



## TR PRESS PACK PRODUCTS

**TR FASTENINGS** IS RECOGNISED THROUGHOUT  
THE INDUSTRY FOR WORLD CLASS PRODUCTS  
& SERVICES

WE MANUFACTURE, STOCK & DISTRIBUTE  
A VAST RANGE OF INDUSTRIAL  
FASTENERS & COMPONENTS



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2012



**A number of new fastening innovations have come to market since the New Year. Among these is one from Sussex-based TR Fastenings, which is introducing a nut that can be used on sheet metal and plastic which is normally too thin to tap by conventional methods.**

It has developed the K-Series nut specially designed for use in applications with a minimum sheet thickness of 1mm. The nut, which offers a permanent female thread, can be installed without the need for specialist tooling. Once fixed, the product offers a permanent thread with a high prevailing torque and pullout resistance.

*"It is designed for use on sheets with a minimum thickness of 1mm," says Steve Wallis from TR Fastenings. "It allows a thread to be inserted in to sheets that you aren't normally able too. And it is easy to install, it is punched in to a pre-punched hole and twists in to the material. It is smaller in diameter than a lot of products out there, for example sheet metal, so it is good for those areas where space might be a premium. It is steel plated, has high torsional resistance, high pull out resistance; so it is quite a tough product."*

K-Series nuts are manufactured in a case hardened carbon steel, plated and tested to ISO898, though stainless steel can be supplied to order. Sizes range from M2.5-M16, with three different spigot lengths, the body of the product is hexagon with a serrated spigot.

*"It can be used anywhere where you have sheet metal and you need to put in a thread," says Wallis. "It will find applications with sheet metal contractors and fabricators, the telecommunications industry, the automotive industry, and white goods and electrical industries."*

*"The great thing about the K-series nut that sets it apart is that it is quite small in the hole size required and the diameter of the body. It is much smaller when compared to self clinch nuts and rivet bushes. So this gives it the other added advantage of where space is a premium, perhaps in the telecommunication or electronics industry."*

Additionally, PEM Fasteners has developed fasteners to allow easier mating of the threads in thin sheet metal applications. Although this sounds relatively simple, those using the fasteners frequently will save significant time and it should help alleviate the potential of strip threading.

# TR Press Release

## K-Series Joins the TR Family



2012



The fasteners possess a unique 'float' capability that enables easier mating during attachment and promotes design flexibility for relaxed tolerance applications. The family of floating fasteners includes captive panel screws and self-clinching nuts, all easily installed in thin sheets.

Floating captive panel screws can have either knurled cap or smooth cap reliably install into metal or non-metal panels as thick as 1.6mm, enabling subsequent access to an assembly and

compensating for up to 1.52mm mating hole misalignment.

Its patented MATHread anti-cross threading technology corrects off-angle installations, aligns components, and slides through clogged internal threads and a shoulder on the retainer portion of the fastener helps simplify installation. Thread sizes range from 4-40 through to 1/4-20, and from M3 through to M6. The fasteners are available in a scratch proof DuraBlack finish and assorted coloured plastic caps.

Floating self-clinching nuts can be specified with non locking threads or self locking threads and provide permanent load bearing threads in metal sheets as thin as 0.97mm and permit a minimum of 0.76mm adjustment for mating hole misalignment. Their unique design allows the fastener threads to extend fully into the retainer shank to impart added strength and support in an assembly.

The floating fasteners are RoHS-compliant and free part drawings can be downloaded from its website.

The K-Series Nut has been specially designed for use in applications with a minimum sheet thickness of 1mm. The nut, which offers a permanent female thread, can be installed without the need for specialist tooling. Once fixed, the product offers a permanent thread with a high prevailing torque and pullout resistance.

K-Series Nuts are manufactured in a case hardened carbon steel, plated and tested to ISO898, stainless steel can be supplied to order. Sizes range from M2.5-M16, with three different spigot lengths, the body of the product is hexagon with a serrated spigot.

The K-Series Nut, which will be available in time for the Fastener Fair Hannover from 24-26 April 2012, joins a long list of products especially designed to be used in sheet metal applications.

TR Fastenings offer a wide range of sheet metal products, including; the genuine Hank® Rivet Bush, Hank® Self Clinch fasteners, weld nuts, blind rivets, rivet nuts and weld nuts.



# TR Press Release

## Euro Rivet Bush joins the TR Hank Family



2012



**Already in a position of strength dominating the UK market, TR Fastenings is set to capture new European business with the launch of its latest innovation, the Euro Rivet Bush. TR have been manufacturing the genuine Hank® Rivet Bush for 30 years and consider themselves the market leader in the production and supply of rivet bushes in the UK.**

Designed, developed and manufactured at TR's production facility in the UK this new product offers an alternative to the Kerb-Konus and PSM rivet bush ranges. The Euro Rivet Bush is produced using multi-spindle machines, offering high performance products, at competitive prices.

Designed to offer a permanent female thread in sheet steel that is too thin to be tapped by conventional methods, the Euro Rivet Bush is easily installed and extensive in-house testing using the very best engineering equipment shows the product out performs similar products offered by TR's competitors.

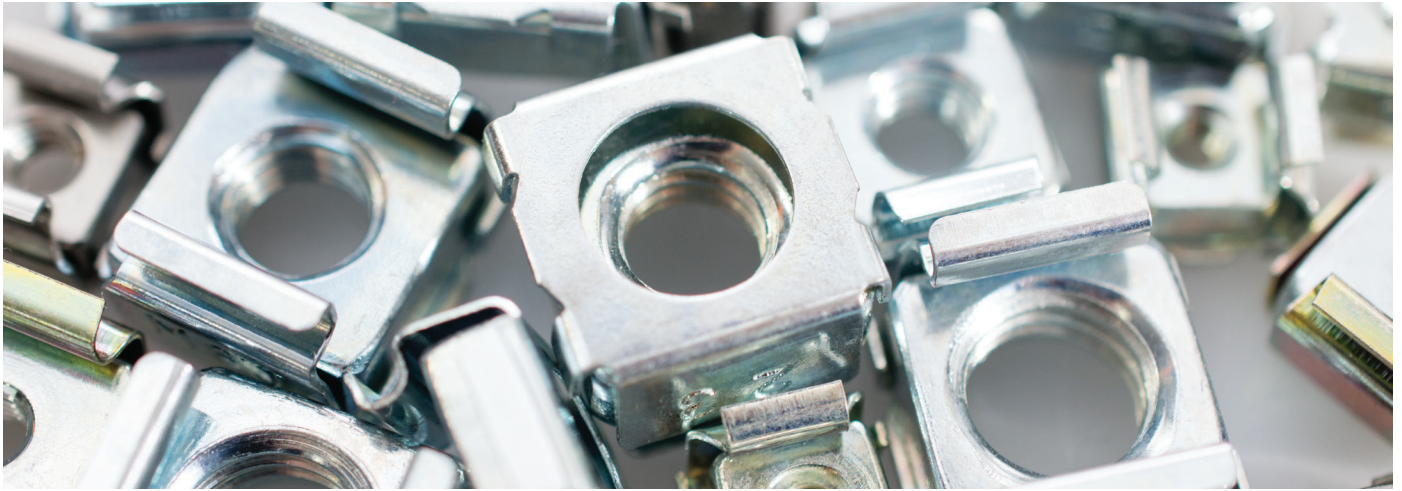
Available for immediate shipment in sizes M3-M8 in steel self finish or plated the product is offered in a number of different spigot lengths to suit specific applications. However, due to the flexibility of the UK manufacturing plant, TR also offer reduced lead times on any non-standard diameters or spigot lengths.

Steve Wallis from TR Fastenings says; *"Prior to the launch of the Euro Rivet Bush TR were already manufacturing several million parts per month in the UK and with the introduction of this new item production is set to soar as we win new business from the continent. We are confident that with the combination of a high quality product coupled with a competitive pricing structure customers will be switching to the Euro Rivet Bush."*

The genuine Euro and Hank® Rivet Bush products can be used in a number of industry sectors, including sheet metal fabricators, white goods, automotive, electronic, telecommunications and many more.

TR Fastenings offer a wide range of other sheet metal products, including; Hank® Self Clinch, weld nuts, blind rivets, K-Series, blind rivet nuts and weld studs.

2012



**TR Fastenings, leading stockists of sheet metal fastenings in the UK have expanded their product range by introducing a range of Cage Nuts.**

Cage nuts are snapped into pre-punched square or rectangular holes therefore removing the need for welding, clinching or riveting. They are installed using pliers to close the lugs of the cage which once released expand and grip into the panel.

The cage nuts have many benefits including:

- Good strength-to-weight ratio
- Loose nut allows for adjustments in alignment
- Easily replaceable

Available in thread sizes from M4-M10 for panels as thin as 0.7mm, the plated steel cage nut is a flexible product used in many applications, primarily computer cabinets and recording equipment.

2012



**At TR Fastenings, we manufacture the original Hank Self Clinch nuts ensuring quality control, flexibility and continuity of supply. Manufactured in heat treated steel, aluminium, A2 and hardened stainless steel, these sheet metal fasteners offer a thread in to sheet that would be too thin for conventional tapping methods.**

Used in a variety of applications including white goods, telecommunications, automotive, audio, electrical, marine, and enclosures to name but a few - clinch nuts are easy to install, simply 'squeeze' them into a pre-punched hole. To see for yourself visit our Self-Clinch Nut Installation Guide. Once installed the reverse side remains flush and smooth.

We pride ourselves on our supply capabilities and can boast a thread size range from M2 up to M12.

TR Fastenings Clinch Nut Statistics:

- ~5,000,000 sold each month
- ~15,000,000 held in stock
- >1000 different customers

Immediate availability

TR Fastenings offer a quality product, sold at competitive pricing to a range of different customers around the world.



# TR Press Release

## TR Launches New Plastic Fasteners Range



2012



**TR Fastenings, the leading manufacturer and distributor of industrial fastenings, is delighted to announce the launch of its new plastic products range for Printed Circuit Board (PCB) hardware and Cable Management requirements.**

Plastic fasteners and fixings are set to be a core part of TR's expansive product portfolio, with a comprehensive range available, on demand and competitively priced. Manufactured in high-performance and incredibly versatile Nylon 6 and Nylon 6/6, TR Fastenings' new PCB range includes circuit board hardware, rivets, screws, Cable Management and Wiring Accessories. Combining functionality and reliability without compromising on quality, these plastic fasteners feature extensive benefits which can assist in efficiency and productivity of production processes.

Not only can one plastic fastener be used for a variety of purposes, but they also have other qualities, including ease of use, being formed from a lightweight material, strength at low and high temperature, resistance to impact, abrasion, organic solvents and gasoline, retention of shape and stiffness at high temperature. Furthermore, TR's plastic range meets with the necessary industry standards and sizes, all products satisfy the RoHS compliance (Restriction of Hazardous Substances) legislation, are ISO 14001/2004 compliant and available in flame-retardant versions.

A typical example is TR's range of Nylon 6 SR snap rivets, which are available in industry standard black or white and also in a flame-retardant material. These compact, two-piece, pre-assembled, multi-function fasteners require no application tools (just a simple finger pressure application) and are ideal for high-volume manufacturing of printed circuit boards, such as in mobile phones, as well as most forms of panel-fixing. A further, extensive range of panel-fixing fasteners are to be introduced shortly. The new moulded Nylon range for PCBs addresses a multitude of application needs, including consumer goods, marine and contract manufacturing industries owing to the fasteners' versatility, but the range is especially beneficial in the electronics and telecoms industry, such as ATM machines, PCs, laptops and mobile phones, as well as in lighting.

In such applications, with their closely grouped electrical components, plastic fasteners offer the ideal solution as they are a non-conductive material. Furthermore, TR is introducing an extensive range of Cable Ties, Cable Management products and Wiring Accessories, for effective Cable Management. TR's supply capacity for the new range will meet small and frequent orders right up to large contract accounts, catering for next-day delivery on all standard stock items, non standard is 7 to 10 days. Customised solutions and tooling for new parts are available on request.

# TR Press Release

TR offers a broad range of fasteners and fixings including its own branded sheet metal range



2012



**TR offers a broad range of fasteners and fixings including its own branded sheet metal range. TR Fastenings, a Global manufacturer and distributor of industrial fastenings, has positioned itself as a market leader with one particular product range.**

Sheet metal fastenings come in a wide range of shapes and sizes, in many different materials and are used in numerous industry sectors. TR offers a range of items, including:

- Hank Rivet Bush – Easy to install, hexagon and round available.
- Hank Self Clinch – Over twenty different varieties available, external and internal threads.
- K-Series – Suitable for thin sheet steel and soft plastics.
- Weld Nuts – Hexagon, round and square shape available.
- Blind Rivets – Can be used to secure two different sheets together.
- Blind Rivet Nuts – Insertion required from one side only, can be used in 'blind' applications.
- Cage Nuts – Excellent strength-to-weight ratio.
- Swage Nuts – Can be used in sheet as thin as 0.5mm, dimensionally the same as a self clinch nut, installed the same way as a rivet bush.
- Weld Studs – No pre-punched hole required, easy to apply.





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