



PRESIDENT'S MESSAGE

By Adam Derry

HAPPY NEW YEAR!

I hope everyone had a blessed holiday and got to spend time with loved ones. 2020 was, in many ways, a challenging year for us all, and many are excited heading into 2021 believing that brighter days are ahead. I continue to be inspired by seeing all the resiliency around us: people constantly adapting and finding new ways to do things. I couldn't be more proud of

the resiliency and dedication of the NFDA members, our Board, and newly formed committees. We are truly re-inventing ourselves through the pandemic, and the NFDA Board and committees are working hard every day to find new ways to drive member value without being able to do so face to face.

I want to thank each and every one of you for your ongoing support and commitment to the NFDA. It's been a tough year, but together, we've been able to accomplish a lot. Here are a few of the highlights:

- ◆ We were able to maintain our membership base in 2020 through the pandemic.
- ◆ 330 attendees at our Winter Meeting (joint meeting w the Pac West) which is one of the biggest of all time. We'll continue to do more joint conferences going forward.
- ◆ We'd never done a virtual event before and ended up doing 8 total virtual events in 2020 with a total of 378 total participants.
- ◆ The NFDA donated \$5,600 in Fastener Training Week Scholarships in 2020.

- ◆ We added 12 new members in 2020.
- ◆ More than 92% of members would likely or highly likely recommend the NFDA to a friend (Oct 2020 survey results).
- ◆ The association was profitable in 2020, and has been for each of the last seven years.
- ◆ The Marketing Committee is currently modernizing the NFDA website and are looking at rebranding efforts. Stay tuned!
- ◆ The Member Value Committee created an onboarding/welcoming process for new members to help them get acclimated and begin realizing the value of the NFDA. The committee also is actively working to help grow the NFDA member base in 2021.
- ◆ The Learning Committee has created monthly virtual events in 2021 focused on getting more people within member companies collaborating, learning from one another, and bringing in professional speakers. Stay tuned!
- ◆ The alignment between the NFDA and YFP has never been better; the YFP president is involved in NFDA Board meetings and the YFP Board has representation on each of the NFDA committees.

I want to personally thank each of our Board and committee members (see noted inside) for your hard work and dedication to the NFDA this past year.

I wish you and your families a safe and healthy 2021 and look forward to seeing you at the upcoming virtual events and fingers crossed at face to face events in the fall. If you have any feedback or ideas relative to the NFDA please feel free to reach out to me at adamd@fieldfastener.com or 773-420-8200.

Take care!

**WELCOME NEW
NFDA MEMBERS**

Air Hydro Power
airhydropower.com

Beawest Fasteners, Inc.
beawest.com

Packer Fastener & Supply
packerfastener.com



ASSOCIATE CHAIR'S MESSAGE

By Kelly Charles

Happy New Year, everyone! I hope everyone had safe, enjoyable holidays. I am re-energized and ready for a great 2021.

While it is still too early for us to gather in person, we do have a full slate of educational and networking events to kick off the new year. I hope that you will join us for the events below.

Our February educational event has an operational slant but has a universal theme. This

roundtable event on February 11 will focus on using KPIs to advance the success of your business. Every department can use KPIs to measure progress. Be sure to join us for a roundtable discussion to share best practices. We will have moderators from manufacturers, distributors, and master distributors. This event is no charge.

Our virtual ESPS will be March 3-4. The first day will be an educational summit, in which we are partnering with IFI for the day. We have a full day of roundtables and speakers, including Laurence Claus from IFI and Alex Chausovsky from ITR Economics. There will be a wide variety of topics, I know you will find something that interests you. The second day will be the Executive Sales Planning Sessions® (ESPS®) in a virtual format, with a full day of distributor-scheduled appointments.

We'll have another educational event on March 11. The focus will be on sales/marketing, and the topic is yet to be determined. We are open to suggestions. Please contact me if you have an idea that interests you, or if you have a topic that you would like to facilitate.

We want to make sure these events are timely and valuable to our membership, so your ideas and suggestions are important to us. My direct number is 815-873-6926, or email me at kellyc@semsandspecials.com.

Please continue to stay safe. Looking forward to seeing everyone soon!



**NFDA
CALENDAR**

FEBRUARY 11, 2021 – Operations Webinar – Using KPIs to Measure Your Success

MARCH 3 - 4, 2021 – Virtual Conference & ESPS®

MARCH 11, 2021 – Sales / Marketing Webinar

MARCH 18, 2021 – Virtual CEO Breakfast Roundtable



NFDA FASTENER STANDARDS ACTIVITY UPDATE - Q4 2020

By John Medcalf

2020 has come to a close, and for all the challenges, there are certainly positives to be found as well. Committees like ASME and SAE that had already incorporated remote participation transitioned relatively seamlessly to fully virtual meetings. Some limited teleconferencing had been utilized in the ISO committee previously but going fully remote required coordinating global time

differences and connectivity issues. The ASTM fastener committee had never hosted online meetings previously, and as a result the spring meetings were cancelled. However, the virtual fall meetings were run efficiently and proved quite productive. Indeed, the incorporation of remote participation has many benefits related to reduced travel time and cost, the ability for more subject matter experts to participate, and flexibility in meeting times. However, it cannot be argued that the human element of the meetings has suffered, and many times it is this element that makes discussions most constructive, both for the resulting standards and the

members that are participating. So, while I believe the added virtual element will have ongoing positive effects on the standardization process, I also look forward to the reintroduction of face-to-face meetings. Hopefully sooner rather than later.

Here is a look at some of the current significant projects:

ASTM

The combined zinc-flake coating standard has been published as ASTM F3393 – previously separate ASTM standards were used based on the different proprietary coating systems. Work on ASTM F1941/F1941M on electroplating has begun, and will address many areas including baking requirements, case hardened fastener requirements, and potentially coefficient of friction requirements. The combined inch and metric document for nuts, ASTM A563/A563M is nearing publication, and the structural bolting standard ASTM F3125/F3125M is being reviewed for several updates, including a potential allowance for galvanizing A490 bolts.

ASME

Revision and ballot activity continues on a number of standards, including ASME B18.6.3 on machine screws and tapping screws, ASME B18.2.1 on hex bolts and cap screws, and ASME B18.21.1 on washers.

ISO

Main points of discussion continue to be revisions to ISO 2702 on mechanical properties of tapping screws, the ongoing revision to ISO 898-2 on mechanical properties


of nuts, and beginning development of a standard that will contain mechanical properties for fasteners larger than M39. Future work will also still consider revisions to ISO 898-1 on mechanical properties of externally threaded fasteners, ISO 16047 on torque – tension testing, ISO 15330 on hydrogen embrittlement testing, and ISO 10684 on hot dip galvanizing.

SAE

The main topics continue to be the revision of SAE J1237 on metric thread rolling screws, the revision to SAE J78 on self-drilling screws, with key topics of adding Style 4 and Style 5 points and reducing maximum core hardness, and a comprehensive review of SAE J429 on mechanical properties of externally threaded products.

Please email your standards related comments, concerns, or questions to John at standards@nfda-fastener.org

Communication between NFDA members and the NFDA technical standard representative (the "Representative") through email or otherwise is provided by NFDA as a courtesy to its members. 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 NFDA nor the Representative makes any representation as to whether any statement of the Representative is consistent or compliant with fastener technical standards. Neither 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.

<p>John Medcalf's appointment as the NFDA technical standards representative allows the NFDA membership not just visibility of standards activities, but also a voice in the process.</p> <p>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.</p>	<p>MEMBERS CAN:</p> <ul style="list-style-type: none"> Inquire about changes to drafts noted in quarterly reports Raise suggested revisions or technical updates to standards Ask general standards related questions Offer feedback to continue refinement of these articles 
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MARKET YOUR BUSINESS THROUGH NFDA

Interested in having an insert about your company in the next issue of *NFDA Today*? Contact Amy Nijjar to make the arrangements: amy@nfda-fastener.org or 562-799-5519. You also can view information on our website. Click on Advertising in the menu.

NFDA AWARDS SCHOLARSHIP FOR FASTENER TRAINING



Shanae Cuffy, inventory control specialist for Tower Fasteners Co. (Holtsville, NY) has been awarded an NFDA scholarship for Fastener Training Week, an advanced fastener technical training program produced by the Fastener Training Institute®.

Scholarship applicants were evaluated based on the recommendations from their employers, personal

achievements, work experience, and an essay. Identifying information was redacted so that the team evaluating the applications did not know the names or employers of those applying.

This is a benefit for NFDA members only. The application can be found at www.nfda-fastener.org/FTIScholarship. The next deadline to apply for a Fastener Training Week scholarship is **JUNE 1**.

For more information about Fastener Training Week, visit www.FastenerTraining.org



TRAINING OPPORTUNITIES

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

FASTENER TRAINING WEEK:

- ◆ MARCH 22 - 25, 2021 – HOUSTON
- ◆ MAY 6 - 8, 2021 – CLEVELAND
- ◆ AUGUST 16 - 20, 2021 – CHICAGO
- ◆ NOVEMBER 29 - DECEMBER 3, 2021 – LOS ANGELES

NFDA members receive discounted registration on all FTI classroom seminars. For more information and a list of all FTI events visit FastenerTraining.org.

THANK YOU TO OUR 2020-2021 BOARD MEMBERS

Adam Derry – President - Field
Keven Simmer – Vice President - Wurth DMB Supply
Kelly Charles – Associate Chair - Sems and Specials
Douglas Ruggles – Immediate Past President - Martin Fastening Solutions
Craig Penland – Eurolink Fastener Supply Service
Jon Queenin – Specialty Bolt & Screw Co.
OJ Simpson – Lindfast Solutions Group
Marc Somers – Mid-States Bolt & Screw
Jodie Thinnes – Copper State Bolt & Nut Co.
Bryan Wheeler – Star Stainless

THANK YOU TO OUR 2021 COMMITTEE MEMBERS

LEARNING COMMITTEE

Kelly Charles (Chair) – Sems and Specials
London Penland – Eurolink Fastener Supply Service
Mike Robinson – Vertex Distribution
Jon Queenin – Specialty Bolt & Screw Co.

MARKETING COMMITTEE

Jennifer Ruetz (Chair) – All Integrated Solutions
Warren Brooks – Huron Automatic Screw Company
Mallory Cravens – Advance Components
Craig Penland – Eurolink Fastener Supply Service
Baron Yarborough – Spring Bolt and Nut Manufacturing
Jodie Thinnes – Copper State Bolt & Nut Co.
Kirk Zehnder – Earnest Machine

MEMBER VALUE COMMITTEE

Kameron Dorsey (Chair) – Beacon Fasteners & Components
Craig Beaty – Beawest Fasteners
Adam Derry – Field
Jake Glaser – Sherex Fastening Solutions
Casey McIlhon – Assembled Products
Kevin Miller – Bamal Corporation



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AMY NIJJAR
Executive Vice President
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BBI#	SIZE	DRILL BIT DIA.	MIN. HOLE DEPTH SHALLOW	MIN. HOLE DEPTH DEEP	MIN. EMBEDMENT SHALLOW	MIN. EMBEDMENT DEEP	MAX. TORQUE SHALLOW	MAX. TORQUE DEEP	SPANNER
044103	3/8"x3"	3/8"	2 3/4	3 1/2	-	3 1/4	35	50	9/16
044104	3/8"x4"	3/8"	2 3/4	3 1/2	2 1/2	3 1/4	35	50	9/16
044105	3/8"x5"	3/8"	2 3/4	3 1/2	2 1/2	3 1/4	35	50	9/16
044106	3/8"x6"	3/8"	2 3/4	3 1/2	2 1/2	3 1/4	35	50	9/16
044123	1/2"x4"	1/2"	3 3/8	4 5/8	-	4 1/4	45	65	3/4
044124	1/2"x5"	1/2"	3 3/8	4 5/8	3	4 1/4	45	65	3/4
044125	1/2"x6"	1/2"	3 3/8	4 5/8	3	4 1/4	45	65	3/4
044126	1/2"x6-1/2"	1/2"	3 3/8	4 5/8	3	4 1/4	45	65	3/4
044127	1/2"x8"	1/2"	3 3/8	4 5/8	3	4 1/4	45	65	3/4
044162	5/8"x4"	5/8"	3 5/8	5 3/8	-	5	85	100	15/16
044163	5/8"x5"	5/8"	3 5/8	5 3/8	3 1/4	5	85	100	15/16
044164	5/8"x6"	5/8"	3 5/8	5 3/8	3 1/4	5	85	100	15/16
044165	5/8"x6-1/2"	5/8"	3 5/8	5 3/8	3 1/4	5	85	100	15/16
044166	5/8"x8"	5/8"	3 5/8	5 3/8	3 1/4	5	85	100	15/16
044202	3/4"x4-1/2"	3/4"	4 3/8	6 5/8	-	6 1/4	115	150	1 1/8
044203	3/4"x5"	3/4"	4 3/8	6 5/8	-	6 1/4	115	150	1 1/8
044204	3/4"x5-1/2"	3/4"	4 3/8	6 5/8	-	6 1/4	115	150	1 1/8
044205	3/4"x6"	3/4"	4 3/8	6 5/8	-	6 1/4	115	150	1 1/8
044206	3/4"x6-1/4"	3/4"	4 3/8	6 5/8	4	6 1/4	115	150	1 1/8
044207	3/4"x7"	3/4"	4 3/8	6 5/8	4	6 1/4	115	150	1 1/8
044208	3/4"x8"	3/4"	4 3/8	6 5/8	4	6 1/4	115	150	1 1/8
044209	3/4"x8-1/2"	3/4"	4 3/8	6 5/8	4	6 1/4	115	150	1 1/8
044210	3/4"x10"	3/4"	4 3/8	6 5/8	4	6 1/4	115	150	1 1/8



ICC-ES 4557

Cracked & Uncracked Concrete

APPROVED FOR USE IN

Static, Wind, & Seismic

CODE LISTED

IBC/IRC In Accordance with ICC-ES AC 193 & ACI 355.2

CODE COMPLIANCE

IBC 2018, 2015, 2013, 2009
IRC 2018, 2015, 2013, 2009

LABC 2017

CBC 2019, 2016

CRC 2019, 2016

FBC 2017



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1 - 8 0 0 - 2 7 5 - 0 0 5 0



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- Pilot hole required; thread is created by the anchor during the installation process.
- No special drill bit required; install using standard-sized ANSI tolerance drill bits.
- Code listed under IBC/IRC in accordance with ICC-ES AC193 and ACI 355.2 for cracked and uncracked concrete.
- Qualified for static, wind and seismic loading conditions
- Use for heavy duty loads.
- Anchor drill bit / length stamped on head of each anchor.
- Removable, leaving concrete surface flat. Ideal for temporary anchoring (e.g. formwork, bracing) or applications where fixtures may need to be moved.
- Suitable when reduced edge distances or spacing is required.
- Zinc plated coating.
- Triple thread makes installation more stable; patented thread design.
- High characteristic loads in both cracked and uncracked concrete.
- All listed sizes meet **Category 1 Seismic Zone Qualification – Tension Zone – Cracked Concrete.**



APPLICATIONS

- Structural fastenings in cracked and uncracked concrete in indoor conditions
- Formwork and fastening
- Racking and shelving
- Attaching railings, handrails and ledgers
- Fastenings of steel beams, channels, boilers, signals, stadium seatings, façade substructures, etc



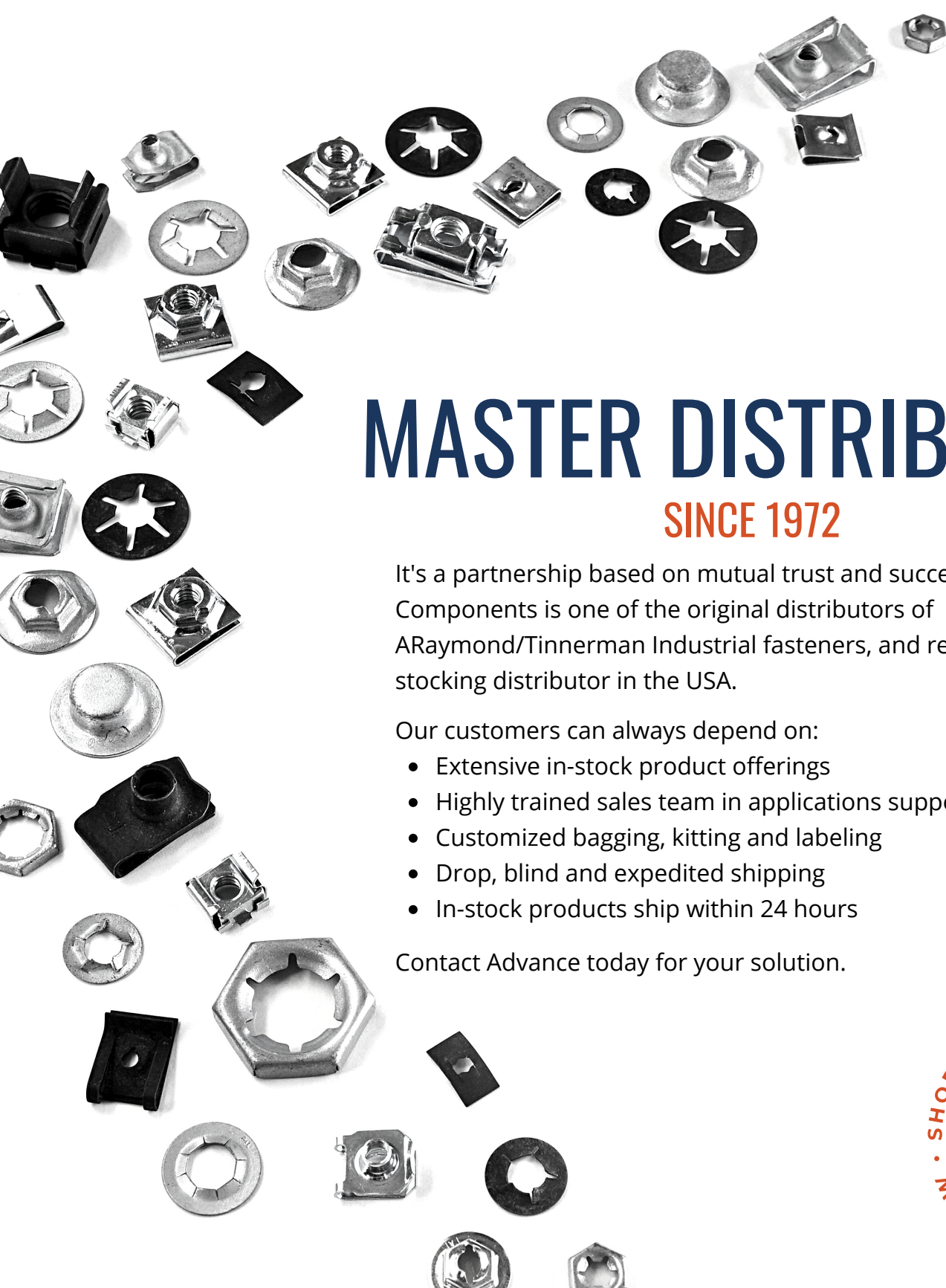
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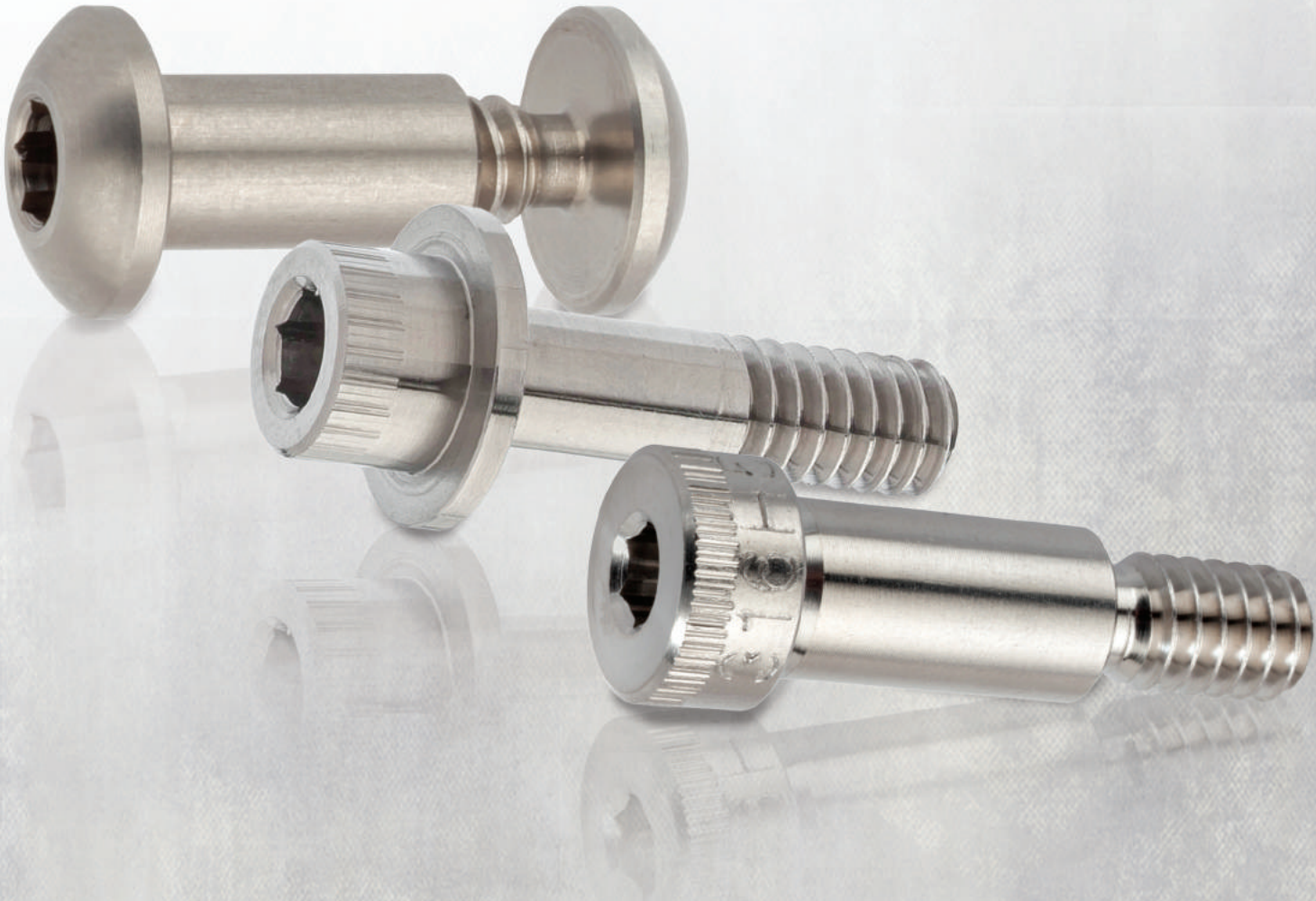
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5
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COST SAVINGS
TO CUSTOMERS



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FOR 10 YEARS



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TO START A DISCUSSION CONTACT
Adam Derry, Chief Customer Officer

DIRECT LINE
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EMAIL
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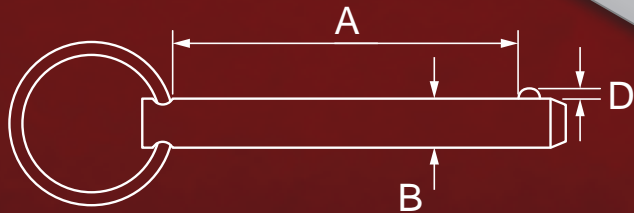


NEW

Expanded Selection

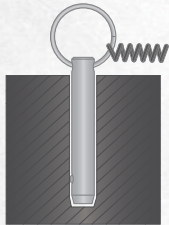
G.L. Huyett now offers over 160 sizes of detent pins.

**Great Prices
Low Minimums**

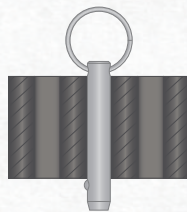


Applications

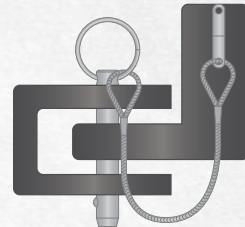
Designed for use in temporary quick disconnect operations. Detent pins have a ball bearing on one end with a steel spring that depresses and springs out to lock the pin into place. Detent pins are used:



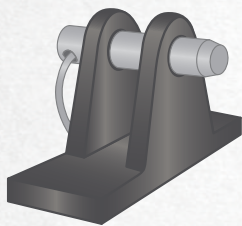
As spring retainers



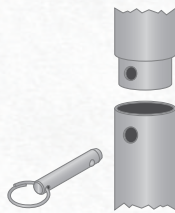
As locator pins to position a workpiece



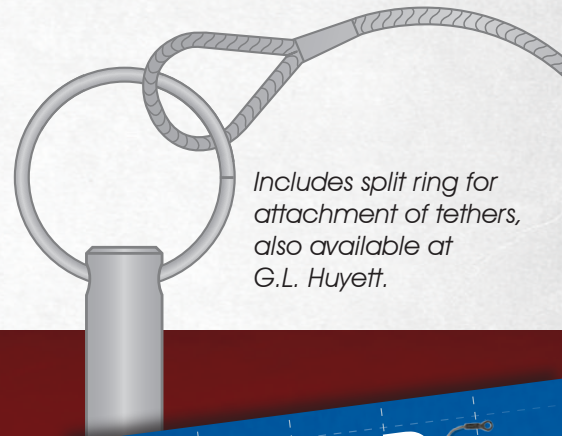
As hitch pins



On sailboats in combination with tie-downs

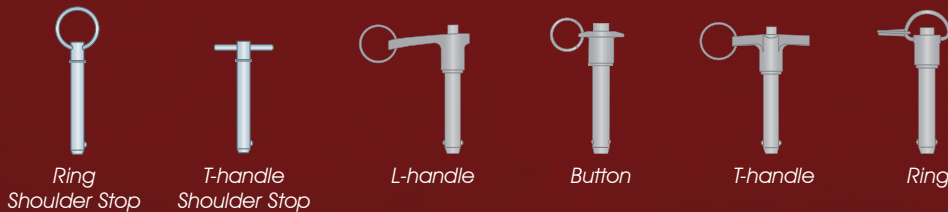


To connect two poles



Includes split ring for attachment of tethers, also available at G.L. Huyett.

Self-Locking Pin Options

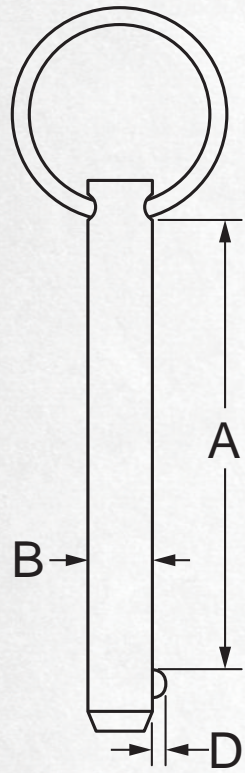


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G.L. Huyett stocks over 35 Nylon and Steel Tethers.

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Detent Pins



Detent Pins are also called:

- cotterless pins
- fast pins
- ring grip pins
- quick release pins
- Faspins®
- self-locking pins
- cotterless hitch pins
- detent hitch pins
- detent ring pins
- cotterless ring pins

NEW	Stainless Steel	Zinc Clear	Item Number	B	A	D
DTPS	DTP	187-500	0.187	0.500	0.017	
DTPS	-	187-600	0.187	0.600	0.017	
-	DTP	187-812	0.187	0.812	0.017	
DTPS	DTP	187-1000	0.187	1.000	0.017	
DTPS	DTP	187-1500	0.187	1.500	0.017	
-	DTP	187-1812	0.187	1.812	0.017	
DTPS	DTP	187-2000	0.187	2.000	0.017	
-	DTP	187-2312	0.187	2.312	0.017	
-	DTP	187-2500	0.187	2.500	0.017	
-	DTP	187-2812	0.187	2.812	0.017	
NEW	DTPS	DTP	187-3000	0.187	3.000	0.017
-	DTPS	-	250-400	0.250	0.400	0.036
-	DTP	250-500	0.250	0.500	0.036	
DTPS	DTP	250-750	0.250	0.750	0.036	
DTPS	DTP	250-1000	0.250	1.000	0.036	
-	DTP	250-1250	0.250	1.250	0.036	
DTPS	DTP	250-1500	0.250	1.500	0.036	
DTPS	DTP	250-1750	0.250	1.750	0.036	
DTPS	-	250-1800	0.250	1.800	0.036	
DTPS	DTP	250-2000	0.250	2.000	0.036	
-	DTP	250-2250	0.250	2.250	0.036	
DTPS	DTP	250-2500	0.250	2.500	0.036	
-	DTP	250-2750	0.250	2.750	0.036	
NEW	DTPS	DTP	250-3000	0.250	3.000	0.036
-	DTP	250-3250	0.250	3.250	0.036	
-	DTP	250-3500	0.250	3.500	0.036	
-	DTP	250-3750	0.250	3.750	0.036	
-	DTP	250-4000	0.250	4.000	0.036	
-	DTP	250-4250	0.250	4.250	0.036	
-	DTP	250-4750	0.250	4.750	0.036	
-	DTP	312-625	0.312	0.625	0.047	
-	DTP	312-750	0.312	0.750	0.047	
DTPS	DTP	312-1000	0.312	1.000	0.047	
-	DTP	312-1125	0.312	1.125	0.047	
-	DTP	312-1250	0.312	1.250	0.047	
-	DTP	312-1500	0.312	1.500	0.047	
-	DTP	312-1625	0.312	1.625	0.047	
DTPS	DTP	312-2000	0.312	2.000	0.047	
-	DTP	312-2125	0.312	2.125	0.047	
DTPS	DTP	312-2500	0.312	2.500	0.047	
-	DTP	312-2625	0.312	2.625	0.047	
DTPS	DTP	312-3000	0.312	3.000	0.047	
-	DTP	312-3125	0.312	3.125	0.047	
-	DTP	312-3500	0.312	3.500	0.047	
-	DTP	312-3625	0.312	3.625	0.047	
-	DTP	312-4000	0.312	4.000	0.047	
-	DTP	312-4125	0.312	4.125	0.047	
-	DTP	312-4625	0.312	4.625	0.047	
-	DTP	312-5000	0.312	5.000	0.047	
-	DTP	312-5125	0.312	5.125	0.047	
-	DTP	312-5500	0.312	5.500	0.047	
-	DTP	312-6000	0.312	6.000	0.047	
-	DTP	375-500	0.375	0.500	0.051	
-	DTP	375-625	0.375	0.625	0.051	
-	DTP	375-750	0.375	0.750	0.051	
NEW	DTPS	DTP	375-1000	0.375	1.000	0.051
NEW	-	DTP	375-1300	0.375	1.300	0.051
DTPS	DTP	375-1500	0.375	1.500	0.051	
DTPS	DTP	375-1625	0.375	1.625	0.051	
-	DTP	375-1750	0.375	1.750	0.051	
NEW	DTPS	DTP	375-2000	0.375	2.000	0.051
-	DTP	375-2125	0.375	2.125	0.051	
-	DTP	375-2500	0.375	2.500	0.051	
-	DTP	375-2625	0.375	2.625	0.051	

Stainless Steel	Zinc Clear	Item Number	B	A	D	
DTPS	DTP	375-3000	0.375	3.000	0.051	
-	DTP	375-3125	0.375	3.125	0.051	
DTPS	DTP	375-3500	0.375	3.500	0.051	
-	DTP	375-3625	0.375	3.625	0.051	
NEW	DTPS	DTP	375-4000	0.375	4.000	0.051
-	DTP	375-4125	0.375	4.125	0.051	
NEW	DTPS	DTP	375-4500	0.375	4.500	0.051
-	DTP	375-4625	0.375	4.625	0.051	
NEW	DTPS	DTP	375-5000	0.375	5.000	0.051
-	DTP	375-5125	0.375	5.125	0.051	
-	DTP	375-6000	0.375	6.000	0.051	
-	DTP	437-562	0.437	0.562	0.059	
-	DTP	437-1000	0.437	1.000	0.059	
-	DTP	437-1062	0.437	1.620	0.059	
-	DTP	437-1500	0.437	1.500	0.059	
-	DTP	437-1562	0.437	1.562	0.059	
-	DTP	437-2000	0.437	2.000	0.059	
-	DTP	437-2062	0.437	2.062	0.059	
-	DTP	437-2500	0.437	2.500	0.059	
-	DTP	437-2562	0.437	2.562	0.059	
-	DTP	437-3000	0.437	3.000	0.059	
-	DTP	437-3062	0.437	3.062	0.059	
-	DTP	437-3500	0.437	3.500	0.059	
-	DTP	437-3562	0.437	3.562	0.059	
-	DTP	437-4000	0.437	4.000	0.059	
-	DTP	437-4062	0.437	4.062	0.059	
-	DTP	437-4500	0.437	4.500	0.059	
-	DTP	437-4562	0.437	4.562	0.059	
-	DTP	437-5000	0.437	5.000	0.059	
-	DTP	437-5062	0.437	5.062	0.059	
DTPS	DTP	500-1000	0.500	1.000	0.070	
DTPS	DTP	500-1500	0.500	1.500	0.070	
DTPS	-	500-1700	0.500	1.700	0.070	
NEW	DTPS	DTP	500-2000	0.500	2.000	0.070
-	DTP	500-2300	0.500	2.300	0.070	
NEW	DTPS	DTP	500-2500	0.500	2.500	0.070
NEW	DTPS	DTP	500-3000	0.500	3.000	0.070
NEW	DTPS	DTP	500-3500	0.500	3.500	0.070
-	DTPS	DTP	500-4000	0.500	4.000	0.070
-	DTP	500-4500	0.500	4.500	0.070	
-	DTP	500-5000	0.500	5.000	0.070	
-	DTP	500-5500	0.500	5.500	0.070	
-	DTP	500-6000	0.500	6.000	0.070	
-	DTP	500-7000	0.500	7.000	0.070	
-	DTP	625-1000	0.625	1.000	0.085	
-	DTP	625-2000	0.625	2.000	0.085	
NEW	-	DTP	625-2500	0.625	2.500	0.085
NEW	DTPS	DTP	625-3000	0.625	3.000	0.085
-	DTP	625-3500	0.625	3.500	0.085	
-	DTPS	DTP	625-4000	0.625	4.000	0.085
NEW	-	DTP	625-5000	0.625	5.000	0.085
-	DTP	625-6000	0.625	6.000	0.085	
-	DTP	625-8000	0.625	8.000	0.085	
-	DTP	750-1750	0.750	1.750	0.106	
NEW	DTPS	DTP	750-2000	0.750	2.000	0.106
-	DTP	750-2500	0.750	2.500	0.106	
NEW	-	DTP	750-3000	0.750	3.000	0.106
-	DTP	750-3500	0.750	3.500	0.106	
-	DTP	750-4000	0.750	4.000	0.106	
NEW	-	DTP	750-4500	0.750	4.500	0.106
-	DTP	750-5000	0.750	5.000	0.106	
-	DTP	750-6000	0.750	6.000	0.106	
-	DTP	750-7000	0.750	7.000	0.106	
-	DTP	750-8000	0.750	8.000	0.106	

