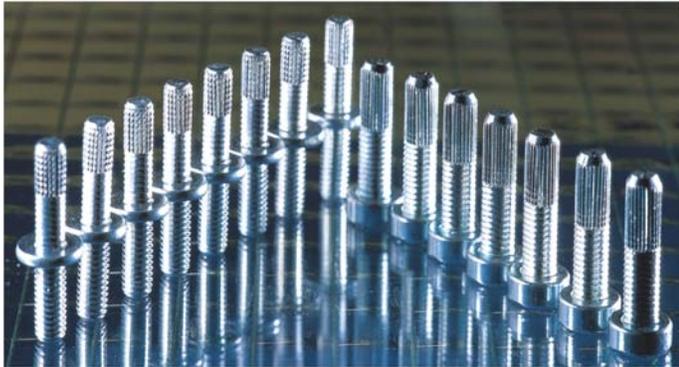




# Providing Advanced Technology to the Fastener Industry

ISSUE 1 - 2017

## TriPress® Fasteners Joining of Plastics & Light Alloys



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.



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, light-alloy metals and steel.

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. (cont. on Page 3)

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

### REMINC STAFF

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

### SPOTLIGHT ON DON FOSMOEN



Don joined REMINC in 2003, after having spent 25 years with a TRILOBULAR® licensee, initially operating headers and thread rollers, then progressing to a position in manufacturing engineering. Promoted to Director-Engineering at REMINC in January 2017,

Don provides manufacturing support and fastener application education at licensee locations globally in addition to developing the automotive market for our trademarked products in North American and Asia. Don is based at the REMINC office in Middletown, RI, USA. We congratulate Don on his new position.

### LICENSEE FOCUS

#### Bulten Fasteners AB, Gothenburg, Sweden

[www.bulten.com](http://www.bulten.com)

Licensed in 1969, Bulten is a leading supplier of customized TRILOBULAR® and REMFORM® fasteners to the worldwide automotive industry with several global manufacturing units. The company offers technical development, material and production know-how, logistic solutions and full service provider services.

#### Infastech Decorah, LLC, Decorah, IA, U.S.A.

[www.stanleyengineeredfastening.com](http://www.stanleyengineeredfastening.com)

A unit of Stanley Engineered Fastenings, with locations in the USA and throughout Asia, is a global supplier of TRILOBULAR® & REMFORM® products, serving the electronics, automotive & industrial markets. The company offers value analysis-value engineering, logistics & supply services and vendor-managed inventory solutions.

# R E G I S T E R

## **CHAIRMAN'S CORNER - THANK YOU LICENSEES, by Laurie Mandly**

Instead of my customary comments on current events or situations I encounter, I want to take this opportunity to salute all our licensees. I was recently reflecting on our licensing program, its history and how we continue to succeed. Our success is clearly the result of the collective efforts of our team, comprised of our REMINC and CONTI staffs, our licensees and the end-users of our range of proprietary fastener products. It's clearly a joint effort and our licensees are an integral team component.

The licensee base is made up of 66 selected companies, at last count, located in 18 countries. They are the best-in-class in the fastener industry. Our licensees are fastener producers, supported by a group of tool manufacturers and induction hardening providers. It takes this combination of capability and skills to generate the cost-saving products, totaling an estimated 20 billion pieces, that were sold and used globally in 2016. Each licensee is a contributor, not just a participator in the program. That fact is an important distinction.

REMINC and CONTI provide the basic "tools" for our licensees - the patents, trademarks and confidential technical information. We also offer each licensee comprehensive technical and marketing support, including training sessions at our facility or at designated licensee locations, field work, tech center testing services and trouble shooting. We reinvest our earnings into the business by maintaining our staff to provide this level of support, as well as visiting end-users and customers, with or without licensees. In addition, we continue to invest in new product development, global patent and trademark registrations and intellectual property protection. We pride ourselves on being pro-active, not just reactive, to the challenges of end-user assemblers.

However, notwithstanding all the above, our licensees also make a huge investment of money, time and talent to the program. Many have proven that in the global market in which they operate, their ability to make and sell our value-added products gives them a distinct competitive edge. Equipped with that advantage, along with us, it's our licensee "army" that expends the energy and effort to get the job done. It's our and our licensees' collective dedication, hard work and persistence that makes our program successful. We wouldn't be where we are without our devoted licensees. I therefore heartily applaud our licensees and congratulate them on their success. Thank you, licensees!

---

## **EDUCATION OUTREACH**

In the 2016-2 issue of the REMINC Register, we announced a new phase of our REMINC Education and Training Outreach Program. The intent of this phase was to present the performance and cost-savings benefits to more end-user-customers and licensee personnel. We held our first outreach training in August, 2016 in the Detroit area. This training session was attended by 70 people, representing 11 licensees and 5 end-user-customers. The large turnout encouraged us to hold a similar session in the greater Chicago area in October, 2016. This second session was attended by 18 people from licensed screw manufacturers, tooling licensees and fastener distributors.

These two training sessions were such a success, that we plan to hold similar sessions sometime later this year.

During the training sessions, we detailed the performance attributes and cost-saving benefits of TAPTITE 2000<sup>®</sup> screws and bolts. Actual application studies were presented to stimulate thought on how TAPTITE 2000<sup>®</sup> fasteners could be used in similar circumstances.

The POWERLOK<sup>®</sup> II<sup>™</sup> presentation showed the advantages of using POWERLOK<sup>®</sup> II<sup>™</sup> all-metal locking screws instead of machine screws with non-metallic locking elements. Vibration test results showed how POWERLOK<sup>®</sup> II<sup>™</sup> screws resist vibrational loosening, which is the primary test for the reliability of a joint.

REMFORM<sup>®</sup> II<sup>™</sup> screws were presented to show the manufacturing benefits and performance enhancements provided by this new design when fastening into plastics.

One of the most beneficial aspects of these meetings was the informal discussion which took place during and after the REMINC-sponsored buffet lunch. There was an excellent exchange of ideas and possibilities among the attendees. During the Detroit session, networking between licensed manufacturers and end-user-customers took place, whereas in the Chicago session there was more interchange between licensed manufacturers and distributors.

These sessions exemplify the type of support that REMINC can provide. We are also willing to visit licensed facilities and provide more focused sessions, specific to their individual needs. Some of the session attendees have expressed an interest in having our staff continue this type of training but having it more customized.

We enjoyed conducting these two training sessions and look forward to having more of them in the months ahead. We hope to see you there!

## WHO NEEDS NUTS?

Billions of machine screws are used each year to assemble equipment, machines, automobiles, electronics and more. Most machine screws are typically used in conventional standard threaded hexagon nuts. When a machine screw is assembled into a standard hex nut, two tools are required to complete the assembly, one tool to drive the screw and a second tool to prevent the nut from turning. By using TAPTITE 2000® screws, only the driving tool is necessary, and without any need for a conventional nut!



TAPTITE 2000® screws form strong, uniform internal threads in ductile metals such as steel and aluminum alloys, eliminating the cost of pre-tapping the hole. TAPTITE 2000® screws are used in weld nuts, pierce and clinch nuts, deep-drawn heavy extrusions and various other nut members. In each case the nut manufacturer avoids the cost of tapping and cleaning the hole.

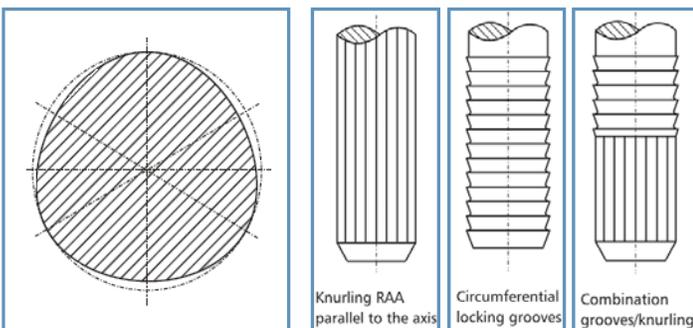
When considering the cost-savings achieved by using TAPTITE 2000® screws, the hidden costs of tapping are often not considered. It is obvious that the cost of the tap and the tapping operation itself are eliminated. Here is a partial list of the additional hidden costs that can be saved.

- Inspection of the internal thread
- Gages required to inspect the internal thread
- Tapping lubricant
- Cleaning away oil & chips
- Many more - request our 54 Ways brochure

The cost-savings are extensive!

In many cases, TAPTITE 2000® screws can be assembled in clean-punched or extruded holes in the nut component, eliminating the need for a separate nut altogether! So we typically ask “Who needs nuts?”

Please visit our website, [www.taptite.com](http://www.taptite.com) and click on “Cost-Savings Solutions” for more information on the “In-Place Cost-Savings” that can be achieved by using TAPTITE 2000® screws.



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

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.

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/REMIC can provide pilot hole size recommendations for molded plastic, cast light-alloy metal and steel 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 products. The press-in method of assembly is also dissimilar to that of TRILOBULAR® fasteners which have helical threads. Please contact us to learn more about 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/REMIC'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.

REMINC Training / Brochure Request Form

Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please Check:

- Contact me regarding a training visit
- REMINC General Products Catalog
- TAPTITE 2000® Products Application Guide
- TAPTITE 2000® Product Brochure
- REMFORM® Product Brochure
- TRU-START® Product Brochure
- FASTITE® 2000™ Product Brochure
- "54 Ways TAPTITE 2000® Fasteners Lower the Cost of Assembly" Request Form
- Receive Newsletter by e-mail

Mail form to: REMINC  
55 Hammarlund Way, Tech II  
Middletown, RI 02842 USA

Fax to: (401) 841-5008

E-mail to: reminc@reminc.net

**REMINC QUESTIONS AND ANSWERS**

- Q. Is the TriPress® product only for use in plastic applications?**  
A. No, TriPress® is a TRILOBULAR® rapid fastening system that can be clinched into plastic, light metals and steels.
- Q. Will I need to install metal inserts into the plastic before installing the Tri-Press® fastener?**  
A. No, the TriPress® fastener is installed directly into the plastic, eliminating the need for metal inserts.
- Q. What is the purpose of the TRILOBULAR® shape on the fastener?**  
A. The TRILOBULAR® shape provides a lower more consistent press-in force compared to a round fastener and serves as an anti-rotation feature.
- Q. Why circumferential locking flutes?**  
A. Improved pull out forces and prevention of loosening by itself.
- Q. What are the benefits of TriPress® fasteners?**  
A. 75% less fitting time - no assembly errors – independent of pre-stress forces – path controlled clinching operation – uses more economical operative materials and tools.

The following are patented products and/or trademarks licensed by REMINC: TAPTITE®, TAPTITE II®, TYPE-TT®, REMFORM®, CORFLEX®, PLASTITE®, POWERLOK®, TRILOBULAR®, KLEERTITE®, KLEERLOK®, EXTRUDE-TITE®, MAGTITE®, TAPTITE 2000®, DUO-TAPTITE®, FASTITE® 2000™, ENGINEERED FASTENINGS®, THE CONTROLLABLE PRODUCT®, TAPTITE 2K®, TYPE TT 2000®, TYPE TT 2K®, TAPTITE 2000 & DESIGN®



Research Engineering & Manufacturing Inc.  
55 Hammarlund Way, Tech II  
Middletown, RI 02842, U.S.A.

For more information on our products, visit us at [taptite.com](http://taptite.com)  
Tel: (401) 841-8880  
Fax: (401) 841-5008  
E-mail: [reminc@reminc.net](mailto:reminc@reminc.net)

**1958 - 2017**  
**Celebrating 59 Years Lowering the Cost of Assembly**

