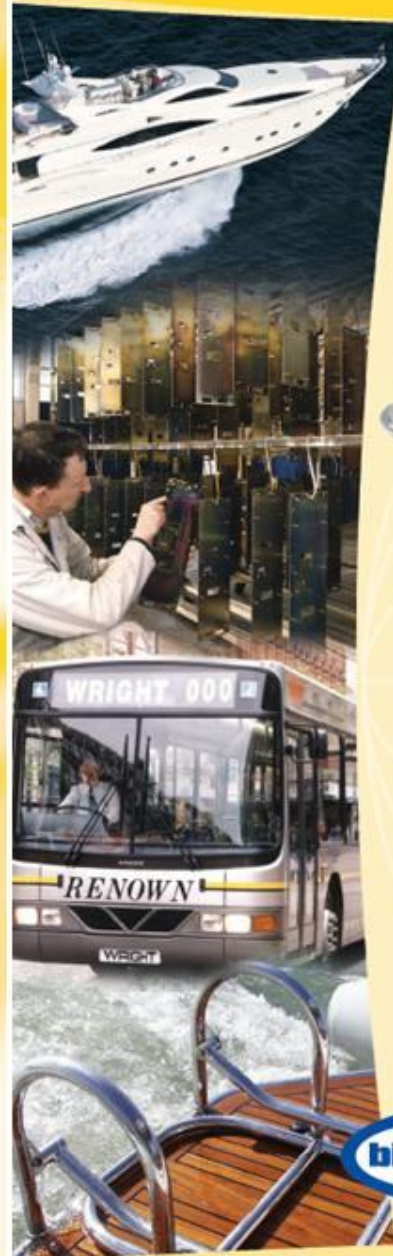


The BigHead Bonding Fastener System:

## Standard Product Range



The world's most versatile fastening system



## The world's most versatile fastening system

BigHeads were originally designed for the plastics moulding industry. Their unique perforated design allows plastics, composites or adhesives to flow through their mild steel or 316S11 stainless steel heads during the moulding process. This locks them into virtually any plastic product and efficiently spreads the applied dynamic loads over the widest possible area. BigHeads can also be surface-mounted on to metal, wood, glass, brick, composites or laminates – using modern adhesives or rivets, screws or spotwelds. No expensive drilling, filling or "making good" is needed, and labour costs are reduced to a minimum. And now, with the introduction of **BIGBOND**, our own range of specially-formulated bonding adhesives, the BigHead "toolbox" is complete.



### Understanding the BigHead part number

There are 2 types of BigHead fasteners – male and female. The first letter in the BigHead part number is either **M** (male) or **F** (female). A typical part number, **M1/B38-M6x25**, is a male fastener with a 38mm dia. head, with an M6 threadform stud 25mm long.

For female versions, heads are either **B** - or **S** - **B** is **Blind**, as there is no central hole; **S** is **Sighted**, with a central hole. The part number **F2/B38-M6x12** is a female fastener with a 38mm dia. blind head, and an M6 internally-threaded collar 12mm long. The same fastener with a central hole would be **F2/S38-M6x12**. The part number **F1/B38-M6** is again a female fastener incorporating an M6 hex nut.

For stainless steel versions, each part number starts with **316** (we always use **316S11** marine grade stainless steel). A **316-M1/B32-M6x12** is a stainless male fastener with 32mm square head, and an M6 stud 12mm long. A **316-F2/S32-M6x10** is a female stainless fastener with central hole and a 10mm M6 collar.

When ordering BigHead fasteners, check the relevant part number in our new Price List – they're listed in exactly the same order as in these pages. If you haven't got a current copy, call 01202 574601 and we'll post one straight away, or email [info@bighead.co.uk](mailto:info@bighead.co.uk). For more information on our huge range of specials, or for free samples of prototypes, please visit our website at [www.bighead.co.uk](http://www.bighead.co.uk)

*If you have a special requirement of any kind, or want us to design and quote you for any variation on the BigHead 'theme', we'll be happy to help - free of charge.*





**F1/B or S20**  
 Max torque load: 2.0-8.4 NM  
 Tensile strength: n/a  
 Stud/collar length: n/a  
 Thread size range: M5-M8



**316-F1/B or S20**  
 Max torque load: 4.3-17.7 NM  
 Tensile strength: n/a  
 Stud/collar length: n/a  
 Thread size range: M5-M8



**F1/B or S23**  
 Max torque load: 2.0-8.4 NM  
 Tensile strength: 2.4-6.4 KN  
 Stud/collar length: n/a  
 Thread size range: M5-M10



**316-F1/B or S23**  
 Max torque load: 4.3-17.7 NM  
 Tensile strength: 3.2-5.4 KN  
 Stud/collar length: n/a  
 Thread size range: M5-M10



**F1/B or S30**  
 Max torque load: 2.0-17.0 NM  
 Tensile strength: n/a  
 Stud/collar length: n/a  
 Thread size range: M5-M10



**316-F1/B or S30**  
 Max torque load: 4.3-35.5 NM  
 Tensile strength: n/a  
 Stud/collar length: n/a  
 Thread size range: M5-M10



**F1/B or S32**  
 Max torque load: 2.0-17.0 NM  
 Tensile strength: n/a  
 Stud/collar length: n/a  
 Thread size range: M5-M10



**316-F1/B or S32**  
 Max torque load: 4.3-35.5 NM  
 Tensile strength: 4.0-7.8 KN  
 Stud/collar length: n/a  
 Thread size range: M5-M10



**F1/B or S38**  
 Max torque load: 2.0-29.0 NM  
 Tensile strength: 5.0-7.8 KN  
 Stud/collar length: n/a  
 Thread size range: M5-M12



**316-F1/B or S38**  
 Max torque load: 4.3-61.3 NM  
 Tensile strength: n/a  
 Stud/collar length: n/a  
 Thread size range: M5-M12



**F1/B or S50**  
 Max torque load: 2.0-29.0 NM  
 Tensile strength: 9.2 KN  
 Stud/collar length: n/a  
 Thread size range: M5-M12



**316-F1/B or S50**  
 Max torque load: 4.3-61.3 NM  
 Tensile strength: n/a  
 Stud/collar length: n/a  
 Thread size range: M5-M12



**F1/B or S58**  
 Max torque load: 2.0-29.0 NM  
 Tensile strength: 9.3-12.8 KN  
 Stud/collar length: n/a  
 Thread size range: M5-M12



**316-F1/B or S58**  
 Max torque load: 4.3-61.3 NM  
 Tensile strength: n/a  
 Stud/collar length: n/a  
 Thread size range: M5-M12



**F1/T or ST38**  
 Max torque load: 2.0-17.0 NM  
 Tensile strength: 4.9-5.1 KN  
 Stud/collar length: n/a  
 Thread size range: M5-M10



**316-F1/T or ST38**  
 Max torque load: 4.3-35.5 NM  
 Tensile strength: 3.3-6.2 KN  
 Stud/collar length: n/a  
 Thread size range: M5-M10



**F2/B15**  
 Max torque load: 1.0-3.5 NM  
 Tensile strength: n/a  
 Stud/collar length: 10-22mm  
 Thread size range: M4-M6



**316-F2/B15**  
 Max torque load: 2.2-7.3 NM  
 Tensile strength: n/a  
 Stud/collar length: 10-22mm  
 Thread size range: M4-M6



Studs, pins, nails, all can be welded to any of the standard BigHead sizes to provide a unique solution for your fastening problem. We make them all either in mild or stainless steel. All mild steel versions now have a new non-chromium version to conform to EU regulations. Call us for further details.



**F2/B or S20**  
 Max torque load: 2.0-8.4 NM  
 Tensile strength: 2.9 KN  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M8



**316-F2/B or S20**  
 Max torque load: 4.3-17.7 NM  
 Tensile strength: 2.9 KN  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M8



**F2/B or S23**  
 Max torque load: 1.02-17.0 NM  
 Tensile strength: 4.0 KN  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**316-F2/B or S23**  
 Max torque load: 2.2-35.5 NM  
 Tensile strength: n/a  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**F2/B or S30**  
 Max torque load: 1.02-17.0 NM  
 Tensile strength: n/a  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**316-F2/B or S30**  
 Max torque load: 2.2-35.5 NM  
 Tensile strength: n/a  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**F2/B or S32**  
 Max torque load: 1.02-17.0 NM  
 Tensile strength: n/a  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**316-F2/B or S32**  
 Max torque load: 2.2-35.5 NM  
 Tensile strength: n/a  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**F2/B or S38**  
 Max torque load: 1.02-17.0 NM  
 Tensile strength: 4.4-6.1 KN  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**316-F2/B or S38**  
 Max torque load: 2.2-35.5 NM  
 Tensile strength: 5.2-5.8 KN  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**F2/B or S50**  
 Max torque load: 3.5-17.0 NM  
 Tensile strength: 4.4-6.1 KN  
 Stud/collar length: 5-22mm  
 Thread size range: M6-M10



**316-F1/B or S50**  
 Max torque load: 7.3-35.5 NM  
 Tensile strength: 5.2-5.8 KN  
 Stud/collar length: 5-22mm  
 Thread size range: M6-M10



**F2/B or S58**  
 Max torque load: 3.5-17.0 NM  
 Tensile strength: n/a  
 Stud/collar length: 10-22mm  
 Thread size range: M6-M10



**316-F2/B or S58**  
 Max torque load: 7.3-35.5 NM  
 Tensile strength: n/a  
 Stud/collar length: 10-22mm  
 Thread size range: M6-M10



**F2/T or ST38**  
 Max torque load: 1.02-17.0 NM  
 Tensile strength: 2.8-3.6 KN  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**316-F2/T or ST38**  
 Max torque load: 2.2-35.5 NM  
 Tensile strength: 5.3-5.8 KN  
 Stud/collar length: 5-22mm  
 Thread size range: M4-M10



**M1/B15**  
 Max torque load: 1.02-3.5 NM  
 Tensile strength: 2.8-3.5 KN  
 Stud/collar length: 12-50mm  
 Thread size range: M4-M6



**316-M1/B15**  
 Max torque load: 2.2-7.3 NM  
 Tensile strength: 5.2 KN  
 Stud/collar length: 12-50mm  
 Thread size range: M4-M6



All stainless steel BigHead fasteners are now finished as standard with a special clear passivate, to ensure that all welded joints maintain full corrosion resistance.

**BigHead**

**M1/B20**

Max torque load: 1.2-8.4Nm  
Tensile strength: 3.1-3.8kN  
Stud collar length: 12-50mm  
Thread size range: M4-M8

**316-M1/B20**

Max torque load: 2.2-17.7Nm  
Tensile strength: n/a  
Stud collar length: 12-50mm  
Thread size range: M4-M8

**M1/B23**

Max torque load: 1.02-17.0Nm  
Tensile strength: 3.1-4.1kN  
Stud collar length: 12-5mm  
Thread size range: M4-M10

**316-M1/B23**

Max torque load: 2.2-35.5Nm  
Tensile strength: 5.8-7.4kN  
Stud collar length: 12-50mm  
Thread size range: M4-M10

**M1/B30**

Max torque load: 1.02-17.0Nm  
Tensile strength: 5.2-5.7kN  
Stud collar length: 12-50mm  
Thread size range: M4-M10

**316-M1/B30**

Max torque load: 2.2-35.5Nm  
Tensile strength: 5.8-10.6kN  
Stud collar length: 12-50mm  
Thread size range: M4-M10

**M1/B32**

Max torque load: 1.02-17.0Nm  
Tensile strength: n/a  
Stud collar length: 12-50mm  
Thread size range: M4-M10

**316-M1/B32**

Max torque load: 2.2-35.5Nm  
Tensile strength: 5.8-10.6kN  
Stud collar length: 12-50mm  
Thread size range: M4-M10

**M1/B38**

Max torque load: 1.02-17.0Nm  
Tensile strength: 3.1-5.9kN  
Stud collar length: 12-50mm  
Thread size range: M4-M10

**316-M1/B38**

Max torque load: 2.2-35.5Nm  
Tensile strength: n/a  
Stud collar length: 12-50mm  
Thread size range: M4-M10

**M1/B50**

Max torque load: 3.5-17.0Nm  
Tensile strength: 5.9-9.2kN  
Stud collar length: 12-50mm  
Thread size range: M6-M10

**316-M1/B50**

Max torque load: 7.3-35.5Nm  
Tensile strength: 7.4-10.6kN  
Stud collar length: 12-50mm  
Thread size range: M6-M10

**M1/B58**

Max torque load: 3.5-17.0Nm  
Tensile strength: 5.9-9.2kN  
Stud collar length: 15-50mm  
Thread size range: M6-M12

**316-M1/B58**

Max torque load: 7.3-35.5Nm  
Tensile strength: 7.4-10.6kN  
Stud collar length: 15-50mm  
Thread size range: M6-M12

**M1/T38**

Max torque load: 1.02-17.0Nm  
Tensile strength: 3.1-7.4kN  
Stud collar length: 12-50mm  
Thread size range: M4-M10

**316-M1/T38**

Max torque load: 2.2-35.5Nm  
Tensile strength: 5.2-7.4kN  
Stud collar length: 12-50mm  
Thread size range: M4-M10

**M1/T40**

Max torque load: 1.02-3.5Nm  
Tensile strength: 3.1-5.2kN  
Stud collar length: 12-40mm  
Thread size range: M4-M6

**316-M1/T40**

Max torque load: 2.2-7.3Nm  
Tensile strength: n/a  
Stud collar length: 12-40mm  
Thread size range: M4-M6

**M4/B15**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**316-M4/B15**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**M4/B20**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**316-M4/B20**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**M4/B23**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**316-M4/B23**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**M4/B30**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**316-M4/B30**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**M4/B32**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**316-M4/B32**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**M4/B38**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**316-M4/B38**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**M4/B50**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**316-M4/B50**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**M4/B58**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**316-M4/B58**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**M4/B50**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**316-M4/B50**

Max torque load: n/a  
Tensile strength: n/a  
Stud collar length: 12-50mm  
No thread, dia: 4.75mm

**M5/B15**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**316-M5/B15**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

These pages show our standard BigHead product range. We can, however, tailor any of these versions to your own requirement, just send us a drawing or rough sketch and we'll make and supply prototype quantities as quickly as possible - **completely free of charge**



**316-M5/B20**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**316-M5/B20**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**M5/B23**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**316-M5/B23**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**M5/B30**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**316-M5/B30**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**M5/B32**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**316-M5/B32**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**M5/B38**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**316-M5/B38**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**M5/T38**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**316-M5/T38**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-100mm  
Nail Diameter: 3mm

**M5/B58LW**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-150mm  
Nail Diameter: 3mm

**316-M5/B58LW**

Max torque load: n/a  
Tensile strength: n/a  
Nail length: 25-150mm  
Nail Diameter: 3mm

**M6-12x38 HOOK**

Max torque load: n/a  
Tensile strength: n/a  
Studcollar lengths: 12x38mm  
Unthreaded dia: 4.75mm

**316-M6-12x38 HOOK**

Max torque load: n/a  
Tensile strength: n/a  
Studcollar lengths: 12x38mm  
Unthreaded dia: 4.75mm

**M6-25x25 HOOK**

Max torque load: n/a  
Tensile strength: n/a  
Studcollar lengths: 25x25mm  
Unthreaded dia: 4.75mm

**316-M6-25x25 HOOK**

Max torque load: n/a  
Tensile strength: n/a  
Studcollar lengths: 25x25mm  
Unthreaded dia: 4.75mm

**M7-45°x19mm LOOP**

Max torque load: n/a  
Tensile strength: n/a  
Loop size: 19mm  
Loop wire dia: 4.75mm

**316-M7-45°x19mm LOOP**

Max torque load: n/a  
Tensile strength: n/a  
Loop size: 19mm  
Loop wire dia: 4.75mm

**M7-45° LOOP**

Max torque load: n/a  
Tensile strength: n/a  
Loop radius: 11mm  
Loop wire dia: 4.75mm

**316-M7-45° LOOP**

Max torque load: n/a  
Tensile strength: n/a  
Loop radius: 11mm  
Loop wire dia: 4.75mm

**M8-90° LOOP**

Max torque load: n/a  
Tensile strength: n/a  
Loop radius: 11mm  
Loop wire dia: 4.75mm

**316-M8-90° LOOP**

Max torque load: n/a  
Tensile strength: n/a  
Loop radius: 11mm  
Loop wire dia: 4.75mm

**BL1 - BONDABLE LOCATOR (M/S)**

Max torque load: n/a  
Tensile strength: n/a

**M1/S38 AIR INLET**

Max torque load: 29.0NM  
Tensile strength: n/a  
Studcollar lengths: 25mm  
Thread size range: M12

**RN1 - RETAINING NUT (MILD STEEL)**

Max torque load: 8.4/17.0NM  
Thread sizes: M8 & M10

**RN1 - RETAINING NUT (STAINLESS)**

Max torque load: 17.73  
Thread sizes: M8 &

**S1 - HEXNUT (MILD STEEL)**

Max torque load: 1.02-17.0NM  
Thread sizes: M4-M10

**S1 - HEXNUT (STAINLESS)**

Max torque load: 2.2-35.5NM  
Thread sizes: M4-M10

**S2 M/S WINGNUT**

Max torque load: 1.02-17.0NM  
Tensile strength: n/a  
Thread size range: M4-M10

**S2 S/S WINGNUT**

Max torque load: 2.2-35.5  
Tensile strength: n/a  
Thread size range: M4-M10

**S3-E ENCAPSULATED SPRINGCLIP****S3 PLAIN SPRINGCLIP****S6 PLAIN SPRINGCLIP****S7 WASHER (MILD STEEL)**

Max torque load: n/a  
Thread sizes: M4-M10

**S7 WASHER (STAINLESS)**

Max torque load: n/a  
Thread sizes: M4-M10

**CABLE TYRAP (MILD STEEL)****CABLE TYRAP (STAINLESS)**

For sales or technical advice, call us on 01202 574601





## BigBond

Formulated for the rapid, strong surface mounting of BigHead Fasteners to virtually any substrate, BIGBOND adhesives are made in 3 formulations; each bonds mild or stainless BigHeads to specific materials and surfaces.

**High Grab** is a high strength, single component MS Polymer adhesive. Use in:

**Structural bonding** between metals, coated surfaces, most plastics and composites.

**Powerful, safe bonding** for the Building and Construction industries.

**General use** in signmaking, retail displays & interiors, and external cladding.

**FS Acrylic**: high strength, two-component, methacrylate-based adhesive, bonds BigHeads in high-load

situations, and in:

**Structural joining** of metals, concrete, polycarbonates, GRP and composite constructions.

**Ultra-powerful, high-load** adhesive for building and construction applications.

**High-strength adhesion** in cars, coaches, commercial vehicles, aerospace & transport.

**General use** in Marine, signmaking, retail, external cladding.

**PU Fast Set**: ideal for PVC/GRP/ABS, composites, timber, plasterboard, laminates, concrete & masonry. Polyurethane based, solvent-free; has good gapfilling and fast reaction, with high-strength bonding performance on all surfaces.

**Data Sheets for all 3 products can be downloaded from our website, or we'll post full details.**

## Pinsulator

An ingenious fixing method for all thicknesses of insulation material, the Pinsulator is made to order in either mild or 316 stainless steel, using wire of 3mm diameter with a sharpened "nail" point. Once the Pinsulator is glued or moulded into position, a standard BigHead springclip retains the insulation material in position (see page 8). A wide variety of head sizes and shapes is available - we can actually manufacture on any standard head - and the Pinsulator is manufactured in lengths from 25mm to 150mm. All MS bigheads shown on Page 7 can be used as Pinsulators if required. This typically simple and effective fastening solution is used increasingly in marine and industrial insulation installations throughout the world, as well as in land-based tank storage farms (see below).

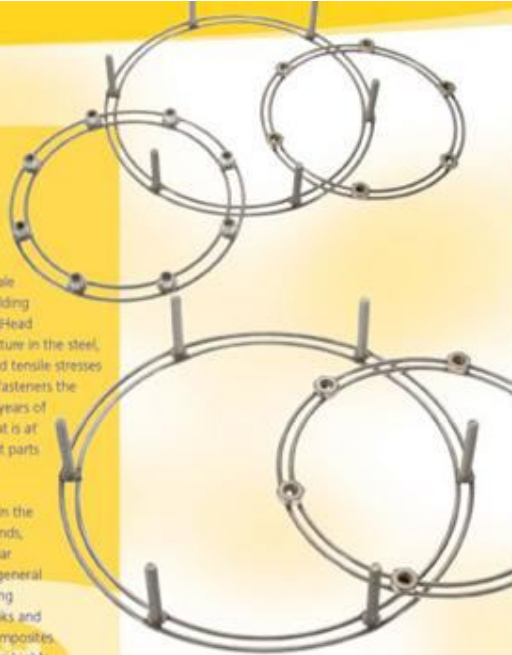
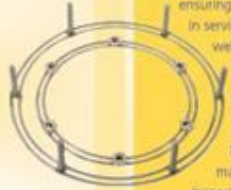
We also produce the **Giant BigHead** - a version of the Pinsulator designed for heavyweight industrial applications, typically in large Liquid Natural Gas (LNG) tank farms or power stations. The standard version utilizes a 58mm square head and a 5mm dia. pin in lengths of up to 400mm. A 50mm dia. spreader washer and a barbed, stainless steel spring clip complete the assembly. Our picture illustrates the use of the spreader washer and clip to retain the insulating material.



## BigRings

This ingenious circular fastener solution utilises two concentric rolled rings of stainless steel wire, with diameters determined by the required Pitch Circle Diameter (PCD) of the male or female fasteners. Accurate jigging and welding provide instant alignment, and the unique BigHead welding process provides a perfect grain structure in the steel, ensuring maximum resistance to shear and tensile stresses in service. In common with all BigHead fasteners the welding process, perfected over 40 years of experience, produces a weld that is at least as strong as the constituent parts of the finished product.

BigRings are increasingly utilised in the marine industry for porthole surrounds, inspection covers and hatches and similar applications, and in an increasing number of general fabrication applications, particularly in providing inspection and access covers for large fuel tanks and reservoirs manufactured in plastics, GRP or composites. Bonded in during manufacture, they provide a highly accurate and immensely strong array of fixing points, in both male or female versions.



## BigStrip

This version comprises a stud, collar or other device - male or female - welded to a 16mm wide mild or 316S11 stainless steel strip. Standard BigStrips come in 1 metre lengths but, like all BigHead products, can be manufactured with any required stud length and diameter as well as variable pitch, strip width and length. It is also possible to have specific lengths of BigStrip designed and manufactured, subject to a minimum-order requirement - call for details.

Jig-built to very high tolerances, BigStrips enable rows of fasteners to be mounted or positioned with extreme accuracy and speed. The mild steel versions are also available in our new non-chrome zinc passive finish, to comply with the new European Directive.

