

Fixtureworks Introduces New Ring-handle Detent Pins

Fixtureworks, a supplier of clamps, fixturing accessories, and machine tool, has introduced a new lineup of ring-handle detent pins in steel and stainless steel. Detent pins provide a secure, quick, and easy engagement for fastening, locating, and alignment applications that require frequent, repetitive use. The pins, with ring handle, work within commercial drill tolerances, and their spring-loaded ball retracts when inserted or removed. They come in diameter sizes of 3/16" to 1" with a pull-out strength from 4 lb to 40 lb. The grip lengths range from 1/2" to 6" depending on the diameter. The detent pins are available in either C1144 steel with steel split rings or 303 stainless steel with 316 stainless rings.



Martins Industries Designs Mobile Torque Wrench Support Stand

Martins Industries Inc. has developed a mobile impact wrench support stand that it said is designed to reduce fatigue normally associated with repeatedly lifting and torquing an impact wrench.

The new stand is compatible with most impact wrenches. The stand is designed to support weight up to 50 pounds and enhance precision by allowing users to move the wrench freely in all directions while installing lug nuts. When not in use, a locking system will secure the impact wrench onto the tray, which also can be used to set lug nuts, covers and indicators within arm's reach.

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HellermannTyton Debuts Two Extreme-Duty Solar Module Cable Fasteners

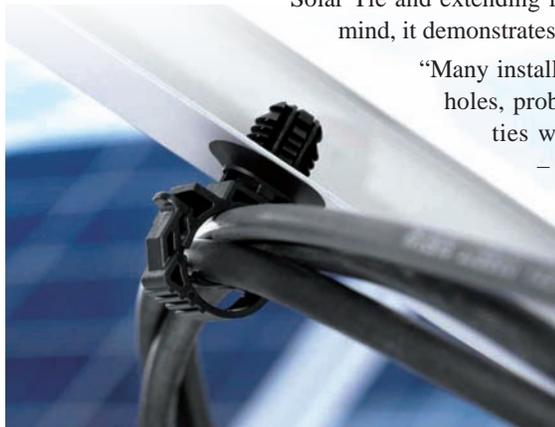
HellermannTyton, a specialist in the design and manufacture of robust solar fasteners, announces a high-performance Button Mount with Cable Tie and Locking Clamp. The two products fit the predrilled holes of most solar modules. They are rated for extended life in demanding outdoor environments and available for immediate shipping.

The Button Mount with Cable Tie fits most module holes and requires zero insertion force. Once placed through the module's frame, installers can insert the included Solar Tie through the mount on the frame's opposite surface.

The Locking Clamp fully closes and locks over a cable bundle. This fastener features an integrated fir tree mount for easy installation and includes a saddle for adding an optional Solar Tie and extending its bundle capacity. Designed with single-axis trackers in mind, it demonstrates exceptional extraction resistance.

"Many installers run standard cable ties directly through sharp module holes, probably because it's fast and easy; but unfortunately, those ties will fail prematurely," said Product Marketing Manager – Energies Nick Korth. "So, we made these mounts easy to install but tough enough to withstand sun, wind and movement within module holes for years."

Both products fit holes from 9x12 mm to 9x14 mm and can manage several cables. They are manufactured of high impact modified, heat-resistant, UV stabilized material, which is ideal for long-term performance in the full range of weather and climate extremes.



Innovation Alley

Würth Releases New Plastic Universal Dowel SHARK Pro®

The Würth has recently released a new plastic dowel called SHARK Pro®. It has many features that will definitely draw the attention of relevant application industries, which are listed as below:

1. Ensures knotting in all cavities and struts in all solid building materials
 - Twist or retention device prevents turning in the borehole
 - Patented dowel head knots the dowel shaft when screwing in
2. Easy and quick installation
3. Low insertion torque and high tightening torque



4. Suitable for plug-in and push-through installation
 - Reversible anchor collar
 - Impact lock prevents premature spreading during push-through installation
5. Resistant to rotting, weathering and aging
6. Made of high quality polyamide (nylon)
7. Halogen-free and silicone-free
8. Temperature-neutral from -40°C to + 100°C

PEM® TSO4™ Self-Clinching Threaded Standoff Fasteners Securely Stack or Space Components in Ultra-Thin Stainless Steel Assemblies

PEM® TSO4™ self-clinching threaded standoffs from PennEngineering® offer reliable fastener solutions to securely stack or space components in ultra-thin stainless steel assemblies. These hardened stainless steel fasteners clinch into stainless sheets as thin as .025" / 0.63mm



and become permanent parts of an assembly. The standoffs ultimately will reduce the amount of required hardware in an assembly, promote thinner and lighter designs, and minimize typical handling issues associated with loose hardware.

Among unique design features, the fastener's thread design at the barrel end minimizes the length for a mating screw. Shorter standoffs are typically thru-threaded and longer standoffs are blind. Thread-type variations with a thicker wall can further be specified to provide increased bearing surface for the mating component or panel. For applications in potentially corrosive environments, an optional nickel plating can be added for excellent corrosion resistance.

PEM TSO4 standoffs are available in thru-threaded or blind threaded versions and in a variety of lengths and several standard thread sizes (#2-56, #4-40, and #6-32 / M2.5, M3, and M3.5). They are manufactured from hardened 400 Series stainless steel for use in stainless sheets with maximum hardness up to HRB 88 on the Rockwell "B" scale or HB 183 on the Brinell scale.

The standoffs mount simply and quickly by pressing the fastener into a round hole in the host sheet and applying sufficient squeezing force using a standard press to embed the standoff's head flush in the sheet and complete the process. A single mating screw completes the attachment process.

Alumseal® 611: New Zincate for Aluminum Alloys Designed to Extend the Electroless Nickel Process Bath Life

Aluminum is a very reactive metal and has a tendency to form an oxide layer very rapidly when in contact with oxygen. The presence of the oxide layer is not desirable in cases where the surface has to be metallized. The adhesion of subsequent coatings applied on the aluminum surface is adversely affected by the oxide layer. To avoid the rapid oxidation of aluminum during the pretreatment steps and prior to electroless nickel or electroplating, it is a common practice to cover the surface with a thin uniform film of zinc by use of a zincate process. In the case of electroless nickel (EN) plating, the build-up of zinc contamination limits the bath life to 3 – 4 MTO.

A new zincate process, Alumseal® 611, has been developed by Atotech to provide very thin zinc coatings in order to reduce the amount of Zn contamination in the EN bath, thus eliminating the need for an EN strike bath. Alumseal® 611 is designed to extend the bath life of the EN process to >6 MTO. Alumseal® 611 has demonstrated that coating weight of the zinc film is reduced by 30 – 60% on aluminum alloys when compared to existing zincate processes.

"When using the new Alumseal® 611 zincate process in combination with the high Zn tolerant electroless nickel process Nichem® MP 1188, the bath life can be extended up to 8 MTO without an EN strike bath", states Shakeel Akhtar, Global Product Manager for wear resistant coatings (EN) at Atotech. "Atotech is the first company to achieve this milestone within the plating industry."



Due to low Zn build-up and high tolerance to Zn contamination, the efficiency of the EN bath is improved through higher average plating speed. The combination of Alumseal® 611 & Nichem®

MP 1188 provides technical and

economic benefits for the customer in a

highly demanding industry.

Rivet Faster & Easier with Milwaukee®'s New M12™ BPRT

Designed for the professional trades, the M12™ BPRT simplifies the overall riveting process. Engineered with Milwaukee®'s advanced M12™ technology, the new tool rivets up to 2x faster and requires considerably less muscle effort than that required for hand tools, eliminates the maintenance of pneumatic hoses and compressors, and can handle up to 4.8MM stainless steel rivets.

The M12™ BPRT is the industry's first rivet tool that uses a scotch yolk mechanism, which dramatically impacts the tool's performance versus the ball and screw mechanisms utilized by other rivet tools. The scotch yolk mechanism is much smaller, allowing the tool to deliver a huge amount of force in a more compact and shorter package.

Powered by M12™ REDLITHIUM-ION™ batteries, the M12™ BPRT can rivet over (325) 4.8mm stainless steel rivets. The REDLITHIUM-ION™ Battery Pack delivers more work per charge and more work over pack life, maintaining power under load better.

With a capacity of 2.4, 3.2, 4.0, and 4.8mm, the M12™ BPRT can rivet a range of materials including aluminum, steel, and stainless steel rivets.

For added utility, the M12™ BPRT also features a retention nose piece to keep the rivet in place during applications, as well as on-tool nose piece storage and a quick exchange front end for quick access and easy nose piece replacement.



Spida Studs Offer Increased Options for Boatbuilders

Spida Stud offers increased strength and improved adhesion properties to ensure a truly reliable lightweight bonded fastener.

New to the market, the Spida Stud offers a number of advantages over traditional bonded fasteners. First, the fastener itself is circumferentially welded to the back of the base, which reduces the risk of the fixing failing at the weld. This means that potential stresses are efficiently passed down the thread and dissipated out into the base of the fixing, greatly increasing the durability and ensuring the maximum possible breaking strength.

The base of the Spida Stud features eight self-leveling mini feet, which ensure an optimal 0.5mm bond line of adhesive is formed under the fixing. This consistent layer of adhesive underneath the fastener aids bonding. The feet also make for a castellated edge that improves torque resistance by 24%, enhancing the performance of the part. These features are paired with a proprietary surface treatment called AdMax™ which increases the contact area for adhesive.

End users can specify marine 316L stainless steel, manganese and boron steel alloy, with further material options to be made available in the near future such as glass filled nylon and carbon fibre PEI lightweight engineering plastic.

Panasonic Introduces AccuPulse® Precision Assembly Tools for Quality-driven Manufacturers

Panasonic Eco Solutions of North America, a leader in cordless assembly technology, introduces its latest innovation in mechanical pulse tool technology, AccuPulse®. Mechanical pulse tools were designed with no torque reaction and advanced ergonomics to reduce operator fatigue & injury. Mechanical Pulse tools require minimal maintenance but get the job done accurately. A cordless battery-powered design offers freedom of movement and long-life emissions-free operation, desirable in today's eco-conscious factories.

Panasonic's AccuPulse® mechanical pulse tool series with high-resolution encoder to accurately detect flush and snug points on a wide variety of joint types, important for fastening applications where precision is critical. By sensing eight times faster compared to standard mechanical pulse tools, engineers can fine tune these tools to any application for greater fastening accuracy and higher operational efficiency. Easily program settings such as socket extension mode, cross thread reduction, cross thread/rehit detection, retightening prevention, maintenance alarms, and flush detection delay.

Featuring torque controlled ranges from 3Nm to 120Nm and a high-efficiency double hammer design, AccuPulse® tools are available in a variety of drive systems to deliver versatility in manufacturing applications from automobiles, heavy equipment, off-road vehicles, general industry and agriculture/construction equipment.



Bülte Releases New Washer Faced Hex Screws with Torx

Manufactured in natural nylon, this new range combines 3 shapes in one: hex head, star drive and washer. When compared with metallic screws, natural nylon is light, non-conductive to electricity and has very good thermal properties. And the materials mechanical strength provides good resistance to shocks and will also resist staining.

This triple fastener combination offers several advantages:

- Variety of drive tools : Spanner / Socket / Torx driver
- The combined washer that :
 - * Limits the pressure / tension under the screw head
 - * Offers better support and protect the fastened surface
 - * Better distribution of the load
- The star drive that:
 - * improves tightening torque
 - * less likely to slip during tightening

Dimensions available: M4, M5, M6, lengths 6 to 60 mm depending on the diameter.



Besides Nylon, BÜLTE also proposes this range in PP, PE, PVDF, and PC on request. These materials are also stainless, and they offer higher resistance to diluted acids, greases, oils, alcohol or petrol.

Another option is fibre glass filled Nylon which combines enhanced mechanical performance and long term durability. It represents the perfect polyamide for pieces that require higher Torque, and increased shock absorption.

The washer faced hex screw with Torx can be adapted to all your applications and can be produced in a large range of colours (see RAL chart, minimum quantity on request).

GEARWRENCH® Introduces New Slugging/Striking Wrenches

GEARWRENCH Slugging/Striking Wrenches are designed for applications where the force or torque needed to loosen or tighten large fasteners is so great that a hammer or sledge is required. Wrenches are offered in three styles: 6 Point Slugging, 12 Point Slugging, and 12 Point 45° Offset Striking. The large striking surface allows for more efficient hammer contact, transmitting more force to the fastener, while the compact handle length permits usage in confined areas. The offset handle of the 45° Offset Striking Wrench is designed to clear obstructions. Each wrench is made of alloy steel and features a hard stamped size marking on its handle. All have a black oxide finish for corrosion resistance.



GEARWRENCH 6 Point Slugging Wrenches are offered in fourteen sizes, ranging from 1-1/16" – 3-7/8". There are twenty-eight 12 Point 45° Offset Striking wrench sizes that range from 1-1/16" – 3-1/8", and thirty-three 12 Point Slugging Wrench sizes ranging from 1-1/4" – 4-5/8".

NYLON FASTENERS



washers



handles



plugs



nuts



bushings



spacers



screws







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