Providing Advanced Technology
to the Fastener Industry

ISSUE 2 - 2015

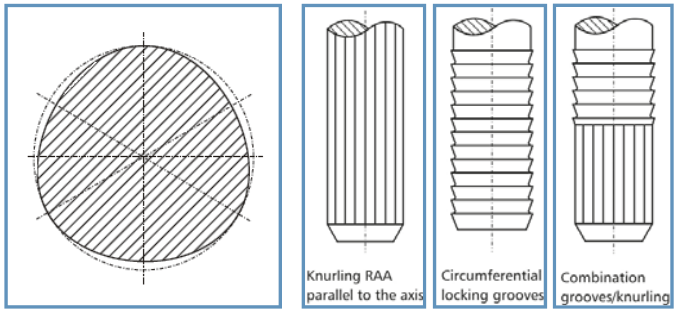
TriPress® Fasteners

Everyone knows time is money. Assembly time is therefore an important factor in today's industry, whether it is automotive, white goods or electronics. Threaded fasteners are used to assemble two or more components, whereas thread-forming fasteners provide the assembly benefits of standard threaded fasteners plus additional cost-saving benefits to the fastener user.

The advantage of threaded fasteners is not only the easy installation process, but also serviceability, in case of repair or rework. In some assembly applications, serviceability is not necessary, but assembly time and joint performance are the key elements in the manufacturing process.

As master licensors, CONTI and REMINC are proud to announce the launch of the TriPress® fastener.

TriPress® fasteners are designed to be used in applications where the speed of assembly and performance are more important than serviceability of the product. TriPress® fasteners can be pressed into an application, simply joining two or more components or act as a functional element, as would a double-ended stud. Suitable TriPress® application materials are a variety of plastics and light-alloy metals.



By using TriPress® fasteners, assembly times can be reduced up to 75%. There are no resulting assembly problems, such as cross-threading, which typically occurs with metric screws. The simple TriPress® press-in process, ideally achieved by using displacement-controlled presses, requires less costly assembly equipment and tools.

The typical TriPress® product design incorporates a TRILOBULAR® cross-sectional shape, plus the added features of longitudinal grooves and/or annular rings. The grooves and rings, used alone or in combination, resist turning and pull-out in the application, providing a locking feature.

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** TriPress® is the registered trademark of Arnold Umformtechnik GmbH & Co. KG*

DID YOU KNOW?

Did you know that the REMINC/CONTI staff made 307 visits to fastener end-users and licensees in 2014?

Did you know that REMINC/CONTI staff members conducted TRILOBULAR® and REMFORM® TRAINING seminars, attended by 1094 people, in 2014?

Our efforts in 2014 is evidence of ours staff's diligent promotion of our advanced fastener technology to prospective end-users globally, who can benefit from its reduced assembly cost.

REMINC STAFF

Laurie Mandly	Chairman & CEO
Tim Egan	President & COO
Ken Gomes	VP - Engineering/Product Development
John Reynolds	Manager - Fastener Engineering
Dennis Boyer	Senior Project Engineer
Bill St. Angelo	Director - Marketing and Licensing
Bob Budziszek	Project Engineer
Suzanne Lilly	Administrator - Intellectual Properties
Beth Rondeau	Director of Financial Administration
Kelli Russ	Executive Assistant
Ralph Barton	Associate

SPOTLIGHT ON

Bobby Budzsizek joined the REMINC staff on a part time basis in October 2007. He began an Engineering program at the Community College of Rhode Island and successfully completed his bachelor's degree at the University of Massachusetts on May 15th of 2015. Bobby's Mechanical Engineering Degree includes a focus in Manufacturing and a 1st place award with his team in the Mechanical Engineering design competition. He has also completed the requirements for the Certified Fastener Specialist title (IFI-FTI), the Automotive Fastener Technology Certificate (FTI), Fundamentals of Manufacturing Certificate (IFI) and Fundamentals of Cold Forming Certificate (National).

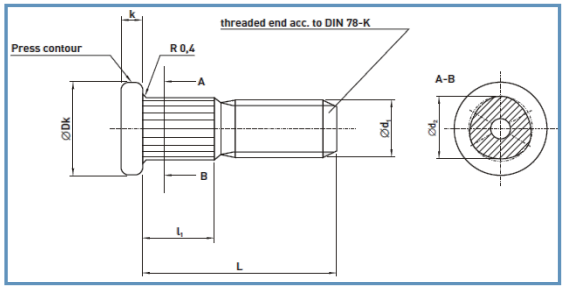
REGISTER

PRESIDENT'S PERSPECTIVE - THE COMMON OBJECTIVE by Tim Egan

Recently, I've been giving more thought to my perspective on whom we are and where we are going in this world. At this point in time, there are more than six billion people inhabiting the planet, all squeezed into about 10% of the actual land mass, which makes up only 30% of the planet's surface area. It's getting a bit crowded. We have enormous quantities of natural resources, once thought to be unlimited, but now proving to be scarce in some instances. Our land, sea and air environment is immense, but now thought to be threatened by years of inattention and mismanagement, which has created a lively debate about how to handle the perceived degradation. There is unbridled opportunity for our population, but very unfortunately, not for all. Our challenges are numerous and overwhelming. They include a dearth of well-educated people, numerous competing ideologies, religions, ethnicities, nationalities and political views. We will surely never solve all our problems, but we can learn from our experience to avoid repeating mistakes made in the past. Despite our checkered history, countries and self-appointed groups continue to seize land, mineral resources and wealth, generally resulting in conflict and war, displaying disdain for the peaceful existence of others. The old axiom "live and let live" continues to be ignored in our modern world, where regional unrest and instability have seemingly become accepted norms.

Our licensing program is a striking metaphorical contrast to what I witness happening in the world today. This is not because REMINC and CONTI are smarter than others or that we have all the right answers. It is because our licensees always rise above the fray, go beyond what might be expected, and display a willingness to cooperate and work together to solve problems and get the job done. Our licensees represent a wide variety of company structures, diverse modes of operation, broad geographic reach and a wide range of product offerings. Operating in their respective territories, they proceed with their own business models, what works best for them. Although many have overlapping interests in some markets, they have a mutual regard and respect for fellow program licensees; the result being that licensed product sales continue to grow, year after year. During my frequent global travels, I continue to observe how our licensees strive to achieve a common objective: providing value-added fasteners to lower the overall cost of assembly, benefiting assemblers and consumers, and over time the ever-changing world we live in.

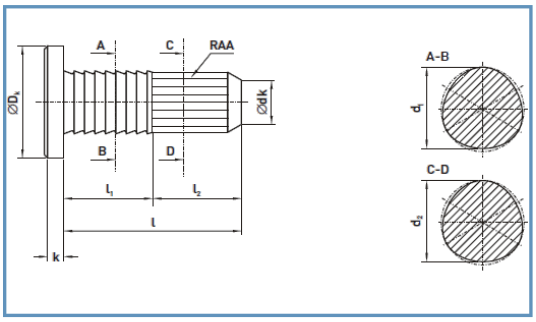
TriPress® Fasteners *(cont. from Page 1)*

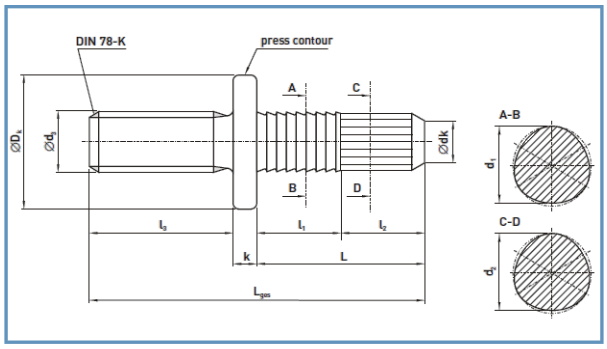


Compared to similar round-bodied press-in fasteners, the TRILOBULAR® shape guarantees a lower press-in force with less variation during assembly. The component's material can flow between the lobes to develop a form-lock between the fastener and the component. In addition, material flow between the knurls provides additional turning resistance.

CONTI/REMINC can provide pilot hole size recommendations for molded plastic and cast light-alloy metal applications, as well as hole sizes, where a drilled hole is required.

It is important to point out the distinctions between TriPress® fasteners and our family of TRILOBULAR® fastener designs. Although the functional part of the TriPress® product has a TRILOBULAR® cross-section, the knurls and annular rings, which comprise the locking feature, are not helical and therefore different from our TRILOBULAR® Program family of products. The press-in method of assembly is also dissimilar to that of TRILOBULAR® fasteners which have helical threads. Therefore, the TriPress® Fastener Licensing Program is separate from our TRILOBULAR® Program and requires the execution of a separate license agreement with its own terms and conditions. Please contact us to learn more about this new Licensing program and how TriPress® fasteners can enhance your company's product offerings.





If the primary objective of the assembly process is reduced assembly time, but the application additionally requires good serviceability, we would alternatively recommend our PUSHTITE® II™ fastener design. Similar to the TriPress® fastener, the PUSHTITE® II™ assembly process is accomplished by a simple press-in operation.

The difference between the PUSHTITE® II™ product and the TriPress® product is that the shape of the PUSHTITE® II™ locking grooves are helical, not annular. This helical thread form, combined with a TRILOBULAR® cross-sectional design, allows displaced air to escape during installation. But more interesting, is that the helical shape also allows PUSHTITE® II™ fasteners to be easily removed and reinserted if necessary.

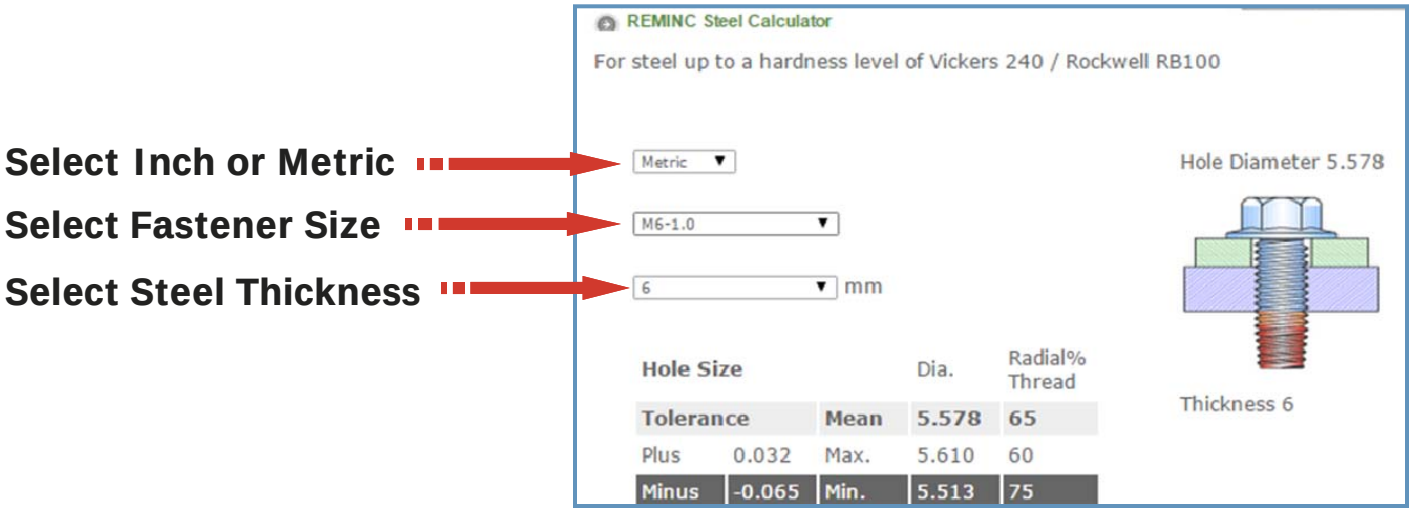
In addition to CONTI/REMINC's well known and widely used TAPTITE® and REMFORM® fasteners for metal and plastic applications, we can now offer TriPress®, PUSHTITE® II™ and other alternative products that will optimize your assembly processes and lower the overall cost of assembly. Please contact us to receive more information about these products.

New Steel Hole Calculator

Have you tried the new hole diameter calculator for steel that is on the **TAPTITE.com website**?

The calculator is not only simpler than using the TAPTITE 2000® fastener brochure to obtain the aim hole diameter, but it also provides the user with more information.

Stepping through three drop-down menus, the user selects metric or inch sizes, then the fastener size and finally the steel thickness. The user is then rewarded with the mean hole diameter aim, the hole diameter tolerance, the minimum and maximum hole diameters and also the resultant radial thread engagements. In addition to the above, a roughly scale drawing appears.



For M5 (#12-14) and smaller, a pan head TAPTITE 2000® fastener joining two pieces together is shown. For sizes M6 (1/4-20) and above, the head style shown is a hex flange head with a colored CORFLEX®-'I' induction-hardened point, protruding past the bottom of the steel plate.

John Reynolds, REMINC's Manager of Fastener Engineering, recently made this comment about the new hole calculator: "While the TAPTITE 2000® fastener brochure did a decent job of providing a user with an aim hole diameter, the applicable hole diameter tolerance was not so easy to determine. When fielding phone calls and trying to explain how to determine the tolerance, I knew there had to be a better way. This web-based calculator is the result."

John urges everyone to try the calculator and provide feedback to him. There are few items that are planned for revision in the near future, such as having the inch sizes appears in size order rather than pure numerical order. End-user feedback is essential, not only for improving this calculator, but also to help create the next version as well.

What might that next one be? No hints are required, as it is already in progress - a more complex cast-cored hole calculator for aluminum die castings.

Welcome New Licensees to the Program

We would like to welcome two new fasteners producers to our licensing program.

Pilgrim Screw Corporation
Providence, Rhode Island, USA
www.pilgrimscrew.com
(TRILOBULAR® Fasteners)
Pilgrim Screw Corporation is an 80-year old family-owned fastener manufacturer with locations in Rhode Island and Arizona, USA. Pilgrim was recently licensed to produce and sell TRILOBULAR® Fasteners specifically for aerospace applications. Pilgrim takes pride in its marketplace knowledge and a strong focus on customer needs.

Taeyang Metal Industrial Co., Ltd.
South Korea
www.taeyangmetal.com
(TRILOBULAR® Fasteners)
Taeyang Metal Industrial Co., Ltd., established in 1954, produces cold forged and precision processed parts for the automotive industry. Based in South Korea, Taeyang has sales and service operations in China, India and North America to meet regional demand. Taeyang is now licensed to produce and sell the full range of TRILOBULAR® fasteners to customers globally.

Licensee Focus

SFS intec AG, Heerbrugg, Switzerland
www.sfsintec.biz
SFS intec AG, based in Switzerland, is a global supply partner, manufacturer and supplier of precision cold formed components, special fasteners and mechanical fastener systems. SFS intec's products include the full range of TAPTITE 2000® fasteners for metal and thin-metal sheet applications as well as REMFORM® II™ designs for plastic components. SFS intec manufactures its wide range of products in several global facilities, supported by a comprehensive supply chain management system.

Nitto Seiko Co., Ltd., Ayabe, Kyoto, Japan
www.nittoseiko.co.jp
Headquartered in Japan, Nitto Seiko has five manufacturing locations throughout Asia, producing a broad range of standard and special industrial fasteners, including the TAPTITE 2000® and TRU-START® designs. Nitto Seiko, founded in 1938, and producing TRILOBULAR® products since 1967, has a wealth of experience in supplying and supporting the electronic and automotive industry. Nitto Seiko prides itself on sound customer relationships and guarantees complete satisfaction.

CMG ContMid Group, Park Forest, Illinois, USA
www.contmid.com
ContMid Group's Continental/Midland units manufacture cold headed automotive grade fasteners, including the full range of TAPTITE 2000® and REMFORM® fastener designs. Continental/Midland offers customers a comprehensive product line that includes both standard and custom designed bolts, screws and specialty cold formed fasteners. A hallmark of Continental/Midland's success is their extensive experience with thread-forming fasteners combined with their technical support expertise.

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1958 - 2015
Celebrating 57 Years Lowering the Cost of Assembly