

# NFDA TODAY: Your National Fastener News

July 2017



## President's Message

By Kevin Miller

I am both honored and proud to serve as president of NFDA, an organization that my grandfather helped found and lead almost 50 years ago. Think about that for a minute, we are coming up on 50 YEARS! That is quite an accomplishment, one that is due in no small part to the efforts of our past and present leadership, members, and service providers. It is humbling to be a part of an organization that has provided so many in our industry with great value, resources, and tools for success.

Paul Tiffany emphasized the mantra, "YOU ARE THE NFDA." Casey McIlhon pressed "COME TO THE NFDA." I encourage every one of you to "BE THE NFDA." Be a part of the organization that has provided so many of its members with great value, resources and tools for success. Be on a committee. Be on the board. Be active at meetings. Be an advocate for the association and attract new members. Do all this so NFDA can continue to grow, thrive and ultimately BE the organization that we all want for the next 50 years!

We have several great events coming up. I am thrilled about the Leadership Academy, a new event scheduled for November that we have developed alongside the Young Fastener Professionals. The content of the Leadership Academy will be geared towards developing leadership skills in the next generation of fastener professionals. Registration will be limited for the inaugural event, so please keep an eye out for more information! Most exciting of all, is the 50th Anniversary celebration which will happen March 2018 in Costa Rica! This event promises to be a great time to recognize and reflect on NFDA's history and think about its future. I hope everyone can make it. Mark your calendars!

This organization does not run without the time and effort of its leaders and committee members. First, I would like to thank Marc Strandquist for his outstanding stewardship of NFDA over the past year. In addition, a big thank you to our two departing board members, Casey McIlhon (past president) and Gary Cravens, for their devotion over the past few years. Lastly, I welcome Doug Ruggles and Bruce Hayes, new directors on the NFDA board.

On behalf of our leadership team, we look forward to serving you!

Kevin Miller



## Immediate Past President's Message

By Marc Strandquist

Dear Fellow NFDA members,

We are coming to the end of another successful NFDA year. So much has been accomplished and this last year has been a positive and rewarding experience for me as your President.

I want to thank the members of the board for their hard work and dedication. I also want to thank the full time staff, Vickie, Jeannine, Marci and Tanya, for being the glue that holds it all together. But most of all I want to thank you, the membership, for making this a successful year.

It seems like just yesterday we were in Louisville and then Long Beach. Both were excellent venues where we saw a positive outcome in attendance and participation. We finished up in Boston with a transition from myself to Kevin Miller. Let's all please continue to support Kevin and NFDA.

Again my thanks to all of you for your excellent support and I wish you all a safe and happy summer!

Best regards,

Marc Strandquist

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## NFDA Events

- 2017 NFDA/YFP Leadership Academy**  
November 2-3, 2017  
Crowne Plaza  
Rosemont, IL
- 2018 50th Anniversary Meeting**  
March 14-16, 2018  
JW Marriott Guanacaste Resort & Spa  
Guanacaste, Costa Rica
- 2018 Annual Meeting & ESPS**  
June 5-6, 2018  
Embassy Suites Chicago Downtown  
Magnificent Mile  
Chicago, Illinois



## NFDA and YFP Leadership Academy

November 2-3, 2017, Rosemont, Illinois  
Crowne Plaza Chicago O'Hare Hotel and Conference Center



To thrive in the future, the fastener industry needs to develop and support the next generation of leaders. Therefore, the National Fastener Distributors Association and the Young Fastener Professionals are partnering to foster the industry's future leaders.

We are pleased to bring to the event Shelly Alcorn, a futurist and thought-leader, who will facilitate a collaborative and highly interactive experience for Leadership Academy participants.

Discussion topics may include:

- What are the most pressing issues that young professionals face in their careers?
- What will the workplace of the future look like and what skills will I need to thrive?
- How do I obtain these skills?
- What career development programs, products, and resources can associations like NFDA and YFP provide that would be most valuable to young professionals?
- What are the communication challenges in the workplace and what positive strategies can be used?
- What emotional intelligence is required to persuade others effectively and to participate in decision-making?

The biggest opportunities for younger professionals are to establish relationships early in their career, to continue learning (post-formal education), and to be involved in advancing their industry. The NFDA and YFP Leadership Academy will engage professionals from all generations, to ensure a pipeline of future leaders.

This program is limited to 36 participants. NFDA and YFP members will have first priority.

## Member Benefit Spotlight - Utilize Business Intelligence

As an NFDA member, you have access to a full library of great information via [www.nfda-fastener.org/ArticleArchive](http://www.nfda-fastener.org/ArticleArchive). The Article Archive contains lots of beneficial info in the form of reports, articles, research updates and more. Categories include:

- Customer service articles
- Distribution articles
- Economic outlook reports
- Fastener distribution index reports
- Financial management articles
- Human resources articles
- IFI fastener technology updates
- Past meeting materials  
[www.nfda-fastener.org/SpeakerPresentation](http://www.nfda-fastener.org/SpeakerPresentation)
- Past newsletters
- Sales articles
- Microsoft Tech Tips

Another great resource for NFDA members only! Email Tanya if you don't know your member login, [tanya@nfda-fastener.org](mailto:tanya@nfda-fastener.org)

## Meet the 2017-2018 Board of Directors



**Kevin Miller**  
Bamal Corporation  
President



**Kelly Cole**  
Hayes Bolt & Supply  
Vice President



**Adam Pratt**  
Sherex Fastening Solutions  
Associate Chair



**Marc Strandquist**  
Wurth Industry N. America  
Immediate Past President



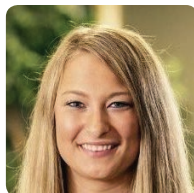
**Kevin Godin**  
AFC Industries  
Distributor Director



**Bruce Hayes**  
Sems and Specials  
Associate Director



**Rich Megliola**  
Fontana America  
Associate Director



**Jennifer Ruetz**  
AIS All Integrated Solutions  
Distributor Director



**Doug Ruggles**  
Martin Fastening Solutions  
Distributor Director



**Jun Xu**  
Brighton-Best International  
Associate Director



**Dan Zehnder**  
Trinity Logistics Corp  
Distributor Director

## Welcome New NFDA Members

Conexiom by ECTMarket  
[conexiom.com](http://conexiom.com)

NIFMSE  
[fastenershow.com](http://fastenershow.com)

TR Fastenings  
[trfastenings.com](http://trfastenings.com)



## NFDA Fastener Standards Activity Update - Q2 2017

By John Medcalf

ASTM F16, ASME B18, and the associated subcommittees met in Toronto, Ontario May 8-10. Some of the major activities are as follows:

### ASTM F16

- A couple updates to ASTM F606/F606M on test methods are in the works. These include the addition of a Charpy impact test method for toughness and updates to the hydrogen embrittlement test method. Both items will continue through the balloting process.
- The new standard covering all dip-spin coatings passed subcommittee balloting after some discussion, and will proceed to main committee ballot for final review and approval.
- ASTM F1941/F1941M on electroplating will undergo a detailed review at a task group level, with areas for consideration including baking requirements for SEMS and case hardened fasteners, nanostructured zinc-nickel alloy coatings, and how in-process control requirements are defined.
- The revision to ASTM A574 on socket cap screws to lower the maximum hardness from HRC 45 to HRC 44 has passed committee balloting, and will proceed to publication.
- A major revision to the combined structural bolting standard, ASTM F3125/F3125M, was balloted, with many comments and negatives received and discussed. One of the major topics is changing head markings from the traditional grade markings to strength markings (e.g. 120 vs. A325).
- The efforts to coordinate with committee B08 on surface coatings to revise their electroplating standard, ASTM B633, have been productive. Many negatives were received on a ballot to bring baking requirements back in line with F16 standards (above 1200 MPa or approximately HRC 39), but most were addressed. The next round of balloting will attempt to resolve any remaining issues, and get the revision approved.

### ASME B18

- ASME B18.6.3 on machine screws and tapping screws is under revision, with a task group reviewing areas such as case hardening requirements, core hardness requirements, and hydrogen embrittlement test methods.
- The revision to ASME B18.6.1 on wood screws continues, with further work required to properly address the inclusion of drywall screws.
- The revision to ASME B18.13 on SEMS has been published, and the revisions to ASME B18.16.6 on inch locknuts and ASME B18.18 on quality assurance are expected to be published this summer.

### IFI

- Salim Brahimi reported on an issue being seen with ASTM A307 threaded rod that is prevalent in Canada, and may exist in the US as well. It has been found that some imported rod is being produced with thread angles well below the required 60°. It is believed this is being done to save on material cost, but creates a dangerous situation due to loss of thread strength. Anyone importing this grade of product should ensure the threads gauge properly with 3A GO and 2A NO GO gauges after plating.

John Medcalf is Engineering and Business Lead for Peak Innovations Engineering and is NFDA's technical representative.

Communication between NFDA members and the NFDA technical standard representative (the "Representative") through email or otherwise is provided by the NFDA as a courtesy to its members. The NFDA provides no assurance as to the accuracy, completeness, or timeliness of any statement made by the Representative to the member or fastener technical standards organizations. Neither the NFDA nor the Representative makes any representation as to whether any statement of the Representative is consistent or compliant with fastener technical standards. Neither the NFDA nor the Representative shall be responsible for any loss or damage suffered by the member or any other person as the direct or indirect result of any statement made by the Representative.

## NFDA's Inaugural Fastener Professional of the Year Award Presented to Robbie Gilchrist

The National Fastener Distributors Association's first recipient of its new Fastener Professional of the Year award is Robbie Gilchrist of Capital Marketing.

The Fastener Professional of the Year award was created by NFDA to honor individuals and companies that make a substantial positive impact on people's lives.

This award recognizes:

- An individual from a fastener distributor or supplier company who makes exceptional contributions to their company and to the industry.
- Also partners or consultants who demonstrate exemplary support of the fastener industry.

In presenting the award to Robbie at the recent NFDA/Pac-West Joint Conference, NFDA president Kevin Miller of Bamal Corporation noted, "While there are a lot of people who certainly fit the criteria for this recognition, one name shot quickly to the top of the list who embodies the true spirit of this award."

After successfully building his own business and dedicating himself to the numerous associations he has been a part of, Robbie and his wife Gina decided to start a scholarship foundation to give back to the industry that provided them with so much. The Gilchrist Foundation Scholarship was established to provide financial assistance for college education for persons involved in the fastener industry (or children of those employed in the industry). One or more scholarships are awarded annually. [www.gilchristfoundation.com](http://www.gilchristfoundation.com)

**John Medcalf** was appointed as the NFDA technical standards representative to allow the NFDA membership not just visibility of standards activities, but also a voice in the process.

NFDA members are encouraged to express their comments or concerns relating to fastener standards. The only way to influence the process is to stay engaged and participate.

Members can:

- Inquire about changes in drafts noted in the quarterly reports
- Raise suggested revisions or technical updates to standards
- Ask general standards related questions
- Offer feedback to continue refinement of these articles

Please email your standards related comments, concerns or questions to John at [standards@nfda-fastener.org](mailto:standards@nfda-fastener.org)



Marc Strandquist, Robby Gilchrist, Kevin Miller



## 2017 Joint Conference & Tabletop Show in Long Beach, California



### Training Opportunities

The Fastener Training Institute® has the following upcoming opportunities to increase your fastener knowledge:

- July 11 – Understanding the Bolted Joint – La Mirada, California
- July 13 – Fastener Basics – Denver, Colorado
- July 21 – Webinar: Physical Testing for Suppliers – Online
- July 25 – Fastener Basics – Santa Fe Springs, California
- August 1 – Dimensional & Material Specifications – La Mirada, California
- August 11 – Webinar: Fastener Tightening Strategies – Online
- August 14-18 – Fastener Training Week – Elk Grove Village, Illinois
- September 12 – Fastener Quality Assurance-Print Reading & Inspection – La Mirada, California
- September 19 – Product Training Part 1 – Santa Fe Springs, California
- September 22 – Webinar: ISO Metric Fastener Specifications – Online
- October 3 – Fastener Testing – Rancho Cucamonga, California

NFDA members receive discounted registration on FTI seminars and webinars. For more information and a list of all FTI events visit [FastenerTraining.org](http://FastenerTraining.org).

If you prefer to receive this newsletter electronically only, please visit [nfda-fastener.org/maillinglistoptout](http://nfda-fastener.org/maillinglistoptout)



**Our core purpose is to help our members thrive in the global marketplace.**

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- Masonry
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### SDS-PLUS Rotary Hammer Drills

| Part # | Size  | X | OAL     | Drilling | Head   | Qty. |
|--------|-------|---|---------|----------|--------|------|
| C10009 | 5/32" | X | 4-1/4"  | 2"       | 4-PLUS | 1    |
| C10010 | 5/32" | X | 6-1/4"  | 4"       | 4-PLUS | 1    |
| C10020 | 3/16" | X | 4-1/2"  | 2"       | 4-PLUS | 1    |
| C10030 | 3/16" | X | 6-1/2"  | 4"       | 4-PLUS | 1    |
| C10031 | 3/16" | X | 8-1/2"  | 6"       | 4-PLUS | 1    |
| C10032 | 3/16" | X | 12-1/2" | 10"      | 4-PLUS | 1    |
| C10033 | 7/32" | X | 6-1/2"  | 4"       | 4-PLUS | 1    |
| C10034 | 7/32" | X | 8-1/2"  | 6"       | 4-PLUS | 1    |
| C10035 | 7/32" | X | 10-1/2" | 8"       | 4-PLUS | 1    |
| C10036 | 7/32" | X | 16"     | 14"      | 4-PLUS | 1    |
| C10040 | 1/4"  | X | 4-1/2"  | 2"       | 4-PLUS | 1    |
| C10050 | 1/4"  | X | 6-1/2"  | 4"       | 4-PLUS | 1    |
| C10051 | 1/4"  | X | 8-1/2"  | 6"       | 4-PLUS | 1    |
| C10052 | 1/4"  | X | 10-1/2" | 8"       | 4-PLUS | 1    |
| C10053 | 1/4"  | X | 14"     | 12"      | 4-PLUS | 1    |
| C10054 | 1/4"  | X | 16"     | 14"      | 4-PLUS | 1    |
| C10060 | 5/16" | X | 6-1/2"  | 4"       | 4-PLUS | 1    |
| C10070 | 5/16" | X | 12-1/2" | 10"      | 4-PLUS | 1    |
| C10080 | 3/8"  | X | 6-1/2"  | 4"       | 4-PLUS | 1    |
| C10090 | 3/8"  | X | 10-1/2" | 8"       | 4-PLUS | 1    |
| C10100 | 3/8"  | X | 12-1/2" | 10"      | 4-PLUS | 1    |
| C10101 | 3/8"  | X | 18"     | 16"      | 4-PLUS | 1    |
| C10102 | 3/8"  | X | 24"     | 22"      | 4-PLUS | 1    |
| C10110 | 7/16" | X | 6-1/2"  | 4"       | 4-PLUS | 1    |
| C10111 | 7/16" | X | 12-1/2" | 10"      | 4-PLUS | 1    |
| C10120 | 1/2"  | X | 6-1/2"  | 4"       | 4-PLUS | 1    |
| C10130 | 1/2"  | X | 10-1/2" | 8"       | 4-PLUS | 1    |
| C10140 | 1/2"  | X | 12-1/2" | 10"      | 4-PLUS | 1    |
| C10141 | 1/2"  | X | 18"     | 16"      | 4-PLUS | 1    |
| C10142 | 1/2"  | X | 24"     | 22"      | 4-PLUS | 1    |
| C10150 | 9/16" | X | 6-1/4"  | 4"       | 4-PLUS | 1    |
| C10160 | 9/16" | X | 12-1/4" | 10"      | 4-PLUS | 1    |
| C10170 | 5/8"  | X | 6-1/4"  | 4"       | 4-PLUS | 1    |
| C10171 | 5/8"  | X | 8-1/4"  | 6"       | 4-PLUS | 1    |
| C10190 | 5/8"  | X | 12-1/4" | 10"      | 4-PLUS | 1    |
| C10191 | 5/8"  | X | 18"     | 16"      | 4-PLUS | 1    |
| C10192 | 5/8"  | X | 24"     | 22"      | 4-PLUS | 1    |
| C10193 | 3/4"  | X | 8"      | 6"       | 4-PLUS | 1    |
| C10220 | 3/4"  | X | 12"     | 10"      | 4-PLUS | 1    |
| C10221 | 3/4"  | X | 18"     | 16"      | 4-PLUS | 1    |
| C10222 | 3/4"  | X | 24"     | 22"      | 4-PLUS | 1    |
| C10223 | 7/8"  | X | 8"      | 6"       | 4-PLUS | 1    |
| C10230 | 7/8"  | X | 10"     | 8"       | 4-PLUS | 1    |
| C10231 | 7/8"  | X | 12"     | 10"      | 4-PLUS | 1    |
| C10240 | 1"    | X | 10"     | 8"       | 4-PLUS | 1    |
| C10241 | 1"    | X | 18"     | 16"      | 4-PLUS | 1    |



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| Part # | Size   | X | OAL | Drilling | Head     | Qty. |
|--------|--------|---|-----|----------|----------|------|
| C13100 | 3/8"   | X | 13" | 7-1/2"   | REGULAR  | 1    |
| C13102 | 1/2"   | X | 13" | 7-1/2"   | REGULAR  | 1    |
| C13104 | 1/2"   | X | 21" | 15-1/2"  | REGULAR  | 1    |
| C13106 | 9/16"  | X | 21" | 15-1/2"  | REGULAR  | 1    |
| C13108 | 5/8"   | X | 13" | 7-1/2"   | X-CUTTER | 1    |
| C13110 | 5/8"   | X | 21" | 15-1/2"  | X-CUTTER | 1    |
| C13112 | 5/8"   | X | 36" | 30-1/2"  | X-CUTTER | 1    |
| C13114 | 11/16" | X | 21" | 15-1/2"  | X-CUTTER | 1    |
| C13116 | 3/4"   | X | 13" | 8"       | X-CUTTER | 1    |
| C13118 | 3/4"   | X | 21" | 17"      | X-CUTTER | 1    |
| C13120 | 3/4"   | X | 36" | 31"      | X-CUTTER | 1    |
| C13122 | 7/8"   | X | 13" | 8"       | X-CUTTER | 1    |
| C13124 | 7/8"   | X | 21" | 17"      | X-CUTTER | 1    |
| C13126 | 7/8"   | X | 36" | 31"      | X-CUTTER | 1    |
| C13128 | 1"     | X | 13" | 8"       | X-CUTTER | 1    |
| C13130 | 1"     | X | 21" | 17"      | X-CUTTER | 1    |
| C13132 | 1"     | X | 36" | 31"      | X-CUTTER | 1    |
| C13134 | 1-1/8" | X | 17" | 12"      | X-CUTTER | 1    |
| C13136 | 1-1/8" | X | 21" | 17"      | X-CUTTER | 1    |
| C13138 | 1-1/8" | X | 36" | 31"      | X-CUTTER | 1    |
| C13140 | 1-1/4" | X | 15" | 10"      | X-CUTTER | 1    |
| C13142 | 1-1/4" | X | 23" | 18"      | X-CUTTER | 1    |
| C13144 | 1-3/8" | X | 23" | 18"      | X-CUTTER | 1    |
| C13146 | 1-1/2" | X | 23" | 18"      | X-CUTTER | 1    |
| C13148 | 1-3/4" | X | 23" | 18"      | X-CUTTER | 1    |
| C13150 | 2"     | X | 23" | 18"      | X-CUTTER | 1    |

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For Drop-in Anchors



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| Part # | Size | Drill Depth | Anchor Size | Qty. |
|--------|------|-------------|-------------|------|
| C12100 | 3/8" | 1-1/16"     | 1/4"        | 1    |
| C12102 | 1/2" | 13/16"      | 3/8" Short  | 1    |
| C12104 | 1/2" | 1-11/16"    | 3/8"        | 1    |
| C12106 | 5/8" | 1-3/16"     | 1/2" Short  | 1    |
| C12108 | 5/8" | 2-1/16"     | 1/2"        | 1    |

Half Flat Shank



## Concrete Bits - FOR CONCRETE-SCREWS

| Part # | Size  | x | OAL    | Screw | Qty. |
|--------|-------|---|--------|-------|------|
| R62004 | 5/32" | X | 3-1/2" | 12    | 25   |
| R62005 | 5/32" | X | 4-1/2" | 12    | 25   |
| R62006 | 5/32" | X | 5-1/2" | 12    | 25   |
| R62008 | 3/16" | X | 3-1/2" | 14    | 25   |
| R62003 | 3/16" | X | 4-1/2" | 14    | 25   |
| R62001 | 3/16" | X | 5-1/2" | 14    | 25   |
| R62002 | 3/16" | X | 6-3/4" | 14    | 25   |
| R62009 | 3/16" | X | 7-5/8" | 14    | 25   |

- ◆ Industrial Quality
- ◆ Tungsten Carbide Tip
- ◆ Used for 5/32" Screws and 3/16" Screws

**FOR USE WITH CONCRETE-SCREW SLEEVE**

Each concrete-screw carbide drill bit is precisely ground to match a certain tolerance to assure proper hole diameter and to achieve maximum thread holding power. The flat on the shank fits all drill adapters. The drill bit is specially heat treated to make it very durable.



5/16" HEX SHOULDER

## SDS-HEX Bits - FOR CONCRETE-SCREWS

| Part # | Size  | x | OAL | Drilling | Qty. |
|--------|-------|---|-----|----------|------|
| C19200 | 5/32" | X | 5"  | 2-1/2"   | 1    |
| C19201 | 5/32" | X | 7"  | 4-1/2"   | 1    |
| C19100 | 3/16" | X | 5"  | 2-1/2"   | 1    |
| C19101 | 3/16" | X | 7"  | 4-1/2"   | 1    |



GERMANY

- ◆ Industrial Quality
- ◆ Special Tungsten Carbide Tip
- ◆ Copper / Silver Brazing
- ◆ Polished Finish
- ◆ Used for 5/32" Screws and 3/16" Screws

**FOR USE WITH CONCRETE-SCREW SLEEVE**

SDS-HEX Rotary Hammer drill bits are specifically designed for concrete-screw installation. These SDS bits have a special 5/16" HEX shoulder for direct use with concrete screw installation sleeves, eliminating the need for drill adapters. The benefit of using an SDS-Plus machine instead of a standard rotation drill is 2-3X faster performance, especially in harder concretes. **SEE BELOW FOR INSTALLATION KIT**

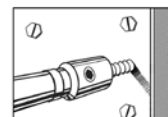
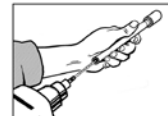
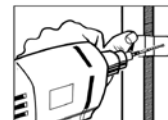
## Installation Kit

**Part #**      **Description**

C99010      Installation Kit

### INCLUDES:

- 5/32" x 7" SDS-PLUS Hex Bit
- 3/16" x 7" SDS-PLUS Hex Bit
- 1/4" Magnetic Driver
- 5/16" Magnetic Driver
- Phillips Bit Adapter
- Masonry Drill Adapter
- 6-1/2" Sleeve
- 1/8" Hex Key
- Phillips #2 x 1" Insert
- Phillips #3 x 1" Insert



- ◆ Red Case
- ◆ Black Hardware

This Installation Kit is Suitable for both Standard Concrete Bits & SDS-HEX Rotary Hammer Bits.

HOW CAN WE HELP YOU...

# capitalize on customs?



How can we help you today?

How many times have you received a request for a custom and had no way to help? Earnest Engineering can manufacture from raw stock to your print specifications, customize an existing part or customize large diameter hex head cap screws from our blank stock inventory in a matter of hours giving you the confidence to turn "I don't know" into "I have a source for that".

Call **800.327.6378** to learn more about how Earnest Engineering and Manufacturing can help you capitalize on customs and provide a deeper level of service to your customers.

### TO PRINT SERVICES

- Engineering consultation
- From raw stock or rework of existing standard parts
- Coating and finishing sourcing
- Drop shipping
- Sales support
- Single purchase order for all services

### QUICK CUSTOM SERVICES

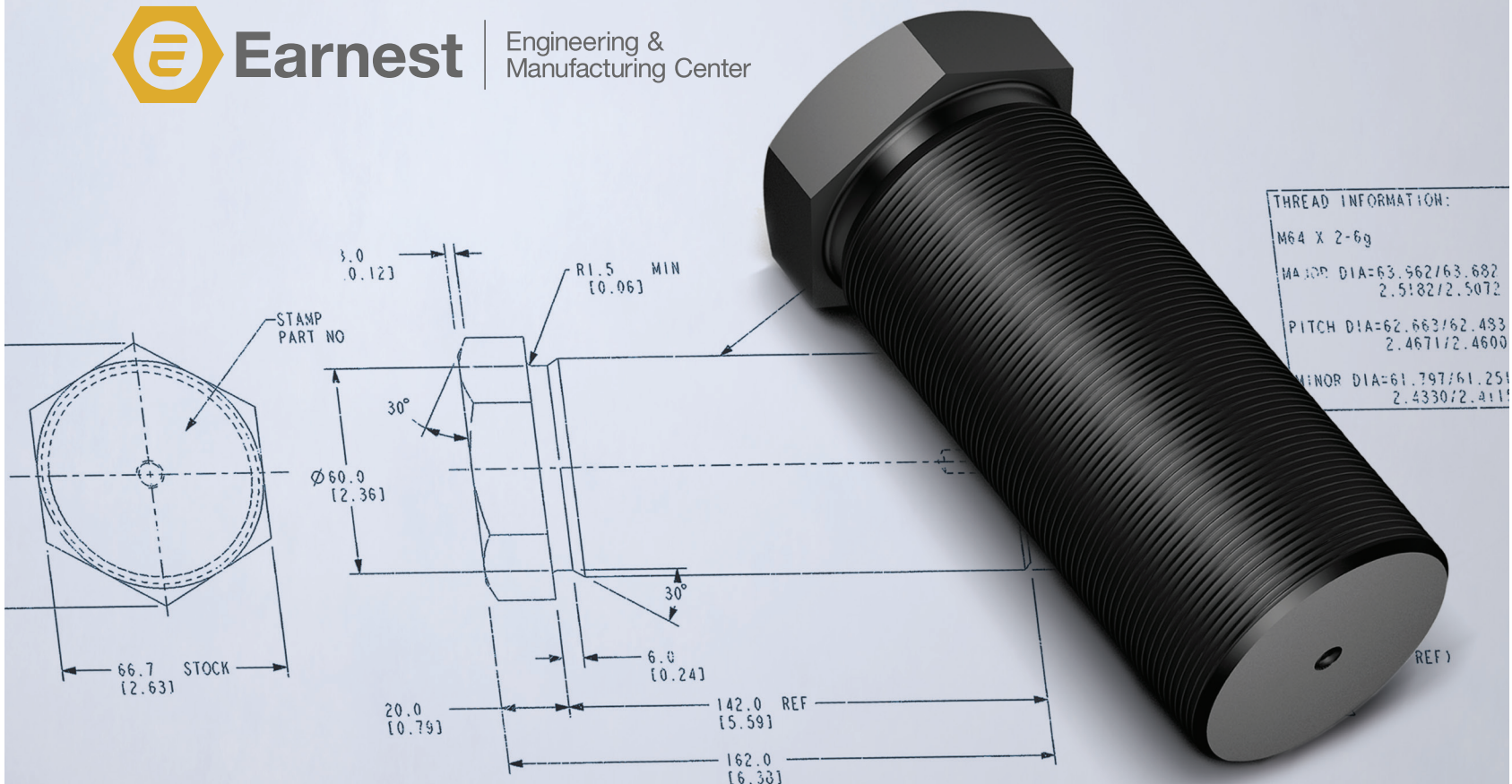
- Inch and metric Hex Head Cap Screws
- #7 Head Plow Bolt blanks
- Square Head blanks
- Rework of existing standard parts
- Custom plating
- Low quantity
- Quick turnaround

### SECONDARY SERVICES

- Cut and chamfer
- Threading
- Drilling
- Broaching
- Boring
- Keyways
- Grinding
- Facing



Engineering & Manufacturing Center







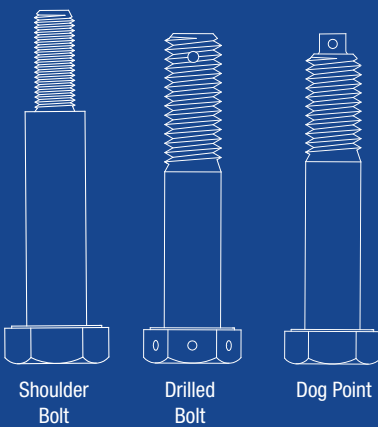
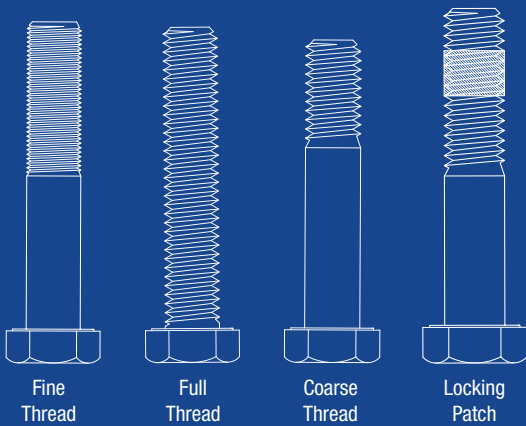
# Earnest

## Engineering & Manufacturing Center

### QUICK CUSTOM SERVICES

- Inch and metric Hex Head Cap Screws
- #7 Head Plow Bolt blanks
- Square Head blanks
- Rework of existing standard parts
- Coarse or fine, full or partial thread
- Custom plating
- Low quantity
- Quick turnaround

### COMMON QUICK CUSTOM CONFIGURATIONS



### HEX HEAD CAP SCREW BLANK STOCK

Inch

| DIAMETER | LENGTH    | GRADE | FINISH |
|----------|-----------|-------|--------|
| 0.875"   | up to 20" | 8     | Plain  |
| 1.00"    | up to 15" | 8     | Plain  |
| 1.25"    | up to 15" | 8     | Plain  |
| 1.50"    | up to 15" | 8     | Plain  |
| 1.75"    | up to 10" | 8     | Plain  |
| 2.00"    | up to 20" | 8     | Plain  |

Metric

| DIAMETER | LENGTH     | GRADE | FINISH |
|----------|------------|-------|--------|
| M30      | up to 425m | 10.9  | Plain  |
| M36      | up to 425m | 10.9  | Plain  |
| M42      | up to 425m | 10.9  | Plain  |

### #7 HEAD PLOW BOLT BLANK STOCK

| DIAMETER | LENGTH    | GRADE | FINISH |
|----------|-----------|-------|--------|
| .625"    | up to 10" | 8     | Plain  |
| .750"    | up to 17" | 8     | Plain  |
| .875"    | up to 17" | 8     | Plain  |
| 1.00"    | up to 17" | 8     | Plain  |
| 1.25"    | up to 8"  | 8     | Plain  |
| 1.50"    | up to 12" | 8     | Plain  |

ASK ABOUT OUR SQUARE HEAD BOLT BLANK STOCK.



# Earnest

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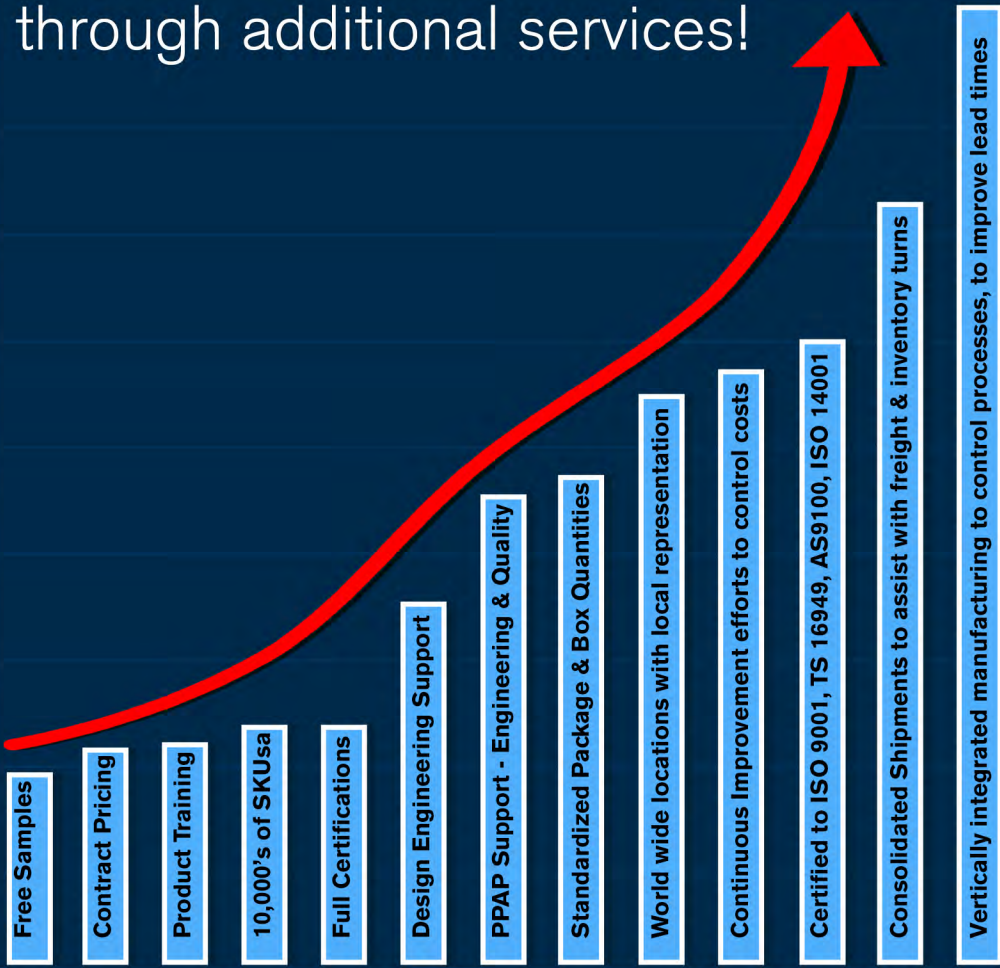


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