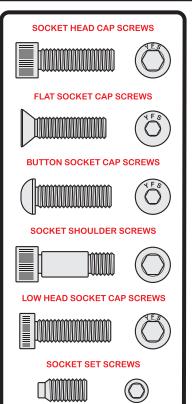
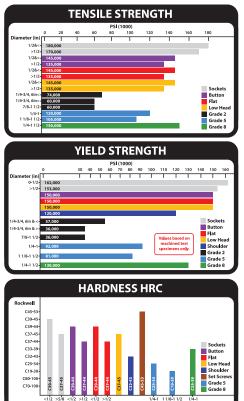
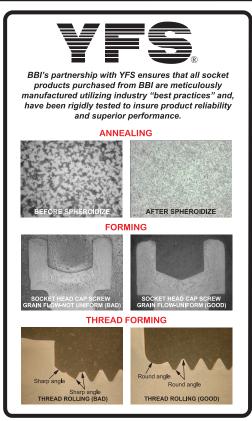


TECHNICAL GUIDE







APPLICATIONS				
Description	Use / Application			
Socket Screws				
Socket Head Cap Screws	Used in fastening or clamping components together, die castings, and machine assemblies among other use.			
Flat Socket Cap Screws	Used in applications where counter sinking is desired. Used when a flush finish is required for either safety or appearance requirements.			
Button Socket Cap Screws	Used when appearance is a factor and clamping material is too thin for counter sink. Examples are end panels, display shelving, and carts.			
Socket Shoulder Screws	Used in many tool and die applications as well as stationary guides, pulley shafts, moving shafts, or pivots.			
Low Head Socket Cap Screws	Used in applications where not enough clearance is available for a standard socket head cap screw.			
Dowel Pins	Formed ends, controlled heat treat; close tolerances; standard for die work; also used as bearings, gages, precision parts, etc.			
Pipe Plugs	3/4" taper (dry seal to help prevent leaks). 7/8 taper (flush seal to seat plug level with standard tapped hole).			
Set Screws (Multiple Point Types)	Used to fasten shaft collars, gears, and knobs on shafts or where frequent adjustments are involved.			
Cup Point Set Screws	Used against hardened shafts or where frequent adjustments are needed and no locking point is required.			
Knurl Cup Set Screws	Similar to cup point but where vibration might be a problem. Knurls lock onto seating material and prevent screw from loosening.			
Cone Point Set Screws	Used for permanent location of machine parts to shafts. Also used for pivots and fine adjustments.			
Oval Point Set Screws	The oval point is used where frequent adjustments may be required. It may be used in applications where the point contacts the mating part at an angle.			
Half Dog Set Screws	Used for permanent location of one part to another. Point is often set into a drilled hole. May sometimes take the place of a dowel pin.			
Full Dog Set Screws	Used for permanent location of one part to another. Point is often set into a drilled hole. May sometimes take the place of a dowel pin.			
Flat Point Set Screws	Used when parts must frequently be reset. Causes very minor damage to part it seats against.			

FASTENERS, RIVETS AND WASHERS

HIGH TENSILE BOLTS & NUTS





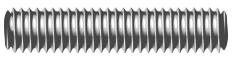
Bremick High Tensile fasteners are used where high strength connections are paramount. Our range includes, UNC Grade 5, UNC Grade 8, UNF Grade 5, UNF Grade 8 and Metric Class 8.8 Nuts & Bolts, Set Screws and Threaded Rod. Plain, zinc plated and galvanised finishes are all readily available.

Also available in zinc plated finish.

METRIC SAMPSONROD® 1M & 3M



- DIN 975
- Class 8.8



SAMPSONROD

HEX COUPLER AXHC08G

- Hot Dip Galvanised
- HEC
- Class 8





FLANGED HEX BOLT BF10PCM

- Plain
- DIN 6921
- Class 10.9



TRAILER ADJ BOLT ASSEMBLY KBS88GQM

- Hot Dip Galvanised
- HEC
- Class 8.8





METRIC HEX BOLT BH88GCM

- Hot Dip Galvanised
- Class 8.8

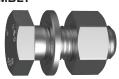


K2 10.9 STRUCTURAL ASSEMBLY KBHK9GCM



- EN 14399-3: 2015 / Class 10.9

- M16 - M36





K2 STRUCTURAL ASSEMBLY KBHK2GCM

- Mechanical Galvanised
- EN 14399-3: 2015
- Class 8.8





KO STRUCTURAL ASSEMBLY KBHK0GCM

- HDG
- AS1252:2016 / Class 8.8
- M12 M36





IMPERIAL HIGH TENSILE BOLTS & NUTS

Macsim Stocks the Eclipse range of imperial hi tensile bolt & nut range. They are manufactured to Australian Standard AS2465-1999.

HEAD	GRADE	THREAD	FINISH	DIAM.
Hex	5	UNC	Black	1/4"-1-1/2"
			Zinc	1/4"-1"
		UNF	Black/ Zinc	1/4"-1"
_	8	UNC	Black	1/4"-2"
			Zinc	1/4"-1"
		UNF	Black	1/4"-1-1/4"
			Zinc	1/4"-1"





MACSIM°

Macsim Stocks the Eclipse range of metric hi tensile bolt & nut range. They are manufactured to Australian Standard AS1110-2000 (Bolts) AS1112-2000(Nuts)

METRIC HIGH TENSILE BOLTS & NUTS

HEAD	THREAD	CLASS	FINISH	DIAM.
Hex	METRIC	8.8	Black	5-36mm
	COARSE		Zinc	5-24mm
			Gal	12mm



METRIC HEX SET SCREW BS88ZCM

- Zinc Plated
- AS 1110.2
- Class 8.8







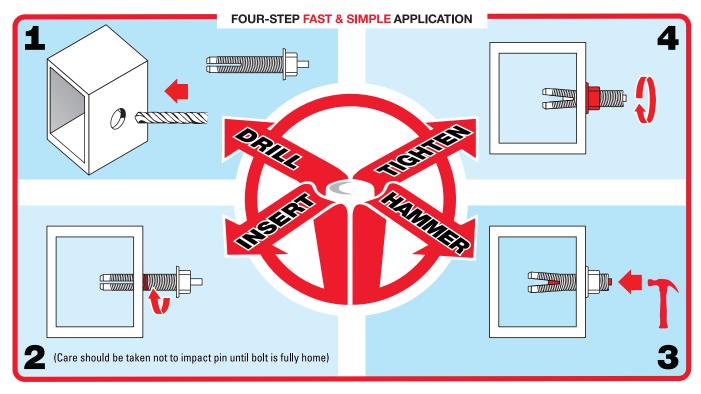
- AS 1110.1





For welding when dealing with steel work fabrication involving "blind" box sections.





Dimensions	Zinc Grade 8.8 Part Number	Stainless 316 Part Number	H. D. G. Part Number	Clamping Range	Pre-load Torque Settings
08mm X 50mm	PA0850	On Request	PAG0850	5mm – 34mm	20NM
10mm X 40mm	On Request	On Request	On Request	5mm – 34mm	35NM
10mm X 50mm	PA1050	PA1050SS	PAG81050	5mm – 30mm	35NM
10mm X 60mm	On Request	On Request	On Request		35NM
12mm X 30mm	On Request	On Request	On Request		50NM
12mm X 40mm	On Request	On Request	On Request		50NM
12mm X 50 mm	On Request	On Request	On Request		50NM
12mm X 60mm	PA1260	PA1260SS	PAG1260	7mm - 36mm	50NM
12mm X 75mm	On Request	On Request	On Request		50NM
14mm X 60mm	On Request	On Request	On Request		75NM
16mm X 60mm	PA1660	On Request	PAG1660	7mm – 32mm	100NM
20mm X 75mm	PA2075	On Request	PAG2075	7mm – 35mm	125NM
22mm X 24mm	On Request	On Request	On Request		150NM
24mm X 75mm	On Request	On Request	On Request		175NM





IORAWLPLUG®



- Bumax® 88 tensile strength equivalent to Class 8.8. Class 10.9 available on request.
- Unmatched corrosion resistance.
- Lower install cost solution. Smaller Bolt with greater strength.

BUMAX® FLANGE HEX LOCK NUT NLB8FCM



- Bumax®88
- BUMAX



BUMAX® HEX NUT

NHB8PCM

- Bumax®88

- ISO 4032



- Bumax®88
- ISO 10642





UNC PLOW BOLT CBPG9PC

- Plain
- HEC
- Grade 9





METRIC CAP SCREW SOCKET



- Zinc Plated
- DIN 912
- Class 12.9





UNC PLOW BOLT CBPG8PC

- Plain
- HEC
- Grade 8





METRIC LOW HEAD SOCKET

SLSOPCM

- Plain
- DIN 7984
- Alloy Steel





STUD BOLT & NUT KIT KSPB7

- Plain or Hot Dip Galvanised
- ASTM A193 / A194
- Grade B7 / 2H





METRIC COUNTERSUNK SOCKET **SCSOZCM**

- Zinc Plated
- DIN 7991
- Class 12.9*





K0 10.9 TENSION CONTROL BOLT KBCT9GCM

- HDG
- EN 14399-10: 2018 / Class 10.9
- M12 M36





METRIC BUTTON HEAD SOCKET

SBSOZCM

- Zinc Plated - ISO 7380
- Class 12 9*





UNC KNURL CUP PT SOCKET SSSKP

- Plain
- ANSI B18.3
- ASTM F912







UNF CAP SCREW SOCKET SHSOPF

- Plain
- ANSI B18.3
- ASTM A574





HBS BOLT KBB88GHM

- HDG
- M8-M20
- Class 8.8





BSW BUTTON HEAD SOCKET SBSOPW

- Plain - BS 2470
- Class 12.9*







FASTENERS, RIVETS AND WASHERS

BOLTS & NUTS ASSORTMENT KIT FEFK015

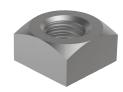
- Includes: M6 / M8 / M10 / M12
- Zinc Plated
- Metric
- Class 8.8
- 7.07kg
- 513 pieces





METRIC SQUARE NUT NQ08GCM

- Hot Dip Galvanised
- DIN 557
- Class 8





METRIC CONE LOCK HCL NUT NC10ZCM

- Zinc Plated
- DIN 980
- Class 10





METRIC SERRATED HEX FLANGE NUT NF08YCM

- Zinc Yellow Passivated
- ISO 4161
- Class 8





UNC HEX PLOW NUT CNPG8PC

- Plain
- HEC
- Grade 8





METRIC NYLOC® FLANGE NUT NF10YNM

- Zinc Yellow Passivated
- HEC
- Class 10





ONE SIDE BOLT KBO88GM20

- HDG
- M20, various grip ranges
- Class 8.8





METRIC HEX NUT NH08ZCM

- Zinc Plated
- AS 1112.1
- Class 8





FASTENERS

Richmond's new range of fasteners, includes nuts, bolts, set screws, washers, split pins, and more are available in a range of sizes & materials. With sizes from M8 to M20, our comprehensive range is sure to have what you're looking for.







RICHMOND







L200V1EN

L203V1FN

METRIC THIN HEX LOCK NUT NL08GCM

- Hot Dip Galvanised
- AS 1112.4
- Use with Class 8





METRIC NYLOC® NUT NN08GCM

- Mechanical Galvanised
- DIN 985
- Class 8



NYLOC



Fastener Black Book - 248 Pages of:

- · Screw thread fundamentals
- Standards
- · Heat treatment · Thread classes
- Grades
- · Materials & coatings
- · Failures & corrosion
- · Thread terminology
- Tolerances
- · Fastener strengths & markings
- · Hydrogen embrittlement
- · Screw thread profiles
- Dimensional Specifications DIN / ISO / ANSI
- Galling
- · Material selection
- · Torque control
- Platings
- · Elevated temperature effects

Thread Pitch Gauge Small edition with bonus tabs - L200V1EN Thread Pitch Gauge Large edition with bonus tabs - L203V1EN