



## REMINC'S EDUCATION AND TRAINING OUTREACH INVITATION

### PROVIDING IN-PLACE COST SAVINGS

In our REMINC newsletter, 2014 Issue 2, we announced our Education and Training Outreach policy. This policy offered an open invitation to licensees and fastener end-users to attend training on our TAPTITE 2000<sup>®</sup>, POWERLOK<sup>®</sup> II<sup>™</sup> and REMFORM<sup>®</sup> II<sup>™</sup> products. The response was good. However, we realized that due to travel budget constraints and increased workloads, there were probably more potentially interested parties that could not make the trip to our facility in Middletown, RI. To remedy this problem, we have scheduled a TAPTITE 2000<sup>®</sup>, POWERLOK<sup>®</sup> II<sup>™</sup> and REMFORM<sup>®</sup> II<sup>™</sup> training seminar in Troy, Michigan on August 24, 2016 at the Marriott Hotel at 200 W. Big Beaver Rd. The session will be from 9:30AM - 11:30AM, followed by a luncheon.

The focus of the session will be on the effective use of TAPTITE 2000<sup>®</sup>, REMFORM<sup>®</sup> II<sup>™</sup> and POWERLOK<sup>®</sup> II<sup>™</sup> screws, and the performance and "in-place" cost savings that can be achieved by using these fastener designs. Attendees from all end-users, potential end-users and our licensees are invited. The seminar will have an open forum approach where we will field your questions and discuss potential applications. Both Ken Gomes and Don Fosmoen will be present. We will make it educational and well worth your time.

**Please fill out the form below:**

**Name:** \_\_\_\_\_ **Position:** \_\_\_\_\_

**Company:** \_\_\_\_\_

**E-mail Address:** \_\_\_\_\_

**Staying for lunch?** Yes  No

Brochures, reports and samples will be available. Coffee and pastries will be served between 9:00AM - 9:30AM, prior to the session. Luncheon will be served following the seminar.

Please let us know of your interest as soon as possible as attendance is limited to 30 participants. Please fax to 401-841-5008 or email the form to [kgomes@reminc.net](mailto:kgomes@reminc.net).

We look forward to seeing you. Feel free to share a copy of this invitation with your colleagues.

# R E G I S T E R

## PRESIDENT'S PERSPECTIVE - WE ARE DIFFERENT , by Tim Egan



Having now been in this business for almost 20 years, I have witnessed many changes, especially in the various ways people communicate with one another. When I left college and began my working career, face-to-face contact, the telephone and postal letter mail were the most common forms of communication. The once dominant Telex had been replaced by Fax and Internet-driven E-mailing came into fashion. Over the past few years E-mailing with attachments, scanned or otherwise transmitted, dominates the media but it has morphed into any one of the following: Linked-In<sup>®</sup>, Facebook<sup>®</sup>, Twitter<sup>®</sup> Messaging, Skype<sup>®</sup>, and Go-to-Meeting<sup>®</sup>, to name only a few. There seems to be no end to the available means by which one can communicate electronically, with much less emphasis placed on face-to-face meetings.

There is no question that electronic communication is easier, quicker, less time-consuming, far less expensive and therefore very efficient, but I question whether it is as effective as having personal one-on-one meetings. For routine matters, using the available electronic means is quite adequate; however, with more difficult issues, I believe that face-to-face meetings have distinct advantages. With electronic communication, a person's facial expression, demeanor, inflection and tone of voice are all absent, characteristics that are important, especially when dealing with complex matters. One can "hide" behind an email, but not when sitting in the same room. When discussing difficult issues, the audio-video electronic options are the preferred means to converse, but at their best they are less effective than sitting down together. The bottom line here for me is that real life face-to-face discussion and spending time together is the primary building block for developing relationships.

At REMINC and CONTI we are different. During normal working hours, we always answer the phone in person, never using a computerized grid, as is so common today. Our technical staff is very knowledgeable about our range of licensed products. They understand our product designs, how these products function, and in what applications they are best suited. Our team regularly travels to end-user manufacturers and our licensees' locations to hold product promotion, education and training sessions. We hold frequent seminars at our facilities in North America and Europe to discuss application opportunities for fastener users. We help our licensees with marketing assistance, technical and quality problem solving and cost-savings analyses for customers. Our technical staff also regularly goes on site to solve tooling and manufacturing problems. We are a hands-on group as we believe that this approach is most effective to achieve positive results.

REMINC and CONTI are different. In 2015 our team collectively made over 300 visits to end-users, assemblers and licensees worldwide. During these visits we personally trained over 800 individuals, so remember, if we are not at your location providing training, I can guarantee to you that we are training someone elsewhere. We took the time and made the effort to communicate in the most effective ways we know, to promote the cost savings, technical, quality and procurement benefits of using our products and help our global licensees produce fasteners to our specifications and succeed with our program. We believe in support and service, and we do our best to stand apart from our competition. That makes us different.

## REMINC RESPONDS! FIELDING THE QUESTIONS

***Q. What is the basic difference between a standard machine screw and a POWERLOK<sup>®</sup> II<sup>™</sup> fastener?***

A. The POWERLOK<sup>®</sup> II<sup>™</sup> thread form is the same as a standard machine screw except with the addition of a 30° tip deflected toward the head of the fastener. Also, the body of the POWERLOK<sup>®</sup> II<sup>™</sup> fastener is TRILOBULAR<sup>®</sup> in shape.

***Q. I have a machine screw application where the screw is constantly coming loose. What would REMINC suggest?***

A. POWERLOK<sup>®</sup> II<sup>™</sup> fasteners would be the fastener of choice for this application. It is our all metal TRILOBULAR<sup>®</sup> fastener for use in tapped nut members. The POWERLOK<sup>®</sup> II<sup>™</sup> screw achieves enhanced locking ability through the combination of a novel 60°-30° thread form and a TRILOBULAR<sup>®</sup> thread body. The 30° tip, which is deflected toward the head of the fastener, penetrates the root of the nut thread as the thread form locking feature. It resists vibration even when unseated, as the locking feature extends the entire length of the fastener. Therefore POWERLOK<sup>®</sup> II<sup>™</sup> fasteners make excellent adjusting screws.

***Q. I need a locking screw to be installed into a tapped hole, but the tapped hole is contaminated with paint. Could you help me?***

A. KLEERLOK<sup>®</sup> is a fastener specifically designed for this application. It is a POWERLOK<sup>®</sup> fastener with a paint-clearing feature added to the point to scrape away the paint as it is driven.

***Q. What are the differences between POWERLOK<sup>®</sup> II<sup>™</sup> and TAPTITE 2000<sup>®</sup> fasteners?***

A. POWERLOK<sup>®</sup> II<sup>™</sup> fasteners are designed for use in tapped holes as a locking fastener and TAPTITE 2000<sup>®</sup> are fasteners which form their own threads in un-tapped nut members.

## **POWERLOK® II™ Screws vs. Machine Screws With Non Metallic Locking Feature, By Ken Gomes**

Machine screws with non-metallic locking features such as nylon patch or adhesive are used in many different applications. A properly designed joint, sufficiently tightened, should maintain clamp load and remain tight without the need for a non-metallic locking element. Because of varied real world conditions, many assemblers prefer to use a locking screw to insure the joint remains tight.

POWERLOK® II™ screws are all-metal locking screws which have a TRILOBULAR® body and a 60° thread form with a 30° addendum. The locking action, or resistance to vibrational loosening, is generated by several facets of the design.

- Interference in the root of the nut thread
- Nut material relaxation between the lobes
- Material relaxation along the thread helix
- Spring action from the deflection of the 30° addendum

The combination of these features creates a prevailing torque that lasts over several in- and-out cycles. Prevailing torque is the torque required to rotate the screw without the head being seated. This resistance to free turning is considered an indication of resistance to vibrational loosening.

When comparing POWERLOK® II™ screws to machine screws with an adhesive patch, the use of POWERLOK® screws provide several advantages.

- Not limited by high temperature applications
- Locking feature is not location dependent; exists on entire length of shank
- Reusable over several cycles. Machine screws with adhesive are usually effective for 1 cycle.
- The POWERLOK® II™ locking features are created during the heading and rolling process and do not require a secondary operation which may need an outside source, making POWERLOK® II™ screws cost competitive.

It has always been difficult to evaluate the capabilities of POWERLOK® II™ screws as compared to machine screws with adhesive patches. This difficulty is because the two fasteners utilize different locking methods that are monitored in two different ways.

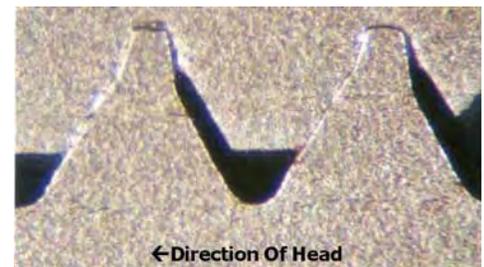
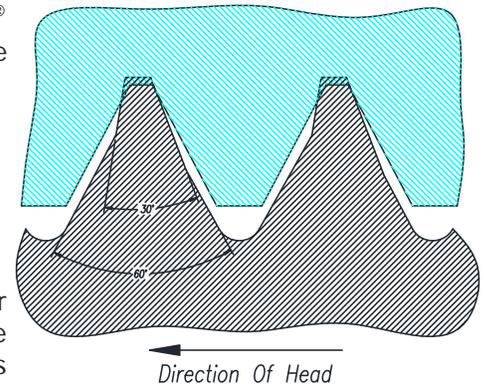
POWERLOK® II™ screws provide metal to metal interference that is monitored by measuring prevailing torque.

The effectiveness of a machine screw with an adhesive patch is evaluated by seating the screw at a predetermined torque. The assembly is then left undisturbed for a predetermined time, typically 24 hours, to allow the adhesive to properly cure. The screw is then removed, measuring breakaway torque.

Neither method of monitoring the locking features determines whether the assembly stays tight during service. In order to compare the two fastening methods we have utilized a Junkers vibration test machine. The Junkers machine vibrates an assembly at right angles to the axis of the screw, per a procedure prescribed by the machine's inventor, Dr. Junkers. The screws are tightened to a nominal clamp load and then subjected to transverse vibration. The residual clamp load is then measured. This is a more useful measure of resistance to vibrational loosening than the two common torque measurements used to monitor locking capability.

There are many different adhesives used on machine screws and to date we have only been able to evaluate a few. The initial results indicate that POWERLOK® II™ screws retain clamp load as well as or better than machine screws with adhesive applied. We found that in some instances, the adhesive did not consistently bond to some of the common coatings now in use in automotive applications, causing total loss of clamp load during the Vibration Test. POWERLOK® II™ screws with the same coating retained a level of clamp load on each assembly tested.

Please contact us at REMINC with questions about our comparative testing. We would be happy to provide you with our test report and samples.



**POWERLOK® II™ TRILOBULAR® All-Metal Locking Fasteners Solve Assembly Problems  
and Reduce Your In-Place Fastening Costs.**

## 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](mailto:reminc@reminc.net)

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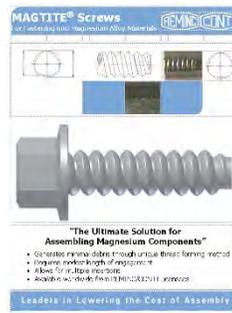
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products, visit us at [taptite.com](http://taptite.com)

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E-mail: [reminc@reminc.net](mailto:reminc@reminc.net)

**1958 - 2016**  
**Celebrating 58 Years Lowering**  
**the Cost of Assembly**



## Licensee Focus

### ITW Shakeproof Group

Illinois, U.S.A

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

ITW Shakeproof is a leading global manufacturer of value-added, high quality engineered hardware solutions for the most demanding challenges. ITW has been licensed since 1961, providing TAPTITE® and PLASTITE® fastener products for automotive, electronics and appliance assemblers.



### New Licensees

#### Omega Civata Sanyi ve Ticaret Ltd. Sti.

Istanbul, Turkey

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

Omega Civata Sanyi ve Ticaret Ltd. Sti., now holds a license to produce and sell TRILOBULAR® fasteners to component assemblers in Turkey. Omega Civata, equipped with multi-station forming machines, serves end-users in the automotive, appliance, electronic and machinery industries.



#### Trident/Celo USA

Grand Rapids, Michigan, U.S.A.

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

TRIDENT/CELO USA was recently acquired by Grupo CELO in Spain, holder of worldwide TRILOBULAR® and REMFORM® licenses since 1997, in order to better serve its customers in the Americas with a broad range of proprietary fastener products.



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