



ALUMINIUM
STAINLESS STEEL
TITANIUM





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ABOUT US

Pro-Bolt is the world's leading supplier of high quality fasteners and has earned a reputation for excellence in supply, high quality and support from its work in the extremely demanding world of British Superbikes, World Superbikes and MotoGP. Our performance in the paddock means that users from other industry sectors, who need lightweight, high quality and performance fasteners, fit Pro-Bolt. Customers fit and forget with Pro-Bolt.

Based in the UK's Motorsport Valley, Pro-Bolt benefits from easy access to industry innovators and expertise. This, coupled with the knowledge we gain during our bespoke developments for racing clients, keeps our product range at the cutting edge of what is possible.

We couple innovative design and technical expertise with great looks and well thought through product ranges.

HOW PRO-BOLT'S CUSTOMERS HAVE HELPED US GROW

Our customers use our products in extreme conditions and constantly feed back to us their ideas for improvement, new requirements and application demands. By listening to this feedback we are able to keep our product ranges in line with our customers' needs.

PRO-BOLT'S QUALITY ASSURANCE

Our products are of superior quality because they are manufactured using fully certified and traceable raw materials, enhanced using multi-axis sliding head machines to ISO9001 standards and then anodised by our in-house experts. We carry high stock levels so that when you need to complete your project, or replace critical parts, we can meet your deadlines.

BESPOKE MANUFACTURE

If what you need is not a stock item we will make your parts quickly, using the same high quality materials and processes we use in our standard range, so that you can enjoy the same service and peace of mind, wherever your project takes you.

WORLDWIDE SUPPLY

Pro-Bolt supply more than 50 countries globally, offering multi-currency purchasing, local distribution and support, as well as UPS delivery, all designed to help you complete your projects on time, every time.

PERSONAL SERVICE COMMITMENT

Dedicated team for B2B, flexible when you need us to be and provide a service which delights you.

OUR CLIENTS

As the world's leading supplier of high quality, high performance and quality assured bolts and fasteners Pro-Bolt's products are everywhere, in space on satellites, in the sky on helicopters & UAVs, at sea and in homes. The following companies fit Pro-Bolt and benefit from light weight fittings, extreme performance tolerances and our perfect finish.



HOW TO ORDER

ORDER ONLINE

View our range of unique fasteners along with basic dimensional information all available from stock. Please complete our Trade Account form in advance enabling you to order on-line.

Our Global Website: www.pro-bolt.com

DELIVERY OPTIONS

We aim to deliver from stock in 1-2 days, but please allow 3 days before progressing your order. Delivery Options available are:

- Orders placed using 1st Class Post are not traceable and Pro-Bolt is not responsible for loss in transit or non-delivery;
- Royal Mail Signed for: Signed Proof of Delivery is available once delivered, but is non-traceable during transit;
- Courier: Fully traceable courier service;
- Guaranteed Next Day: Deliveries before 9.30am and/or 1pm are available depending on delivery address;
- Royal Mail: Saturday before 1pm.

TALK TO US

Office hours: Monday-Thursday 8.30 - 5.00 Friday 8.00 - 4.00

(Answerphone out of hours; all times GMT)

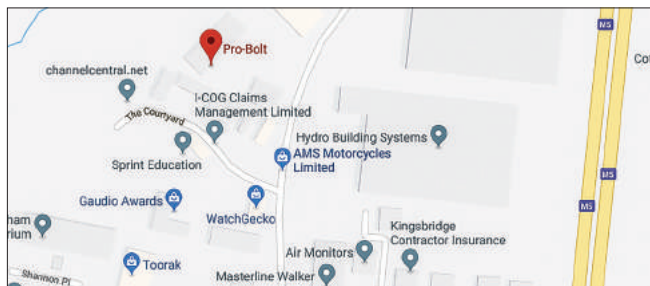
Telephone: +44 (0) 1684 851940

Fax: +44 (0) 1684 850080

E-mail: sales@pro-bolt.com

VISIT US

Come and meet us by visiting our UK office, which is located at: ProBolt Fasteners Ltd, Unit 9d, Delta Drive Industrial Estate, Tewkesbury, Gloucestershire, GL20 8HB, UK.



COMMERCIAL CUSTOMERS

Pro-Bolt has built its reputation by providing excellent quality products and first class customer service. We supply into a wide range of commercial markets globally and are able to accommodate most requests. We can offer customised stationary, incorporate our customer part numbers etc. Whatever the size of your project we would be happy to provide a quotation on request.



PAYMENT METHODS

Credit or Debit Cards: Please have your card ready. We accept MasterCard, Visa, Delta, Solo, Maestro, American Express and Giro Pay.

Money Orders / Bank Drafts: On receipt of a Pro-Bolt pro-forma invoice, please send payable to 'Pro-Bolt' quoting your order number.

PayPal: We can accept payment by PayPal – please ring for details.

Bank Transfers: Pro-Bolt are able to offer pricing in Pounds Sterling, Euros or US Dollars – please contact us for relevant information.

PRICE LISTS AND FITMENT GUIDES

This catalogue is supplied with a separate Price List giving prices for individual bolts, packs, boxes and kits. Due to volatile material prices, Pro-Bolt reserves the right to change prices and discontinue products without notice. All retail prices in our Price List include VAT and are in Pounds Sterling. VAT will not be charged to retail customers outside of the EU. VAT will not be charged to registered business outside the EU, or within the EU if a valid VAT number is provided on placement of order.

Product lists and price lists can be provided as excel exports on request. We can offer pricing in GBP, USD, Euro, JYP & AUD

PRO-BOLT COPYRIGHT

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JOIN OUR COMMUNITY

If you enjoy social networking, be the first to find out about our latest products and events by becoming a fan on Facebook. Our social networks provide exclusive images from the paddocks - including MotoGP, Moto2, Moto3, World Superbikes, World Supersport and British Superbikes. Our range is constantly evolving with new products which are regularly added to our website and broadcast on



Facebook: <http://www.facebook.com/ProBolt>



Twitter: <http://www.twitter.com/ProBolt>



Instagram: <https://www.instagram.com/proboltuk/>



YouTube

YouTube: <https://www.youtube.com/user/ProBoltUK>

MATERIALS

ALUMINIUM

ALL AVAILABLE IN A CHOICE OF 7 COLOURS:
BLACK • BLUE • GOLD • ORANGE • PURPLE • RED • SILVER

Lightweight, colour consistent and machined to a high quality smooth finish, our ever increasing aluminium range allows you to create a unique look and style.

You can customise your project little by little, or make large-scale changes. We offer model specific kits for motorcycles, cycle sets and rocker cover kits. All our fasteners are available in a choice of black, blue, gold, orange, purple, red and silver.

- **Material specification:** 7075T6 Aluminium
- **Manufacturing process:** Head: cold formed; Shank: thread rolled
- **Anodising:** Chemically brightened and colour anodised to between 8 and 12 microns thick
- **Weight:** 60% lighter than steel – 40% lighter than titanium
- **Corrosion:** Saltwater, road film or mild acids do not affect anodised aluminium
- **Application:** Aluminium is suitable for use in all non-safety critical areas – mudguards, screens, fairings, engine casings, huggers, fuel caps, number plates, lamp units, exhaust cans, heel plates, exhaust manifold brackets, fuel cap surrounds, air filters, car rocker covers, plus many more. Aluminium is not suitable for any stress area applications. If you are in any doubt as to the suitability of our products for your machine, or the size you need, please contact Pro-Bolt directly.

ANODISED PRODUCTS

The colour finish applied to our products is known as 'anodising'. This is an electrochemical conversion process that permanently changes the outer structure of the metal. When aluminium is exposed to air it naturally develops a thin aluminium oxide film that seals the aluminium from further oxidation. Its porous nature makes it possible to dye the aluminium a variety of colours.

TORQUE & LUBRICATION

When individual bolts are purchased, torque guides vary depending on the material, manufacturing method, thread diameter, pitch and head style. This torque information can be supplied on request. It can also be downloaded from www.pro-bolt.com in a separate document entitled 'Material Specification'.

MATERIAL PROPERTIES

- Density:2730 kg/m³ (170lb/ft³)
- Young's Modulus:72GPa (10.4 x 10⁶psi)
- Yield Strength:505MPa (73.2 x 10³psi)
- Ultimate Tensile Strength:570MPa (82.7 x 10³psi)
- Compressive Strength:505MPa (73.2 x 10³psi)
- Shear Modulus:27GPa (3.92 x 10⁶psi)
- Shear Strength:330MPa (47.9 x 10³psi)
- Ductility:10% elongation at break
- Poisson's Ratio:0.33
- Hardness:150 Brinell
- Strength-to-Weight Ratio:185 kNm/kg
- Stiffness-to-Weight Ratio:26.4 MNm/kg

Thread Diameter	Material Tensile Stress Area (mm ²)	Max Load (kN)	Total Elongation (mm)
M6	20.1	11.58	0.56
M8	36.6	23.19	0.62
M10	58.0	39.17	1.05

Maximum Torque Guide - Aluminium in Nm

Thread Diameter	M3	M4	M5	M6	M8	M10
Flanged Hex Head Bolt	n/a	n/a	6.00	8.00	12.00	20.00
Socket Cap	1.5	3.50	6.00	6.00	10.00	n/a
Dome Head/Fairing Bolt	n/a	2.50	4.00	5.00	8.50	16.00
Countersunk Bolt	n/a	2.00	2.50	5.00	8.00	n/a

For fasteners in general use, we recommend an anti-seize or a copper based lubricant be applied to the threads in order to prevent galling. If you are in any doubt as to the suitability or torque settings of our products for your specific application, please do not hesitate to contact us prior to fitment.



STAINLESS STEEL

AVAILABLE IN BLACK DLC, GOLD DLC & WITH A HIGH POLISH STAINLESS FINISH

Our stainless steel range of products is manufactured from 316 Stainless Steel, a premium quality product which offers superior strength and corrosion resistance.

Pro-Bolt stock high levels of tapered socket caps, flanged hex heads, race spec pre-drilled bolts, countersunk bolts and domed/mushroom fairing bolts. We offer a quality grade material in unique head styles. Our stainless range is available in a polished mirror finish, black and gold. Both black and gold have tough durable DLC coating.

- **Material specification:** 316 Stainless Steel.
- **Manufacturing process:** We manufacture in a single process on multi axis CNC machining centres, which includes thread rolling. Thread standards are to BS3692:1967 which is the British Standard for ISO Precision Metric Threads. Route radii vary between 0.8mm and 0.4mm. This is the maximum that we can use and improves shear strength. Thread lead varies between K1 and K2.
- **Material:** Stainless steels are iron alloys with a minimum of 16.5% Chromium with other elements (nickel, molybdenum, titanium, copper, carbon, Nitrogen) added to enhance properties such as formability and strength. It is the chromium-rich, oxide film that gives the corrosion resistance of stainless steel. This protective film is strong and chemically stable (i.e. passive) where there is sufficient oxygen on the surface. The protection is extremely thin and will usually self-repair if sufficient oxygen is available. Please note that under certain conditions the passive state can be broken down and corrosion can result.
- **Heat resistance:** 316 has good resistance to oxidation in continuous service to 870°C and intermittent service to 925°C. However, continuous use at 425-860°C is not recommended due to its resistance to carbide precipitation. Where high strength is required at temperatures above 500°C, Grade 316H is recommended.

Tribobond™ DLC coatings increase component lifetime dramatically. The enhanced tribological properties of Tribobond™ coatings not only protect the components from wear but also polish and protect the counter parts during in-running. As a result, the tribo system will remain in a low friction and wear condition.

MATERIAL PROPERTIES

- Density:8030 kg/m³ (501lb/ft³)
- Young's Modulus:..... 193GPa (28 x 10⁶psi)
- Yield Strength:.....260MPa (37.7 x 10³psi)
- Ultimate Tensile Strength:.....570MPa (82.7 x 10³psi)
- Compressive Strength:260MPa (37.7 x 10³psi)
- Shear Modulus: 78GPa (11.3 x 10⁶psi)
- Ductility:40% elongation at break +
- Minimum value allowed by ASTM A240
- Poisson's Ratio:0.27
- Hardness:95 Rockwell B +
- Maximum value allowed by ASTM A240
- Strength-to-Weight Ratio:32.4kNm/kg
- Stiffness-to-Weight Ratio:.....24 M Nm/kg

Thread Diameter	Material Tensile Stress Area (mm ²)	Max Load (kN)	Total Elongation (mm)
M6	20.1	16.40	1.93
M8	36.6	29.15	2.85
M10	58.0	46.89	3.70

Maximum Torque Guide - Stainless Steel in Nm						
Thread Diameter	M3	M4	M5	M6	M8	M10
Flanged Hex Head Bolt	2.00	5.00	12.00	15.00	35.00	38.00
Tapered Socket Cap	1.73	4.00	10.00	14.00	25.00	38.00
Dome Head Bolt	n/a	3.50	5.00	11.00	16.00	26.00
Countersunk Bolt	n/a	3.50	5.00	8.00	15.00	20.00

TORQUE & LUBRICATION:

When individual bolts are purchased, torque guides vary depending on the material, manufacturing method, thread diameter, pitch and head style. This torque information can be supplied on request. It can also be downloaded from www.pro-bolt.com in a separate document entitled 'Material Specification'.



MATERIALS

TITANIUM

ALL AVAILABLE IN A CHOICE OF 5 COLOURS:
BLACK DLC • BLUE • GOLD • NATURAL • PURPLE HAZE

Made from aircraft grade Titanium 6AL-4V (grade 5), our titanium bolts have a tensile strength in excess of 120,000psi, suitable for replacing both grade 5 and grade 8 steel bolts. In addition, we roll the threads to produce greater fatigue strength and reduce galling.

New to our titanium range is our unique and innovative 'DualDrive' bolt, designed for race teams this ultimate bolt combines form and function and offers superb functionality, strength and durability. You can select the appropriate tool, depending on accessibility & torque required. Head design is compatible with both a socket and allen key, our forged DualDrive offers rolled threads for superior strength and are pre-drilled for lockwiring.

New across our entire titanium range is a stunning black finish which is a tough durable 'DLC' coating.

We offer tapered, socket cap, flanged hex head, drilled race spec, countersunk, and dome head bolts, nuts and washers – from 3mm to 12mm. We also offer axle nuts, swingarm nuts, yoke nuts, caliper pins, banjo bolts, disc bolts and many more specifically machined items. Our titanium range is available in natural, blue, black, gold and purple haze.

- **Material specification:** Ti-6Al-4V, an alloy introduced in 1954, is a good general purpose grade. Titanium alloy is available in all product forms. Its density is 0.160 pounds per cubic inch, it can be heat-treated to ultimate strengths in excess of 170,000psi and responds to heat treatment in sections up to 15mm. This alloy is stable at temperatures ranging from 423°F to over 1000°F.
- **Manufacturing process:** We manufacture in a single process on multi axis CNC machining centres, which includes thread rolling. Thread standards are to BS3692:1967 which is the British Standard for ISO Precision Metric Threads. Root radii vary between 0.8mm and 0.4mm. This is the maximum that we can use and improves shear strength. Thread lead varies between K1 and K2.
- **Weight:** 42% lighter than steel.
- **Other items:** Machined from bar.

TORQUE & LUBRICATION

When individual bolts are purchased, torque guides vary depending on the material, manufacturing method, thread diameter, pitch and head style. This torque information can be supplied on request or can be downloaded from www.pro-bolt.com in a separate document entitled 'Material Specification'.

For fasteners in general use, we recommend an anti-seize or a copper based lubricant be applied to the threads in order to prevent galling, the exception being bleed nipples and banjo bolts which should be fitted dry. For bolts in safety critical areas, we would recommend a medium strength threadlock. If you are

Tribobond™ DLC coatings increase component lifetime dramatically. The enhanced tribological properties of Tribobond™ coatings not only protect the components from wear but also polish and protect the counter parts during in-running. As a result, the tribo system will remain in a low friction and wear condition.

MATERIAL PROPERTIES

- Density:4420 kg/m³ (276lb/ft³)
- Young's Modulus:..... 110GPa (16 x 10⁶psi)
- Yield Strength:828 MPa (120 x 10³psi)
- Ultimate Tensile Strength:..... 1030MPa (149 x 10³psi)
- Compressive Strength:960MPa (139 x 10³psi)
- Shear Modulus: 43GPa (6.24 x 10⁶psi)
- Ductility:10% elongation at break
- Poisson's Ratio:0.34
- Hardness:36 Rockwell C
- Maximum value allowed by ASTM A240
- Strength-to-Weight Ratio..... 187kNm/kg
- Stiffness-to-Weight Ratio..... 24.9MNm/kg

Thread Diameter	Material Tensile Stress Area (mm ²)	Max Load (kN)	Total Elongation (mm)
M6	20.1	21.25	0.54
M8	36.6	36.78	0.48
M10	58.0	53.53	1.45

Maximum Torque Guide - Titanium in Nm							
Thread Diameter	M3	M4	M5	M6	M8	M10	M12
Flanged Hex Head Bolt	2.00	5.00	12.00	15.00	35.00	38.00	97.50
Dual Drive	n/a	n/a	9.00	15.00	45.00	50.00	n/a
Tapered Socket Cap	1.73	4.00	10.00	14.00	25.00	38.00	n/a
Dome Head Bolt	n/a	3.50	5.00	11.00	16.00	26.00	n/a
Countersunk Bolt	n/a	3.50	5.00	8.00	15.00	20.00	n/a

in any doubt as to the suitability or torque settings of our products for your specific application, please do not hesitate to contact us prior to fitment.

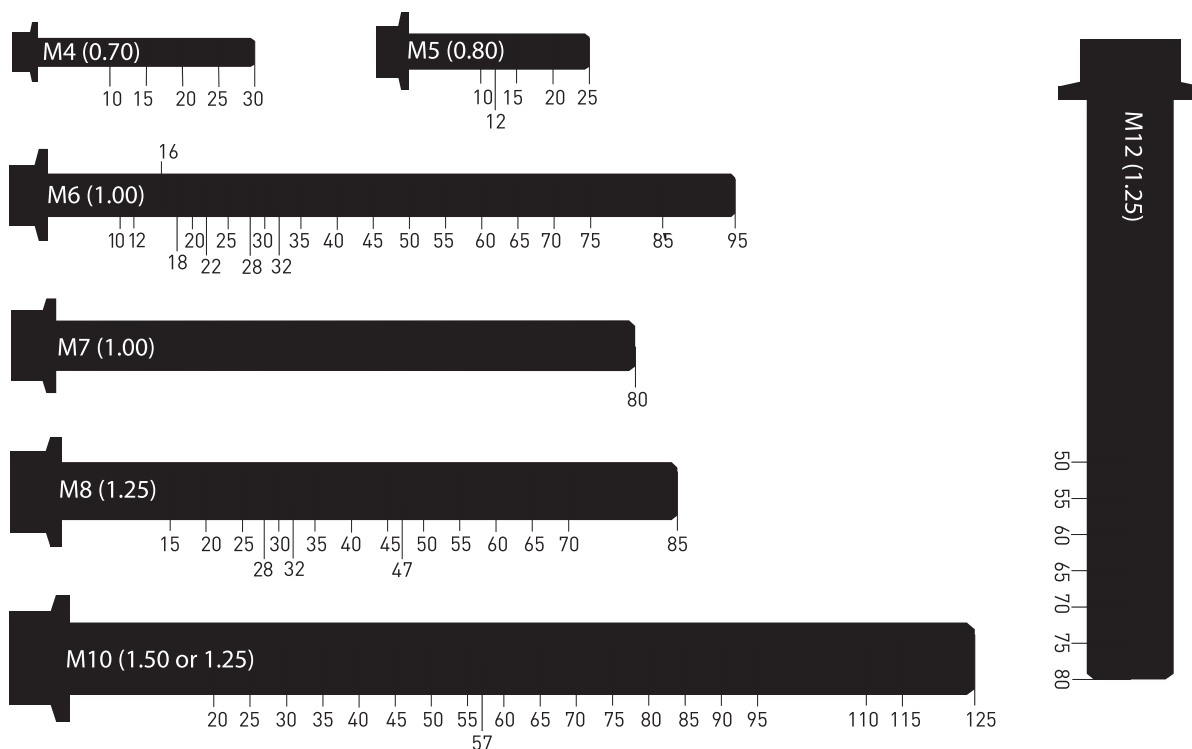
Torque guide for fasteners in general usage

Torque for flanged hex head and tapered socket cap bolts - use torque values specified by your equipment manufacturer. Where possible use the same torque as manufacturer's originals. For fasteners in safety applications on a motorcycle, use your manufacturers torque guide when fitting flanged hex head or tapered socket cap fasteners. For fasteners in other applications you can refer to the table above for lubricated threads.

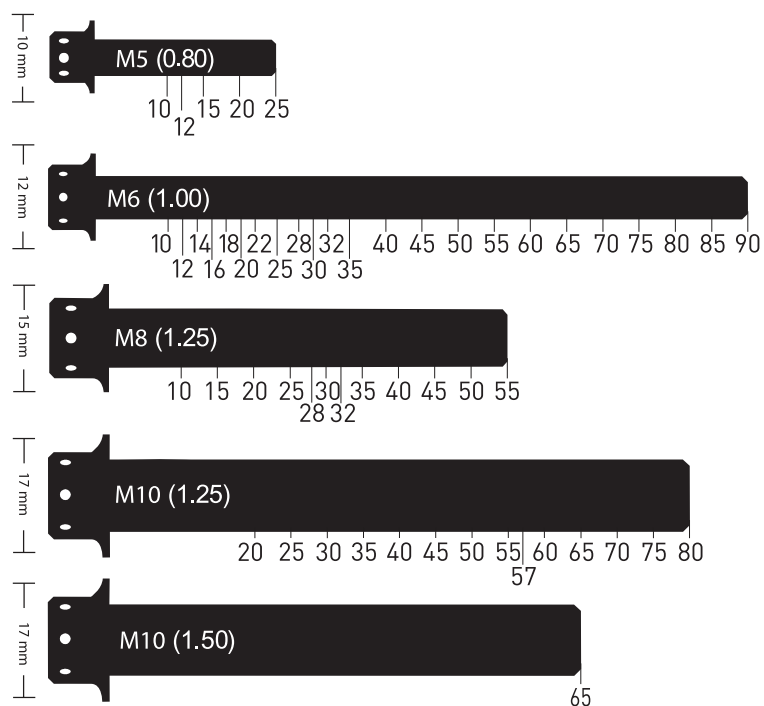


Flanged Hex Head Bolts

(These profiles also apply to Hex-Head Bolts from our DIN/ISO range, but without the captive washer)

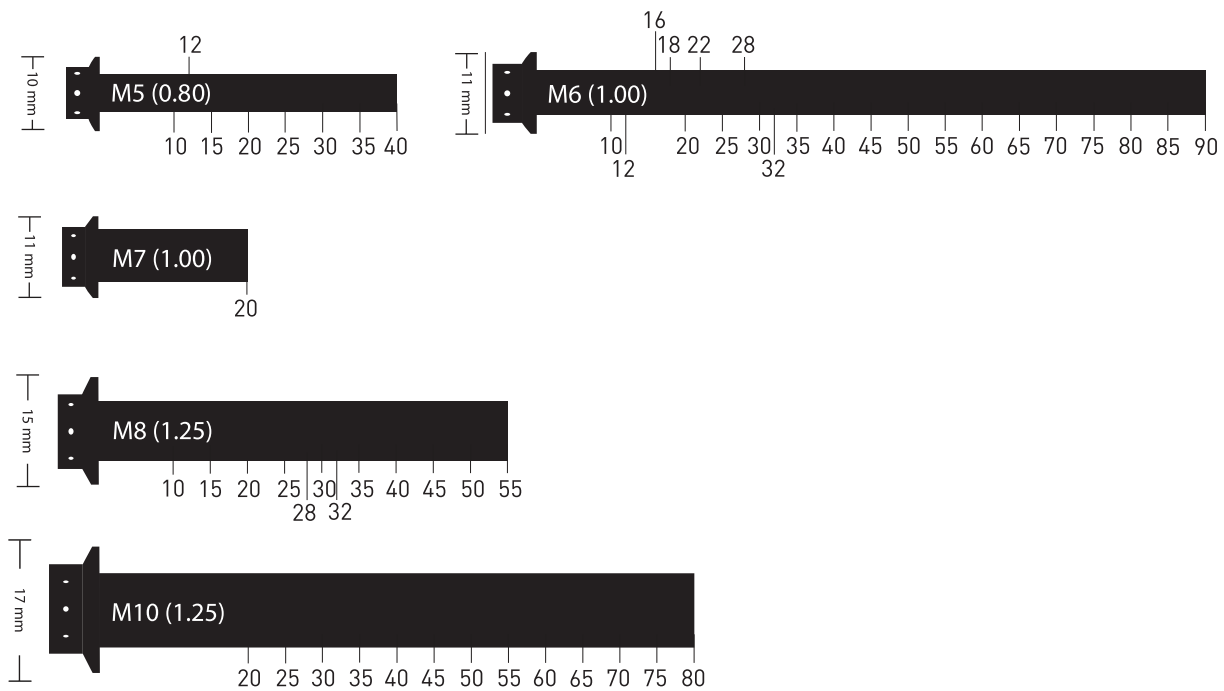


Dual Drive Bolts

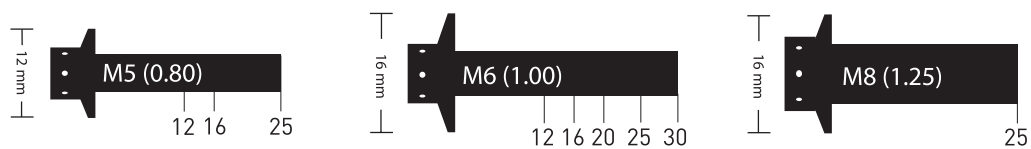


PRODUCT SILHOUETTES

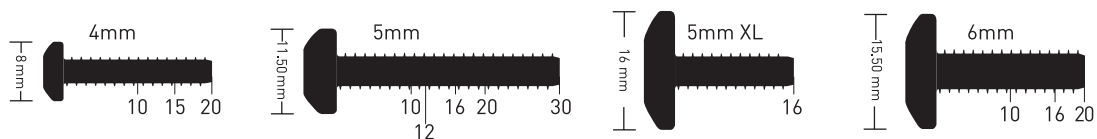
Race Spec Bolts



Race Spec Bodywork Bolts

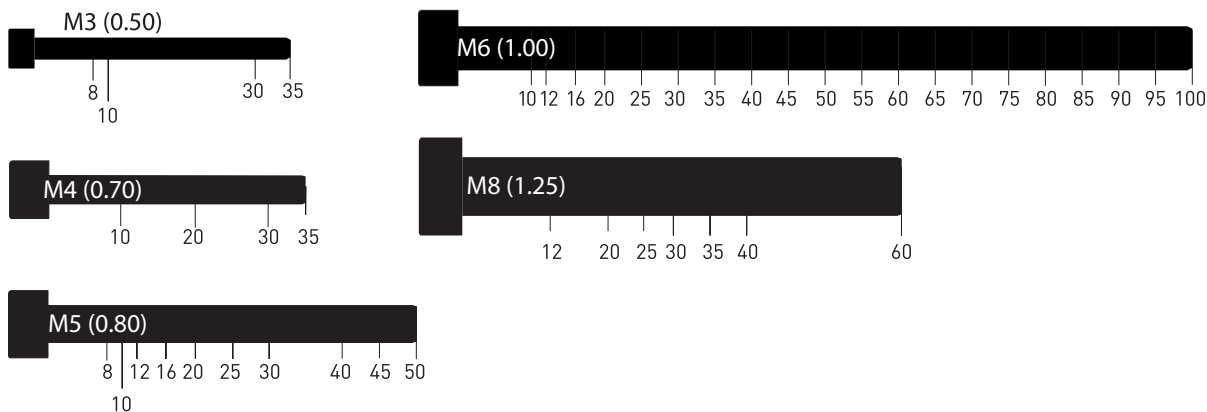


Self Tapping Screw

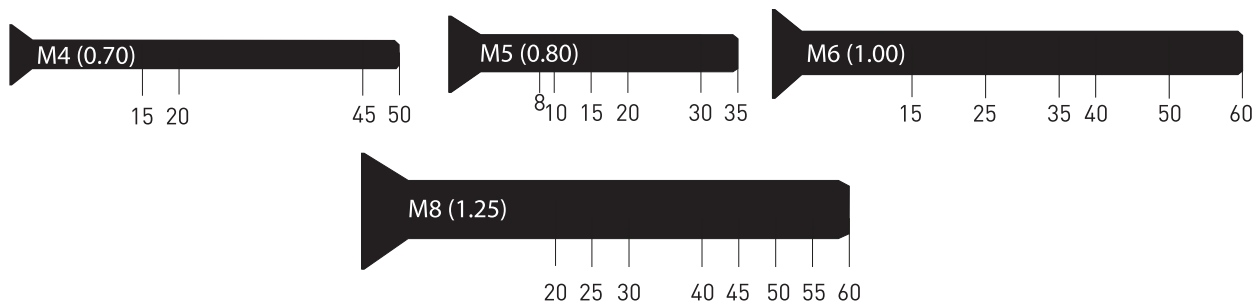


Note: Not all sizes are available in all materials, please refer to relevant material section.

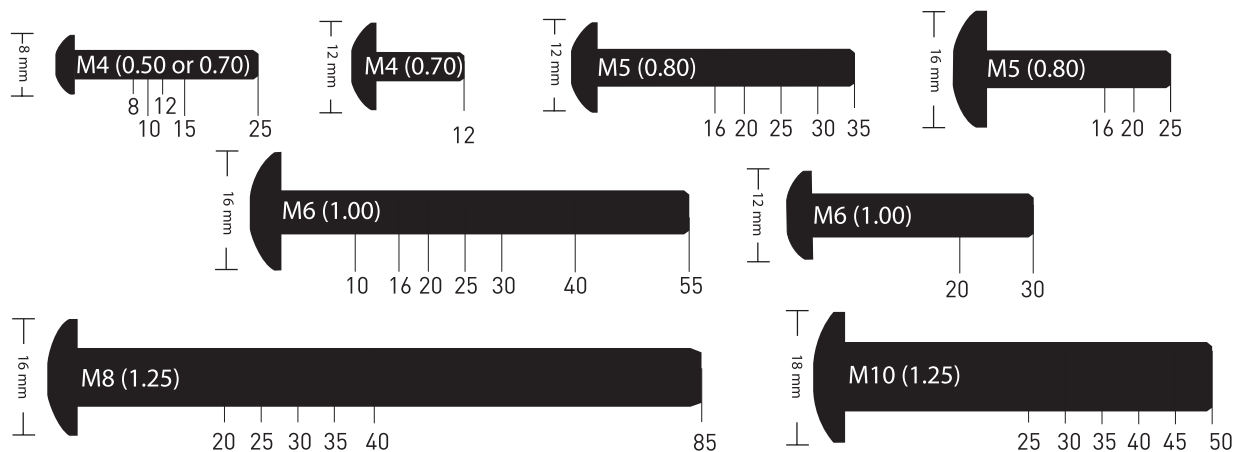
Allen Key Socket Cap Bolts



Countersunk Bolts

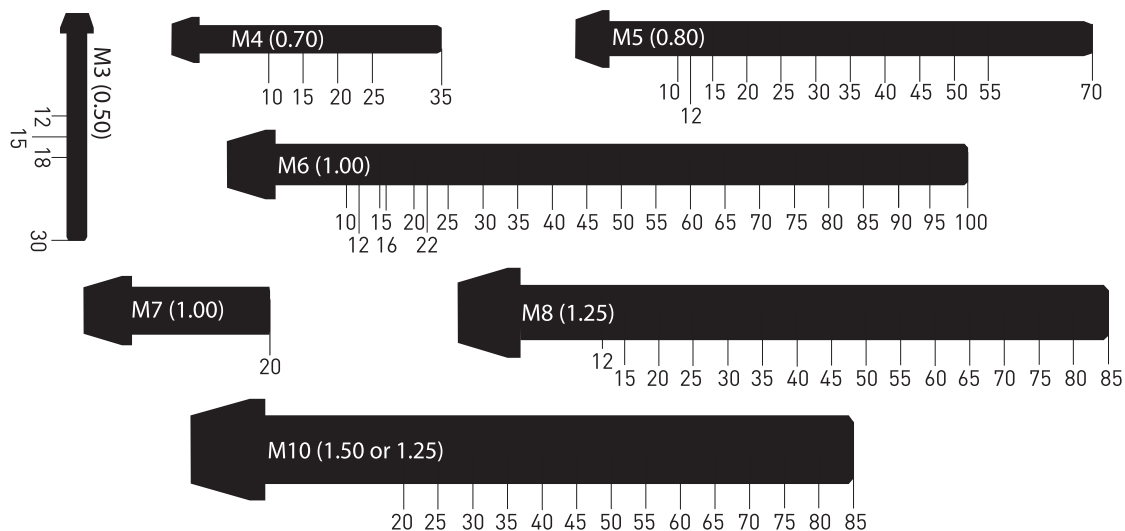


Dome Head/Fairing Bolts



PRODUCT SILHOUETTES

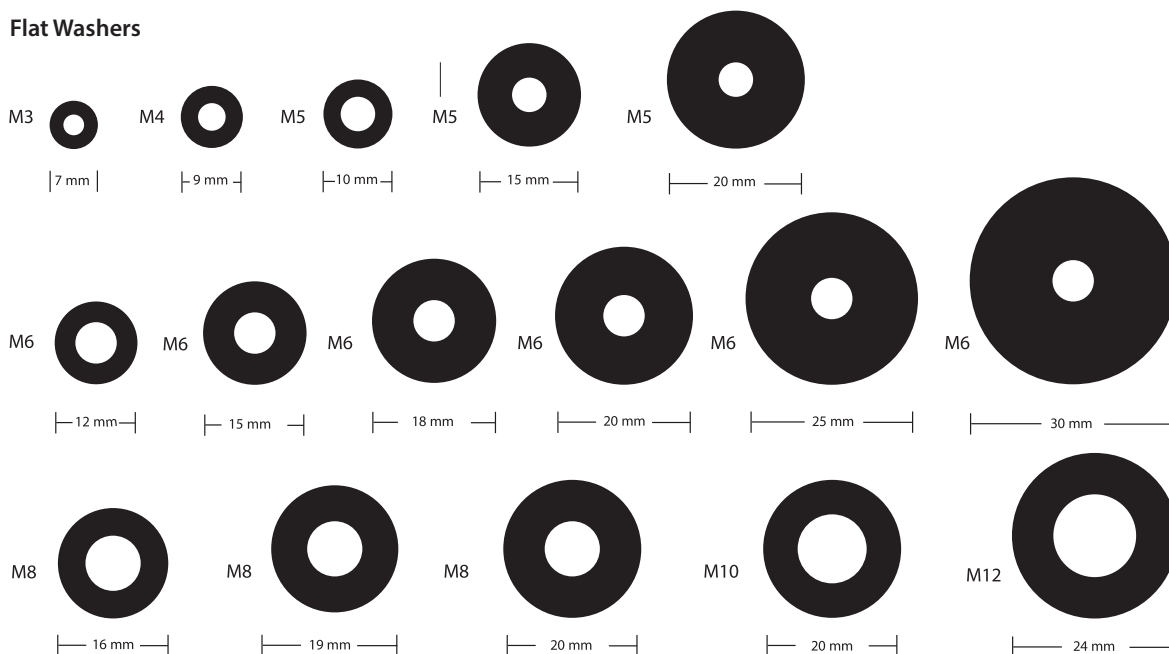
Tapered Socket Cap Bolts



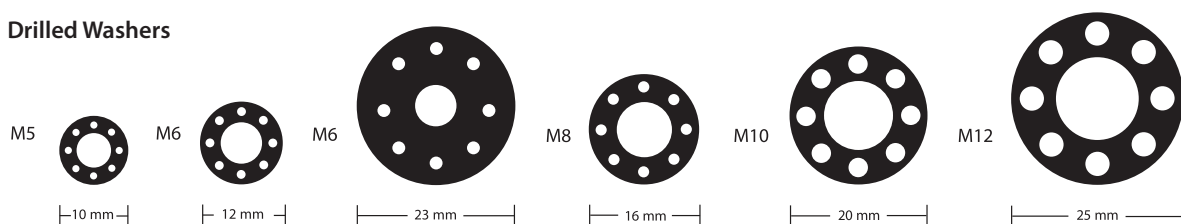
Countersunk Bodywork Washers



Flat Washers



Drilled Washers



ALUMINIUM BOLTS



ALL AVAILABLE IN A CHOICE OF 7 COLOURS:
BLACK • BLUE • GOLD • ORANGE • PURPLE • RED • SILVER

Standard Allen Key Socket Cap Bolts

Part Number	Thread & Pitch	Head Diameter	Allen Key Size	Lengths Available
LPB3**	M3 x (0.50mm)	5.30mm	2.50mm	8mm, 10mm, 30mm, 35mm
LPB4**	M4 x (0.70mm)	6.80mm	3mm	10mm, 20mm, 30mm, 35mm
LPB5**	M5 x (0.80mm)	8.30mm	4mm	8mm, 10mm, 12mm, 16mm, 20mm, 25mm, 30mm, 40mm, 45mm
LPB6**	M6 x (1.00mm)	9.80mm	5mm	10mm, 12mm, 16mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 90mm, 95mm, 100mm
LPB8**	M8 x (1.25mm)	12.80mm	6mm	12mm, 20mm, 25mm, 30mm, 35mm, 40mm, 60mm

Dome Head/Fairing Bolts

Part Number	Thread & Pitch	Head Diameter	Allen Key Size	Length Available
LFB412F	M4 x (0.50mm)	8mm	2.50mm	12mm
LFB4**	M4 x (0.70mm)	8mm	2.50mm	12mm, 25mm
LFB4**XL	M4 x (0.70mm)	12mm	2.50mm	12mm, 15mm
LFB5**	M5 x (0.80mm)	12mm	3mm	7mm, 12mm, 16mm, 20mm, 25mm, 35mm, 16mm, 20mm, 25mm, 30mm
LFB5**XL	M5 x (0.80mm)	16mm	3mm	10mm, 16mm, 20mm, 25mm, 30mm, 35mm, 40mm
LFB6**	M6 x (1.00mm)	16mm	4mm	20mm, 30mm
LFB6**XS	M6 x (1.00mm)	12mm	4mm	25mm, 40mm
LFB8**	M8 x (1.25mm)	16mm	4mm	25mm, 40mm
LFB10**F	M10 x (1.25mm)	17.50mm	6mm	25mm, 45mm

Countersunk Bolts

(Length measured includes the head)

Part Number	Thread & Pitch	Allen Key Size	Lengths Available
LCS4**	M4 x (0.70mm)	2.50mm	15mm, 20mm, 45mm, 50mm
LCS5**	M5 x (0.80mm)	3mm	20mm, 30mm, 35mm
LCS6**	M6 x (1.00mm)	4mm	15mm, 25mm, 35mm
LCS8**	M8 x (1.25mm)	6mm	20mm, 40mm

Self Tapping Screw

Part Number	Thread Diameter	Head Diameter	Allen Key size	Length Available
LSTB4**	4mm	8mm	3mm	10mm, 15mm, 20mm
LSTB5**	5mm	11.50mm	4mm	10mm, 12mm, 16mm, 20mm, 30mm
LSTB516XL	5mm	16mm	4mm	16mm
LSTB6**	6mm	15.50mm	5mm	10mm, 16mm, 20mm

Honda Special Fuel Cap Bolts

Part Number	Thread & Pitch	Head Diameter	Lengths Available
LH4**	(M4 x 0.70mm)	10mm	6.5mm, 20mm

**All length measurements, apart from countersunk bolts, are taken from below the head



PRO-BOLT RANGE - ALUMINIUM

ALUMINIUM BOLTS



ALL AVAILABLE IN A CHOICE OF 7 COLOURS:
BLACK • BLUE • GOLD • ORANGE • PURPLE • RED • SILVER

Race Spec Hex Head Bolts

Machined with Rolled Threads for superior strength. Widely used by racers, enthusiasts and those who like attention to detail. The heads are pre-drilled on the flats for ease of lockwiring and etched with the Pro-Bolt name. Outstanding 62% weight saving over equivalent sized steel bolts.

Part Number	Thread/Pitch	Socket Size	Flange Diameter	Lengths Available
LHX5**RE	M5 x (0.80mm)	7mm	10mm	10mm, 12mm, 16mm, 20mm, 25mm, 30mm, 35mm
LHX6**RE	M6 x (1.00mm)	8mm	12mm	10mm, 12mm, 15mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm
LHX8**RE	M8 x (1.25mm)	10mm	15mm	10mm, 15mm, 15mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm
LHX10**FRE	M10 x (1.25mm)	12mm	17mm	25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm



Race Spec Body Bolts

Our Bodywork Bolt Range in 7075 Aluminium machined with Rolled Threads for superior strength. Perfect for plastics/bodywork where the large diameter will prevent bolts 'pulling through' bodywork. The external hex drive on the head offers enhanced strength. The heads are pre-drilled on the flats for ease of lockwiring. Outstanding 62% weight saving over equivalent sized steel bolts.

Part Number	Thread/Pitch	Socket Size	Flange Diameter	Lengths Available
LBWHX5**RE	M5 x (0.80mm)	7mm	12mm	12mm, 16mm, 25mm
LBWHX6**RE	M6 x (1.00mm)	8mm	16mm	12mm, 16mm, 20mm, 25mm, 30mm
LBWHX8**RE	M8 x (1.25mm)	10mm	16mm	25mm



ALUMINIUM

ALL AVAILABLE IN A CHOICE OF 7 COLOURS:
BLACK • BLUE • GOLD • ORANGE • PURPLE • RED • SILVER

Makes removal of bodywork easy and fast. Supplied individually or in packs and in all materials. Available packs and lengths are listed below – choose from D-Ring, Scalloped Head or Allen Key Drive, all with a superb finish (17mm is the most popular, 14mm is the most common for thinner race fairings). Now supplied with springs to ensure a tight fit for race frings.

Quick Release D-Ring

Part Number	Description
QRCLIP17	17mm Individual D-Ring Quick Release Fastener
QRCLIP19	19mm Individual D-Ring Quick Release Fastener
QRCLIP1017	Packs of 10 - D-Ring 17mm Quick Release Fasteners & Washers
QRCLIP1019	Packs of 10 - D-Ring 19mm Quick Release Fasteners & Washers

Can also be purchased in packs complete with backing clips:

QRPACKRIVET**	Pack of 10 D-Ring Fasteners with Rivet-on Backing Plates and Rivets & Washers
QRPACKSLIDE**	Pack of 10 D-Ring Fasteners with Slide-on Backing Plates & Washers



Quick Release Allen Key Drive

Part Number	Description
QRCLIPAK17	17mm Individual Allen Key Quick Release Fastener
QRCLIPAK19	19mm Individual Allen Key Quick Release Fastener
QRCLIPAK1017	Packs of 10 - Allen Key 17mm Quick Release Fasteners with Washers
QRCLIPAK1019	Packs of 10 - Allen Key 19mm Quick Release Fasteners with Washers

Can also be purchased in packs complete with backing clips:

QRPACKAKRIVET**	Pack of 10 D-Ring Fasteners with Rivet-on Backing Plates, Rivets and Washers
QRPACKAKSLIDE**	Pack of 10 D-Ring Fasteners with Slide-on Backing Plates and Washers



** Required length

PRO-BOLT RANGE - ALUMINIUM

ALUMINIUM NUTS

ALL AVAILABLE IN A CHOICE OF 7 COLOURS:
BLACK • BLUE • GOLD • ORANGE • PURPLE • RED • SILVER

Full Nuts

Part Number	Thread & Pitch	Socket Size	Height
LFN4	M4 x (0.70mm)	7mm	5mm
LFN5	M5 x (0.80mm)	8mm	3.80mm
LFN6	M6 x (1.00mm)	10mm	4.70mm
LFN6LH (Left Hand Thread)	M6 x (1.00mm)	10mm	4.70mm
LFN8	M8 x (1.25mm)	13mm	6.30mm

Nyloc Nuts

Part Number	Thread & Pitch	Socket Size	Height
LNYN3	M3 x (0.70mm)	5.5mm	3.92mm
LNYN4	M4 x (0.70mm)	7mm	5mm
LNYN5	M5 x (0.80mm)	8mm	5mm
LNYN6	M6 x (1.00mm)	10mm	5.80mm
LNYN8	M8 x (1.25mm)	13mm	8mm
LNYN10	M10 x (1.50mm)	17mm	10mm
LNYN10F	M10 x (1.25mm)	13mm	10mm

Dome Nuts

Part Number	Thread & Pitch	Socket Size	Height
LDOMENUT4	M4 x (0.70mm)	7mm	8mm
LDOMENUT5	M5 x (0.80mm)	8mm	10mm
LDOMENUT6	M6 x (1.00mm)	10mm	12mm
LDOMENUT8	M8 x (1.25mm)	13mm	15mm
LDOMENUT10F	M10 x (1.25mm)	17mm	18mm
LDOMENUT10	M10 x (1.50mm)	17mm	18mm



ALUMINIUM WASHERS

ALL AVAILABLE IN A CHOICE OF 7 COLOURS:
BLACK • BLUE • GOLD • ORANGE • PURPLE • RED • SILVER

Flat Washers

Part Number	Inside Diameter	Outside Diameter	Thickness
LWA3	M3	7mm	0.55mm
LWA4	M4	9mm	0.80mm
LWA5	M5	10mm	0.90mm
LWA6	M6	12mm	1.40mm
LWA6-18	M6	18mm	1.40mm
LWA8	M8	16mm	1.50mm
LWA8-20	M8	20mm	1.60mm
LWA10	M10	20mm	1.77mm

Drilled Washers

Part Number	Inside Diameter	Outside Diameter	Thickness
LWAD5	M5	10mm	1.30mm
LWAD6	M6	12mm	1.50mm
LWAD6-23	M6	23mm	1.50mm
LWAD8	M8	16mm	1.90mm
LWAD10	M10	20mm	2.80mm
LWAD12	M12	25mm	3.40mm

Countersunk Bodywork Washers

Part Number	Inside Diameter	Outside Diameter	Thickness
LWAC5	M5	13mm	3.20mm
LWAC6-19	M6	19mm	3.40mm
LWAC6-22	M6	22mm	3.40mm
LWAC8	M8	25mm	5.00mm

Flared Washers

Manufactured to be fitted with a standard socket cap bolt

Part Number	Inside Diameter	Outside Diameter	Thickness
LWAPB625	M6	25mm	7mm
LWAPB826	M8	26mm	10mm



STAINLESS STEEL BOLTS

AVAILABLE IN BLACK, GOLD OR WITH
A HIGH POLISH STAINLESS FINISH

Tapered Socket Cap

Part Number	Thread Diameter/Pitch	Allen Key Drive	Max Head Diameter	Lengths Available
LSSSC5**	M5 x (0.80mm)	4mm	8mm	10mm, 12mm, 15mm, 20mm, 25mm, 30mm
LSSSC6**	M6 x (1.00mm)	5mm	10mm	10mm, 12mm, 15mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm, 90mm, 95mm
LSSSC8**	M8 x (1.25mm)	6mm	12.50mm	15mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm,
LSSSC10**	M10 x (1.50mm)	8mm	16mm	20mm, 25mm
LSSSC10**F	M10 x (1.25mm)	8mm	16mm	20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm



Flanged Hex Head

Part Number	Thread Diameter/Pitch	Socket Size	Max Head Diameter	Lengths Available
LSSHX5**	M5 x (0.80mm)	7mm	10mm	10mm, 12mm, 16mm, 20mm, 25mm, 30mm, 35mm
LSSHX6**	M6 x (1.00mm)	8mm	12mm	10mm, 12mm, 15mm, 20mm, 25mm, 27mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm, 90mm
LSSHX8**	M8 x (1.25mm)	12mm	16mm	15mm, 20mm, 25mm, 28mm, 30mm, 32mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 75mm,
LSSHX10** F	M10 x (1.25mm)	12mm	18mm	20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 52mm, 55mm, 57mm, 60mm, 65mm, 70mm, 75mm, 80mm
LSSHX1065	M10 x (1.25mm)	12mm	17mm	65mm



Race Spec Flanged Hex Head Bolts

Part Number	Thread Diameter/Pitch	Socket Size	Max Head Diameter	Lengths Available
LSSHX5**R	M5 x (0.80mm)	7mm	10mm	10mm
LSSHX6**R	M6 x (1.00mm)	8mm	12mm	10mm, 12mm, 15mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm, 90mm
LSSHX8**R	M8 x (1.25mm)	12mm	16mm	25mm, 30mm, 35mm, 40mm, 45mm
LSSHX10**FR	M10 x (1.25mm)	12mm	17mm	25mm, 30mm, 60mm, 65mm, 70mm, 75mm
LSSHX10**FR	M10 x (1.50mm)	12mm	17mm	25mm, 65mm,



Countersunk Bolts

(Length measured includes the head)

Part Number	Thread Diameter/Pitch	Allen Key Drive	Max Head Diameter	Lengths Available
LSSCS5**	M5 x (0.80mm)	3mm	10mm	15mm, 20mm, 25mm,
LSSCS6**	M6 x (1.00mm)	4mm	12mm	15mm, 20mm, 25mm, 30mm, 35mm, 40mm
LSSCS8**	M8 x (1.25mm)	5mm	15.70mm	30mm, 40mm
LSSCS1265F	M12 x (1.50mm)	8mm	24.00mm	65mm



PRO-BOLT RANGE - STAINLESS STEEL

STAINLESS STEEL

AVAILABLE IN BLACK, GOLD OR WITH
A HIGH POLISH STAINLESS FINISH

Parallel Head Bolts

Part Number	Thread Diameter/Pitch	Allen key size	Max Head Diameter	Lengths Available
LSSPB5**	M5 x (0.80mm)	4mm	8mm	8mm, 10mm, 12mm, 16mm, 20mm, 25mm, 30mm
LSSPB6**	M6 x (1.00mm)	5mm	10mm	10mm, 12mm, 16mm, 20mm
LSSPB8**	M8 x (1.25mm)	6mm	12.50mm	40mm, 45mm, 50mm, 55mm, 60mm
LSSPB1060F	M10 x (1.25mm)	8mm	15mm	60mm

All length measurements are taken from below the head

Dome Head/Fairing Bolts

Part Number	Thread Diameter/Pitch	Allen key size	Max Head Diameter	Lengths Available
LSSFB412F	M4 x (0.50)	2.50mm	8mm	12mm
LSSFB5**	M5 x (0.80)	4mm	12mm	12mm, 16mm, 20mm, 25mm
LSSFB5**XL	M5 x (0.80)	4mm	16mm	16mm, 25mm
LSSFB6**	M6 x (1.00)	5mm	16mm	10mm, 16mm, 20mm, 25mm, 30mm, 35mm, 40mm
LSSFB6**XS	M6 x (1.00)	5mm	12mm	16mm, 20mm, 30mm
LSSFB8**	M8 x (1.25)	5mm	16mm	20mm, 25mm, 30mm, 40mm
LSSFB10**F	M10 x (1.25)	6mm	18mm	25mm, 30mm, 35mm

Quick Release D-Ring

Part Number	Description
LSSQRCLIP14	14mm D-Ring Quick Release Fastener
LSSQRCLIP17	17mm D-Ring Quick Release Fastener
LSSQRCLIP19	19mm D-Ring Quick Release Fastener
SSQRCLIP1017	17mm D-Ring Quick Release Fastener - Pack of 10
SSQRCLIP1417	17mm D-Ring Quick Release Fastener - Pack of 14
SSQRCLIP1019	17mm D-Ring Quick Release Fastener - Pack of 10
SSQRPACKRIVET1017	17mm D-Ring Quick Release Fastener - Pack of 10 - Rivet on Backs & Washers
SSQRPACKRIVET1417	17mm D-Ring Quick Release Fastener - Pack of 14 - Rivet on Backs & Washers
SSQRPACKRIVET1019	19mm D-Ring Quick Release Fastener - Pack of 10 - Rivet on Backs & Washers
SSQRPACKSLIDE1017	17mm D-Ring Quick Release Fastener - Pack of 10 - Slide on Backs & Washers
SSQRPACKSLIDE1417	17mm D-Ring Quick Release Fastener - Pack of 14 - Slide on Backs & Washers
SSQRPACKSLIDE1019	19mm D-Ring Quick Release Fastener - Pack of 10 - Slide on Backs & Washers

Quick Release Allen Key Drive

Part Number	Description
LSSQRCLIPAK14	14mm Allen Key Quick Release Fastener
LSSQRCLIPAK17	17mm Allen Key Quick Release Fastener
LSSQRCLIPAK19	19mm Allen Key Quick Release Fastener
SSQRPACKAKRIVET1017	17mm Allen Key Quick Release Fastener - Pk of 10 - Rivet on Backs & Washers
SSQRPACKAKRIVET1417	17mm Allen Key Quick Release Fastener - Pk of 14 - Rivet on Backs & Washers
SSQRPACKAKRIVET1019	19mm Allen Key Quick Release Fastener - Pk of 10 - Rivet on Backs & Washers
SSQRPACKAKSLIDE1017	17mm Allen Key Quick Release Fastener - Pk of 10 - Slide on Backs & Washers
SSQRPACKAKSLIDE1417	17mm Allen Key Quick Release Fastener - Pk of 14 - Slide on Backs & Washers
SSQRPACKAKSLIDE1019	19mm Allen Key Quick Release Fastener - Pk of 10 - Slide on Backs & Washers



STAINLESS STEEL NUTS

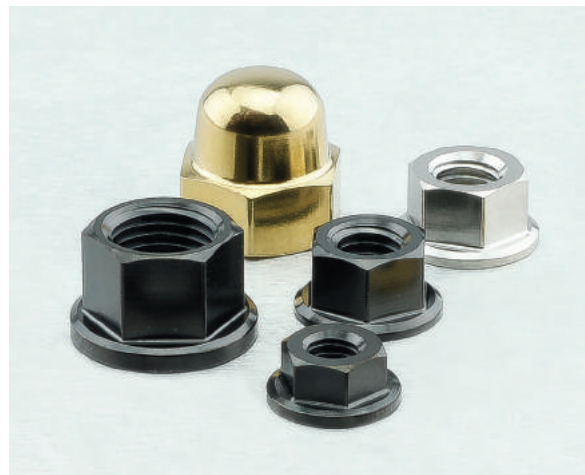
AVAILABLE IN BLACK, GOLD OR WITH
A HIGH POLISH STAINLESS FINISH

Flanged Nuts

Part Number	Thread Diameter/Pitch	Socket Size
LSSFLN5	M5 x (0.80mm)	8mm
LSSFLN6	M6 x (1.00mm)	10mm
LSSFLN8	M8 x (1.25mm)	12mm
LSSFLN10	M10 x (1.50mm)	14mm
LSSFLN10F	M10 x (1.25mm)	14mm
LSSFLN10FF	M10 x (1.00mm)	14mm
LSSFLN12F	M12 x (1.50mm)	15mm
LSSFLN12FF	M12 x (1.25mm)	15mm

Dome Nuts

Part Number	Thread Diameter/Pitch	Socket Size
LSSDOMENUT6	M6 x (1.00mm)	10mm
LSSDOMENUT8	M8 x (1.25mm)	13mm
LSSDOMENUT10F	M10 x (1.25mm)	17mm



STAINLESS STEEL NUTS

AVAILABLE IN NATURAL ONLY WITH
A HIGH POLISH STAINLESS FINISH

Nyloc Nuts

Part Number	Thread Diameter/Pitch	Socket Size
LSSNYN5	M5 x (0.80mm)	8mm
LSSNYN6	M6 x (1.00mm)	10mm
LSSNYN8	M8 x (1.25mm)	13mm
LSSNYN10	M10 x (1.50mm)	17mm
LSSNYN10F	M10 x (1.25mm)	17mm



STAINLESS STEEL WASHERS

AVAILABLE IN BLACK, GOLD OR WITH
A HIGH POLISH STAINLESS FINISH

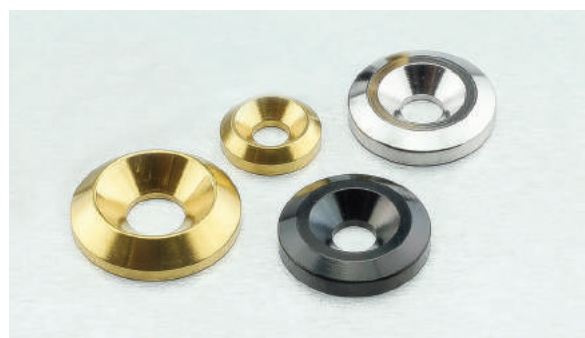
Flat Washers

Part Number	Inside Diameter	Outside Diameter	Thickness
LSSWA6	6mm	12mm	1.60mm
LSSWA6-15	6mm	15mm	1.60mm
LSSWA8	8mm	16mm	1.60mm
LSSWA10	10mm	20mm	1.60mm



Countersunk Washers

Part Number	Size	Outside Diameter	Thickness
LSSWAC5-15	M5	15mm	4mm
LSSWAC6-19	M6	19mm	4.50mm
LSSWAC6-22	M6	22mm	4.50mm
LSSWAC8-25	M8	25mm	5.50mm



PRO-BOLT RANGE - TITANIUM

TITANIUM BOLTS

ALL AVAILABLE IN A CHOICE OF 5 COLOURS:
BLACK • BLUE • GOLD • NATURAL • PURPLE HAZE

Dome Head/Fairing Bolts

Length measurements are taken from **below** the head

Part Number	Thread Diameter/Pitch	Allen Key Drive	Max Head Diameter	Lengths Available
TIFB412F	M4 x (0.50mm)	2.5mm	8mm	12mm
TIFB4**	M4 x (0.70mm)	2.5mm	8mm	10mm, 12mm, 15mm
TIFB5**	M5 x (0.80mm)	3mm	12mm	10mm, 12mm, 16mm, 20mm, 25mm, 30mm, 35mm
TIFB5**XL	M5 x (0.80mm)	4mm	16mm	16mm, 25mm
TIFB6*	M6 x (1.00mm)	5mm	16mm	10mm, 16mm, 20mm, 25mm, 30mm, 35mm, 40mm, 55mm
TIFB6**XS	M6 x (1.00mm)	5mm	12mm	16mm, 20mm, 30mm
TIFB8**	M8 x (1.25mm)	5mm	16mm	20mm, 25mm, 30mm, 35mm, 40mm, 85mm



Countersunk Bolts

Length measurements **include** the head

Part Number	Thread Diameter/Pitch	Allen Key Drive	Max Head Diameter	Lengths Available
TICS4**	M4 X (0.70mm)	2.5mm	8mm	15mm, 20mm
TICS5**	M5 x (0.80mm)	3mm	10mm	8mm, 10mm, 15mm, 20mm, 25mm, 30mm,
TICS6**	M6 x (1.00mm)	4mm	12mm	15mm, 20mm, 25mm, 30mm, 35mm
TICS8**	M8 x (1.25mm)	5mm	16mm	20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 55mm



Tapered Socket Cap

Part Number	Thread Diameter/Pitch	Allen Key Drive	Max Head Diameter	Lengths Available
TISC3**	M3 x (0.50mm)	2.50mm	5.5mm	10mm, 12mm, 15mm, 35mm
TISC4**	M4 x (0.70mm)	3mm	7mm	10mm, 12mm, 15mm, 20mm, 25mm, 30mm, 35mm
TISC5**	M5 x (0.80mm)	4mm	8mm	8mm, 10mm, 12mm, 16mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 70mm
TISC6**	M6 x (1.00mm)	5mm	10mm	8mm, 10mm, 12mm, 15mm, 20mm, 22mm, 25mm, 28mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm, 90mm, 95mm, 100mm
TISC720	M7 x (1.00mm)	5mm	10mm	20mm
TISC8**	M8 x (1.25mm)	6mm	12.50mm	15mm, 20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 80mm, 85mm
TISC10**	M10 x (1.50mm)	8mm	16mm	20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 65mm, 70mm, 80mm
TISC10**F	M10 x (1.25mm)	8mm	16mm	20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm



** Denotes length to be selected
All length measurements are taken from below the head (For every bolts but countersunk.)

TITANIUM BOLTS

ALL AVAILABLE IN A CHOICE OF 5 COLOURS:
BLACK • BLUE • GOLD • NATURAL • PURPLE HAZE

Flanged Hex Head

Part Number	Thread Diameter/Pitch	Socket Size	Flange Diameter	Lengths Available
TIHX4**	M4 x (0.70mm)	6mm	8mm	10mm, 15mm, 25mm, 30mm
TIHX5**	M5 x (0.80mm)	7mm	10mm	10mm, 12mm, 15mm, 20mm, 25mm
TIHX6**	M6 x (1.00mm)	8mm	12mm	10mm, 12mm, 16mm, 18mm, 20mm, 22mm, 25mm, 28mm, 30mm, 32mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm, 90mm,
TIHX780	M7 x (1.00mm)	8mm	13mm	80mm
TIHX8**	M8 x (1.25mm)	12mm	16mm	15mm, 20mm, 25mm, 28mm, 30mm, 32mm, 35mm, 40mm, 45mm, 47mm, 49mm, 50mm, 55mm, 60mm, 65mm, 70mm, 85mm
TIHX10**	M10 x (1.50mm)	12/13mm	18mm	20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm
TIHX10**F	M10 x (1.25mm)	12/13mm	18mm	25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 57mm, 60mm, 65mm, 70mm, 75mm, 80mm, 90mm, 110mm, 115mm
TIHX12**FF	M12 x (1.25mm)	14mm	20mm	50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm

Race Spec Hex Head Bolts

Part Number	Thread Diameter/Pitch	Socket Size	Head Diameter	Lengths Available
TIHX5**R	M5 x (0.80mm)	7mm	10mm	10mm, 12mm, 15mm, 18mm, 20mm, 25mm, 40mm
TIHX6**R	M6 x (1.00mm)	8mm	11mm	10mm, 12mm, 16mm, 18mm, 20mm, 22mm, 25mm, 28mm, 30mm, 32mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm, 90mm
TIHX7**R	M7 x (1.00mm)	8mm	11mm	20mm
TIHX8**R	M8 x (1.25mm)	10mm	15mm	10mm, 15mm, 20mm, 25mm, 28mm, 30mm, 32mm, 35mm, 40mm, 45mm, 50mm, 55mm
TIHX10**FR	M10 x (1.25mm)	12mm	17mm	20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 57mm, 60mm, 65mm, 70mm, 75mm, 80mm
TIHX1065R	M10 x (1.50mm)	12mm	17mm	65mm

** Denotes length to be selected / All length measurements are taken from below the head

Quick Release D-Ring

Part Number	Description
TIQRCLIP17	17mm Titanium Quick Release Stud - D Ring

Quick Release Allen Key Drive

Part Number	Description
TIQRCLIPAK17	17mm Titanium Quick Release Stud - Allen Key



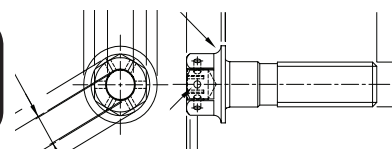
PRO-BOLT RANGE - TITANIUM

TITANIUM BOLTS

ALL AVAILABLE IN A CHOICE OF 5 COLOURS:
BLACK • BLUE • GOLD • NATURAL • PURPLE HAZE

Dual Drive

Part Number	Thread Diameter/Pitch	Head Height	Head Diameter	Socket Size	Allen Key size	Length Available
TIDD5**R	M5 x (0.80mm)	5.50mm	10mm	7mm	4mm	10mm, 12mm, 15mm, 20mm, 25mm
TIDD6**R	M6 x (1.00mm)	5.50mm	12mm	9mm	5mm	10mm, 12mm, 14mm, 16mm, 18mm, 20mm, 22mm, 25mm, 28mm, 30mm, 32mm, 35mm, 40mm, 45mm, 50mm, 55mm, 60mm, 65mm, 70mm, 75mm, 80mm, 85mm, 90mm
TIDD8**R	M8 x (1.25mm)	7.50mm	15mm	11mm	6mm	10mm, 15mm, 20mm, 25mm, 28mm, 30mm, 32mm, 35mm, 40mm, 45mm, 50mm, 55mm
TIDD10**FR	M10 x (1.25mm)	9mm	17mm	12mm	6mm	20mm, 25mm, 30mm, 35mm, 40mm, 45mm, 50mm, 55mm, 57mm, 60mm, 65mm, 70mm, 75mm, 80mm
TIDD10**R	M5 x (1.50mm)	9mm	17mm	12mm	6mm	65mm



Torque Information

Thread Diameter in mm	M5	M6	M8	M10
Max Torque in NM	9	15	45	50

Choice and Flexibility - Designed with an allen key drive, stronger than a standard socket cap bolt, yet maintaining the flexibility to opt for a socket wrench, provide choice and flexibility valued by GP, WSBK & BSB race teams worldwide. The response from race teams to the Pro-Bolt DualDrive™ has been unanimous resulting in its selection as the bolt of choice for many teams since its launch. **Strength by Design** - The DualDrive™ range is forged for superior strength after which the threads are rolled for greater fatigue strength and reduced galling. You can select the appropriate tool, depending on accessibility & torque required.



Fully Threaded/Fairing Bolts

Part Number	Thread Diameter/Pitch	Allen Key Drive	Max Head Diameter	Head Height	Lengths Available
TIFBFT440	M4 x (0.70mm)	2.50mm	8mm	2.50mm	40mm
TIFBFT540	M5 x (0.80mm)	4mm	12mm	3.50mm	40mm
TIFBFT640	M6 x (1.00mm)	4mm	16mm	3.80mm	40mm

Fully Threaded/Countersunk Bolts

Part Number	Thread Diameter/Pitch	Allen Key Drive	Max Head Diameter	Head Height	Lengths Available
TICSFT440	M4 x (0.70mm)	2.50mm	8mm	2mm	40mm
TICSFT540	M5 x (0.80mm)	3mm	10mm	3mm	40mm
TICSFT640	M6 x (1.00mm)	4mm	12mm	3.50mm	40mm

Fully Threaded/Socket Cap Bolts

Part Number	Thread Diameter/Pitch	Allen Key Drive	Max Head Diameter	Head Height	Lengths Available
TISCF440	M4 x (0.70mm)	3mm	7mm	4mm	40mm
TISCF540	M5 x (0.80mm)	4mm	8.50mm	5mm	40mm
TISCF640	M6 x (1.00mm)	5mm	10mm	6mm	40mm



TITANIUM NUTS



ALL AVAILABLE IN A CHOICE OF 5 COLOURS:
BLACK • BLUE • GOLD • NATURAL • PURPLE HAZE

Full Nuts

A

Part No.	Thread Diameter/Pitch	Socket Size
TIFN4	M4 x (0.70mm)	7mm
TIFN5	M5 x (0.80mm)	8mm
TIFN6	M6 x (1.00mm)	10mm
TIFN8	M8 x (1.25mm)	13mm
TIFN10	M10 x (1.50mm)	17mm
TIFN10F	M10 x (1.25mm)	17mm
TIFN12F	M12 x (1.50mm)	18mm

Flanged Nuts

B

Part No.	Thread Diameter/Pitch	Socket Size
TIFLN3	M3 x (0.50mm)	5.50mm
TIFLN4	M4 x (0.70mm)	7mm
TIFLN5	M5 x (0.80mm)	8mm
TIFLN6	M6 x (1.00mm)	10mm
TIFLN8	M8 x (1.25mm)	13mm
TIFLN10	M10 x (1.50mm)	15mm
TIFLN10F	M10 x (1.25mm)	14mm
TIFLN10FF	M10 x (1.00mm)	14mm
TIFLN12	M12 x (1.75mm)	18mm
TIFLN12F	M12 x (1.50mm)	17mm
TIFLN12FF	M12 x (1.25mm)	17mm

Nyloc Nuts

C

Part No.	Thread Diameter/Pitch	Socket Size
TINYN3	M3 x (0.50mm)	5.50mm
TINYN4	M4 x (0.70mm)	7mm
TINYN5	M5 x (0.80mm)	8mm
TINYN6	M6 x (1.00mm)	10mm
TINYN8	M8 x (1.25mm)	13mm
TINYN10	M10 x (1.50mm)	16mm
TINYN10F	M10 x (1.25mm)	16mm
TINYN12	M12 x (1.75mm)	20mm
TINYN12F	M12 x (1.50mm)	20mm

Flanged Nyloc Nuts

D

Part No.	Thread Diameter/Pitch	Socket Size
TINYNFL3	M3 x (0.50mm)	5.5mm
TINYNFL4	M4 x (0.70mm)	7mm
TINYNFL5	M5 x (0.80mm)	8mm
TINYNFL6	M6 x (1.00mm)	10mm
TINYNFL8F	M8 x (1.00mm)	13mm
TINYNFL10	M10 x (1.50mm)	15mm
TINYNFL10F	M10 x (1.25mm)	15mm
TINYNFL12	M12 x (1.75mm)	18mm
TINYNFL12F	M12 x (1.50mm)	18mm
TINYNFL12FF	M12 x (1.25mm)	18mm



Flanged Bi-Hex Plastic Nyloc Nuts

E

Part Number	Thread Diameter/Pitch	Socket Size
TINYNFLBH6	M6 x (1.00mm)	11mm
TINYNFLBH8	M8 x (1.25mm)	13mm
TINYNFLBH10	M10 x (1.50mm)	15mm
TINYNFLBH10F	M10 x (1.25mm)	15mm
TINYNFLBH10FF	M10 x (1.00mm)	15mm

Flanged Metal Lock Nuts

F

Part Number	Thread Diameter/Pitch	Socket Size
TILOCKNUT3	M3 x (0.50mm)	5.50mm
TILOCKNUT4	M4 x (0.70mm)	7mm
TILOCKNUT5	M5 x (0.80mm)	8mm
TILOCKNUT6	M6 x (1.00mm)	10mm
TILOCKNUT8	M8 x (1.25mm)	12mm
TILOCKNUT10	M10 x (1.50mm)	14mm
TILOCKNUT10F	M10 x (1.25mm)	14mm

Bi-Hex Metal Lock Nuts

G

Part Number	Thread Diameter/Pitch	Socket Size
TILOCKNUTBH6	M6 x (1.00mm)	11mm
TILOCKNUTBH8	M8 x (1.25mm)	13mm
TILOCKNUTBH10	M10 x (1.50mm)	15mm
TILOCKNUTBH10F	M10 x (1.25mm)	15mm

PRO-BOLT RANGE - TITANIUM

TITANIUM WASHERS

ALL AVAILABLE IN A CHOICE OF 5 COLOURS:
BLACK • BLUE • GOLD • NATURAL • PURPLE HAZE

Flat Washers

Part Number	Inner Diameter	Outside Diameter	Thickness
TIWA3	M3	7mm	0.60mm
TIWA4	M4	9mm	0.70mm
TIWA5	M5	10mm	1.00mm
TIWA6	M6	12mm	1.50mm
TIWA8	M8	16mm	1.60mm
TIWA10	M10	20mm	1.70mm
TIWA12	M12	24mm	2.60mm



Penny Washers

Part Number	Inner Diameter	Outside Diameter	Thickness
TIWA5-15	M5	15mm	1.00mm
TIWA5-20	M5	20mm	1.10mm
TIWA6-15	M6	15mm	1.50mm
TIWA6-20	M6	20mm	1.50mm
TIWA6-25	M6	25mm	1.80mm
TIWA6-30	M6	30mm	1.60mm



Countersunk Washers

Part Number	Inner Diameter	Outside Diameter	Thickness
TIWAC6-22	M6	22mm	4.50mm



Drilled Washers

Part Number	Inner Diameter	Outside Diameter	Thickness
TIWAD5	M5	10mm	1.00mm
TIWAD6	M6	12mm	1.50mm
TIWAD8	M8	16mm	1.60mm
TIWAD10	M10	20mm	1.70mm
TIWAD12	M12	24mm	2.50mm



Aluminium Threaded Collars/Spacers

Part Number	Description
LCOLLAR5-7-3U	5mm Threaded Collar - 7.5mm o/d - 3mm in Length
LCOLLAR5-7-5U	5mm Threaded Collar - 7.5mm o/d - 5mm in Length
LCOLLAR5-7-10U	5mm Threaded Collar - 7.5mm o/d - 10mm in Length
LCOLLAR6-8-3U	6mm Threaded Collar - 8mm o/d - 3mm in Length
LCOLLAR6-8-5U	6mm Threaded Collar - 8mm o/d - 5mm in Length
LCOLLAR6-8-10U	6mm Threaded Collar - 8mm o/d - 10mm in Length
LCOLLAR6-10-3U	6mm Threaded Collar - 10mm o/d - 3mm in Length
LCOLLAR6-10-6U	6mm Threaded Collar - 10.5mm o/d - 6mm in Length
LCOLLAR8-10-5U	8mm Threaded Collar - 10mm o/d - 5mm in Length



Steel Washers

Part Number	Description
LWASQR	Steel 'Grippa' Washers for M6 Quick Release Studs

Copper Washers

Part Number	Description
LWCOP10	M10 x 13.5mm o/d
LWCOP14-19	M14 x 19mm o/d



Plastic Anti Scratch Washers

Part Number	Description
LWAN4	M4 Fairing Plastic Washer
LWAN5	M5 Fairing Plastic Washer
LWAN6	M6 Fairing Plastic Washer
LWAN8	M8 Fairing Plastic Washer
LWACR6	M6 Countersunk Washer
LWACR8	M8 Countersunk Washer
LWASITEM	Washer for Suzuki Cam Cover Bolt

Quick Release Spring/Cup Washers

Part Number	Description
LWARQR	Flat Plastic Washer for Quick Release Stud
LWASQR	Steel 'Grippa' Washer for Quick Release Fastener

Plastic Tubing/Spacing Collars

Part Number	Description
TUB5	M5 Spacer/Tubing
TUB6	M6 Spacer/Tubing



ANCILLARY ITEMS

Backing Plates & Receptacles

Part Number	Description
CLIP1	M6 Chimney Nut / Slip On
CLIP2	M5 Chimney Nut / Slip On - 14mm width
CLIP3	Receptacle for Quick Release - Slide On
CLIP4	M8 Chimney Nut / Slip On
CLIP5	M5 Chimney Nut / Slip On - 12mm width
CLIP6	Receptacle for Quick Release - Rivet On
CLIP7	M5 Chimney Nut / Weld On
CLIP8	M6 Chimney Nut / Weld On
CLIP9	Race Fairing S Clip
CLIP20	Race Fairing S Clip - Pack of 20
LRIVET3.2-6	Blind rivet 3.2mm diameter x 6mm length
LWARQR	Plastic Washer for Quick Release Stud
LWASQR	Steel Grippa Washer for M6 Quick Release Stud

Allen Keys

Part Number	Description
AK1.5	1.5mm Allen Key
AK2	2mm Allen Key
AK2.5	2.5mm Allen key
AK3	3mm Allen Key
AK4	4mm Allen Key
AK5	5mm Allen Key
AK6	6mm Allen Key

Lockwire

For use with both our Race Spec and DualDrive range of fasteners, we offer 302 grade stainless steel lockwire supplied by the roll or the meter.

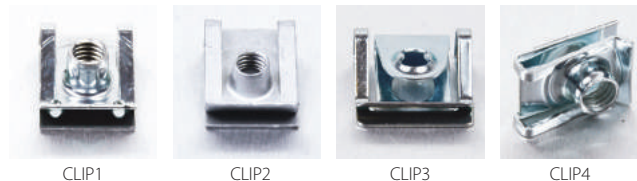
Part Number	Description
LOCKWIRE.51	0.51mm Diameter x 1 Meter Length
LOCKWIRE.51ROLL	0.51mm Diameter x 1 Roll 0.45 kilos
LOCKWIRE.61	0.61mm Diameter - 1 Meter Length
LOCKWIRE.61ROLL	0.61mm Diameter - 1 Roll 0.45 kilos

Rubber Well Nuts

Part Number	Description
LRNUT4F	M4 (0.5mm - Fine Pitch) Ducati Rubber Nut
LRN5	M5 Rubber Nut - 13mm Length
LRN6	M6 Rubber Nut - 15mm Length
LRN6-25	M6 Rubber Nut - 25mm Length
LRN8	M8 Rubber Nut - 28mm Length

Copper Grease

Prevent galling when fitting titanium fasteners using copper grease supplied in a 5ml sachet.



CLIP1

CLIP2

CLIP3

CLIP4



CLIP5

CLIP6

CLIP7

CLIP8



LRNUT4F

LRN5

LRN6

LRN6-25

LRN8



Nylon Pry and Push Rivets

Part Number	Description
PBPRYRIV7	NYLON BLACK PRY RIVET M7
PBPRYRIV8	NYLON BLACK PRY RIVET M8
PBPUSHRIV6	NYLON BLACK PUSH RIVET M6
PBPUSHRIV7	NYLON BLACK PUSH RIVET M7
PBPUSHRIV8	NYLON BLACK PUSH RIVET M8
PBSCREWIV6	NYLON BLACK SCREW RIVET M6





PRO-BOLT WORLDWIDE

Pro-Bolt have a worldwide distribution network and a network of websites serving customers. Our websites enable customers to discuss and enquire about our products with a local representative, and see pricing in their local language and currency.

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In addition to our Global Websites we also have a network of stockists in the UK
see our website for details: <http://www.pro-bolt.com/stockists>

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