			\$13.00
		1"	\$0.57	\$43.00	\$57.00	\$0.30			\$15.00
12-24	UNC	1/4"	\$0.70						
		3/8"	\$0.85			\$0.45			\$23.00
		1/2"	\$0.30	\$23.00					
		5/8"				\$0.55			\$28.00
		3/4"	tba			\$0.60		\$22.50	\$30.00
		1				\$0.60		\$22.50	
		1 1/2				\$0.65			
1/4	UNF	1/2				\$1.15	\$21.50		
		3/4				\$1.35	\$25.25		
		1				\$1.75	\$22.00		
		1 1/4				\$2.15	\$27.00		
		1 1/2				\$1.75		\$43.75	

BSW		ZINC plated	
Dia	Length	each	per 100
5/32 BSW	2"	\$0.20	\$15.00

Pan Head, Slot

STEEL, SLOTTED HEAD

Length is measured from under the head.

BA			ZINC plated Steel		NICKEL plated Steel	
		Length	Each	per 50	Each	per 50
2	BA	1/2	\$0.40		\$0.40	\$15.00

UN			STAINLESS 304		
Dia		Length	Each	per 50	per 100
10-32	UNF	1/4	\$0.36		\$18.00
		5/8	TBA		

METRIC - Coarse			STAINLESS 304		STAINLESS 316	
Dia	pitch	Length	Each	per 100	Each	per 100
M5	0.8mm	12mm	\$0.25	\$12.50		
M6	1.00mm	30mm	\$0.30		\$0.60	\$30.00



Mushroom Head, Slot

UNIVERSAL MUDGUARD SCREW

Shallow dome headed, slotted screws.
Steel Chrome plated
Replacement for BSA part # 15-7161

1/4" BSF x 1/2" \$6.50



Round Head - Slot

STEEL, SLOTTED

Length is measured from under head.



BA	Length	ZINC plated		STAINLESS
		Each	per 100	304 Each
2 BA	3/8			\$1.20
	1/2	\$0.30	\$15.00	\$1.40
	5/8			\$1.60
	3/4	\$0.35	\$25.00	\$1.60
	1	\$0.30	\$21.00	
	1 1/2	\$0.35	\$25.00	
	3 BA	1/2		
4 BA	5/16	\$0.13	\$9.00	
	1/2	\$0.13	\$9.00	
	5/8	\$0.13	\$9.00	
	3/4	\$0.14	\$10.00	
	1 1/4	\$0.15		
6 BA	3/8	\$0.13	\$9.00	
	1/2	\$0.13	\$9.00	
	5/8	\$0.13	\$9.00	
	1	\$0.15	\$11.00	

BSF	Length	ZINC plated	
		Each	per 25
1/4 BSF	1	\$1.60	\$30.00
	1 1/2		
	2		

BSW	Length	Dia	STAINLESS		
			Each	per 100	per 200
1/8 BSW	1/2		\$0.20	\$15.00	
	1		\$0.25	\$19.00	
5/32 BSW (meccano)	1/4		\$0.20		\$20.00
	3/4		\$0.25		\$25.00
	1		\$0.30	\$23.00	
3/16 BSW	1/2		\$0.25	\$13.00	
	3/4		\$0.30	\$15.00	
	1		\$0.35	\$17.00	
1/4 BSW	1		\$0.85	\$42.00	
	1 1/4		\$0.80	\$40.00	

Round Head - Slot

UN			STAINLESS 304	
Dia		Length	Each	per 100
8-32	UNC	3/8	\$0.28	\$14.00
		1/2	\$0.35	\$26.00
		1	\$0.42	\$21.00
10-24	UNC	1	\$0.40	\$20.00
10-32	UNF	1/2	\$0.35	\$17.00
		3/4	\$0.35	\$17.00
		1	\$0.35	\$26.00
1/4-20	UNC	1 1/4	\$1.25	\$63.00
1/4-28	UNF	1	\$2.20	



Round Head - Brass Slot

BRASS, SLOTTED HEAD

Length is measured from under head.

BA			BRASS	
Size	Thread		Un-plated Each	Nickel plated Each
0	BA	1/2"		\$0.10
8	BA	5/8"	\$0.30	



Round Head - Phillips

Length is measured from under head.

UN			ZINC plated	
Dia		Length	Each	per 100
12-24	UNC	1/2"	40c	



Standard Hex Nuts - Steel - Metric

M10 1.50mm pitch and M12 1.75mm are not normally used on Japanese motorcycles. Use 1.25mm fine pitch.

Standard M10 nuts and bolts have a 17mm spanner size, the Japanese often use a smaller 14mm hex size, so please check there is sufficient clearance for the standard size hex before ordering.



METRIC - Coarse DIN 934/JIS			ZINC Cold Formed	ZINC High Tensile Class 8		Hot Dip Galv. Class 5		CHROME
Diameter	pitch	AF	each	each	per 100	each	per 500	Each
M5	0.80	8mm			\$3.00			
M6	1.00	10mm			\$4.00			\$1.90
M8	JIS 1.25	12mm	\$0.22					
M8	1.25	13mm		\$0.09	\$4.50	\$0.15	\$35.00	\$2.15
						each	per 100	
M10	1.50			\$0.17	\$8.50	\$0.20	\$25.00	
M12	1.75			\$0.25	\$13.00			
				each	per 50	each	per 100	
M14	2.00	21mm		\$0.70	\$17.50			
M16	2.00	24mm				\$0.60	\$33.00	

METRIC - Coarse DIN 934			STAINLESS 304			STAINLESS 316		
Diameter	pitch	AF	Each	per 100	per 200	Each	Per 100	Per 200
M2	0.40	4mm						\$6.00
M2.5	0.45	5mm			\$6.00			\$6.00
M3	0.50	5.5mm						\$4.00
M4	0.70	7mm				\$0.06		\$6.00
M5	0.80	8mm				\$0.07	\$3.50	
M6	1.00	10mm				\$0.13	\$6.50	
M7	1.00	11mm	\$0.50	\$25.00				
M8	1.25	13mm				\$0.25	\$13.00	
M10	1.50	17mm				\$0.50	\$25.00	
M12	1.75	19mm		\$29.50		\$0.95	\$46.50	

METRIC - Fine			STAINLESS 304		STAINLESS 316	
Diameter	pitch	AF	Each	per 100	Each	Per 100
M8	1.00	13mm	\$0.82			
M10	1.00	17mm	\$1.65		\$1.70	\$85.00
M10	JIS 1.25	14mm	\$4.00			
M10	1.25	17mm	\$0.90	\$45.00		
M12	1.00	19mm	\$3.20			
M12	1.50	19mm	\$2.30			

METRIC - Fine			ZINC Steel		ZINC High Tensile Class 8		ZINC High Tensile Class 10	
Diameter	pitch	AF	Each	Per 100	Each	per 100	Each	per 100
M8	AS1112 1.00	13mm			\$0.12	\$9.00		
M10	JIS 1.25	14mm	\$0.32	\$16.00				
M12	AS1112 1.25	18mm			\$0.32	\$16.00	\$0.50	\$25.00

Standard Hex Nuts - Steel

All zinc plated full nuts are silver zinc plated.



BA		Standard Nuts		ZINC plated		STAINLESS 304	
		tpi		Each	per 100	Each	
6	BA	47.9			\$7.00		
5	BA	43.0		\$0.16	\$12.00		
4	BA	38.5		\$0.10	\$8.00		
3	BA	34.8		\$0.21	\$15.00		
2	BA	31.4		\$0.14	\$11.00	\$0.35	
1	BA	28.2		\$0.34	\$24.00		
0	BA	25.4		\$0.30	\$23.00		

BSF		Standard Nuts		ZINC plated		STAINLESS 304	
		tpi	AF	Each	per 100	single chamfer	double chamfer
						Each	Each
3/16	BSF	32				Use 2BA	
1/4	BSF	26	0.445"	\$0.30	\$23.00		\$0.45
5/16	BSF	22	0.520"	\$0.35	\$26.00	\$3.00	\$1.60
3/8	BSF	20	0.595"	\$0.55	\$41.00	\$3.60	
7/16	BSF	18	0.710"	\$1.35			
1/2	BSF	16	0.812"	\$1.60			
9/16	BSF	16	0.916"	tba			
5/8	BSF	14	1.000"	\$3.50		\$5.00	
3/4	BSF	12	1.200"	\$4.00			
7/8	BSF	11	1.295"	\$5.00			
1	BSF	10	1.480"	\$10.00			

BSF		Standard Nuts		ZINC plated	
		tpi	AF	Each	per 50
1/4	BSF	26	0.445"	\$0.95	\$35.50

BSW		Standard Nuts		ZINC plated		STAINLESS 304	
		tpi	AF	each	per 200	Each	per 200
1/8	BSW	40	0.220"	\$0.06	\$6.00	\$0.25	\$26.00
5/32	BSW	32	0.248"	\$0.08	\$8.00	\$0.26	\$26.00
3/16	BSW	24	0.324"	\$0.08	\$8.00	\$0.17	\$17.00
1/4	BSW	20	0.445"	\$0.10	\$10.00		
5/16	BSW	18	0.525"	\$0.15	\$16.00		
3/8	BSW	16	0.600"	\$0.28	\$28.00		
1/2	BSW	12	0.750"			\$1.50	

Standard Hex Nuts - Steel - BSCY (CEI)

BSCY thread is used on many English motorbikes and bicycles from circa 1900 through to the 1960's.

Satin chrome has an appearance similar to cadmium plate with greater durability than zinc plate.



BSCY (CEI)		Standard Nuts		ZINC plated		STAINLESS	CHROME	SATIN
		tpi	AF	Each	per 50	304 Each	Each	Each
1/4	BSF	26	0.445"	USE 1/4 BSF				
5/16	BSCY	26	0.520"	\$0.85	\$32.00	\$3.00		
3/8	BSCY	26	0.595"	\$1.40	\$52.50	\$3.65		
7/16	BSCY	26	0.710"	\$1.45	\$54.50	\$5.15	\$3.25	
1/2	BSCY	26	0.812"	\$2.10	\$79.00	\$6.90		
9/16	BSCY	26	0.920"			\$8.40		
7/16	BSCY	20	0.710"	\$1.30 *	\$48.75 *	\$5.15		
1/2	BSCY	20	0.812"	\$2.15	\$80.50	\$6.90	\$3.95	\$4.00
7/8	BSCY	20	1.295"					\$10.00

* Height of 7/16 - 20tpi BSCY zinc nuts is 0.310" which is thinner than the standard minimum height of 0.365"

Reduced Hex Nuts - Steel - BSCY (CEI)

BSCY Reduced Hex Nuts						ZINC plated		Stainless	Satin Chrome
		tpi	AF	Spanner size	Height & Notes	Each	per 25	Each	Each
1/4	BSCY	26	0.322"	3/16 BS	Std height 0.228"	\$1.00	\$18.75		
5/16	BSCY	26	0.438"	1/4 BS	Thin nut, 0.195" high BSA Part 24-0563 BSA rear wheel adjuster lock nut	\$0.85	\$16.00		
5/16	BSCY	26	0.438"	1/4 BS	Std height, 0.250" Used on BSA carb & magneto flanges	\$0.95	\$17.75	\$3.05	\$0.70
5/16	BSCY	26	0.438"	1/4 BS	Tall nut, 0.345" high Used on BSA gearbox	\$0.90	\$17.00		
5/16	BSCY	26	0.438"	1/4 BS	Tall nut, 3/8" (0.375") high Used on BSA gearbox			\$2.95	
3/8	BSCY	26	0.510"	5/16 BS	Tall nut, 0.307" high High Tensile Used on Triumph cylinder base	\$2.05	\$38.50		
1/2	BSCY	26	0.710"	7/16 BS	Nut height 0.318"	\$1.90	\$35.75		
5/8	BSCY	26	0.750"	19mm	Thin nut 0.200" Lucas Wiper Wheel Box Hex Nut Lucas Part 15311 BMC Part 37H6316			\$5.65	
5/8	BSCY	26	0.920"	9/16 BS	Nut height 0.500"			\$10.70	
9/16	BSCY	20	0.820"	1/2 BS	Nut height 0.500"			\$7.05	
5/8	BSCY	20	0.920"	9/16 BS	Nut height 0.500"			\$10.70	

Standard Hex Nuts - Steel - Unified Series



UNC	Standard Nuts		CHROME
	tpi		SAE Grade 2
			Each
1/4	20	UNC	\$1.00
5/16	18	UNC	\$1.30
3/8	16	UNC	\$1.60

UNF	Standard Nuts		CHROME	CHROME
	tpi		SAE Grade 2	SAE Grade 5
			Each	Each
10-32	32	UNF		
1/4	28	UNF	\$0.95	\$1.20
5/16	24	UNF	\$1.25	\$1.35
3/8	24	UNF	\$1.50	\$1.65
7/16	20	UNF	\$2.50	\$2.50
1/2	20	UNF	\$3.40	
5/8	18	UNF	\$4.95	

UNC	Standard Nuts		ZINC plated			ZINC plated	
	tpi		Mild Steel			SAE Grade 8	
			Each	per 100		Each	per 100
6-32	32	UNC	\$0.25	\$19.00			
8-32	32	UNC	\$0.30	\$23.00			
10-24	24	UNC					
12-24	24	UNC	\$0.52	\$36.00			
1/4	20	UNC				\$0.13	\$6.50
5/16	18	UNC				\$0.15	\$7.50
3/8	16	UNC				\$0.20	\$10.00
7/16	14	UNC				\$0.36	\$18.00
1/2	13	UNC				\$0.36	\$18.00

UNF	Standard Nuts		ZINC plated		ZINC plated		ZINC plated	
	tpi		Mild Steel		SAE Grade 5		SAE Grade 8	
			Each	per 100	Each	per 100	Each	per 100
10-32	32	UNF	\$0.25	\$19.00				
1/4	28	UNF			\$ 4.50		\$0.15	\$7.50
5/16	24	UNF			\$ 7.00		\$0.20	\$10.00
3/8	24	UNF			\$11.20		\$0.25	\$12.50
7/16	20	UNF	\$0.15	\$10.00	\$0.35		\$0.40	\$20.00
1/2	20	UNF					\$0.40	\$20.00
9/16	18	UNF					\$0.75	\$37.50

Standard Hex Nuts - Stainless - Unified Series



UNC	Standard Nuts		STAINLESS 304		STAINLESS 316	
			Each	per 100	Each	per 200
	tpi					
4-40	40	UNC		\$4.50		
6-32	32	UNC	\$0.10	\$5.00		
8-32	32	UNC	\$0.14	\$8.00		
10-24	24	UNC			\$0.15	\$15.00
12-24	24	UNC	\$0.20	\$10.00		
			Each	per 100	Each	per 100
1/4	20	UNC			\$0.18	\$9.00
5/16	18	UNC			\$0.25	\$13.00
3/8	16	UNC			\$0.38	\$19.00

UNF	Standard Nuts		STAINLESS 316	
			Each	per 100
	tpi			
10-32	32	UNF	\$0.20	\$10.00
1/4	28	UNF	\$0.26	\$13.00
5/16	24	UNF	\$0.34	\$17.00
3/8	24	UNF	\$0.50	\$25.00
7/16	20	UNF	\$1.25	

Standard Hex Nuts - Brass

Size	Thread	tpi	AF	Un-plated	
				Each	per 25
5/16	BSF	22	0.520"	\$0.80	\$15.00
3/8	BSF	20	0.595"	\$1.05	\$19.75



BA				BRASS			
Standard Nuts				Un-plated		Nickel plated	
Size	Thread	tpi	AF	Each	per 50	each	per 50
10	BA	72.6	0.115"	\$0.35	\$13.00		
8	BA	59.1	0.152"	\$0.22	\$8.50		
7	BA	52.9	0.172"			\$0.27	\$10.00
6	BA	47.9	0.187"	\$0.22	\$8.50		
5	BA	43.0	0.218"	\$0.22	\$8.50	\$0.27	\$10.00
4	BA	38.5	0.250"	\$0.22	\$8.50		
3	BA	34.8	0.281"	\$0.22	\$8.50	\$0.27	\$10.00
2	BA	31.4	0.324"	\$0.22	\$8.50	\$0.35	\$16.00
1	BA	28.2	0.365"			\$0.40	\$18.00
0	BA	25.4	0.410"	\$0.05		\$0.05	

Manifold Nuts - Brass



Size	Thread	tpi	AF	Un-plated		
				Each	per 10	per 25
1/4	BSF	26	0.445"	\$3.55	\$26.60	\$44.50
5/16	BSF	22	0.520"			
3/8	BSF	20	0.595"	\$2.65	\$19.90	\$33.25
7/16	BSF	18		\$3.80	\$28.50	\$47.50

UNF		Manifold Nuts		BRASS Un-plated		
		tpi	AF	Each	per 10	per 25
5/16"	UNF	24	0.500"			
3/8"	UNF	24	0.562"	\$3.80	\$28.50	\$47.50

UNC		Manifold Nuts		BRASS Un-plated		
		tpi	AF	Each	per 10	per 25
5/16"	UNC	18	0.500"	\$2.25	\$16.90	\$28.25

	pitch	AF	Each	per 50	Each
M6	1.00	10mm			\$4.40
M8	1.25	13mm			\$5.60
M10	1.25 FINE		\$0.85	\$21.50	

Lock Nuts (Half Nuts)

BSF	Half Nuts			Silver Zinc			STAINLESS
		tpi	AF	Each	Mild steel per 25	per 50	304 Each
1/4"	BSF	26	0.445"	\$0.75		\$28.00	\$1.90
5/16"	BSF	22	0.520"				\$2.70
3/8"	BSF	20	0.595"	\$1.20	\$27.00	\$45.00	\$3.10
7/16"	BSF	18	0.710"	\$1.10	\$30.25	\$41.00	
1/2"	BSF	16	0.812"	\$2.70	\$50.50		



UNF	Half Nuts			Silver Zinc		Yellow Zinc	
		tpi	AF	Each	Mild steel per 50	Each	Mild steel per 100
1/4"	UNF	28	0.437"	\$0.39			
5/16"	UNF	24	0.500"	\$0.50	\$13.00	\$0.24	\$12.00
3/8"	UNF	24	0.562"			\$0.36	\$18.00
7/16"	UNF	20	0.625"				



BSCY	Half Nuts				Silver Zinc		Stainless
		tpi	AF	Height	Each	Mild steel per 50	304 Each
5/16	BSCY	26	0.520"		\$0.80	\$30.00	\$2.90
3/8	BSCY	26	0.597"		\$1.15	\$43.00	
7/16	BSCY	26	0.710"		\$1.20	\$45.00	
5/8	BSCY	26	0.747"	0.20"			\$5.60

Lucas wiper box nut

METRIC - Coarse			STAINLESS	
DIN 439B			316	
Diameter	pitch	AF	Each	Per 100
M8	1.25	13mm	\$0.20	\$10.00

METRIC - Fine			STAINLESS	
			304	
Diameter	pitch	AF	Each	
M10	JIS	1.25	14mm	\$3.75
M12	DIN439	1.25	19mm	\$3.00

Square Nuts

BSW and UNC are interchangeable in these sizes.

UNC	Standard Nuts			ZINC plated	
		tpi	AF	Each	Mild Steel per 100
1/4	UNC	20	7/16"	\$0.25	\$18.75
5/16	UNC	18	9/16"	\$0.45	\$33.75



Nylon Insert Lock Nuts - British Std.



BA		Silver Zinc	
		each	per 50
2	BA	\$0.80	\$30.00

BSCY (CEI) - 26tpi			Silver Zinc		Stainless	
			each		each	
5/16"	BSCY	26			\$5.25	
3/8"	BSCY	26	\$4.90			

BSF			Silver Zinc		Stainless	
P Type (thick)			each	per 25	304	
			each		each	
1/4"	BSF	26	\$1.05	\$19.75	\$4.00	
5/16"	BSF	22	\$1.25	\$23.50		
3/8"	BSF	20	\$1.75	\$32.75		
7/16"	BSF	18	\$2.15	\$40.25		
1/2"	BSF	16	\$2.95	\$55.25		
5/8"	BSF	14	\$4.55	\$85.25		
3/4"	BSF	12	\$7.05			
1"	BSF	10	\$14.30			

BSF			Silver Zinc	
T Type (thin)			each	
7/16"	BSF	18	\$2.15	

Nylon Insert Lock Nuts - Unified



UNF			CHROME	
NE Series			Each	SKU
	tpi			
1/4"	28	UNF	\$1.95	NYUC1428
5/16"	24	UNF	\$2.10	NYUC51624
7/16"	20	UNF	\$2.50	NYUC71620

ZINC

UNC				ZINC - silver			
NE Series				Each	per 100	per 200	SKU
	tpi		Grade				
5/16	18	UNC	G5	\$0.20		\$20.00	NYUCZ516G5
1/4	20	UNC	C (8)	\$0.14		\$14.00	NYUCZ14
5/16	18	UNC	G8	\$0.24		\$24.00	NYUCZ516
3/8	16	UNC	G8	\$0.28	\$14.00		NYUCZ38
7/16	14	UNC	G8	\$0.80	\$40.00		NYUCZ716
1/2	13	UNC	G8	\$0.85	\$43.00		NYUCZ12

UNF				ZINC - silver			
NM/NE Series				Each	per 100	per 200	SKU
	tpi		Grade				
10-32	32	UNF	G2	\$0.08	\$6.00		
5/16"	24	UNF	G2 Thin Type	\$0.19	\$12.00		NYUFZT516
3/8"	24	UNF	G2 Thin Type	\$0.30	\$20.00		
7/16"	20	UNF	G2 Thin Type	\$0.40	\$26.00		
5/16"	24	UNF	G5	\$0.14			
7/16"	20	UNF	G5	\$0.28		\$28.00	
1/2"	20	UNF	G5	\$0.40			
1/4"	28	UNF	G8	\$0.32		\$32.00	NYUFZ14G8
5/16"	24	UNF	G8	\$0.16		\$16.00	NYUFZ516G8
3/8"	24	UNF	G8	\$0.23		\$24.00	NYUFZ38G8
1/2"	20	UNF	G8	\$0.50	\$25.00		NYUFZ12G8
5/8"	18	UNF	G8	\$1.25	\$62.50		NYUFZ58G8

STAINLESS

UNC			Stainless 304			Stainless 316		
NM/NE Series			Each	Per 100	SKU	Each	Per 100	SKU
	tpi							
6-32	32	UNC	\$0.14	\$7.00				
8-32	32	UNC	\$0.16	\$8.00				
10-24	24	UNC	\$0.20	\$10.00				
1/4	20	UNC				\$0.32	\$16.00	
5/16	18	UNC				\$0.46	\$23.00	
3/8	16	UNC				\$0.66	\$33.00	

UNF			Stainless 304			Stainless 316		
NM/NE Series			Each	Per 100	SKU	Each	Per 100	SKU
	tpi							
10-32	32	UNF	\$0.24	\$12.00				
1/4"	28	UNF	\$0.50	\$25.00				
5/16"	24	UNF				\$0.50	\$25.00	
3/8"	24	UNF				\$0.90	\$45.00	

Nylon Insert Lock Nuts - Metric



METRIC - Coarse DIN 982 - Tall type			Silver Zinc Class 8	
Diameter	pitch		each	per 100
M5	0.80	Tall Type	\$0.10	\$5.00
M6	1.00	Tall Type	\$0.09	\$4.50
M8	1.25	Tall Type	\$0.14	\$7.00

METRIC - Coarse DIN 985 - Thin type			Silver Zinc Class 8		Stainless 304 DIN 985			Stainless 316 DIN 985		CHROME
Diameter	pitch		each	per 100	Each	per 50	Per 100	Each	per 200	Each
M2.5	0.45	Thin Type			\$0.31		\$15.50			
M3	0.50	Thin Type						\$0.11	\$11.00	
									Per 100	
M4	0.70	Thin Type					\$4.65	\$0.12	\$6.00	
M5	0.80	Thin Type					\$4.50	\$0.12	\$6.00	
M6	1.00	Thin Type	\$0.08	\$4.00				\$0.18	\$9.00	\$1.90
M8	1.25	Thin Type	\$0.15	\$6.50				\$0.32	\$16.00	
M10	1.50	Thin Type	\$0.30		\$0.50		\$25.00	\$0.70	\$35.00	
M12	1.75	Thin Type	\$0.45	\$23.00	\$0.55	\$14.00				

METRIC - Fine DIN 985 - Thin type			Yellow Zinc Class 8		Silver Zinc Class 8		Silver Zinc Class 10		
Diameter	pitch		each	per 50	each	per 100	each	per 50	Per 100
M10	1.25	Thin Type					\$0.60		\$30.00
M12	1.25	Thin Type	\$1.00	\$25.00	\$0.78	\$39.00	\$0.70	\$17.50	
M12	1.50	Thin Type			\$0.50	\$25.00			
M14	1.50	Thin Type					\$1.00	\$25.00	

Castle Nuts - Metric

METRIC DIN 935	Castle Nuts		ZINC plated Class 5		Stainless 304
	pitch	AF	Each	per 50	Each
M6	1.00	10mm			\$4.40
M8	1.25	13mm			\$5.60
M10	1.25 FINE		\$0.85	\$21.50	



Castle Nuts - Imperial

BSF	Castle Nuts			ZINC plated	
		tpi	AF	Each	per 25
1/4	BSF	26	0.440"	\$3.50	\$66.00
5/16	BSF	22	0.520"	\$3.00	\$56.25
3/8	BSF	20	0.600"	\$3.75	\$70.25
7/16	BSF	18	0.710"	\$3.80	\$71.25
1/2	BSF	16	0.818"	\$4.20	\$78.75
9/16	BSF	16		tba	
5/8	BSF	14		tba	
3/4	BSF	12	1.195"	\$3.50	\$65.75



UNF	Castle Nuts			ZINC plated	
		tpi	AF	Each	per 25
5/16	UNF	24	0.495"		
3/8	UNF	24			
7/16	UNF G5	20	29/64"	\$2.35	\$44.06
1/2	UNF G5	20	9/16"	\$2.80	\$52.50
5/8	UNF	18	1.000"		
3/4	UNF	16	1.120"		
7/8	UNF	14	1.305"	\$1.00	
1 1/4	UNF	12		\$1.00	

Slotted Nuts - Imperial



BSF		Slotted Nuts		ZINC plated	
		tpi	AF	Each	per 25
1/4	BSF	26	0.445"	\$2.50	\$47.00
5/16	BSF	22	0.520"	\$2.75	\$51.50
3/8	BSF	20	0.595"	\$3.00	\$54.25
7/16	BSF	18	0.710"	\$3.20	\$60.00
1/2	BSF	16	0.815"	\$3.30	\$62.00
9/16	BSF	16		tba	
5/8	BSF	14		n/a	
3/4	BSF	12	1.192"	\$7.00	
7/8	BSF	11	1.295"	\$11.15	

UN		Slotted Nuts		ZINC plated	
		tpi	AF	Each	per 25
1/4	UNF	28	.430"	\$1.00	\$18.75
5/16	UNF	24	0.491"	\$1.10	\$20.63
3/8	UNF	24	0.553"	\$2.00	\$37.50
7/16	UNF	20	0.679"	\$2.00	\$37.50
1/2	UNF	20	0.741"	\$2.20	\$41.25
9/16	UNF	18	0.874"	tba	
5/8	UNF	18	0.930"	\$3.00	\$56.25
3/4	UNF	16		\$4.90	\$91.88
7/8	UNF	14	1.307"	\$3.00	
1	UNC	8		\$1.30	

Dome Nuts - Imperial



BA Dome Nuts			STAINLESS
Size	Thread	tpi	304 Each
2	BA	31.4	\$3.80

BSCY (CEI) Dome Nuts			CHROME	STAINLESS
		tpi	Polished Each	303 Each
1/4"	BSCY	26	USE 1/4" BSF	
5/16"	BSCY	26		\$6.50
3/8"	BSCY	26		\$7.10
7/16"	BSCY	26	\$7.80	
1/2"	BSCY	26	\$7.45	

BSF Dome Nuts			STAINLESS	
		tpi	AF	303 Each
1/4"	BSF	26		\$5.50
5/16"	BSF	22		\$6.85
3/8"	BSF	20		\$7.60
7/16"	BSF	18	0.710"	\$10.00

UNC Dome Nuts				Chrome	STAINLESS	
		tpi	AF	Polished Each	304 One piece Each	Per 100
1/4	UNC	20	7/16"	\$2.60	\$0.40	\$20
5/16	UNC	18	1/2"	\$3.30	\$0.50	\$25
3/8	UNC	16	9/16"	\$4.00	\$0.64	\$32
7/16	UNC	14	5/8"	\$4.70		

UNF Dome Nuts				CHROME	STAINLESS	
		tpi	AF	Polished Each	304 One piece Each	Per 100
1/4"	UNF	28	7/16"	\$2.70	\$2.50	\$12.50
5/16"	UNF	24	1/2"	\$3.30	\$3.00	\$15.00
3/8"	UNF	24	9/16"	\$3.95	\$3.50	\$17.50
7/16"	UNF	20	5/8"	\$4.70		
1/2"	UNF	20	3/4"	\$6.80		

Dome Nuts - Metric

METRIC - Coarse DIN1587			CHROME Polished	STAINLESS 316 One piece	
Diameter	pitch	AF	Each	Each	Per 100
M4	0.70mm	7mm		\$0.26	\$13
M5	0.80mm	8mm		\$0.26	\$13
M6	1.00mm	10mm	\$4.10	\$0.40	\$20
M8	1.25mm	13mm	\$4.35	\$0.80	\$40
				304	
				Each	Per 100
M10	1.50mm	17mm	\$7.30	\$1.10	\$55



METRIC - Fine DIN 1587			CHROME Polished	Stainless 304
Diameter	pitch	AF	Each	Each
M10	1.25mm	14mm		\$7.95
M10	1.25mm	18mm	\$6.10	
M12	1.25mm	19mm	\$8.50	

METRIC - Fine Flat Top Manufactured on SAE hex sizes				CHROME Polished
Diameter		pitch	AF	Each
M10	Fine	1.25mm	9/16"	\$5.30



METRIC - Fine High Crown Manufactured on SAE hex sizes				CHROME Polished
Diameter		pitch	AF	Each
M10	Fine	1.25mm	9/16"	\$5.30



Serrated Flange Nuts



UNC			ZINC - yellow Grade 5	
Diameter	pitch	AF	Each	per 100
5/16	UNC	18tpi	\$0.14	\$11.00

METRIC - Fine			ZINC - silver Steel		ZINC - yellow Grade 8	
Diameter	pitch	AF	Each	per 200	Each	per 100
M10	1.25	14mm	\$0.72	\$72.00		
M12	1.25	18mm			\$0.74	\$37.00

METRIC - Coarse DIN 6923			ZINC - silver Grade 8		ZINC - yellow Grade 8		
Diameter	pitch	AF	Each	per 200	Each	per 200	per 500
M6	1.00	10mm	\$0.12	\$18.00	\$0.10		\$25.00
M8	1.25	13mm	\$0.20	\$20.00	\$0.16	\$16.00	
M10	1.50	15mm	\$0.30	\$30.00	\$0.30	\$30.00	

METRIC - Coarse DIN 6923			STAINLESS 304		STAINLESS 316	
Diameter	pitch	AF	Each	per 100	Each	Per 100
M5	0.80	8mm	\$0.15	\$8.00		
M6	1.00	10mm	\$0.20	\$10.00	\$0.30	\$15.00
M8	1.25	13mm	\$0.40	\$20.00		
M10	1.50	15mm	\$0.65	\$33.00		

Cone Lock Nuts

UNC				Zinc - silver Grade C	
SKU	Diameter	pitch	AF	Each	per 100
NCOUCZ368	3/8	16tpi	9/16"	\$0.40	\$20.00

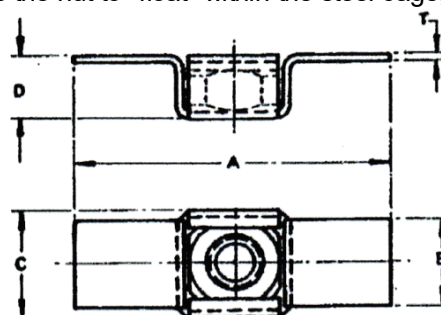


UNF				Zinc - silver Grade C	
SKU	Diameter	pitch	AF	Each	per 100
NCOUFZ516	5/16	24tpi	1/2"	\$0.25	\$13.00
NCOUFZ38	3/8	24tpi	9/16"	\$0.55	\$28.00

Metric				Zinc - silver Class 10	
SKU	Diameter	pitch	AF	Each	per 200
NCOUFZ516	M6	1.00	10mm	\$0.17	\$18.00
NCOUFZ38	M8	1.25	13mm	\$0.32	\$32.00
	M10	1.25	17mm	\$0.52	\$52.00

Cage Nuts - Weld Type

Also referred to as "floating nut retainers". The design allows the nut to "float" within the steel cage, which is ideal for hole misalignment and blind assembly.



MILD STEEL CAGE & NUT

SKU	Thread Size	mm					Price each
		A Length	B	C Width	D Height	T Plate	
NR 1024	3/16 BSW (10-24)	38.10		13.50	8.80	0.90	\$3.00
NR 1420	1/4 BSW (1/4-20)	38.10		13.50	8.80	0.90	\$3.50
NR 51618	5/16 BSW (5/16-18)	44.50		17.00	10.50	1.20	\$3.50
NR 3816	3/8 BSW (3/8-16)	44.50		17.00	10.50	1.20	\$3.50
NR M5	M5	29.50		13.50	8.80	0.90	\$3.50
NR M6	M6	38.10		13.50	8.80	0.90	\$3.50
NR M8	M8	44.50		17.00	10.50	1.20	\$3.50
NR M10	M10	44.50		17.00	10.50	1.20	\$3.50

FULL STAINLESS STEEL CAGE & NUT

NRS M6	M6	38.10		13.50	8.80	0.90	\$4.50
NRS M8	M8	44.50		17.00	10.50	1.20	\$4.50

Cage Nuts - Panel Type



Cage Nut - Panel Type				Yellow Zinc	
SKU	Thread Size	Panel hole	Panel thickness	each	per 50
NCPM62	M6 - 1.00	9.5 x 9.5mm	1.80 - 2.65mm	0.80	\$28.00

Furniture Hex Drive Insert Nuts

Furniture Hex Drive Insert Nuts						
SKU	Size	Length	Flanged	Hex drive	each	Per 200
NIWZFM410	M4	10mm	yes	4mm	\$0.30	\$30.00
NIWZFM510	M5	10mm	yes	5mm	\$0.45	\$45.00
NIWZFM613	M6	13mm	yes	6mm	\$0.55	\$55.00
NIWZLM613	M6 Low Profile	13mm	no	6mm	\$0.55	\$55.00
NIWZFM618	M6	18mm	yes	6mm	\$0.65	\$65.00
					each	Per 100
NIWZFM815	M8	15mm	yes	8mm	\$0.80	\$40.00
NIWZLM818	M8 Low Profile	15mm	no	8mm	\$0.85	\$42.50
NIWZLM1019	M10	19mm	yes	10mm	\$1.40	\$70.00



4 Prong Tee Nuts

4 Prong Tee Nuts				Steel Zinc - silver	
SKU	Size	OD mm	Height mm	Per 10	Per 100
NTZM4	M4	15	7	\$ 2.00	\$ 10.00
NTZM5	M5	15	7	\$ 2.00	\$ 10.00
NTZM6	M6	18	7	\$ 2.50	\$ 12.50
NTZM8	M8	22	9	\$ 4.00	\$ 20.00
NTZM10	M10	25	11	\$ 5.00	\$ 25.00



Barrel Nuts

Furniture Barrel Nuts			Steel Zinc - silver	
SKU	Size	Barrel Dia	Per 10	Per 100
FBNM6Z	M6 x 15mm	10mm	\$ 3.85	\$ 26.95
FBNM8Z	M8 x 20mm	11mm	\$ 9.55	\$ 66.85



Furniture Connector Nuts

Furniture Connector Nuts				Steel Nickel plated	
SKU	Size	Head Dia mm	Hex Drive mm	Per 10	Per 100
FCNM6N	M6 x 12mm	12.8		\$ 4.80	\$ 33.60
FCNM615N	M6 x 15mm	12.8		\$ 5.70	\$ 39.90
FCNM8N	M8 x 15mm	15.8		\$ 9.60	\$ 67.20



Furniture Connector Bolts



Furniture Connector Bolts (DEMON/JCB BOLTS)				STEEL Nickel plated	
M6 Hex drive (4mm)				Per 10	Per 100
SKU	Length mm	Head Dia mm	Fully Threaded		
FCBM616N	16	12	Yes	\$ 2.60	\$ 18.20
FCBM625N	20	12	Yes	\$ 3.00	\$ 21.00
FCBM625N	25	12	Yes	\$ 3.30	\$ 23.10
FCBM630N	30	12	Yes	\$ 3.80	\$ 26.60
FCBM635N	35	12	Yes	\$ 4.00	\$ 28.00
FCBM640N	40	12	Yes	\$ 4.50	\$ 31.50
FCBM645N	45	12	Yes	\$ 5.00	\$ 35.00
FCBM650N	50	12	Yes	\$ 5.50	\$ 38.50
FCBM655N	55	12	Yes	\$ 5.90	\$ 41.30
FCBM660N	60	12	Yes	\$ 6.50	\$ 45.50
FCBM665N	65	12	No	\$ 7.00	\$ 49.00
FCBM670N	70	12	No	\$ 7.40	\$ 51.80
FCBM675N	75	12	No	\$ 8.10	\$ 56.70
FCBM680N	80	12	No	\$ 8.90	\$ 62.30
M8 Hex drive (5mm)				Per 10	Per 100
SKU	Length mm	Head Dia mm	Fully Threaded		
FCBM825N	25	14	Yes	\$ 6.15	\$ 43.05
FCBM830N	30	14	Yes	\$ 7.10	\$ 49.70
FCBM835N	35	14	Yes	\$ 8.20	\$ 57.40
FCBM840N	40	14	Yes	\$ 9.10	\$ 63.70
FCBM845N	45	14	Yes	\$ 10.15	\$ 71.05
FCBM850N	50	14	Yes	\$ 11.15	\$ 78.05
				Per 10	Per 50
FCBM855N	55	14	Yes	\$ 12.25	\$ 42.90
FCBM860N	60	14	Yes	\$ 13.40	\$ 46.90
FCBM865N	65	14	No	\$ 14.45	\$ 50.60
FCBM870N	70	14	No	\$ 15.55	\$ 54.50
FCBM875N	75	14	No	\$ 16.60	\$ 58.10
FCBM880N	80	14	No	\$ 14.40	\$ 50.40

Furniture Connector Bolts—Stainless



Furniture Connector Bolts (DEMON/JCB BOLTS)				Stainless 304	
M6 Hex drive (4mm)				each	per 50
SKU	Length mm	Head Dia mm	Fully Threaded		
FCBM625S	25	12	Yes		
FCBM630S	30	12	Yes	\$ 1.20	\$ 42.00
FCBM640S	40	12	Yes	\$ 1.40	\$ 49.00
FCBM650S	50	12	Yes	\$ 1.70	\$ 59.50
FCBM660S	60	12	Yes		

Furniture Connector Nuts—Stainless

Furniture Connector Nuts				Stainless 304	
SKU	Size	Head Dia mm	Hex Drive mm	Per 10	Per 100
FCNM6S	M6 x 12mm	12	4	\$ 14.90	\$ 104.30



Flat Round - Zinc

High Tensile (Hardened) Steel Zinc Plated



SKU	Bolt Size	O.D. (mm)	Gauge (mm)	Zinc SAE		Zinc WASCA based on ASTMF436:2009		Zinc F236M		HDG AS1237	
				each	per 100	each	per 200	each	per 100	each	per 200
WFZH14	1/4 (M6)	15.9	2.0			\$0.12	\$12.00				
WFZH516	5/16" (M8)	17.0	2.0			\$0.13	\$13.00				
WFZH38	3/8" (M10)	20.6	2.0			\$0.18	\$17.70				
WFZH716	7/16"	23.2	1.3	\$0.20	\$10.00						
WFZH12	1/2" (M12)	26.8	1.9	\$0.38	\$19.00						
WFZH916	9/16"	29.3	2.4	\$0.65	\$32.50						
				each	per 50						
WFZH12	5/8" (M16)	33.0	1.9	\$0.70	\$17.50						
WFGHM10	M10	20.0	2.0							\$0.20	\$20.00
WFZH12	M12	26.8	3.8					\$0.30	\$15.00		

Mild Steel Zinc Plated



SKU	Bolt Size	O.D.	Gauge	Zinc			HDG	
				each	per 100	per 200	each	per 200
WFZ1838	1/8"	3/8"	20G			\$2.80		
WFZ1858		5/8"	18G		\$5.15			
WFZ316716	3/16"	7/16"	20G			\$3.20		
WFZ3161		1"	16G	\$0.10	\$7.35			
WFZ1412	1/4"	1/2"	18G			\$3.75		
WFZ1434		3/4"	16G	\$0.09		\$8.50		
WFZ141		1"	16G	\$0.14		\$14.50		
WFZ14114		1 1/4"	16G	\$0.22		\$22.00		
WFZ51658	5/16"	5/8"	18G			\$4.50		
WFZ5161		1"	16G	\$0.12		\$12.00		
WFZ516114		1 1/4"	16G	\$0.15		\$15.00		
WFZ3834	3/8"	3/4"	16G	\$0.07		\$7.35		
WFZ38114		1 1/4"	16G	\$0.22		\$22.00		
WFZ71678	7/16"	7/8"	16G	\$0.11		\$10.90		
WFZ121	1/2"	1"	16G	\$0.13		\$12.25		
WFZ12112		1 1/2"	14G	\$0.34		\$34.00		
WFZM510	M5	10mm	1.0mm		\$1.35			
WFZM612	M6	12.5mm	1.2mm			\$3.30		
WFGM12	M12	32mm	2.5mm				\$0.30	\$30.00
WFGM16	M16						\$0.50	\$50.00

Flat Round - Zinc



EXTRA HEAVY DUTY WASHERS

Zinc plated

SKU	Size	ID	OD	Gauge	each	per 100	Per 200
WFZM6303	M6	7.0mm	30mm	3mm	\$0.50		\$50.00
WFZM8303	M8	8.5mm	30mm	3mm	\$0.50		\$50.00
WFZM10303	M10	11mm	30mm	3mm	\$0.50		\$50.00
WFZM12314	M12	13.5mm	31.75mm	4mm	\$0.75	\$37.50	

Flat Round - Hot Dip Galv.



FLAT ROUND WASHERS

Hot Dip Galv

Mild steel

SKU	Bolt Size	O.D.	Gauge	each	per 200	per 500
WFGM10	M10	25.0mm	2.0mm	\$0.16		\$40.00
WFGM12	M12	27.5mm	2.25mm	\$0.30	\$16.00	
WFGM16	M16	33.5mm	2.75mm	\$0.50	\$25.00	

Imperial Gauge	mm
10	3.25
12	2.64
14	2.03
16	1.63
18	1.22
20	0.91
22	0.71
24	0.56
26	0.46

Flat Round - Stainless

FLAT ROUND WASHERS				Stainless 304			Stainless 316		
Bolt Size	O.D.	Nominal Gauge	each	per 100	per 200	per each	per 100	per 200	
5/32"	3/8	20G						\$6.00	
3/16" / 2BA / 10 gauge	7/16"	20G						\$6.00	
	1/2"	20G					\$3.50		
	3/4"	18G					\$9.00		
12 Gauge	9/16"	0.050"	\$0.15	\$11.25					
1/4"	1/2"	20G					\$4.00		
	9/16"	18G					\$5.40		
	3/4"	18G					\$7.00		
5/16"	5/8"	18G					\$5.00		
	3/4"	18G					\$7.00		
	1"	16G	\$0.22	\$10.60					
3/8"	3/4"	18G					\$7.00		
	1"	16G				\$0.30	\$15.00		
7/16"	1 1/8"	16G				\$0.50	\$25.00		
1/2"	1"	16G	\$0.20	\$9.00					
5/8"	1 1/4	16G	\$0.25	\$12.50					
M2	* 5mm	0.3mm			\$1.00			\$1.50	
M2.5	* 6mm	0.5mm			\$2.00				
M3	* 7mm	0.5mm						\$3.00	
M4	* 9mm	0.8mm			\$3.00			\$4.00	
M5	? 9mm	1.0mm			\$4.50				
	* 10mm	1.0mm			\$3.50			\$5.00	
	■ 15mm	1.2mm		\$3.00			\$4.80		
M6	? 11mm	1.6mm		\$3.00					
	* 12.5mm	1.6mm		\$3.00					
	□ 12mm	1.2mm					\$3.10		
	■ 18mm	1.6mm				\$0.18	\$9.00		
M7		14mm 1.5mm	tba						
M8	? 15mm	1.6mm	\$0.20	\$7.60					
(5/16")	* 16mm	1.6mm		\$5.00					
	□ 17mm	1.2mm					\$5.40		
	□ 25mm	1.6mm	\$0.22	\$10.60					
M10	? 18mm	1.6mm	\$0.10	\$5.00					
	□ 21mm	1.2mm					\$7.00		
	21mm	2.0mm	\$0.16	\$8.00					
M12	? 20mm	2.0mm	\$0.16	\$8.00					
	□ 24mm	1.5mm					\$11.00		
	* 24mm	2.5mm	\$0.34	\$21.15					

- Common size
- * DIN 125A
- DIN 9021
- ? DIN 433



Flat Round - Chrome

AN FLAT ROUND WASHERS

Steel - Chrome plated



SKU	Bolt size	OD	Gauge	Chrome Each	
WFCAN10	#10	0.438" (?7/16")	0.062"		Suits bolts sizes 3/16", 2BA, 5mm
WFCAN38	3/8"	0.625" (5/8")	0.065"	\$2.35	

SAE FLAT ROUND WASHERS

Steel - Chrome plated

SKU	Bolt size	OD	Gauge	Chrome Each	
WFCSAE10	#10	1/2	3/64 (0.049")		Suits bolts sizes 3/16", 2BA, 5mm
WFCSAE14	1/4	5/8	1/16 (0.065")		
WFCSAE516	5/16	11/16	1/16 (0.065")	\$1.50	Suits bolt size 8mm
WFCSAE38	3/8	13/16	1/16 (0.065")		
WFCSAE716	7/16	59/64	1/16 (0.065")	\$1.55	
WFCSEA12	1/2	1 1/16	3/32 (0.095")		
WFCSAE916	9/16	1 5/32	3/32 (0.095")	\$2.45	

METRIC FLAT ROUND WASHERS

Steel - Chrome plated

DIN 125	SKU	Bolt size	OD	Gauge	Chrome Each
	WFCM6	M6	12mm	1.2mm	\$1.65
	WFCM8	M8	16mm	1.6mm	
	WFCM10	M10	20mm	2.0mm	
	WFCM12	M12	24mm	2.0mm	\$2.50

Flat Round

RED FIBRE WASHERS

SKU	Bolt Size	O.D.	Gauge	per 25	per 100
WRF316	3/16"	7/16"	1/32"	\$2.60	\$5.50
WRF14	1/4"	1/2"	1/32"	\$3.30	\$7.00
WRF516	5/16"	5/8"	1/32"	\$4.70	\$9.50
WRF38	3/8"	3/4"	1/32"	\$5.50	\$11.00
WRF12	1/2"	7/8"	1/32"	\$7.20	\$14.50
WRF516116	5/16"	5/8"	1/16"	\$7.50	\$15.00
WRF38116	3/8"	3/4"	1/16"	\$7.90	\$16.00

WRFP **Mixed pack** **\$15.50**

Includes 10 of each of the following:

1/32" gauge - 3/16", 1/4", 5/16", 3/8", 1/2"

1/16" gauge - 5/16", 3/8"



NYLON WASHERS

SKU	Size	O.D. (mm)	Gauge (mm)	per 25	per 100
WNM49	M4	9.0	0.80	\$3.00	\$6.00
WNM5	M5 (3/16", 2BA)	11.2	0.80	\$3.25	\$7.00
WNM6	M6 (suits 1/4")	14.0	1.00	\$3.00	\$6.00



FLAT ROUND WASHERS

Brass

Bolt Size	O.D.	Gauge	BRASS per 50
3BA	.34"	21	\$2.50
8BA	.183"	28	\$2.75



COPPER WASHERS

SKU	Size	O.D.	Gauge (mm)	each	per 50
WFCU14	1/4"	7/16"	0.95	\$0.20	\$8.50



Spring

SPRING WASHERS		Chrome	Satin Chrome
SKU	Bolt Size	Each	Each
	3/16" / 2BA / 10 Gauge	\$1.15	
	1/4"	\$1.25	\$0.50
	5/16"	\$1.40	\$0.55
	3/8"	\$1.50	\$0.65
	7/16"	\$1.55	\$0.75
	1/2"	\$1.70	\$0.85
	9/16"	\$2.15	
	5/8"	\$1.35	
	3/4"		
	M6 DIN 127	\$1.75	
	M8 DIN 127	\$1.80	
	M10 DIN 127	\$1.90	
	M12 DIN 127	\$2.00	



SPRING WASHERS			ZINC		
SKU	Bolt Size	Section	each	per 100	per 200
	1/8"	sq. section			\$4.40
	5/32" - 8G	flat section			\$4.00
	3/16" / 2BA	flat section			\$4.30
	1/4"	flat section			\$5.90
	5/16"	flat section	\$0.06		\$6.15
	3/8"	flat section	\$0.10		\$9.15
	7/16"	flat section	\$0.11		\$11.50
	1/2"	sq. section	\$0.13	\$9.50	
	9/16"	flat section	\$0.14	\$9.90	
	M5	flat section		\$2.30	
	M6	flat section			\$5.00
	M8	flat section		\$3.65	
	M10	DIN127B			
	M12	DIN127B	\$0.13		\$13.00



DOUBLE COIL SPRING WASHERS

Bolt Size	ZINC		Plain	
	Each	per 50	Each	per 50
5/16"	\$1.50	\$56		
3/8"			\$1.50	\$56
1/2"	\$2.50	\$94		



Spring - Stainless

SPRING WASHERS	Stainless 304		Stainless 316		
	each	per 100	per 200	per 100	per 200
Bolt Size					
1/8"					\$4.55
6 Gauge				\$2.00	
5/32" - 8G					\$5.20
3/16" - 10G - 2BA					\$3.10
12G	\$0.15	\$11.25			
1/4"				\$3.60	
5/16"				\$6.00	
3/8"				\$9.00	
7/16"	\$0.30	\$15.00			
1/2"	\$0.25	\$15.00			
5/8 (M16)	\$0.40	\$20.00			
DIN 127B					
M2					\$2.00
M2.5			\$1.50		
M3					\$3.00
M4					\$2.00
M5					\$3.00
M6				\$2.70	
M7	\$0.50				
M8		\$3.50		\$5.15	
M10				\$8.00	
M12	\$0.20	\$8.25			



SPRING WASHERS - Square Section

For use with Socket Head Cap Screws

DIN 7980	Stainless 304	
Bolt Size	per 10	per 100
M5	\$1.00	\$6.00
M6	\$2.00	\$10.00
M8	\$2.30	\$13.00
M10	\$3.60	\$20.00



Spring - Mech. Galv.

DIN 127B		Mech
Bolt Size	Section	per 10
M10		\$1.30



Lock

LOCK WASHERS

Internal Tooth

DIN 6797 Type J

SKU	Bolt Size		ZINC		
			per 50	per 100	per 1000
	M5	3/16"		\$2.50	\$17.60
		1/4"		\$5.00	\$25.00
	M8	5/16"		\$5.00	\$37.50
WIZ38	M10	3/8"		\$7.05	\$50.30
	M12	1/2"	\$6.00		\$60.00



LOCK WASHERS

Internal Tooth

DIN 6797 Type J

SKU	Bolt Size		STAINLESS 304			
			each	per 100	per 200	per 500
WISM4	M4	5/32"		\$5.40		\$13.50
WISM5	M5	3/16"		\$4.00		\$13.50
WISM6	M6	1/4"	0.15		\$8.00	
WISM8	M8	5/16"	0.12		\$12.00	
WISM10	M10	3/8"	0.13		\$13.00	
WISM12	M12	1/2"	0.20	\$10.00		



LOCK WASHERS

Internal Serrated Tooth

DIN 6798

SKU	Bolt Size		STAINLESS 304 Clearance	
			per 100	
WISM5S	M5	(3/16")	\$2.00	
WISM10S	M10	(3/8")	\$5.00	
WISM12S	M12	(1/2")	\$6.00	



LOCK WASHERS

External Tooth

SKU	Bolt Size		ZINC			STAINLESS 304	
			per 50	per 100	per 1000	per 500	
WELS25	M2.5					\$7.50	
WELZ14	1/4"			\$5.10	\$25.50		
WELZ516	5/16"		\$3.75		\$37.50		



COUNTERSUNK LOCK

Serrated Tooth

DIN 6798V

SKU	Bolt Size		STAINLESS 304	
			per 10	per 100
WQSM6	M6	(1/4")	\$3.00	\$15.00
WQSM8	M8	(5/16")	\$4.00	\$20.00
WQSM10	M10	(3/8")	\$5.00	\$25.00



WAVE WASHERS

SKU	Bolt Size		OD	Gauge	SPRING STEEL - PLAIN OILED		
					mm	mm	per 10
WWPM8	M8	(5/16")	15	0.8	\$5.20		\$52.00
WWPM10	M10	(3/8")	21	1.0	\$6.30	\$32.00	



Finishing

CUP WASHERS

Screw Size	BRASS			
	Un-plated		Nickel Pl.	
	each	per 100	each	per 100
4 gauge	\$0.30	\$15.00		\$12.00
6 gauge	\$0.30	\$15.00		\$9.00
8 gauge	\$0.34	\$17.00		\$12.50
10 gauge	\$0.36	\$27.00		\$14.50
12 gauge				



Screw Size	STAINLESS - 304				Silicon Bronze	
	Natural		Black oxide		each	per 100
	each	per 100	each	per 100		
4 gauge	\$0.15	\$11.00				
6 gauge		\$4.50	\$0.30	\$15.00		
8 gauge		\$5.50			\$0.33	\$25.00
10 gauge	\$0.16	\$8.00			\$0.36	\$27.00
12 gauge	\$0.20	\$10.00			\$0.31	\$23.00
14 gauge (1/4")	\$0.22	\$11.00				



FLANGED CUP WASHERS

(Floorboard)

A flanged base keeps these washers from cutting into the surface of your material.

Screw Size	STAINLESS 304		BRASS Nickel Pl.		
	each	per 50	each	per 50	per 100
6 gauge	\$0.60	\$22.50	\$0.85	\$27.50	
8 gauge	\$0.55	\$20.50	\$0.50		\$33.00



COUNTERSUNK TRIM WASHERS

These nickel plated brass washers are designed to go under the heads of raised countersunk screws when used to hold down wooden door capping etc.

Screw Size	BRASS Nickel Pl.		
	per each	per 50	per 100
4 gauge	\$0.44		\$29.00
6 gauge	\$0.25		\$19.00
8 gauge	\$0.30		\$20.00
10 gauge	\$0.40	\$13.00	
12 gauge	\$1.00	\$37.50	



Self Tapping Screws

COUNTERSUNK SELF TAPPING SCREWS

Length is measured from top of head.



Gauge	Length	Point tpi	Type	PHILLIPS Stainless ANSI B18.6.4				SLOT Stainless Grade 304		
				Grade 304		Grade 316		each	per 100	per 200
				each	per 200	each	per 100			
2 Gauge	1/4	24	A		\$6.00					
	3/8	24	A							
	1/2	24	A							
4 Gauge	1/4"									
	3/8"							\$0.15	\$7.00	
	1/2"					\$4.10		\$0.17	\$13.00	
	5/8"					\$4.50		\$0.10		\$10.00
	3/4"					\$4.70		\$0.12		\$12.00
	1"				\$0.09	\$9.00	\$0.12	\$6.00		
6 Gauge	3/8"						\$4.80	\$0.12		\$12.00
	1/2"						\$5.00	\$0.20	\$10.00	
	5/8"					\$0.12	\$6.00	\$0.20	\$10.00	
	3/4"					\$0.16	\$8.00	\$0.16		\$16.00
	1"					\$0.18	\$9.00	\$0.24	\$12.00	
	1 1/4"					\$0.28	\$14.00	\$0.20	\$10.00	
	1 1/2"					\$0.20	\$10.00	\$0.22	\$11.00	
8 Gauge	1/2"						\$6.00	\$0.14		\$14.00
	5/8"					\$0.13	\$7.00			
	3/4"					\$0.18	\$9.00	\$0.15		\$15.00
	1"					\$0.20	\$10.00	\$0.27	\$20.00	
	1 1/4"					\$0.22	\$11.00	\$0.22	\$11.00	
	1 1/2"					\$0.26	\$13.00			
10 Gauge	1/2"					\$0.18	\$9.00			
	3/4"					\$0.24	\$12.50	\$0.22		\$22.00
	1"					\$0.26	\$13.00	\$0.34	\$17.00	
	1 1/4"							\$0.26	\$13.00	
	1 1/2"					\$0.30	\$15.00			
12 Gauge	1"	14	AB	each	per 100					
				\$0.20	\$10.00					

Screw Gauge Number vs Diameter

Use this chart to convert screw shank diameter to screw gauge number.

Screw Gauge Number	Diameter (inches)	Diameter (millimetres)
2	0.086	2.2
4	0.112	2.9
5	0.125	3.2
6	0.138	3.5
7	0.151	3.9
8	0.164	4.2
10	0.190	4.8
12	0.216	5.5
14	0.242	6.15

Self Tapping Screws

RAISED COUNTERSUNK

Length is measured from edge of head.



Gauge	Length	SLOT						PHILLIPS / POZI							
		Chrome		Zinc		Stainless 304		Chrome		Zinc		Stainless 304		Black Oxide	
		Per Each	Per 50	Per Each	Per 100	Per Each	Per 100	Per Each	Per 50	Per Each	Per 100	Per Each	Per 100	Per Each	Per 100
2 Gauge	3/8"					\$0.18	\$14								
4 Gauge (2.9mm)	1/4"					\$0.12	\$9					\$0.13	\$10		
	3/8"					\$0.12	\$9					\$0.14	\$11		
	1/2"	\$1.10	\$38	\$0.10	\$7	\$0.20	\$15	\$1.10	\$38	\$0.10	\$5	\$0.16	\$12	\$0.15	
	5/8"					\$0.20	\$15					\$0.18	\$14		
	3/4"	\$1.10	\$38	\$0.12	\$9	\$0.20	\$15	\$1.10	\$38	\$0.10	\$5	\$0.20	\$15	\$0.25	\$16
	7/8"					\$0.25	\$19								
	1"	\$1.10	\$38	\$0.12	\$9	\$0.22	\$17					\$0.26	\$20		
6 Gauge 3.5mm	1/2"	\$1.10	\$42	\$0.12	\$9	\$0.20	\$15					\$0.16	\$12		
	5/8"					\$0.23	\$17					\$0.25	\$19	tba	
	3/4"	\$1.20	\$45	\$0.15	\$11			\$1.10	\$42	\$0.16	\$8	\$0.22	\$17		
	1"			\$0.15	\$11	\$0.30	\$23			\$0.16	\$8	\$0.26	\$20		
	1 1/4"			\$0.20	\$15	\$0.35	\$26					\$0.31	\$23		
	1 1/2"					\$0.28	\$21								
8 Gauge 4.2mm	1/2"	\$1.10	\$42			\$0.25	\$19			\$0.10	\$7	\$0.30	\$23		
	5/8"			\$0.15	\$11	\$0.28	\$21					\$0.35	\$26		
	3/4"	\$1.20	\$45	\$0.18	\$12	\$0.30	\$23			\$0.15	\$12	\$0.32	\$24		
	1"			\$0.20	\$15	\$0.35	\$26	\$1.10	\$42	\$0.15	\$12	\$0.32	\$24		
	1 1/4"			\$0.25	\$19	\$0.35	\$26					\$0.40	\$30		
	1 1/2"					\$0.45	\$34					\$0.38	\$29		
10 Gauge 4.8mm	5/8"					\$0.40	\$30								
	3/4"					\$0.51	\$38					\$0.34	\$26		
	1"					\$0.36	\$27					\$0.40	\$30		
	1 1/4"					\$0.50	\$38					\$0.54	\$41		
	1 1/2"					\$0.46	\$35					\$0.60	\$45		
12 Gauge 5.5mm	3/4"					\$0.56	\$42					\$0.54	\$41		
	1"					\$0.60	\$45					\$0.42	\$32		
	1 1/2"											\$0.90	\$68		
14 Gauge	1 1/2"											\$0.50	\$38		
12 Gauge	1 1/2"											Stainless 316			
												Each	100		
												\$1.00	\$75		

Self Tapping Screws

**PAN HEAD
SELF TAPPING SCREWS**

Point Type: A & AB

Length is measured from under the head



Gauge	tpi	Length	Point Type	PHILLIPS Stainless ANSI B18.6.4				SLOT Stainless Grade 304		
				Grade 304		Grade 316		each	per 100	per 200
				each	per 200	each	per 100			
2 Gauge	24	1/4"	A		\$ 5.00					
	2.2mm	3/8"	A		\$ 7.00					
4 Gauge	2.9mm	1/4"			\$ 6.00			\$0.14		\$14.00
		3/8"					\$ 4.20	\$0.15	\$7.00	
		1/2"			\$ 6.00		\$ 4.50	\$0.10		\$10.00
		5/8"		\$0.07		\$ 4.55	\$0.10		\$10.00	
		3/4"		\$0.08	\$ 8.00	\$ 4.80	\$0.11		\$11.00	
		1"		\$0.08	\$ 8.00	\$ 0.16	\$ 8.00			
6 Gauge	3.5mm	1/4"				\$ 5.00				
		3/8"				\$ 5.00	\$0.18		\$18.00	
		1/2"			\$ 0.10	\$ 5.00	\$0.18	\$9.00		
		5/8"			\$ 0.12	\$ 6.00	\$0.12		\$12.00	
		3/4"			\$ 0.12	\$ 6.00	\$0.25	\$19.00		
		1"			\$ 0.14	\$ 7.00	\$0.22	\$11.00		
8 Gauge	4.2mm	3/8"				\$ 0.14	\$ 7.00	\$0.20	\$15.00	
		1/2"		\$0.08	\$ 8.00	\$ 0.14	\$ 7.00	\$0.22	\$11.00	
		5/8"		\$0.09		\$ 0.14	\$ 7.00	\$0.15		\$15.00
		3/4"				\$ 0.16	\$ 8.00	\$0.36	\$27.00	
		1"				\$ 0.18	\$ 9.00	\$0.15		\$15.00
		1 1/4"		\$0.13	\$13.00	\$ 0.20	\$10.00	\$0.22	\$11.00	
10 Gauge	4.8mm	1/2"				\$ 0.20	\$10.00	\$0.21		\$21.00
		5/8"						\$0.20		\$20.00
		3/4"				\$ 0.23	\$11.50	\$0.28	\$14.00	
		1"				\$ 0.24	\$12.00	\$0.24	\$12.00	
		1 1/2"			each	per 100	each	per 100	each	per 50
					\$ 12.50					
12 Gauge		1"					\$0.70	\$26.50		
5.5mm										
14 Gauge	6.4mm	5/8"						\$0.70	\$26.50	
		3/4"				\$0.44	\$22.00			
		1"				\$0.50	\$25.00			

Self Tapping Screws

Pan Head Self Tapping Screw ANSI B18.6.4			Black Zinc Phillips drive Hardened Steel	
Gauge	Length	Point Type		
			each	per 250
8 Gauge	1/2"	AB	\$0.07	\$12.50
	5/8"	AB	\$0.08	\$15.00
	3/4"	AB	\$0.09	\$17.50
10 Gauge	3/4	AB	\$0.13	\$25.00



Self Tapping Screws - Truss (Washer) Head

Type AB, Phillips Drive,
Black Zinc

Gauge	Length	PHILLIPS Black	
		each	per 250
8 Gauge	1/2"	\$0.09	\$17.50
	5/8"	\$0.09	\$17.50
	3/4"	\$0.10	\$17.50
10 Gauge	3/8"	\$0.12	\$15.00
	1/2"	\$0.18	\$22.50
	3/4"	\$0.20	\$25.00



SEMS Hex Head

Single flat washer attached.
Available in Black or Yellow zinc plate

Gauge	Length	HEX Black		HEX YELLOW	
		each	per 100	each	per 100
12 Gauge	3/4"	\$0.34	\$17	\$0.30	\$15
	1/4"	\$0.40	\$20	\$0.40	\$30



Screw Gauge Number vs Diameter

Use this chart to convert screw shank diameter
to screw gauge number.

Screw Gauge Number	Diameter (inches)	Diameter (millimetres)
0	0.060	1.52
1	0.073	1.78
2	0.086	2.20
3	0.099	2.52
4	0.112	2.84
5	0.125	3.18
6	0.138	3.51
7	0.151	3.84
8	0.164	4.18
9	0.177	4.50
10	0.190	4.83
12	0.216	5.49
14	0.242	6.15

Metal Self Drilling Screws - SDS

Button Wafer Head			Yellow Zinc Phillips drive	
Gauge	tpi	Length mm	per 200	per 1000
8 Gauge	18	20	\$8.20	\$28.65
		25	\$9.00	\$33.65



Wood Screws

COUNTERSUNK - Slotted

SOLID BODY, CUT THREAD

Length is measured from top of head.

Brass: highly corrosion resistant, relatively soft

Silicon Bronze: Is often preferred over stainless 304/316 in wooden boat construction and re-fastening due to its superior corrosion resistance, and over brass due to its higher strength. Bronze is similar to copper in colour and is sometimes seen in fine woodworking where it is used for its appearance.



Size	Length	BRASS				SILICON BRONZE C65100-HO4	
		Un-plated		Nickel plated		Each	per 100
		Each	per 100	Each	per 100		
0 gauge	3/8		\$11.70				
1 gauge	1/4	\$0.18	\$13.00				
	3/8		\$12.50				
2 gauge	1/4	\$0.18	\$13.00				
	3/8						
	1/2	\$0.20	\$14.00				
	5/8	\$0.21	\$15.00				
3 gauge	3/8	\$0.20	\$14.00				
	1/2	\$0.21	\$15.00				
	5/8	\$0.21	\$15.00				
4 gauge	3/8						
	1/2	\$0.21	\$15.00	\$0.26	\$18.00	\$0.20	
	5/8	\$0.22	\$15.00				
	3/4	\$0.24	\$17.00			\$0.26	
	1	\$0.30	\$22.00				
5 gauge	1/2						
	5/8						
	7/8						
6 gauge	1/2	\$0.23	\$16.00				
	5/8	\$0.25	\$18.00				
	3/4	\$0.27	\$19.00			\$0.30	\$27.00
	1	\$0.31	\$23.00	\$0.28	\$20.00	\$0.35	
	1 1/4	\$0.41	\$29.00			\$0.45	
	1 1/2	\$0.40	\$28.00				
7 gauge	3/4						
8 gauge	3/4	\$0.30	\$22.00	\$0.30	\$22.00	\$0.40	n/a
	7/8	\$0.31	\$23.00				
	1	\$0.36	\$25.00	\$0.39	\$27.00	\$0.50	\$45.00
	1 1/4	\$0.43	\$30.00	\$0.42	\$29.00		
	1 1/2	\$0.47	\$33.00	\$0.50	\$36.00	\$0.64	\$58.00
	2	\$0.60	\$42.00				
	2 1/2	\$0.73	\$51.00				

Wood Screws

COUNTERSUNK - Slotted

SOLID BODY, CUT THREAD

Length is measured from top of head.



Size	Length	BRASS				SILICON BRONZE	
		Un-plated		Nickel plated		C65100-HO4	
		Each	per 100	Each	per 100	Each	per 100
10 gauge	3/4	\$0.27	\$19.00				
	1	\$0.43	\$30.00	\$0.40	\$28.00	\$0.60	\$57.00
	1 1/4	\$0.56	\$39.00				
	1 1/2	\$0.62	\$43.00	\$0.55	\$39.00	\$0.94	\$85.00
	1 3/4	\$0.71	\$50.00			\$1.08	\$97.00
	2	\$0.82	\$57.00			\$1.22	
	2 1/2	\$0.83	\$58.00				
12 gauge	3	\$1.03	\$72.00				
	1	\$0.53	\$38.00			\$0.84	
	1 1/4	\$0.70	\$49.00				
	1 1/2	\$0.78	\$55.00				
	1 3/4						
	2	\$1.03	\$72.00			\$1.50	
14 gauge	2 1/2	tba				\$1.90	
	3						
	1 1/4	\$0.85	\$60.00				
	1 1/2	\$0.94	\$66.00			\$1.60	
16 gauge	2	\$1.18	\$83.00				
	2 1/2						
	2	Each	per 25				
		\$1.36					

Screw Gauge Number vs Diameter		
Use this chart to convert screw shank diameter to screw gauge number.		
Screw Gauge Number	Diameter (inches)	Diameter (millimetres)
0	0.060	1.52
1	0.073	1.78
2	0.086	2.20
3	0.099	2.52
4	0.112	2.84
5	0.125	3.18
6	0.138	3.51
7	0.151	3.84
8	0.164	4.18
9	0.177	4.50
10	0.190	4.83
12	0.216	5.49
14	0.242	6.15
16	0.268	6.81

Wood Screws

COUNTERSUNK - Square drive

SOLID BODY, CUT THREAD

Length is measured from top of head.



Size	Length	SILICON BRONZE C65100-HO4			
		Each	per 25	per 50	per 100
6 gauge	3/4				
	1				
	1 1/4				
8 gauge	3/4				
	1	\$0.45			
	1 1/4	\$0.55			
	1 1/2				
	2				
10 gauge	1 1/4				
	1 1/2				
	1 3/4				
	2	\$1.00			\$105.00
	2 1/2				

Screw Gauge Number vs Diameter

Use this chart to convert screw shank diameter to screw gauge number.

Screw Gauge Number	Diameter (inches)	Diameter (millimetres)
2	0.086	2.20
3	0.099	2.52
4	0.112	2.84
5	0.125	3.18
6	0.138	3.51
7	0.151	3.84
8	0.164	4.18
9	0.177	4.50
10	0.190	4.83
12	0.216	5.49
14	0.242	6.15
16	0.268	6.81

Wood Screws

RAISED COUNTERSUNK - Slotted

CUT THREAD

Length is measured from widest part of head.
Brass is solid i.e. NOT plated

Size	Length	BRASS				SILICON BRONZE C65100-HO4	
		Un-plated		Nickel plated		Each	per 100
		Each	per 100	Each	per 100		
3 gauge	3/8			\$0.11	\$8.00		
	5/8	\$0.22	\$15.00				
4 gauge	1/2	\$0.22	\$15.00	\$0.17	\$12.00		
	5/8			\$0.15	\$11.00		
	3/4	\$0.25	\$18.00	\$0.28	\$20.00		
	7/8			\$0.21	\$15.00		
	1			\$0.34	\$24.00		
5 gauge	1/2						
	5/8			\$0.25	\$18.00		
	1	\$0.31	\$22.00				
6 gauge	1/2	\$0.23	\$16.00				
	3/4	\$0.30	\$21.00				
	1	\$0.32	\$22.00	\$0.38	\$27.00		
	1 1/4	\$0.38	\$27.00	\$0.36	\$25.00		
	1 1/2	\$0.43	\$30.00				
7 gauge	3/4	\$0.30	\$21.00				
8 gauge	3/4	\$0.33	\$23.00	\$0.34	\$24.00		
	1	\$0.49	\$34.00	\$0.52	\$36.00	\$0.57	
	1 1/4	\$0.45	\$32.00	\$0.39	\$27.00		
10 gauge	3/4	\$0.37	\$26.00				
	1	\$0.54	\$38.00				
	1 1/4	\$0.59	\$42.00				
	1 1/2	\$0.67	\$47.00	\$0.65		\$0.97	
			Each	per 50			
	2	\$0.88	\$31.00				



Wood Screws

ROUND HEAD - Slotted

CUT THREAD

Length is measured from under the head.
Solid brass



Size	Length	BRASS				SILICON BRONZE C65100-HO4	
		Un-plated		Nickel plated		Each	per 100
		Each	per 100	Each	per 100		
1 gauge	3/8	\$0.20	\$14.00				
2 gauge	3/8	\$0.22	\$16.00				
	1/2	\$0.22	\$16.00				
3 gauge	3/8	\$0.23	\$16.00				
	1/2			\$0.17	\$12.00		
4 gauge	3/8	\$0.23	\$16.00				
	1/2	\$0.24	\$17.00	\$0.16	\$12.00	\$0.22	
	3/4	\$0.27	\$19.00				
	1			\$0.31	\$22.00		
6 gauge	1/2	\$0.25	\$18.00				
	3/4	\$0.29	\$20.00	tba			
	7/8	\$0.29	\$20.00				
	1	\$0.33	\$23.00	\$0.37	\$26.00		
	1 1/4	\$0.41	\$29.00				
	1 1/2	\$0.47	\$33.00				
8 gauge	3/4	\$0.34	\$24.00			\$0.45	\$41.00
	1	\$0.42	\$30.00	\$0.44	\$31.00	\$0.52	
	1 1/4	\$0.51	\$36.00			\$0.62	\$55.00
	1 1/2	\$0.56	\$39.00				
10 gauge	3/4	\$0.32	\$22.00				
	1					\$0.67	
	1 1/2	\$0.71	\$50.00				
	2	\$0.95	\$67.00				
12 gauge	1 1/2	\$0.86	\$60.00				
	2	\$0.90	\$63.00				
	2 1/2	\$1.10	\$77.00				
14 gauge	2	\$1.26	\$88.00				

Silicon Bronze Nails

FLAT HEAD RING (ANNULAR) NAILS

SKU	Shank Dia. Length		Price		Approx. Number of nails per 100g
	mm	mm	per 50	per 100	
SBNFL1815	1.83	15		\$ 3.50	
	2.00	20		\$ 5.80	
	2.00	25		\$ 7.40	135
	2.00	30		\$ 8.40	
	2.50	25		\$ 10.90	
	2.50	40		\$ 16.20	
	2.77	32	\$ 9.00		
	2.77	40	\$ 11.10		
	2.77	50	\$ 15.40		
	3.15	40	\$ 8.70		
	3.15	50	\$ 15.80		
	3.14	65	\$ 23.00		
	3.25	65	\$ -		
	3.25	75	\$ -		
	3.40	50	\$ 15.10		
	3.40	60	\$ 18.00		
	3.40	65	\$ -		
	3.40	75	\$ -		



Shank Dia	Head Diameter
mm	mm
1.83	4.50
2.00	4.50
2.50	6.00
2.70	6.50
3.14	7.50
3.25	7.70
3.40	7.85

Brass Nails

ESCUTCHEON PINS

SOLID BRASS

English Standard Wire Gauge (SWG)

Gauge		Length	Head OD	per 100
SWG	Metric		mm	
17G	1.5mm	3/8	2.9	\$ 4.00
		1/2		\$ 4.75
		3/4		\$ 5.75
16G	1.6mm	1/2	3.5	\$ 4.95
		5/8		\$ 7.40
		3/4		\$ 7.85
14G	2.0mm	1		\$ 10.45
		1/2	4.2	\$ 6.60
		3/4		\$ 10.80
		1		\$ 13.90



Standard Wire Gauge (SWG) dimensions

SWG	inches	mm
6	0.192	4.88
7	0.176	4.47
8	0.160	4.06
9	0.144	3.66
10	0.128	3.25
11	0.116	2.95
12	0.104	2.64
13	0.092	2.34
14	0.080	2.03
15	0.072	1.83
16	0.064	1.63
17	0.056	1.42
18	0.048	1.22
19	0.040	1.02
20	0.036	0.91
21	0.032	0.81
22	0.028	0.71

Copper Nails

COPPER SHEATHING NAILS

SOLID COPPER

Clout type nail round plain shank

English Standard Wire Gauge (SWG)

Traditionally used to secure copper sheathing (thin copper sheet) onto the hulls of timber boats to reduce marine growth and attack by wood worm.



SKU	Gauge		Length	each		per 100	Approx. Number of nails per 100g
	SWG	Metric					
CNS1258	12G	2.64mm	16mm	\$ 0.17	\$	12.00	105
CNS1234			19mm	\$ 0.21	\$	15.00	87
CNS1178	11G	2.94mm	22mm	\$ 0.19	\$	13.50	68
CNS111			25mm	\$ 0.33	\$	23.00	58

Copper Square Shank "Boat" Nails

SOLID COPPER

FLAT HEAD

Square shank copper nails are often used for timber boat manufacture and repair. They can be used by themselves in the standard fashion, clenched or conjunction with a copper roves to create a riveted joint.



Gauge		Head Dia mm	Length	each	
SWG	Metric				
12G	2.64mm	6.4mm	50mm	\$	0.41
			65mm	\$	0.51
			75mm	\$	0.61
11G	2.94mm		50mm	\$	0.45
10G	3.25mm		50mm	\$	0.58

Copper Roves

Copper Roves are a small dished washer used in conjunction with boat nails to create a riveted joint. The rove should have a hole slightly smaller than the nail being used . It is driven onto the nail, the nail clipped to length and then peened over to create a secure fastening.



Looking for a rove setting tool? I suggest that you try a bit of dowel or metal rod, drill a hole in one end to fit the nail and then countersink to create a dish shape.

Size		per each	per 50	per 100
Outside diameter	suits nail size			
10mm	14 gauge	\$ 0.13		\$ 9.00
11mm	12 gauge	\$ 0.20		\$ 14.00
13mm	10/11 gauge	\$ 0.35		\$ 25.00
16mm	8 gauge	\$ 0.51		\$ 36.00
19mm	6 gauge	\$ 1.15	\$ 40.42	

TENAX - "made in England"

The original "Tenax" fastener, made in England, available in non-rustable nickel plated brass.














English made Tenax are NOT interchangeable with the German made variety.

How to tell the difference?

The upper part (button) on the English version is stamped "made in England".

The peg of the English version is acorn shaped whereas the peg of the German type is spherical.

	Part No	Description	Price Each	Per 50
	31	Standard Button	\$5.55	\$194.25
	302	Button Lock Nut - standard dished type	\$1.05	\$36.75
	33	Button Lock Nut - Flat	\$1.05	\$36.75
	33EL	Button Lock Nut - for extra thickness material	\$1.45	\$50.75
	18	Peg & Nut - standard 3/8" length	\$1.80	\$63.00
	18 - 5/8	Peg & Nut - 5/8" long	\$2.60	\$91.00
	11	Wood Screw Peg	\$1.55	\$54.25
	76	Self Tapping Peg Stainless Steel	\$2.10	\$73.50
	21	Double Screw Peg Base	\$1.65	\$57.75
	10	SET: Canvas peg and locking collar. Parts 1 and 10.	\$2.80	\$98.00
	1			
	34	Locking Key	\$1.00	

LOXX (TENAX) - "made in Germany"

LOXX® is a secure fastening solution that is lockable, easily detachable and prevents accidental opening. It is regarded as particularly child-safe and senior-friendly.







Developed more than 80 years ago to fasten soft-tops on convertibles, the LOXX® fastener (the original German fastener) has been used in many fields including the automotive industry, boat accessories, consumer goods, fashion, music and the automation industry.

Since 1928, the company Schaeffer, today the Schaeffertec GmbH, is the only German manufacturer of this ingenious fixing system.


It is a German product for customers who set value on quality and sustainability - not only for the sake of the environment.

There are copies, of course, but the original is and always will be LOXX® - Made in Germany!

LOXX SMALL HEAD

	LOXX Part No	Description	Price Each	Per 50
	05134.05000	Upper part, Small head. Nickel plated brass Includes standard lock nut (3mm)	\$5.05	\$126.25
	05134.79098	Upper part, Small head. Brass Black Chrome plated. Includes standard lock nut (3mm)	\$8.30	\$207.50
	05134.25000	Upper part, Small head. Brass with Antique Brass finish. Includes standard lock nut (3mm)	\$5.80	\$145.00
	05134.69000	Upper part, Small head. Brass with Antique Copper finish. Includes standard lock nut (3mm)	\$5.00	\$125.00

SMOOTH LARGE HEAD

	LOXX Part No	SKU	Description	Price Each	Per 50
	05115.79098	LXUPSHB	Upper part, Smooth head Brass Black Chrome plated Includes standard lock nut (3mm)	\$10.50	\$262.50

LOXX (TENAX) - "made in Germany"

LOXX LARGE HEAD


	LOXX Part No	Description	Price Each	Per 50
	05140.05000 05141.05000	Upper part, Big head. Brass Nickel plated. Includes standard lock nut (3mm) Includes long lock nut (4mm)	\$5.05	\$126.25
	05140.79098	Upper part, Big head. Brass Black Chrome plated. Includes lock nut.	\$9.70	\$242.50
	05140.25000 05141.25000	Upper part, Big head. Brass with Antique Brass finish. Includes standard lock nut (3mm) Includes long lock nut (4mm)	\$6.35	\$158.75
	05140.69000	Upper part, Big head. Brass with Antique Copper finish. Includes lock nut.	\$5.50	\$192.50
	08891.02098	Upper part, Big head. Hybrid, Stainless top with Brass nickel plated thread Includes standard lock nut (3mm)	\$7.00	\$175.00
	08865.02098 08868.02098	Upper part, Big head. 100% Stainless Includes stainless lock nut. Includes long lock nut (4mm)	\$9.20	\$230.00
	05196.61000	Upper part, Big head. "Mary" Brass with Antique Nickel finish. Includes lock nut.	\$7.00	\$175.00
	05241.63000	Upper part, Big head. "Evil Skull" Brass Gun Metal finish Includes standard lock nut (3mm)	\$11.20	\$280.00
	05196.25000	Upper part, Big head. "Victoria" Brass with Antique Brass finish. Includes standard lock nut (3mm)	\$7.00	\$175.00

LOXX (TENAX) - "made in Germany"





LOXX LARGE HEAD—XL

For material up to 6mm in thickness.


	LOXX Part No	Description	Price Each	Per 50
		Upper part, Big head, XL For clamping materials up to 6mm Brass with Antique Brass finish. Includes long lock nut (4mm)	\$8.00	\$200.00

LOXX PEGS

	Screw Peg for metal, wood, plastic 8 Gauge (4.2mm) Stainless thread								
	Thread length	Brass top						100% Stainless	
		Nickel		Chrome		Black Chrome		each	per 50
10mm					\$3.15	\$78.75			
12mm	\$2.80	\$70.00			\$3.50	\$87.50	\$5.05	\$126.25	
16mm	\$2.45	\$61.50	\$2.75	\$68.75	\$3.50	\$87.50	\$5.25	\$131.25	
22mm	\$3.10	\$77.50							

	Machine Screw Peg With stainless nut								
	Size	Brass						100% Stainless	
		Nickel		Chrome		Black Chrome		each	per 50
M5 x 10mm	\$2.70	\$67.50	\$2.70	\$67.50	\$3.75	\$93.75	\$3.90	\$97.50	
M5 x 16mm	\$3.45	\$86.25							

DOWEL PEGS FOR SAIL TRACK

	LOXX Part No	Description	Price Each	per 50
	02233.00000	Plastic dowel pin used to secure 8 gauge screws both 10 & 12mm long to sail track.	\$1.60	\$40.00


LOXX (TENAX) - "made in Germany"

LOXX PEGS

Bases for use on fabric. Suitable for material up to 3mm thick. Use the extended washer (lock nut) for materials up to 4mm in thickness.



	LOXX Part No	SKU	Description	Price Each	Per 50
	95121.05000		Lower part for fabric. Nickel plated brass	\$3.55	\$88.75
	95121.79098 95125.79098		Lower part for fabric. Black Chrome plated brass Includes standard lock nut (3mm) Includes long lock nut (4mm)	\$6.25	\$156.25
	95121.25000 95125.25000	LXLPFAB LXLPFABE	Lower part for fabric. Antique Brass plated brass Includes standard lock nut (3mm) Includes long lock nut (4mm)	\$4.40	\$110.00
	95121.69000		Lower part for fabric. Antique Copper plated brass	\$3.50	\$87.50
	95127.02098		Lower part for fabric. Stainless steel	\$5.70	\$142.50

EXTENDED LENGTH WASHERS (NUT)


	LOXX Part No	Description	Price Each	Per 50
		Extended lock washer to install LOXX upper and lower parts in material up to 4mm thick.		
		Nickel plated brass	\$1.00	\$35.00
		Antique brass	\$1.00	\$35.00
		Black chrome	\$1.10	\$38.50
		100% stainless steel	\$1.10	\$38.50

LOXX (TENAX) - "made in Germany"




OVAL PLATES

	05929.05000	Oval plate Standard L=27mm Nickel plated brass	\$2.25	\$56.50
	05929.79098	Oval plate Standard L=27mm Black Chrome plated brass	\$3.15	\$78.75


Easily replace Dot Common Sense Turn Button fasteners with LOXX using the TBR plate. Hole spacing matches making the swap simple.

	05930.05000	Turn Button Replacement TBR Oval plate L=34.2mm Hole centres = 22.3mm Nickel plated brass	\$2.40	\$60.00
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LOXX TOOLS

	LOXX Part No	Description	Price Each
	04492.50000	Small key	\$1.50
	04500.00000	Big Key	\$26.00
		Small Hole Punch	\$2.00

DOT Fasteners

	SKU	Description	Dot Part	each	per 100
	DSN	Durable Stud Brass Nickel Plated	93-BS-10370	\$0.20	\$15.00



AMAL CONTROLS MOUNTING SCREWS



1BA FILLISTER HEAD SLOTTED SCREWS

These screws have specially turned down heads to suit Amal type throttles and handlebars controls.

Size	Thread	Head diameter	Thread length	Length	Each
1	BA	0.315"	full	9/16"	\$2.95
1	BA	0.315"	full	11/16"	\$3.10
1	BA	0.315"	0.545"	13/16"	\$3.30
1/4"	BSF	0.374"	0.415"	13/16"	\$4.00



Allen Screw Kit AMAL Carb Float & Top Chamber (622/086)

Stainless Steel

Contents: 4 Socket Cap Screws & 1 Key

\$10.00



BSA A7/A10 RGS B31 Sump Plate Studs (Set of 4)

Set of 4 Sump Plate Studs to suit BSA A7/A10 RGS, B31, Gold Star

1/4 BSF 26 tpi thread one end, 1/4 BSW the other.

Length = 7/8"

Steel, bright zinc plated.



Per Set of 4 **\$14.00**

BSA A7/A10 ROCKER COVER NUTS

1/4" BSF sleeve nuts to suit BSA A7/A10's.

Overall length 0.44"/11.2mm

Zinc plated steel.



Zinc

Each

Set of 8

\$18.00

BSA A7/A10 RGS Rocker Cover Studs (Set of 8)

Set of 8 Rocker Cover Studs to suit BSA A7/A10 RGS.

1/4 BSCY 26 tpi thread one end, 1/4 BSW the other.

Length = 1"

Steel, bright zinc plated.



Per Set of 8 **\$26.00**

BSA A10 Thick Flange cylinder Barrel Studs (Set of 9)

Bright Zinc plated.

Original BSA Part No 67-1214

Specifically for BSA A10

5/16 BSCY thread one side and 5/16 BSW the other.

Studs are 1.445" long

Made in England



Set of 9 **\$20.00**

BSA

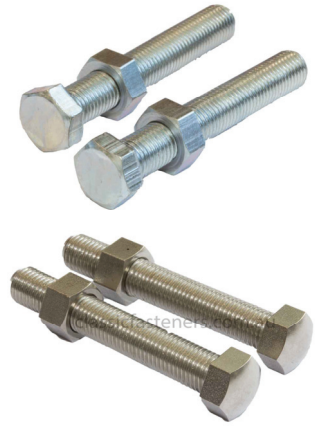
BSA CHAIN ADJUSTER BOLT SET

Original style 5/16 BSCY x 2" wheel adjuster bolts with reduced head size and matching locknuts. Suitable for BSA A & B group and B31-A10 swing arm models.

Available in zinc plated steel and stainless steel.
The stainless set screws have a slightly domed head

BSA Part No 42-6040

	Zinc	Stainless
Set of 2	\$10.00	\$35.00

**BSA CARBURETTOR DRIP TRAY**

\$45

To suit BSA A7/10 Auto Advance models only.
Made from stainless steel, laser cut and highly polished upper surface

OEM part number 67-0120

The holes are spaced 25mm apart, centre to centre. The two smaller holes are 8.5mm diameter and the larger hole is 30mm diameter.

**BSA HANDLE BAR CLAMP BOLTS**

Stainless steel 5/16 BSCY bolts manufactured on 1/4"BS hex size (smaller hex than normal 5/16 BSCY bolts). The head of these bolts is slightly domed.

Set includes 4 bolts/set screws and 4 flat washers



Thread	Length	Fully threaded	Price per set
5/16 - 26 BSCY	1"	Yes	\$33
5/16 - 26 BSCY	1 1/8"	No	\$33

Jaguar



XK rocker cover and cylinder head dome nuts and washers

To suit:

Jaguar XK120, XK140 and XK150 (1949-61) • Mark I (1955-59) • Mark II (1959-69) • E-Type Series 1 and 2 (1961-70) • Mk5 (1948-51) • Mk7, Mk8 and Mk9 (1950-61) • Mk10 (1961-66) • 420G (1966-69) • S-Type 3.4 and 3.8 (1963-68) • 420 and Daimler Sovereign (1966-69) • XJ6 Series I (1968-72) • Daimler DS420 Limousine and Hearse (1968-72)

SKU			per each	
	Cam Cover Dome Nut - Chrome	1/4 - 28 UNF	0.63" High	\$4.05
	Copper Washer	1/4" bolt size		\$0.20
	Head Nut, Domed - Chrome	7/16 - 20 UNF		\$8.00
	D - Washer - Chrome	7/16" bolt size		\$6.85
	Thick Round Washer - Chrome	7/16" bolt size		\$6.35

Genuine Lucas & Girling

We supply Genuine Lucas Motorcycle Parts that includes the Girling brake and shock absorber range.

A Lucas/Girling catalogue is available to download from our website www.classicfasteners.com.au/downloads/

Our stocked items can be located on our online store. Other items can be ordered.



Lucas

LUCAS WIPER BOX NUT 5/8—26 TPI

Description	Wiper Hex Nut. Six sided nuts were fitted to many Lucas windshield wiper boxes
Lucas part No.	153511
BMC part No.	37H6316
Material	Stainless steel



\$5.60

To suit Lucas Wiper Boxes as fitted to the below vehicles

- Austin Healey BN2 BN4 BN6 BN7 BT7 BJ7 BJ8
- Austin Healey Sprite MKI MKII
- MINI Cooper MKI MKII 998cc 1959-1968
- MGA 1500 1600 1600 MKII
- MGB 1962-1963 to roadster to (c)6916
- Midget MKI MKII
- Triumph TR3 from TS12568 TR4 TR4A
- Triumph TR250 1968

LUCAS HEADLAMP RIM SCREW



To suit Lucas motorcycle headlamps

Mushroom Head Slot Screw 2BA x 5/8 stainless steel

\$3.55



HANDLE BAR CLAMP BOLTS

Stainless steel 5/16 UNF bolts with slightly domed head..
High quality handlebar clamp bolt to suit many Triumph models T120, T140, T150, T160, TR6, TR7 etc



OEM Part No 21-0589

Thread	AF	Length	Thread length	Each
5/16 - 24 UNF	1/2"	1 1/8"	7/8"	\$8.50

Clevis Pins

Mild Steel
Zinc plated
ASME B18.8.1



SKU	Diameter	Length from under the head	Effective Length from under head to edge of split pin hole	Split Pin Size	Price each	Price per 25
CPZ1434	1/4	3/4	5/8	1/16	\$1.45	\$27.25
CPZ1478		7/8	3/4		\$1.45	\$27.25
CPZ141		1	7/8		\$1.45	\$27.25
CPZ14114		1 1/4	1 1/8		\$1.45	\$27.25
CPZ14112		1 1/2	1 3/8		\$1.45	\$27.25
CPZ51634	5/16	3/4	9/16	3/32	\$1.75	\$32.75
CPZ5161		1	13/16		\$1.75	\$32.75
CPZ516114		1 1/4	1 1/16		\$1.75	\$32.75
CPZ516134		1 3/4	1 9/16		\$1.75	\$32.75
CPZ381	3/8	1	13/16	3/32	\$1.85	\$34.75
CPZ38118		1 1/8	1		\$1.85	\$34.75
CPZ38112		1 1/2	1 5/16		\$1.85	\$34.75
CPZ382		2	1 13/16		\$1.85	\$34.75
CPZ716112	7/16	1 1/2	1 5/16	3/32	\$1.95	\$36.50
CPZ12114	1/2	1 1/4	1	1/8	\$2.90	\$54.50
CPZ12112		1 1/2	1 1/4		\$2.90	\$54.50

Split Pins

Diameter	Length	Material	per 25	per 200	SKU
M1.0	10mm	Stainless	\$ 3.00	\$ 6.00	SPIA2M1X10
M1.2	12mm	Stainless	\$ 3.00	\$ 7.00	SPIA2M12X12
M2	12mm	Stainless	\$ 3.50	\$ 11.00	SPIA2M2X12



E-Clips

E Type Circlip				
DIN6799				
SKU	Groove Diameter	each	per 50	per 100
ETCA2M12	M1.2	\$ 0.20		\$ 10.00
ETCA2M15	M1.5	\$ 0.20		\$ 10.00
ETCA2M19	M1.9	\$ 0.20		\$ 10.00
ETCA2M23	M2.3	\$ 0.20		\$ 10.00
ETCA2M32	M3.2	\$ 0.20		\$ 11.00
ETCA2M04	M4	\$ 0.30		\$ 17.00
ETCA2M05	M5	\$ 0.45		\$ 23.00
ETCA2M06	M6	\$ 0.50		\$ 25.00
ETCA2M07	M7	\$ 0.80	\$ 20.00	
ETCA2M08	M8	\$ 1.15	\$ 28.50	
ETCA2M09	M9	\$ 1.55	\$ 39.00	
ETCA2M10	M10	\$ 2.10	\$ 52.50	



Assortment Kit - 100 E-Clips, 10 of each size M1.9 to M10 **\$60.00**

BSF Grease Nipples

Zinc plated grease nipples.
1/4" BSF straight \$2.00



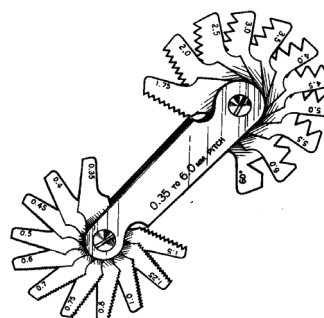
Hex (Allen) Keys

Size	Type	Price
1.5mm	Short Arm	\$1.00
2mm	Short Arm	\$1.00
2.5mm	Short Arm	\$1.00
3mm	Short Arm	\$1.00
4mm	Short Arm	\$1.50
5mm	Short Arm	\$1.50
5/32"	Short Arm	\$1.00
3/16"	Short Arm	
7/32"	Short Arm	\$1.50



Thread Gauges

Identify the thread on that mystery bolt. Measure its diameter and then using a thread gauge measure it's thread pitch. Compare this information to our thread chart to determine what thread your bolt or screw is. Thread chart available upon request and supplied with every thread gauge.



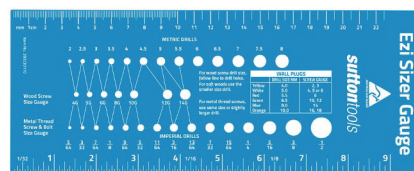
Whitworth 55° \$14.50
(Marked in threads per inch)

Metric 60° \$13.20
(Thread pitch marked in millimetres)

Unified National 60° \$16.60
(Marked in threads per inch)

EZI Sizer Gauge

For measuring gauge and length of wood, self tapping, metal thread screws, bolts, wall plugs and drill sizes. \$7.50



Clutch Locking Tools

These tools lock the clutch drum and the centre together for easy tightening or removal of the clutch centre nut. Laser cut. Some minor filing to fit to your clutch basket may be required..



BSA C15, B25, B40, B44, B50 & Triumph TR25W
Triumph & BSA part number: 61-3774

\$22

Norton Singles and Twins

\$20

Norton Commando

Norton part number: 06-1015

\$22

HSS Jobber Drills - Tapping Drills

High Speed Steel Jobber Drills in a selection of odd sizes for use as tapping drills.

118° Split Point



Drill Diameter (mm)	Price per Pkt.	Pkt Qty	Tapping drill will suit these thread sizes			
1.50	\$8.35	2				
1.60	\$6.20	2				M2 x 0.4
2.50	\$7.15	2				M3 x 0.5
2.85	\$3.85	1			6-32	
3.00	\$7.15	2		4BA		
3.30	\$4.35	1				M4 x 0.7
3.50	\$4.25	1			8-32	
3.70	\$4.80	1	3/16 BSW			
3.90	\$4.80	1			10-24	
4.00	\$4.80	1	3/16 BSF	2BA		
4.10	\$5.20	1			10-32	
4.20	\$5.20	1				M5 x 0.8
4.50	\$5.20	1		1BA	12-24	
5.00	\$6.05	1				M6 x 1
5.10	\$6.95	1	1/4 BSW	0BA	1/4 UNC	
5.30	\$6.55	1	1/4 BSF			
5.40	\$4.00	1				
5.50	\$6.95	1			1/4 UNF	
5.60	\$6.95	1		1/4 BSCY		
6.00	\$7.85	1				M7 x 1
6.50	\$8.75	1	5/16 BSW			
6.60	\$10.05	1			5/16 UNC	
6.80	\$10.05	1	5/16 BSF			M8 x 1.25
6.90	\$10.05	1			5/16 UNF	
7.00	\$10.05	1		5/16 BSCY		M8 x 1
8.00	\$12.20	1			3/8 UNC	
8.30	\$12.50	1	3/8 BSF			
8.50	\$13.60	1			3/8 UNF	
8.70	\$15.00	1		3/8 BSCY		

Thread Insert Tools

“Power Coil” thread repair kits are a simple way to repair stripped or damaged threads and are ideal in alloys and other light materials. In most cases the repair is stronger than the original. Many thread types and sizes are available. Listed below are some of the more popular kits.

Each kit includes a high speed steel tap, 1.5D long inserts (length equals 1 1/2 times the diameter), insertion tool, tapping drill and instructions.

Please contact us for product information and prices of other sizes in the range.

Size	Thread	Kit Price	Inserts
			Pack of 10 1.5D long Price
1/4"	BSF	\$108.50	\$9.90
5/16"	BSF	\$116.00	\$11.10
3/8"	BSF	\$123.50	\$14.80
7/16"	BSF	\$142.00	\$17.60
1/2"	BSF	\$170.00	\$17.60
1/4"	BSCY	\$82.50	\$12.60
5/16"	BSCY	tba	\$16.45
3/8"	BSCY	\$103.35	\$19.10
7/16"	BSCY	\$120.50	
1/4"	BSW	\$78.00	\$9.50
5/16"	BSW	\$84.50	\$10.70
3/8"	BSW	\$95.50	\$14.80
2BA		\$122.00	
10-32	UNF	\$77.50	\$8.80
1/4"	UNF	\$71.50	\$9.50
5/16"	UNF	\$78.50	\$10.55
3/8"	UNF	\$92.50	\$14.80
1/4"	UNC	\$74.00	\$9.50
5/16"	UNC	\$81.40	\$10.55
3/8"	UNC	\$92.50	\$14.80
M4	0.70mm	\$77.00	\$8.55
M5	0.80mm	\$67.00	\$8.55
M6	1.00mm	\$70.00	\$10.00
M8	1.00mm	\$92.00	\$10.55
M8	1.25mm	\$85.00	\$10.55
M10	1.25mm	\$113.50	\$14.80
M10	1.50mm	\$105.00	\$14.80



Taps, Dies & Drills

We source a wide variety of taps, dies and die nuts, from the most common to the most unusual. Listed below are some of the more popular sizes. A variety of tap and die sets are also available. Prices on request.

All the Taps and Dies that we supply are of the finest quality.

All taps listed are available in 3 forms

- ◆ **Taper** Gradual taper used for starting new threads.
- ◆ **Intermediate** Less tapered, used to follow a Taper tap or for restoring threads.
- ◆ **Bottoming** Very little taper, so will cut thread to the bottom of a blind hole, but the lack of taper makes starting a new thread more difficult.

For general workshop use we would recommend the use of an Intermediate tap, and unless otherwise specified, this is what we will supply.

British Association (BA) - 47.5° Thread Angle						
SIZE	tpi	TAPS		BUTTON DIES		TAPPING DRILL Size (mm)
		Carbon Steel	High Speed Steel	13/16" OD Carbon	1" OD Carbon	
0	25.4	\$12.50	\$24.60	\$14.00		5.10
1	28.2	\$12.50	\$25.80	\$18.00		4.50
2	31.4	\$10.70	\$28.05	\$18.00	\$32.80	4.00
3	34.8	\$11.00	\$30.10	\$14.00		3.40
4	38.5	\$11.35	\$27.00	\$16.00	\$36.30	3.00
5	43.0	\$11.00	\$28.10			2.65
6	47.9	\$11.65	\$30.45			2.30



British Standard Whitworth (BSW) - 55° Thread Angle								
SIZE	tpi	TAPS		BUTTON DIES			DIE NUT Carbon Steel	TAPPING DRILL Size (mm)
		Carbon Steel	High Speed Steel	Carbon Steel	High Speed Steel	OD		
1/8"	40	\$13.00	\$36.35	\$25.90		1"	\$20.10	2.55
3/16"	24	\$8.30	\$22.95	\$23.30		1"	\$20.10	3.70
1/4"	20	\$9.50	\$24.70	\$25.00		1"	\$24.60	5.10
5/16"	18	\$10.90	\$24.40	\$25.00		1"	\$26.40	6.50
3/8"	16	\$10.75	\$33.30	\$23.30		1"	\$26.40	7.90
7/16"	14	\$13.30	\$44.30	\$26.26		1"	\$27.60	9.30
1/2"	12	\$17.60	\$49.65	\$31.40		1"	\$28.70	10.50

British Standard Fine (BSF) - 55° Thread Angle								
SIZE	tpi	TAPS		BUTTON DIES			DIE NUT Carbon Steel	TAPPING DRILL Size (mm)
		Carbon Steel	High Speed Steel	Carbon Steel	High Speed Steel	OD		
3/16"	32	\$9.60	\$29.00	\$35.30		1"	\$31.80	4.00
1/4"	26	\$11.40	\$33.00	\$36.00	\$74.00	1"	\$31.80	5.30
5/16"	22	\$13.10	\$36.00	\$35.30		1"	\$31.80	6.80
3/8"	20	\$15.50	\$50.00	\$36.70		1"	\$31.80	8.30
7/16"	18	\$19.00	\$52.30	\$41.25		1"	\$43.80	9.70
1/2"	16	\$23.90	\$64.50	\$59.75		1 1/2"	\$34.80	11.10
9/16"	16	\$30.40	\$90.95	\$88.45		2"	\$48.00	12.70
5/8"	14	\$37.70	\$81.10	\$91.60		2"	\$55.30	14.00
3/4"	12	\$44.55	\$125.25	\$96.85		2"	\$63.50	16.75

Taps, Dies & Drills

British Standard Cycle (BSCY) - 60° Thread Angle							
SIZE	tpi	TAPS		BUTTON DIES			TAPPING DRILL Size (mm)
		Carbon Steel	High Speed Steel	Carbon Steel	High Speed Steel	OD	
1/4"	26	\$12.00		\$36.00	\$55.00	1"	5.60
5/16"	26	\$22.00	\$42.50	\$36.00	\$55.00	1"	7.00
3/8"	26	\$25.00	\$49.15	\$36.00	\$55.00	1"	8.70
7/16"	20	Use 7/16 UNF		Use 7/16 UNF			
7/16"	26	\$32.00	\$58.80	\$36.00		1"	10.30
1/2"	20	Use 1/2 UNF		Use 1/2 UNF			
1/2"	26	\$32.00	\$72.00	\$36.00	\$97.00	1"	15/32"
9/16"	20	-	\$78.00	-		1 1/2"	13.10
9/16"	26	-		-		1 1/2"	13.50
5/8"	20	-	\$99.00	-		1 1/2"	14.75



Dependent upon availability BSCY High Speed Steel taps & dies are sometimes substituted with UNS, also a 60 degree thread form.

Unified National Fine (UNF) - 60° Thread Angle								
SIZE	tpi	TAPS		BUTTON DIES			DIE NUT Carbon Steel	TAPPING DRILL Size (mm)
		Carbon Steel	High Speed Steel	Carbon Steel	High Speed Steel	OD		
10-32	32	\$11.70	\$25.15	\$33.75		1"		4.10
1/4"	28	\$11.70	\$30.60	\$27.50		1"	\$25.95	5.50
5/16"	24	\$13.10	\$26.60	\$27.50		1"	\$30.75	6.90
3/8"	24	\$13.10	\$30.60	\$27.50		1"	\$28.50	8.50
7/16"	20	\$16.90	\$41.30	\$31.00	\$70.00	1"	\$31.25	9.90
1/2"	20	\$18.55	\$46.60	\$31.80	\$62.00	1"	\$32.25	11.50

Unified National Coarse (UNC) - 60° Thread Angle								
SIZE	tpi	TAPS		BUTTON DIES			DIE NUT Carbon Steel	TAPPING DRILL Size (mm)
		Carbon Steel	High Speed Steel	Carbon Steel	High Speed Steel	OD		
6-32	32	\$16.30	\$27.50	\$32.50		1"	-	2.85
8-32	32	\$13.95	\$25.40	\$35.00		1"	-	3.50
10-24	24	\$11.70	\$25.00	\$33.70		1"	-	3.90
12-24	24	\$11.70	\$25.00	\$33.70	\$57.00	1"	-	4.50
1/4"	20	\$11.70	\$27.00	\$27.00		1"	\$27.60	5.10
5/16"	18	\$11.70	\$27.00	\$27.00		1"	\$27.60	6.60
3/8"	16	\$12.15	\$27.00	\$27.00		1"	\$27.60	8.00
7/16	14	\$15.25						9.50
1/2	13							10.80

Taps, Dies & Drills



Metric (ISO) - 60° Thread Angle								
SIZE	tpi	TAPS		BUTTON DIES			DIE NUT Carbon Steel	TAPPING DRILL Size (mm)
		Carbon Steel	High Speed Steel	Carbon Steel	High Speed Steel	OD		
M2	0.40	\$9.90						1.60
M3	0.50	\$15.40	\$21.85	\$25.80		1"		2.50
M4	0.70	\$15.40	\$21.50	\$23.50		1"	\$30.60	3.30
M5	0.80	\$10.50	\$25.00	\$26.60		1"	\$30.60	4.20
M6	1.00	\$10.50	\$25.00	\$27.50	\$46.30	1"	\$30.60	5.00
M7	1.00	\$9.30	\$26.20	\$26.60		1"	\$31.20	6.00
M8	1.00	\$10.90	\$41.35	\$26.60		1"	\$33.30	7.00
M8	1.25	\$10.90	\$27.00	\$26.60		1"	\$34.60	6.80
M10	1.25	\$13.55	\$58.15	\$26.60		1"	\$50.50	8.80
M10	1.50	\$13.55	\$35.30	\$26.60		1"	\$44.60	8.50
M12	1.25	\$28.50	\$66.90	\$28.75		1"	\$44.60	10.80
M12	1.50	\$15.40	\$66.90	\$26.40		1"	\$44.60	10.50
M12	1.75							
M14	1.50						\$57.25	

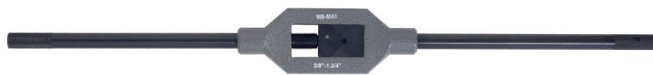
TAP WRENCHES

These are of high quality, normally Bordo or Goliath brand.



"T" Type Tap Wrenches

No.	Size range	Price
1/4 "T" Type	1/8" to 1/4"	\$38.40
1/2 "T" Type	1/4" to 1/2"	\$61.00



Bar Type Tap Wrenches

No.	Tap Size range	Price
00	1/16" to 1/4"	\$74.00
0	1/16" to 3/8"	\$74.00
5	3/16" to 1/2"	\$86.00
6	1/4" to 3/4"	\$109.00

DIE STOCKS

These are of high quality, normally Sutton, Bordo or Goliath brands.



For 13/16" diameter dies	\$33.00
For 1" diameter dies	\$30.00
For 1 1/2" diameter dies	\$66.00
For 2" diameter dies	\$90.00



GOLIATH PREMIUM QUALITY DIE STOCK

For 1" diameter dies \$35.00

How To Identify Thread Types

Identifying the thread of a bolt or screw is quite easy.

To identify a bolt or screw you need to know

1. the diameter of the bolt
2. the number of threads per inch (or pitch) on the bolt

These results are compared to information on a thread chart to identify the thread type (available from our web site).

Measuring the diameter of a bolt or screw.

This is best done with a micrometer or vernier.

If you do not have access to this equipment careful measurement using a steel rule will be fine for sizes 1/4" and up.

Measuring the threads per inch (or pitch)

Metric threads are measured by their pitch. That is the distance from the crest of one thread to the crest of the next, measured in millimetres.

The pitch of a metric thread can be checked by direct measurement with a metric rule.

Imperial threads have their pitch measured indirectly as a given number of teeth per inch.

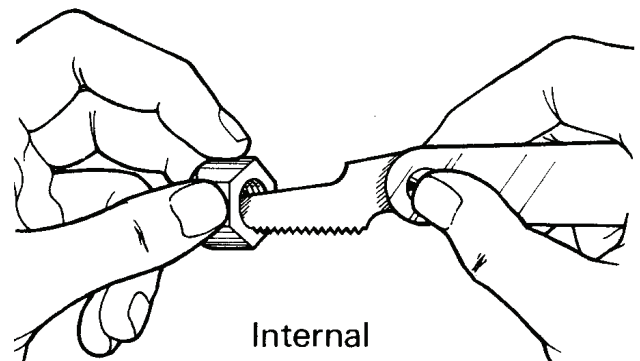
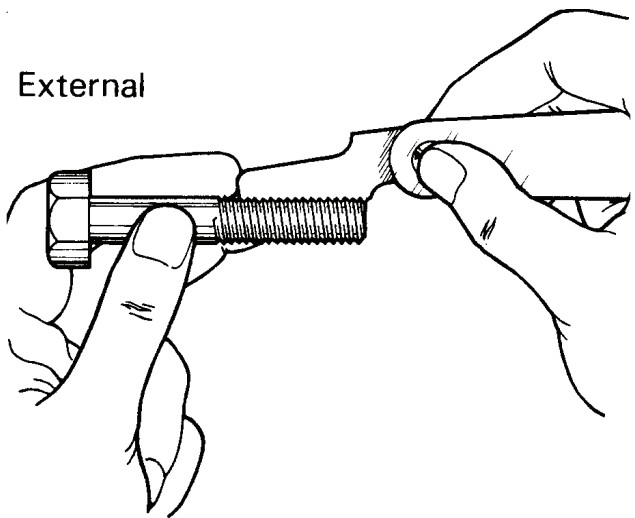
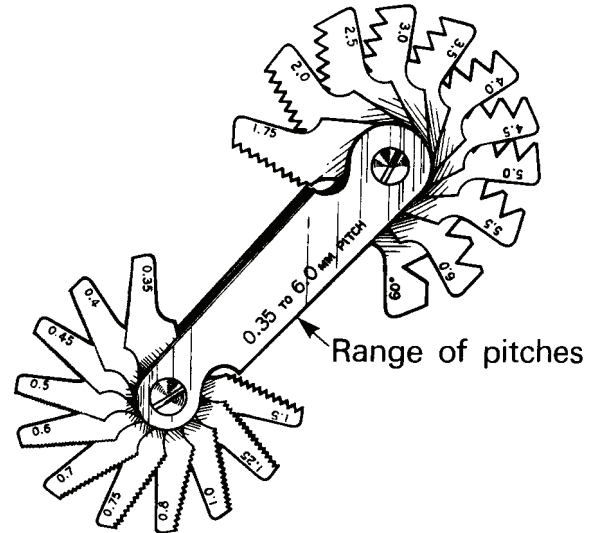
- Use a steel rule to find the pitch or teeth per inch of a thread
- Place a rule along the thread, parallel to its axis.
- Line up the crest of one tooth with a major division
- Count the number of teeth to match a whole number of divisions

Calculate the number of threads per inch

A much easier and more accurate way to identify the pitch of a bolt is to use a thread gauge (also known as a screw pitch gauge). These gauges consist of a steel case with a number of folding leaves at each end. Each leaf has teeth of a particular pitch, and is marked for reference.

Using the bolt pitch and diameter, compare this to the information on thread charts to identify the thread type.

Thread charts available from our web site.



USE OF SCREW PITCH GAUGES

Imperial Thread Chart (Threads per inch)

Imperial Thread Chart (Threads per inch)

Size	Major Dia "	Major Dia mm	BSF 55°	BSCY 60°	Brass 55°	BSW 55°	UNC 60°	UNF 60°	BA 47.5°
0G	0.0600	1.524						80	
1/16	0.0625	1.588				60			
10BA	0.0669	1.699							72.6
1G	0.0730	1.854					64	72	
9BA	0.0748	1.900							65.1
5/64	0.0781	1.984				56			
2G	0.0860	2.184					56	64	
8BA	0.0866	2.200							59.1
3/32	0.0938	2.381				48			
7BA	0.0984	2.499							52.9
3G	0.0990	2.515					48	56	
7/64	0.1094	2.778				48			
6BA	0.1102	2.799							47.9
4G	0.1120	2.845					40	48	
1/8	0.1250	3.175		40	26	40			
5G	0.1250	3.175					40	44	
5BA	0.1260	3.200							43
6G	0.1380	3.505					32	40	
9/64	0.1406	3.572							
4BA	0.1417	3.599							38.5
5/32	0.1563	3.969		32	26	32			
3BA	0.1614	4.100							34.8
8G	0.1640	4.166					32	36	
11/64	0.1719	4.366							
2BA	0.1850	4.699							31.4
3/16	0.1875	4.763	32	32	26	24			
10G	0.1900	4.826					24	32	
13/64	0.2031	5.159							
1BA	0.2087	5.301							28.2
12G	0.2160	5.486					24	28	
7/32	0.2188	5.556	28	26		24			
15/64	0.2344	5.953							
0BA	0.2362	5.999							25.4
1/4	0.2500	6.350	26	26	26	20	20	28	
17/64	0.2656	6.747							
9/32	0.2813	7.144	26	26	26	20			
5/16	0.3125	7.938	22	26	26	18	18	24	
11/32	0.3438	8.731							
3/8	0.3750	9.525	20	26	26	16	16	24	
13/32	0.4063	10.319							
7/16	0.4375	11.113	18	20/26	26	14	14	20	
15/32	0.4688	11.906							
1/2	0.5000	12.700	16	20/26	26	12	13	20	
9/16	0.5625	14.288	16	20/26	26	12	12	18	
5/8	0.6250	15.875	14	20/26	26	11	11	18	
11/16	0.6875	17.463	14		26	11			
3/4	0.7500	19.050	12	20/26	26	10	10	16	
13/16	0.8125	20.638							
7/8	0.8750	22.225	11	20/24	26	9	9	14	
15/16	0.9375	23.813							
1	1.0000	25.400	10	24	26	8	8	12*	

* Note: UNF is the same as ANF and SAE except at 1" dia where ANF and SAE are 14 tpi.

Metric Thread Chart

Metric Thread Chart

Dia mm	Dia inches	ISO Coarse	ISO Fine	SI French	A'mo- bileFine, French	SI (DIN) German	Lowen- herz	Swiss "A"	Swiss "B"
1	0.0394	0.25				0.25	0.25	0.25	0.2
1.1	0.0433	0.25							
1.2	0.0472	0.25				0.25	0.25	0.25	0.2
1.4	0.0551	0.3				0.3	0.3	0.3	0.2
1.6	0.0630	0.35							
1.7	0.0669					0.35	0.35	0.35	0.2
1.8	0.0709	0.35							
2	0.0787	0.4				0.4	0.4	0.4	0.25
2.2	0.0866	0.45							
2.3	0.0906					0.4	0.4	0.4	0.25
2.5	0.0984	0.45							
2.6	0.1024					0.45	0.45	0.45	0.35
3	0.1181	0.5		0.6		0.5	0.5	0.5	0.35
3.5	0.1378	0.6		0.6		0.6	0.6	0.6	0.35
4	0.1575	0.7		0.75		0.7	0.7	0.7	0.5
4.5	0.1772	0.75		0.75			0.75	0.75	0.5
5	0.1969	0.8		0.9	0.75	0.8	0.8	0.8	0.5
5.5	0.2165			0.9			0.9	0.9	0.5
6	0.2362	1		1	0.75	1	1	1	0.75
7	0.2756	1		1	0.75	1	1.1	1	0.75
8	0.3150	1.25	1	1.25	1	1.25	1.2	1.25	1
9	0.3543			1.25	1	1.25	1.3	1.25	1
10	0.3937	1.5	1.25	1.5	1/1.25	1.5	1.4	1.5	1
11	0.4331			1.5	1/1.25	1.5		1.5	1
12	0.4724	1.75	1.25	1.75	1.25/1.5	1.75		1.75	1.5
14	0.5512	2	1.5	2	1.5	2		2	1.5
15	0.5906								1.5
16	0.6299	2	1.5	2	1.5	2		2	1.5
17	0.6693				1.5				1.5
18	0.7087	2.5	1.5	2.5	1.5	2.5		2.5	1.5
20	0.7874	2.5	1.5	2.5	1.5	2.5		2.5	1.5
22	0.8661	2.5	1.5	2.5	1.5	2.5		2.5	1.5
24	0.9449	3	2	3	1.5	3		3	2
25	0.9843				1.5				2
26	1.0236								2
27	1.0630	3	2	3	1.5	3		3	2
28	1.1024				1.5				2
30	1.1811	3.5	2	3.5	1.5	3.5		3.5	2

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