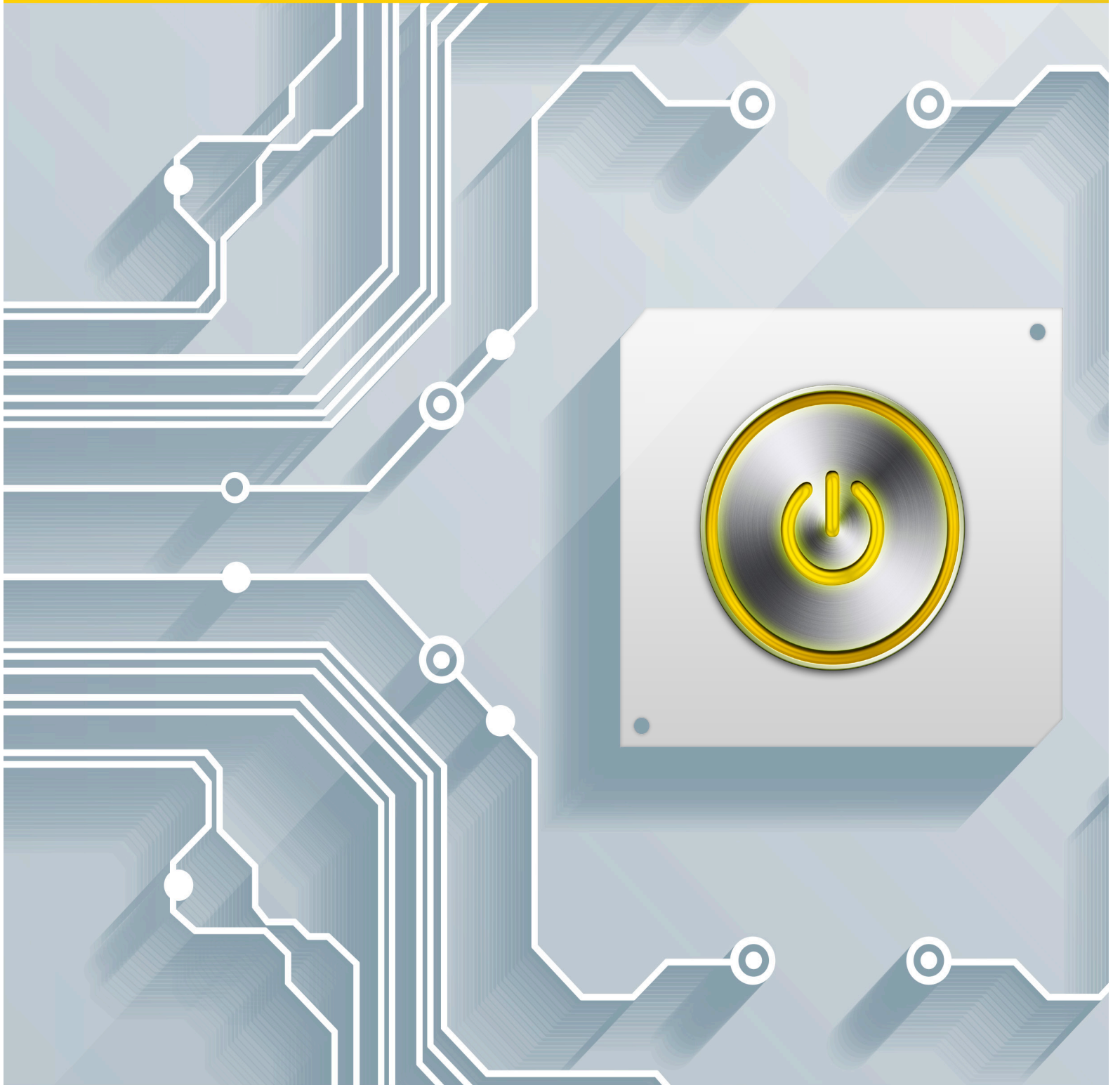


**STANLEY**<sup>®</sup>  
Engineered Fastening



# Electronics Engineered Standards

Preferred Performance Designs



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STANLEY Engineered Fastening, a Stanley Black & Decker Inc. company is a global leader in the design, manufacture and supply of innovative fasteners and installation systems.

STANLEY Engineered Fastening's Global Electronics Group is a specialist in micro-mechanical fastening solutions, from miniature threaded fasteners, inserts and standoffs, to performance coatings and cosmetic finishes. We create the standards and innovations that enable cost ef-

fective, enhanced product performance in consumer electronics devices, telecommunications and networking equipment.

Stanley Black & Decker, an S&P 500 company, is a diversified global provider of hand tools, power tools and related accessories, mechanical access solutions and electronic security solutions, engineered fastening systems, infrastructure solutions and more.



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# contents/electronicStandards

## INNOVATION

- **NEW** Wafer Head Standards
- **NEW** NeoSpeed® Fastening System

## RANGE OVERVIEW

- Electronics Standards

## PRODUCTS

- Threaded Products
- Riveting Systems
- Inserts, Press Nuts and Standoffs
- Gemstone™ Performance Coatings and Finishes
- Special Custom Products

## TOOLING

- Rivet Tooling
- Rivet Automation
- Threaded Parts Automation
- Drive Bits

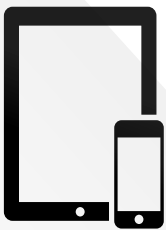
## ENGINEERING SERVICES

- Rapid Design and Prototyping
- Technical Support
- Customization

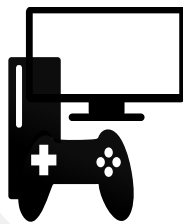
## SAMPLE KITS

- Electronics Standards Kit
- Drive Bit Kit
- Preferred Performance Design™ Kit

# applicationkey/



MOBILE MEDIA



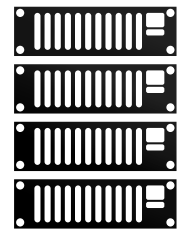
HOME MEDIA



COMPUTING



STORAGE



ENCLOSURES

Look for the application key at the bottom of each product page for an indication of the typical markets products where are used. Follow the demo links to view product installation animations or click on any part number to access 2D prints and 3D CAD models for download.

If you have application questions for any of the products in the STANLEY Engineered Fastening portfolio please feel free to [CONTACT US](#).



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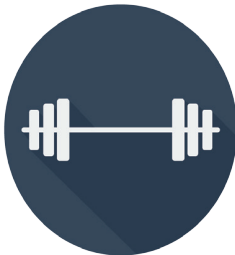
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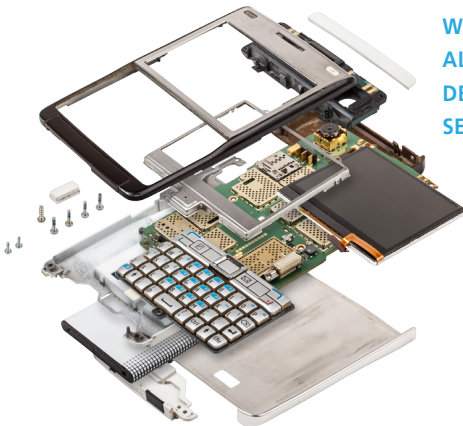
UP TO 12% LIGHTER THAN STANDARD PAN HEAD SCREWS



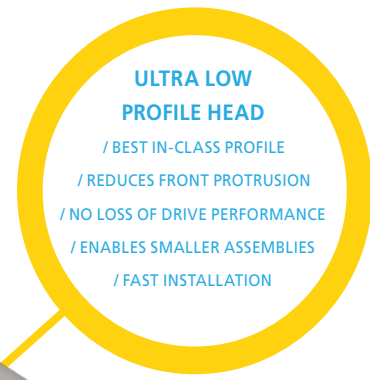
ECO-FRIENDLY - 12% LESS MATERIAL IN THE HEAD THAN STANDARD PAN HEAD SCREWS



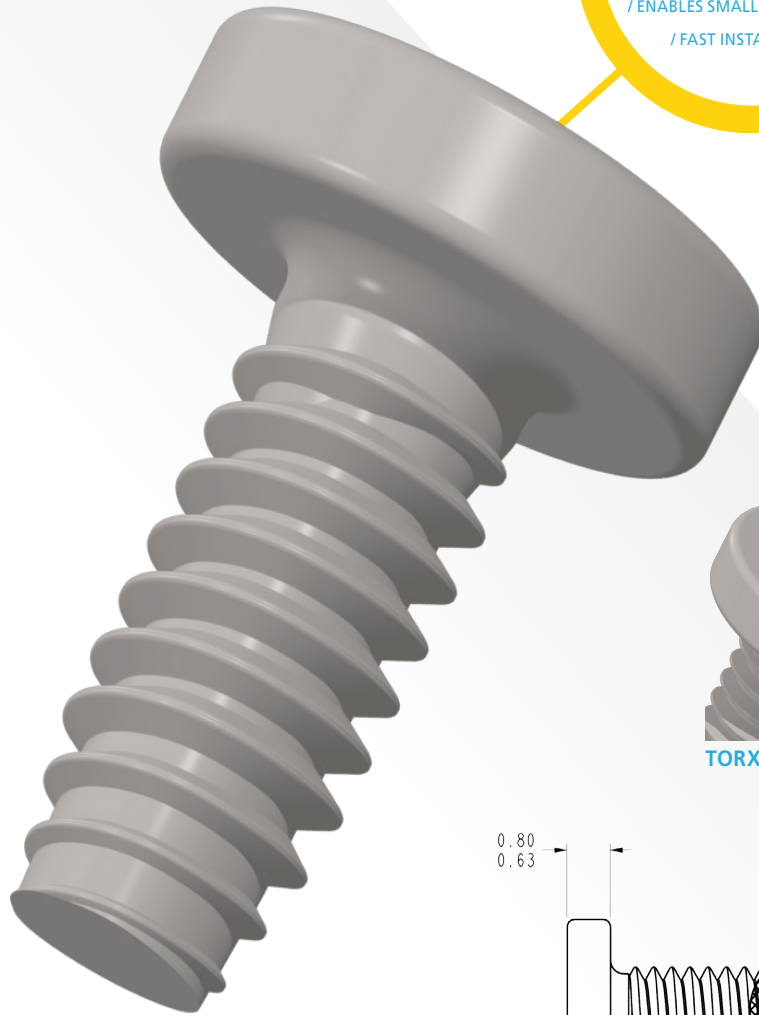
STRONG DRIVE RECESS PERFORMANCE



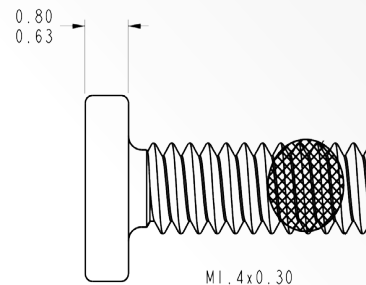
WAFFER HEAD PROFILE ALLOWS FOR MORE CONDENSED, SMALLER ASSEMBLIES



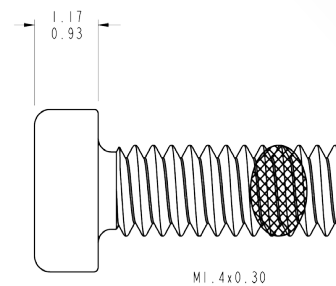
**ULTRA LOW PROFILE HEAD**  
/ BEST IN-CLASS PROFILE  
/ REDUCES FRONT PROTRUSION  
/ NO LOSS OF DRIVE PERFORMANCE  
/ ENABLES SMALLER ASSEMBLIES  
/ FAST INSTALLATION



TORX PLUS® DRIVE



WAFFER HEAD PROFILE

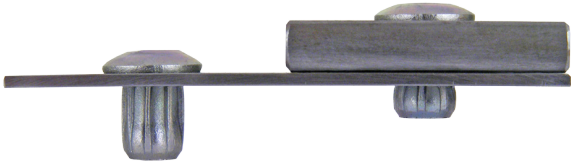


STANDARD PAN HEAD PROFILE

# NEW WAFFER HEAD STANDARDS



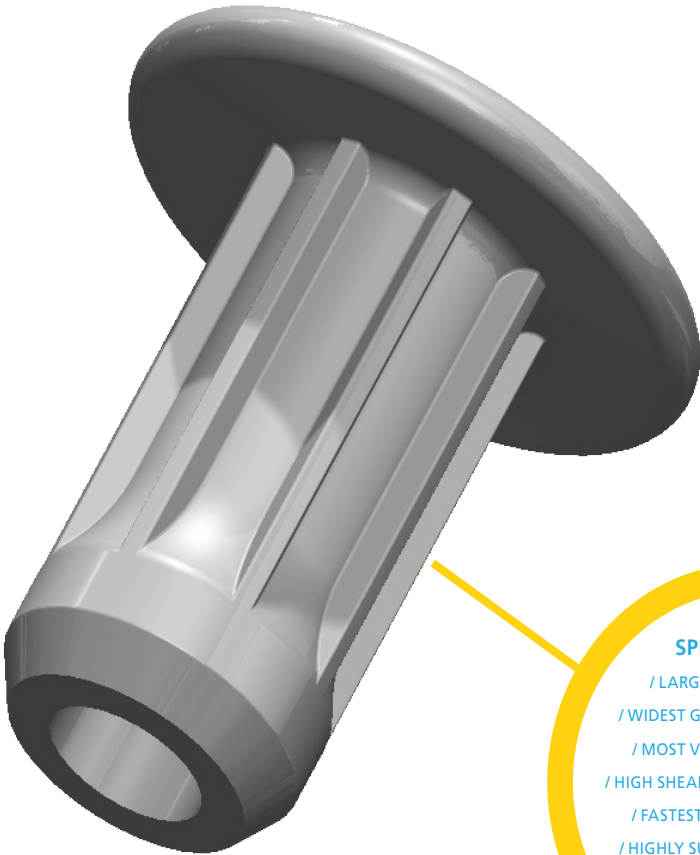
**UP TO 60% LIGHTER THAN CONVENTIONAL RIVETS OR SCREWS**



**WIDEST GRIP RANGE OF ANY NON-STRUCTURAL RIVET**



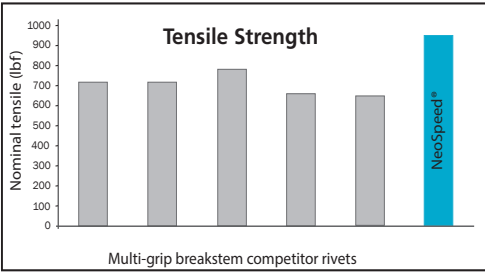
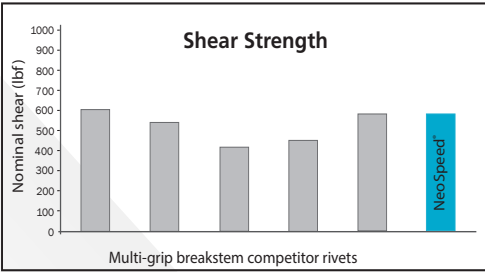
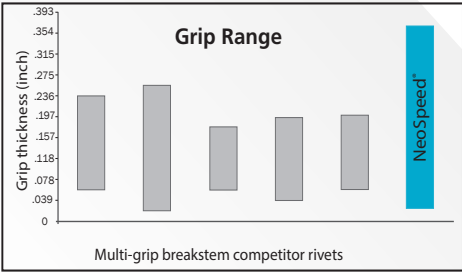
**UP TO 4X GREATER THROUGHPUT THAN CONVENTIONAL RIVETS OR SCREWS**



**ECO-FRIENDLY - ZERO WASTE MATERIAL AND USES 56% LESS MATERIAL THAN CONVENTIONAL RIVETS**




















**SPLINE DESIGN**

- / LARGE HOLE TOLERANCE
- / WIDEST GRIP RANGE IN ITS CLASS
- / MOST VERSATILE IN ITS CLASS
- / HIGH SHEAR AND TENSILE STRENGTH
- / FASTEST INSTALLATION TIMES
- / HIGHLY SUITED TO AUTOMATION
- / IMPROVED PRODUCTIVITY
- / EASY SPECIFICATION






# NEW NEOSPEED<sup>®</sup> FASTENER

# RANGE OVERVIEW

Product Type	Name/Brand	Description	Pg #
<b>THREADED PRODUCTS</b>			
Thread Forming Metal	<a href="#">Crimptite®</a>	 Anti-vibration and strip-out resistant thread forming screws for sheet metal	<a href="#">8-9</a>
	<a href="#">Mag-Form®</a>	 Thread forming screws for magnesium	<a href="#">10-11</a>
	<a href="#">Taptite 2000®</a>	 High performance thread rolling screws	<a href="#">12-13</a>
Thread Forming Plastic	<a href="#">Delta PT®</a>	 Thread forming screws for plastic and composite materials	<a href="#">14-15</a>
Machine Screws	<a href="#">Machine Screw with Patch</a>	 Torx Plus® miniature machine screws with locking patch	<a href="#">16-17</a>
SEMS (Captive Washer)	<a href="#">Machine Screw SEMS with Patch</a>	 Torx Plus® miniature machine screws with captive washer and patch	<a href="#">18-19</a>
<b>RIVETING SYSTEMS</b>			
Speed Fastening®	<a href="#">Double Flush Chobert®</a>	 Double countersunk Speed Fastening® rivet for minimal protrusion and high speed assembly	<a href="#">20-21</a>
	<a href="#">NeoSpeed®</a>	 Speed fasteners for ultimate strength and versatile assembly	<a href="#">22-23</a>
	<a href="#">RivscREW®</a>	 Threaded, removable Speed Fastening® rivet	<a href="#">24-25</a>
	<a href="#">RivscREW® PL</a>	 Threaded, removable Speed Fastening® rivet for plastics	<a href="#">26-27</a>
Breakstem Rivets	<a href="#">Avibulb® and Avinox®</a>	 High performance bulbing rivets, ideal for thin sheet applications	<a href="#">28-29</a>
	<a href="#">Closed End Rivet</a>	 Fully sealed rivet eliminates ingress of moisture, water and debris	<a href="#">30-31</a>
	<a href="#">Micro Rivets</a>	 Open end rivets in micro 2mm diameter	<a href="#">32-33</a>
	<a href="#">Pull Thru (PT) Rivet</a>	 Double countersunk rivet for minimal protrusion	<a href="#">34-35</a>
<b>INSERTS / CLINCH PRODUCTS</b>			
Inserts	<a href="#">Miniature Inserts</a>	 Brass and stainless inserts for high volume, low cost assembly	<a href="#">36-37</a>
Press Nuts	<a href="#">Press Nuts</a>	 Performance load bearing threads in thin sheet materials	<a href="#">38-39</a>
Standoffs	<a href="#">Ultra Standoff</a>	 Mount and space materials in applications with limited space	<a href="#">40-41</a>
<b>GEMSTONE - PERFORMANCE COATINGS AND FINISHES</b>			
Performance Coatings	<a href="#">ACU® Coat</a>	 Environmentally compliant, Pantone® matching, performance eco-coating	<a href="#">42</a>
	<a href="#">Optia®</a>	 Thin-film, lubricious polymer coating for cleanliness and torque control	<a href="#">43</a>



Click this icon to return to the range overview at anytime whilst navigating this e-catalogue

Product Type	Name/Brand		Description	Pg #
Cosmetic Finishes	<a href="#">CNC Machine Finishes</a>		Range of proprietary machine finishes for cosmetic applications	<a href="#">44</a>
	<a href="#">PVD</a>		Physical Vapor Deposition coatings for ultimate corrosion and wear resistance in cosmetic applications	<a href="#">45</a>
<b>TOOLING AND AUTOMATION</b>				
Hand Tools	<a href="#">Breakstem Rivet Tools</a>		Rivet installation tooling	<a href="#">46</a>
	<a href="#">Speed Fastening® Tools</a>		Installation tooling for Speed Fastening® systems	<a href="#">47</a>
Automation	<a href="#">Rivet Automation</a>		Automation solutions for rivets and Speed Fastening®	<a href="#">48-49</a>
	<a href="#">Threaded Automation</a>		Fast, precise, reliable and cost-effective automation for electronics and small parts assembly	<a href="#">50-51</a>
Drive Systems	<a href="#">Ultra HD Drive Bits</a>		Ultra HD drive bits provide best-in-class performance and include the advanced iSymm® drive alignment feature	<a href="#">52-53</a>
<b>SPECIALS</b>				
Custom Components	<a href="#">Cold Formed Specials</a>		Proprietary cold forming to reduce component cost and complexity	<a href="#">54</a>
	<a href="#">Precision CNC</a>		Advanced CNC machining for specialist components and materials	<a href="#">55</a>
	<a href="#">Micro Stampings</a>		Precision micro-stamped components	<a href="#">56</a>
	<a href="#">Pins</a>		Special pins and hinge pins for variety of applications	<a href="#">57</a>
	<a href="#">Tape and Reel</a>		Miniatures inserted in tape and reels for high volume assembly	<a href="#">57</a>
<b>ENGINEERING, SERVICES &amp; DESIGN KITS</b>				
Prototype & Design Kits	<a href="#">Electronics Standards</a>		Electronic Standards fastener and component samples	<a href="#">58</a>
	<a href="#">Drive Bit</a>		Electronics Standards Drive Bit kit featuring Torx Plus® drive bits with iSymm® drive alignment feature	<a href="#">58</a>
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Engineering Services	<a href="#">Technical Support</a>		Full VAVE, teardown, design & application engineering services	<a href="#">60</a>
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If you have application questions for any of the products in the STANLEY Engineered Fastening portfolio please [CONTACT US](#).

Find more information, animations and interactive content @ [StanleyEngineeredFastening.com](https://www.StanleyEngineeredFastening.com)



# CRIMPTITE®

Unmatched performance against strip-out and vibration loosening in thin sheet metal applications



## Overview

Crimptite® fasteners are engineered to minimize strip-out and provide maximum thread engagement, resulting in greater joint integrity. Under head serrations offer exceptional resistance to strip-out and rotation by locking into the application surface. During the installation process, material is drawn up under the head creating more surface area in thin sheets for greater thread engagement.

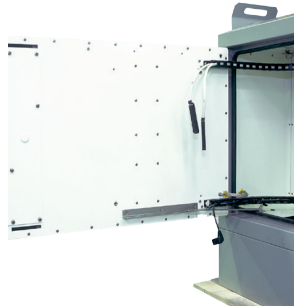
## Features and Benefits

- / Undercut washer head
- / Shank is threaded into undercut area
- / Provides higher drive-to-strip ratios than other sheet metal screws
- / Increases resistance to strip-out
- / Increases resistance to vibration loosening
- / Provides reliable performance after removal and reinsertion
- / Lowers scrap, rework and in-place costs
- / Allows use of lighter gauge sheet metals
- / Can be used as repair screws where standard sheet metal screws have stripped out
- / Serrations break paint on the application surface for superior performance in grounding applications

## Assembly Applications



ELECTRONIC ENCLOSURES



TELECOMS CABINETS



applicable markets /



DEMO



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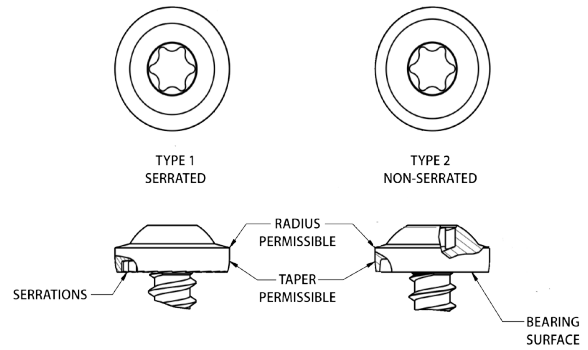
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# CRIMPTITE®

## Specifications

- / Sizes: M2.9 – M4.8
- / Head Styles: Round Washer
- / Drive System: TORX PLUS®
- / Material: Carbon steel
- / Heat Treat: Case hardened
- / Finish: Acu® Black Eco-Coating



Size	Part Number	Head Style	Drive Size
<b>SERRATED UNDER HEAD</b>			
M2.9 X 1.06 X 9.5mm	<a href="#">3ES-R8102-00</a>	Round Washer	10IP
M3.5 X 1.27 X 13mm	<a href="#">3ES-R8104-00</a>	Round Washer	15IP
M4.2 X 1.41 X 16mm	<a href="#">3ES-R8106-00</a>	Round Washer	20IP
M4.8 X 1.59 X 16mm	<a href="#">3ES-R8108-00</a>	Round Washer	25IP
<b>SMOOTH UNDER HEAD</b>			
M2.9 X 1.06 X 9.5mm	<a href="#">3ES-R8202-00</a>	Round Washer	10IP
M3.5 X 1.27 X 13mm	<a href="#">3ES-R8204-00</a>	Round Washer	15IP
M4.2 X 1.41 X 16mm	<a href="#">3ES-R8206-00</a>	Round Washer	20IP
M4.8 X 1.59 X 16mm	<a href="#">3ES-R8208-00</a>	Round Washer	25IP



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# MAG-FORM®

Maximizes performance tapping into magnesium die-castings and other low ductile materials

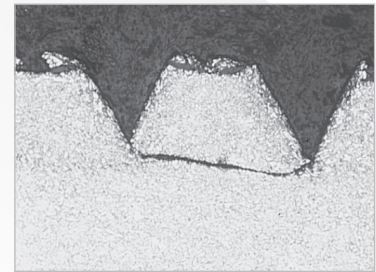
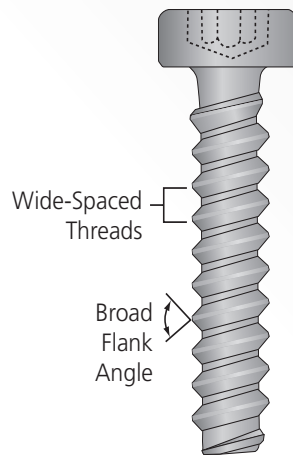


## Overview

Mag-Form® fasteners are specifically designed with a broader flank angle to eliminate tapping operations while forming strong threads in conventional magnesium die-castings and similar materials. The design also minimizes debris, making Mag-Form® fasteners the optimal solution for critical applications in electronic components.

## Features and Benefits

- / Lobular configuration
- / Wide-spaced thread design
- / Broad flank angle compresses rather than roll-forms threads into the mating material
- / Minimizes debris generation
- / Forms strong threads in low-ductile materials
- / Can be removed and reinserted with minimal debris generation



**STANDARD 60° FLANK ANGLE THREAD FORMING FASTENERS**  
May exceed ductility limit of the material, damaging formed threads

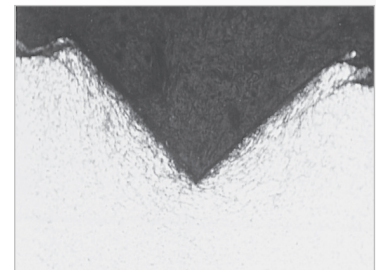
## Assembly Applications



**CAMERA HOUSING**



**LAPTOPS**



**MAG-FORM® THREAD FORMING FASTENERS** Compressive action forms strong threads in low-ductile materials



applicable markets /



DEMO



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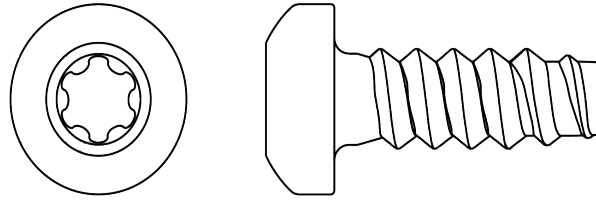
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# MAG-FORM®

## Specifications

- / Sizes: M1.2 – M4
- / Head Styles: Pan, Wafer
- / Drive System: TORX PLUS® Drive
- / Material: Low carbon steel
- / Heat treat: Through hardened
- / Finish: Acu® Black Eco-Coating



Size	Part Number	Head	Drive Size
<b>MG1.2 (1.2MM DIAMETER)</b>			
MG1.2-0.50 x 3mm	<a href="#">3ES-W8500-00</a>	Wafer	3IP
MG1.2-0.50 x 6mm	<a href="#">3ES-W8501-00</a>	Wafer	3IP
<b>MG1.4 (1.4MM DIAMETER)</b>			
MG1.4-0.60 x 3mm	<a href="#">3ES-W8502-00</a>	Wafer	3IP
MG1.4-0.60 x 6mm	<a href="#">3ES-W8503-00</a>	Wafer	3IP
<b>MG1.6 (1.6MM DIAMETER)</b>			
MG1.6-0.70 x 3mm	<a href="#">3ES-P873-00</a>	Pan	6IP
MG1.6-0.70 x 5mm	<a href="#">3ES-P856-00</a>	Pan	6IP
MG1.6-0.70 x 8mm	<a href="#">3ES-P858-00</a>	Pan	6IP
<b>MG2 (2MM DIAMETER)</b>			
MG2.0-0.80 x 5mm	<a href="#">3ES-P861-00</a>	Pan	6IP
MG2.0-0.80 x 6mm	<a href="#">3ES-P862-00</a>	Pan	6IP
MG2.0-0.80 x 8mm	<a href="#">3ES-P863-00</a>	Pan	6IP
MG2.0-0.80 x 10mm	<a href="#">3ES-P864-00</a>	Pan	6IP
<b>MG2.5 (2.5MM DIAMETER)</b>			
MG2.5-0.90 x 6mm	<a href="#">3ES-P806-00</a>	Pan	8IP
MG2.5-0.90 x 8mm	<a href="#">3ES-P807-00</a>	Pan	8IP
MG2.5-0.90 x 10mm	<a href="#">3ES-P805-00</a>	Pan	8IP

Size	Part Number	Head	Drive Size
<b>MG3 (3MM DIAMETER)</b>			
MG3.0-1.00 x 8mm	<a href="#">3ES-P869-00</a>	Pan	10IP
MG3.0-1.00 x 10mm	<a href="#">3ES-P870-00</a>	Pan	10IP
MG3.0-1.00 x 12mm	<a href="#">3ES-P871-00</a>	Pan	10IP
MG3.0-1.00 x 15mm	<a href="#">3ES-P872-00</a>	Pan	10IP
<b>MG4 (4MM DIAMETER)</b>			
MG4.0-1.40 x 10mm	<a href="#">3ES-P878-00</a>	Pan	20IP
MG4.0-1.40 x 15mm	<a href="#">3ES-P876-00</a>	Pan	20IP
MG4.0-1.40 x 18mm	<a href="#">3ES-P875-00</a>	Pan	20IP

The recommended minimum length of thread engagement, excluding the two lead threads, should be equal to 2-1/2 times the basic screw size. Blind holes should be deep enough to allow a two-thread lead, with clearance, at the bottom of the hole. The included draft angle is 1.0°.



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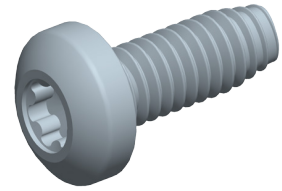
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# TAPTITE 2000®

High performance thread rolling screws designed to form internal threads in untapped holes in ductile materials



## Overview

The innovative Radius Profile™ thread and proven Trilobular™ geometry provide excellent mechanical, assembly and ergonomic characteristics surpassed by no other equivalent technology. TAPTITE 2000's high prevailing torque performance, exceptional drive-to-fail ratio and low starting end load offer considerable advantages and assembly cost savings.

## Features and Benefits

### Trilobular™ Configuration

- / Reduces friction
- / Increases prevailing torque
- / Resists loosening caused by vibration
- / Lower end load requirements

### Radius Profile™ Thread

- / Lowers thread forming torque without sacrificing performance

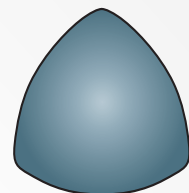
/ Higher, more uniform drive-to-fail ratio resists internal thread stripping

/ Excellent axial alignment

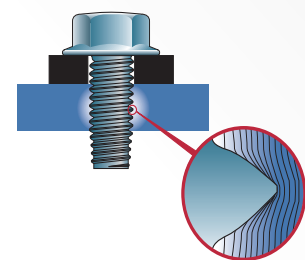
Roll Forms Own Work-hardened Mating Threads

/ Creates higher strength flow/work hardened threads

Extruding holes for fasteners in light-gage steel **nearly doubles the length of thread engagement** over the original material thickness. TAPTITE 2000® fasteners **develop almost twice the failure torque** in extruded holes, providing maximum joint integrity.



TRILOBULAR™ CROSS SECTION



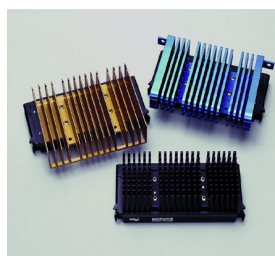
## Assembly Applications



ELECTRONICS HOUSINGS



PRINTER CHASSIS



ALUMINUM HEAT SINK



applicable markets /



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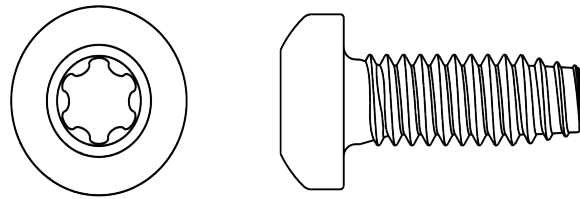


DEMO

# TAPTITE 2000®

## Specifications

- / Sizes: #0 – 6-32 / M1.0 - M3.0
- / Head Styles: Wafer, Pan
- / Drive System: TORX PLUS® Drive
- / Material: Low carbon steel
- / Heat Treat: Case hardened
- / Finish: Acu® Black Eco-Coating



Size	Length	Part Number	Head	Drive Size
<b>10 (1.0MM DIAMETER)</b>				
MR1.0 - 0.25	3mm	<a href="#">3ES-W8603-00</a>	Wafer	11P
MR1.0 - 0.25	4mm	<a href="#">3ES-W8606-00</a>	Wafer	11P
MR1.0 - 0.25	6mm	<a href="#">3ES-W8612-00</a>	Wafer	11P
<b>12 (1.2MM DIAMETER)</b>				
MR1.2 - 0.25	3mm	<a href="#">3ES-W8615-00</a>	Wafer	3IP
MR1.2 - 0.25	4mm	<a href="#">3ES-W8618-00</a>	Wafer	3IP
MR1.2 - 0.25	6mm	<a href="#">3ES-W8624-00</a>	Wafer	3IP
<b>14 (1.4MM DIAMETER)</b>				
MR1.4 - 0.30	3mm	<a href="#">3ES-W8627-00</a>	Wafer	3IP
MR1.4 - 0.30	4mm	<a href="#">3ES-W8630-00</a>	Wafer	3IP
MR1.4 - 0.30	6mm	<a href="#">3ES-W8636-00</a>	Wafer	3IP
<b>16 (1.6MM DIAMETER)</b>				
MR1.6 - 0.35	3mm	<a href="#">3ES-P8790-00</a>	Pan	5IP
MR1.6 - 0.35	4mm	<a href="#">3ES-P8793-00</a>	Pan	5IP
MR1.6 - 0.35	8mm	<a href="#">3ES-P8799-00</a>	Pan	5IP
<b>18 (1.8MM DIAMETER)</b>				
MR1.8 - 0.35	4mm	<a href="#">3ES-P8802-00</a>	Pan	6IP
MR1.8 - 0.35	6mm	<a href="#">3ES-P8805-00</a>	Pan	6IP
MR1.8 - 0.35	10mm	<a href="#">3ES-P8811-00</a>	Pan	6IP
<b>20 (2.0MM DIAMETER)</b>				
MR2.0 - 0.40	4mm	<a href="#">3ES-P8814-00</a>	Pan	6IP
MR2.0 - 0.40	6mm	<a href="#">3ES-P8817-00</a>	Pan	6IP
MR2.0 - 0.40	10mm	<a href="#">3ES-P8823-00</a>	Pan	6IP
<b>30 (3.0MM DIAMETER)</b>				
MR3.0 - 0.50	4mm	<a href="#">3ES-P8826-00</a>	Pan	10IP
MR3.0 - 0.50	6mm	<a href="#">3ES-P8829-00</a>	Pan	10IP
MR3.0 - 0.50	10mm	<a href="#">3ES-P8832-00</a>	Pan	10IP

Size	Length	Part Number	Head	Drive Size
<b>#0-80</b>				
IR0-80	1/8"	<a href="#">3ES-P8700-00</a>	Pan	5IP
IR0-80	1/4"	<a href="#">3ES-P8701-00</a>	Pan	5IP
IR0-80	1/2"	<a href="#">3ES-P8703-00</a>	Pan	5IP
<b>#2-56</b>				
IR2-56	1/8"	<a href="#">3ES-P8704-00</a>	Pan	7IP
IR2-56	1/4"	<a href="#">3ES-P8705-00</a>	Pan	7IP
IR2-56	1/2"	<a href="#">3ES-P8707-00</a>	Pan	7IP
<b>#4-40</b>				
IR4-40	1/4"	<a href="#">3ES-P8710-00</a>	Pan	10IP
IR4-40	3/8"	<a href="#">3ES-P8711-00</a>	Pan	10IP
IR4-40	1/2"	<a href="#">3ES-P8712-00</a>	Pan	10IP
IR4-40	3/4"	<a href="#">3ES-P8714-00</a>	Pan	10IP
<b>#6-32</b>				
IR6-32	1/4"	<a href="#">3ES-P8716-00</a>	Pan	15IP
IR6-32	3/8"	<a href="#">3ES-P8717-00</a>	Pan	15IP
IR6-32	1/2"	<a href="#">3ES-P8718-00</a>	Pan	15IP
IR6-32	3/4"	<a href="#">3ES-P8719-00</a>	Pan	15IP



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# DELTA PT®

Thread forming screws engineered for maximum performance in a wide range of thermoplastics



## Overview

Delta PT® fasteners are engineered to provide maximum performance in a wide range of thermoplastics. The optimized design results in a stronger fastener that creates advanced material flow during installation, providing higher performance, better clamp loads and increased joint life.

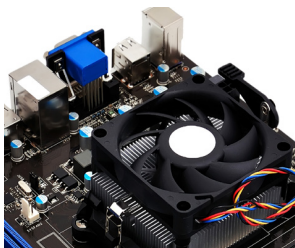
## Features and Benefits

- / Flank geometry engineered to provide better material flow during installation combined with high flank engagement
- / Larger fastener cross-section increases shear area and fastener strength
- / Optimized pitch allows high clamp load with smaller contact pressure
- / Minimizes radial stress
- / Offers increased fatigue life
- / Optimizes material flow
- / Provides increased torsional and tensile strength
- / Can achieve higher clamp loads and seating torque
- / May permit use of shorter fasteners and/or smaller diameters, if necessary
- / Recommended for use in thermoplastics with a flexible modulus up to 1,400,000 p.s.i.

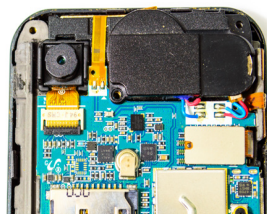


Minimizes boss stress (Delta PT® - right)

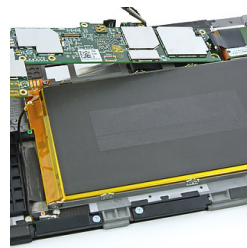
## Assembly Applications



COOLING FANS



MOBILE HANDSETS



TABLETS



PRINTERS



applicable markets /



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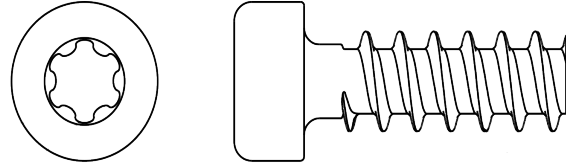


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# DELTA PT®

## Specifications

- / Sizes: M1.0 – M4
- / Head Styles: Pan, Wafer
- / Drive System: TORX PLUS® Drive
- / Material: Steel (ASTM F2282)
- / Heat treat: Through hardened
- / Finish: Acu® Black Eco-Coating



Size	Part Number	Head	Drive Size
<b>DELTA PT 10 (1.0MM DIAMETER)</b>			
D10-0.44 x 1.5mm	<a href="#">3ES-W8415-00</a>	Wafer	1IP
D10-0.44 x 2mm	<a href="#">3ES-W8416-00</a>	Wafer	1IP
D10-0.44 x 2.5mm	<a href="#">3ES-W8417-00</a>	Wafer	1IP
D10-0.44 x 3mm	<a href="#">3ES-W8418-00</a>	Wafer	1IP
<b>DELTA PT 12 (1.2MM DIAMETER)</b>			
D12-0.51 x 1.5mm	<a href="#">3ES-W8420-00</a>	Wafer	3IP
D12-0.51 x 2mm	<a href="#">3ES-W8421-00</a>	Wafer	3IP
D12-0.51 x 2.5mm	<a href="#">3ES-W8422-00</a>	Wafer	3IP
D12-0.51 x 3mm	<a href="#">3ES-W8411-00</a>	Wafer	3IP
D12-0.51 x 4mm	<a href="#">3ES-W8412-00</a>	Wafer	3IP
<b>DELTA PT 14 (1.4MM DIAMETER)</b>			
D14-0.57 x 2mm	<a href="#">3ES-W8459-00</a>	Wafer	3IP
D14-0.57 x 3mm	<a href="#">3ES-W8460-00</a>	Wafer	3IP
D14-0.57 x 4mm	<a href="#">3ES-W8461-00</a>	Wafer	3IP
D14-0.57 x 5mm	<a href="#">3ES-W8423-00</a>	Wafer	3IP
D14-0.57 x 6mm	<a href="#">3ES-W8424-00</a>	Wafer	3IP
<b>DELTA PT 16 (1.6MM DIAMETER)</b>			
D16-0.64 x 3mm	<a href="#">3ES-P8562-00</a>	Pan	5IP
D16-0.64 x 4mm	<a href="#">3ES-P8563-00</a>	Pan	5IP
D16-0.64 x 5mm	<a href="#">3ES-P8564-00</a>	Pan	5IP
D16-0.64 x 6mm	<a href="#">3ES-P8625-00</a>	Pan	5IP
<b>DELTA PT 18 (1.8MM DIAMETER)</b>			
D18-0.71 X 3mm	<a href="#">3ES-P8626-00</a>	Pan	6IP
D18-0.71 x 4mm	<a href="#">3ES-P8565-00</a>	Pan	6IP
D18-0.71 x 5mm	<a href="#">3ES-P8627-00</a>	Pan	6IP
D18-0.71 x 6mm	<a href="#">3ES-P8566-00</a>	Pan	6IP
D18-0.71 x 8mm	<a href="#">3ES-P8567-00</a>	Pan	6IP
<b>DELTA PT 20 (2MM DIAMETER)</b>			
D20-0.78 X 3mm	<a href="#">3ES-P8628-00</a>	Pan	6IP
D20-0.78 x 4mm	<a href="#">3ES-P8569-00</a>	Pan	6IP
D20-0.78 x 5mm	<a href="#">3ES-P8629-00</a>	Pan	6IP
D20-0.78 x 6mm	<a href="#">3ES-P8571-00</a>	Pan	6IP
D20-0.78 x 8mm	<a href="#">3ES-P8572-00</a>	Pan	6IP
D20-0.78 x 10mm	<a href="#">3ES-P8573-00</a>	Pan	6IP

Size	Part Number	Head	Drive Size
<b>DELTA PT 22 (2.2MM DIAMETER)</b>			
D22-0.85 x 4mm	<a href="#">3ES-P8575-00</a>	Pan	6IP
D22-0.85 x 6mm	<a href="#">3ES-P8576-00</a>	Pan	6IP
D22-0.85 x 8mm	<a href="#">3ES-P8577-00</a>	Pan	6IP
D22-0.85 x 12mm	<a href="#">3ES-P8579-00</a>	Pan	6IP
<b>DELTA PT 25 (2.5MM DIAMETER)</b>			
D25-0.95 X 5mm	<a href="#">3ES-P8631-00</a>	Pan	8IP
D25-0.95 x 6mm	<a href="#">3ES-P8580-00</a>	Pan	8IP
D25-0.95 x 8mm	<a href="#">3ES-P8581-00</a>	Pan	8IP
D25-0.95 x 10mm	<a href="#">3ES-P8582-00</a>	Pan	8IP
D25-0.95 x 12mm	<a href="#">3ES-P8583-00</a>	Pan	8IP
<b>DELTA PT 30 (3MM DIAMETER)</b>			
D30-1.12 x 6mm	<a href="#">3ES-P8585-00</a>	Pan	10IP
D30-1.12 x 8mm	<a href="#">3ES-P8586-00</a>	Pan	10IP
D30-1.12 x 10mm	<a href="#">3ES-P8587-00</a>	Pan	10IP
D30-1.12 x 16mm	<a href="#">3ES-P8589-00</a>	Pan	10IP
<b>DELTA PT 35 (3.5MM DIAMETER)</b>			
D35-1.29 x 8mm	<a href="#">3ES-P8591-00</a>	Pan	15IP
D35-1.29 x 10mm	<a href="#">3ES-P8592-00</a>	Pan	15IP
D35-1.29 x 12mm	<a href="#">3ES-P8593-00</a>	Pan	15IP
<b>DELTA PT 40 (4MM DIAMETER)</b>			
D40-1.46 x 8mm	<a href="#">3ES-P8596-00</a>	Pan	20IP
D40-1.46 x 10mm	<a href="#">3ES-P8597-00</a>	Pan	20IP
D40-1.46 x 12mm	<a href="#">3ES-P8598-00</a>	Pan	20IP
D40-1.46 x 14mm	<a href="#">3ES-P8595-00</a>	Pan	20IP
D40-1.46 x 16mm	<a href="#">3ES-P8599-00</a>	Pan	20IP
D40-1.46 x 20mm	<a href="#">3ES-P8600-00</a>	Pan	20IP



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# MACHINE SCREWS W/PATCH

High quality Torx Plus® Drive machine screws



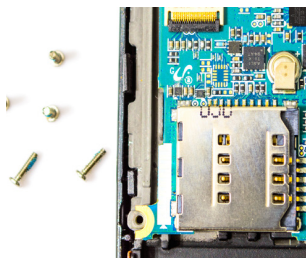
## Overview

Torx Plus® machine screws with nylon patch resist loosening and provide a high quality fixing into female machine threads. Available in wafer head as standard in miniature metric sizes.

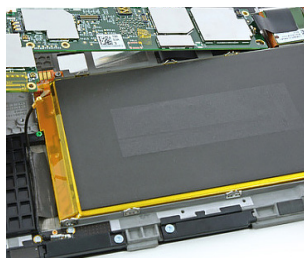
## Features and Benefits

- / Large head-to-shank ratios possible
- / Cold formed uninterrupted grain flow
- / Improved strength and reliability through work-hardening
- / Smooth low friction surface finish
- / Reduced scrap rates
- / High production rates
- / Increased strength and lowered costs over screw machined components

## Assembly Applications



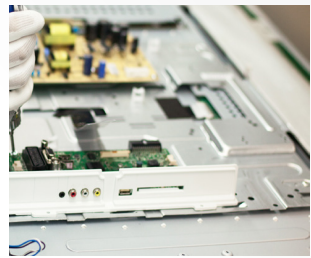
MOBILE DEVICES



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HDD



FLAT PANEL DISPLAYS



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# MACHINE SCREWS W/PATCH

## Specifications

/ Sizes: #000 – #6-32" / M1 – M3

/ Head Styles: Pan, Wafer

/ Drive System: Torx Plus® Drive

/ Material: Steel

/ Heat treat: Through hardened

/ Finish: Acu® Black Eco-Coating + Nylon Patch



Size	Length	Part Number	Head	Drive Size
<b>M1.0</b>				
M1 - 0.25	1.0mm	<a href="#">3ES-W8700-00</a>	Wafer	1IP
M1 - 0.25	1.5mm	<a href="#">3ES-W8702-00</a>	Wafer	1IP
M1 - 0.25	2.0mm	<a href="#">3ES-W8704-00</a>	Wafer	1IP
M1 - 0.25	2.5mm	<a href="#">3ES-W8706-00</a>	Wafer	1IP
<b>M1.2</b>				
M1.2 - 0.25	1.5mm	<a href="#">3ES-W8710-00</a>	Wafer	3IP
M1.2 - 0.25	2.0mm	<a href="#">3ES-W8712-00</a>	Wafer	3IP
M1.2 - 0.25	2.5mm	<a href="#">3ES-W8714-00</a>	Wafer	3IP
M1.2 - 0.25	3.0mm	<a href="#">3ES-W8716-00</a>	Wafer	3IP
M1.2 - 0.25	4.0mm	<a href="#">3ES-W8718-00</a>	Wafer	3IP
<b>M1.4</b>				
M1.4 - 0.30	2.0mm	<a href="#">3ES-W8722-00</a>	Wafer	3IP
M1.4 - 0.30	3.0mm	<a href="#">3ES-W8724-00</a>	Wafer	3IP
M1.4 - 0.30	4.0mm	<a href="#">3ES-W8726-00</a>	Wafer	3IP
M1.4 - 0.30	5.0mm	<a href="#">3ES-W8728-00</a>	Wafer	3IP
<b>M1.6</b>				
M1.6 - 0.35	2.5mm	<a href="#">3ES-P8538-00</a>	Pan	5IP
M1.6 - 0.35	3.5mm	<a href="#">3ES-P8539-00</a>	Pan	5IP
M1.6 - 0.35	4.5mm	<a href="#">3ES-P8540-00</a>	Pan	5IP
M1.6 - 0.35	5.5mm	<a href="#">3ES-P8541-00</a>	Pan	5IP
<b>M1.8</b>				
M1.8 - 0.35	3.0mm	<a href="#">3ES-P8542-00</a>	Pan	6IP
M1.8 - 0.35	4.0mm	<a href="#">3ES-P8543-00</a>	Pan	6IP
M1.8 - 0.35	5.0mm	<a href="#">3ES-P8544-00</a>	Pan	6IP
M1.8 - 0.35	6.0mm	<a href="#">3ES-P8545-00</a>	Pan	6IP
<b>M2.0</b>				
M2.0 - 0.40	4.0mm	<a href="#">3ES-P8546-00</a>	Pan	6IP
M2.0 - 0.40	6.0mm	<a href="#">3ES-P8547-00</a>	Pan	6IP
M2.0 - 0.40	8.0mm	<a href="#">3ES-P8548-00</a>	Pan	6IP
<b>M3.0</b>				
M3.0 - 0.5	6.0mm	<a href="#">3ES-P8549-00</a>	Pan	10IP
M3.0 - 0.5	8.0mm	<a href="#">3ES-P8550-00</a>	Pan	10IP
M3.0 - 0.5	10mm	<a href="#">3ES-P8551-00</a>	Pan	10IP

Size	Length	Part Number	Head	Drive Size
<b>#000-120</b>				
000-120	1/8"	<a href="#">3ES-P8516-00</a>	Pan	1IP
000-120	3/16"	<a href="#">3ES-P8517-00</a>	Pan	1IP
000-120	1/4"	<a href="#">3ES-P8518-00</a>	Pan	1IP
<b>#00-90</b>				
00-90	1/8"	<a href="#">3ES-P8519-00</a>	Pan	2IP
00-90	3/16"	<a href="#">3ES-P8520-00</a>	Pan	2IP
00-90	1/4"	<a href="#">3ES-P8521-00</a>	Pan	2IP
<b>#0-80</b>				
0-80	1/8"	<a href="#">3ES-P8522-00</a>	Pan	5IP
0-80	3/16"	<a href="#">3ES-P8523-00</a>	Pan	5IP
0-80	1/4"	<a href="#">3ES-P8524-00</a>	Pan	5IP
<b>#2-56</b>				
2-56	1/8"	<a href="#">3ES-P8525-00</a>	Pan	7IP
2-56	3/16"	<a href="#">3ES-P8526-00</a>	Pan	7IP
2-56	1/4"	<a href="#">3ES-P8527-00</a>	Pan	7IP
2-56	5/16"	<a href="#">3ES-P8528-00</a>	Pan	7IP
<b>#4-40</b>				
4-40	3/16"	<a href="#">3ES-P8529-00</a>	Pan	10IP
4-40	1/4"	<a href="#">3ES-P8530-00</a>	Pan	10IP
4-40	5/16"	<a href="#">3ES-P8531-00</a>	Pan	10IP
4-40	3/8"	<a href="#">3ES-P8532-00</a>	Pan	10IP
<b>#6-32</b>				
6-32	1/4"	<a href="#">3ES-P8533-00</a>	Pan	15IP
6-32	5/16"	<a href="#">3ES-P8534-00</a>	Pan	15IP
6-32	3/8"	<a href="#">3ES-P8535-00</a>	Pan	15IP
6-32	1/2"	<a href="#">3ES-P8536-00</a>	Pan	15IP
6-32	5/8"	<a href="#">3ES-P8537-00</a>	Pan	15IP



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# SEMS MACHINE SCREWS

SEMS screws with captivated Crest Cup® washer



## Overview

Torx Plus® captive washer machine screws with nylon patch help resist loosening and distribute the load over a larger surface area of the top material, resisting crushing and creating a solid vibration resistant joint.

## Features and Benefits

- / Large head-to-shank ratios
- / Uninterrupted grain flow
- / Work hardened strength and reliability
- / Smooth low friction surface finish
- / Minimizes crushing in soft or brittle materials
- / Reduced scrap rates
- / High production rates
- / Increased strength and lowered costs over screw machined components

## Assembly Applications



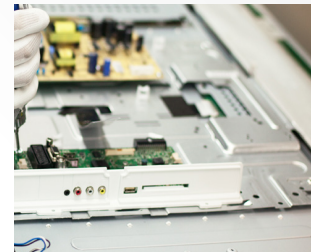
PRINTERS



SERVER CHASSIS



TELECOMS EQUIPMENT



FLAT PANEL DISPLAYS



applicable markets /



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# SEMS MACHINE SCREWS

## Specifications

/ Sizes: #2-56 – #10-32" / M3 - M4  
 / Head Styles: Pan  
 / Drive System: Torx Plus® Drive

/ Material: Steel  
 / Heat treat: Through hardened  
 / Plating: Acu® Black Eco-Coating + Nylon Patch



Thread Size	Length	Part #	Head Style	Recess
<b>M3 DIAMETER</b>				
M3-0.5	6mm	<a href="#">3ES-P843-00</a>	Pan	10IP
M3-0.5	8mm	<a href="#">3ES-P8049-00</a>	Pan	10IP
M3-0.5	12mm	<a href="#">3ES-P8051-00</a>	Pan	10IP
<b>M4 DIAMETER</b>				
M4-0.7	8mm	<a href="#">3ES-P839-00</a>	Pan	20IP
M4-0.7	12mm	<a href="#">3ES-P840-00</a>	Pan	20IP
M4-0.7	20mm	<a href="#">3ES-P8054-00</a>	Pan	20IP

Thread Size	Length	Part #	Head Style	Recess
<b>#2 DIAMETER</b>				
2-56	3/16"	<a href="#">3ES-P8037-00</a>	Pan	7IP
2-56	1/4"	<a href="#">3ES-P824-00</a>	Pan	7IP
2-56	3/8"	<a href="#">3ES-P825-00</a>	Pan	7IP
2-56	1/2"	<a href="#">3ES-P8038-00</a>	Pan	7IP
<b>#4 DIAMETER</b>				
4-40	1/4"	<a href="#">3ES-P855-00</a>	Pan	10IP
4-40	3/8"	<a href="#">3ES-P838-00</a>	Pan	10IP
4-40	1/2"	<a href="#">3ES-P854-00</a>	Pan	10IP
<b>#6 DIAMETER</b>				
6-32	1/4"	<a href="#">3ES-P833-00</a>	Pan	15IP
6-32	3/8"	<a href="#">3ES-P834-00</a>	Pan	15IP
6-32	1/2"	<a href="#">3ES-P835-00</a>	Pan	15IP
6-32	5/8"	<a href="#">3ES-P8040-00</a>	Pan	15IP
<b>#8 DIAMETER</b>				
8-32	1/4"	<a href="#">3ES-P830-00</a>	Pan	20IP
8-32	3/8"	<a href="#">3ES-P831-00</a>	Pan	20IP
8-32	1/2"	<a href="#">3ES-P832-00</a>	Pan	20IP
8-32	3/4"	<a href="#">3ES-P8042-00</a>	Pan	20IP
<b>#10 DIAMETER</b>				
10-32	3/8"	<a href="#">3ES-P828-00</a>	Pan	25IP
10-32	1/2"	<a href="#">3ES-P829-00</a>	Pan	25IP
10-32	3/4"	<a href="#">3ES-P8045-00</a>	Pan	25IP



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# DOUBLE FLUSH CHOBERT®

Flush Speed Fastening® for applications in exceptionally thin sheet materials



## Overview

Speed Fastening® rivet with countersunk head for use in exceptionally thin sheet materials. Based on the original Avdel® Chobert® design, it's an ideal solution for fastening in the electronics industry and other applications where rear protrusion and rivet stem loosening are undesirable.

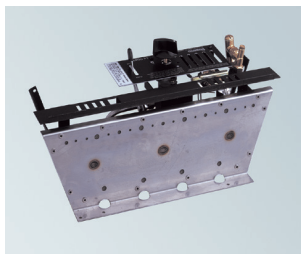
## Features and Benefits

- / Flush surface on both sides of the joint\*
- / Reduces excess space requirements within the chassis
- / Common hole form can be used throughout the chassis design to reduce complexity
- / Expands radially in the material during installation
- / Can be installed from either direction if accessible
- / Provides superior joint strength when compared to competitive technologies
- / One-piece fastener eliminates potential stem fall out that can cause electrical problems

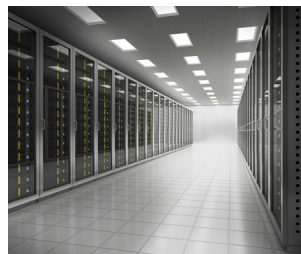
## Assembly Applications



COMPUTER CHASSIS



HOUSEHOLD APPLIANCES



SERVER CHASSIS



PRINTERS



applicable markets /



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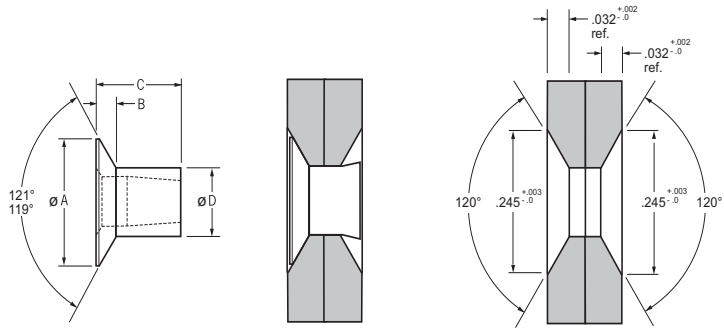
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# DOUBLE FLUSH CHOBERT®

## Specifications

- / Sizes: 1/8" (3.2 mm)
- / Materials: Steel
- / Head Styles: Countersunk
- / Finish: Zinc + Clear Passivation

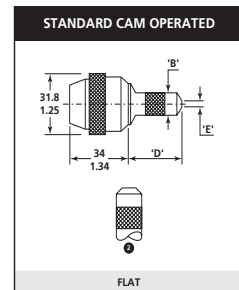
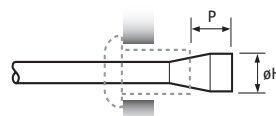
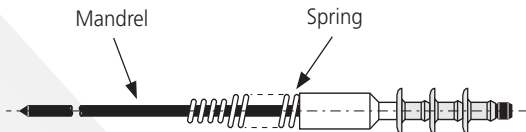


\*Rear sheet tail protrusion of installed fastener is application dependent - up to .020" (0.5mm) is permissible.

ø	Fasteners per pod		Part No									
	nom.	min. max.	min. max.	max. max.								
1/8" (3.2 mm)	.078 (2.0)	.105 (2.67)	.129 (3.28)	.131 (3.33)	.215 (5.46)	.030 (0.76)	.098 (2.49)	.128 (3.25)	229 (1.02)	341 (1.52)	120	<a href="#">G0110-11708</a>
	.095 (2.41)	.115 (2.92)					.110 (2.79)				112	<a href="#">G0110-11294</a>

All dimensions in inches (Millimeters) 1) - typical values.

## Double Flush Chobert® Mandrel and Spring Information



ø nom.	Description	ø H	P max.	Mandrel Part No	Spring Part No.	Nose Assembly
3.2 (1/8") Double Flush Chobert®	as rec.	.088 (2.24)	.090 (2.29)	07150-08004		
	+ .004 (0.10)	.092 (2.34)	.098 (2.49)	07150-08104	07271-06630	07537-03100
	+ .010 (0.25)	.098 (2.49)	.110 (2.79)	07150-08204		

All dimensions in inches (Millimeters).



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# NEOSPEED®

The strongest, most versatile Speed Fastening® system available

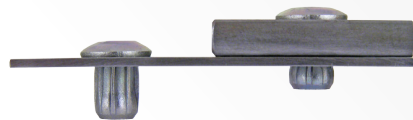


## Overview

NeoSpeed® fasteners feature a unique splined body design that creates high clamp and a wide grip range. The most versatile Speed Fastening® system ever made outperforms breakstem rivet alternatives while minimizing installation times to under 2 seconds per rivet.

## Features and Benefits

- / Up to four times greater throughput than traditional threaded or breakstem fasteners
- / Multi-grip capability accommodates wide variations in material thickness
- / One rivet can be used to replace several standard grip fasteners
- / Splines create hole fill in rear sheet and oversize front sheet holes offering greater performance and vibration resistance
- / 3x greater hole size tolerance than standard breakstem rivets
- / Less sensitive to application variations
- / Simple tooling and fastener specification
- / Typically half the installed weight versus an equivalent breakstem rivet



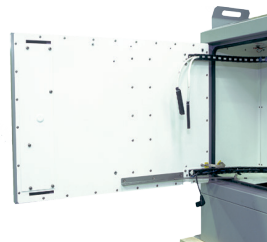
## Assembly Applications



COMPUTER CHASSIS



LED LIGHTING



TELECOMS EQUIPMENT



PRINTERS



applicable markets /



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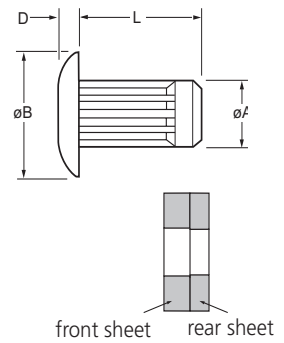
DEMO

# NEOSPEED<sup>®</sup>

## Specifications

- / Sizes: 1/8" – 3/16" (3.2mm - 4.8mm)
- / Head Styles: Mushroom, Countersunk
- / Material: Steel, Aluminum
- / Plating: Zinc + Clear Passivation (Steel)

Ø nom.	ØB max.	D max.	ØA max.
1/8" (3.2 mm)	.257 (6.53)	.043 (1.10)	.1245 (3.17)
	.230 (5.84)	.0315 (0.80)	.1245 (3.17)
5/32" (4.0 mm)	.322 (8.18)	.049 (1.25)	.1535 (3.90)
3/16" (4.8 mm)	.382 (9.71)	.059 (1.50)	.1885 (4.79)



Ø	Aluminum Alloy							Steel Zinc + clear passivate						
	nom.	min.	max.	min.	max.	min.	max.	L max.	lbf <sup>(1)</sup> (kN)	lbf <sup>(1)</sup> (kN)	Part No.	lbf <sup>(1)</sup> (kN)	lbf <sup>(1)</sup> (kN)	Part No.
1/8" (3.2 mm)	.016 (0.4)	.079 (2.0)	.1319 (3.35)	.1425 (3.62)	.1283 (3.26)	.1346 (3.42)	.187 (4.8)	.287 (7.3)	170 (0.76)	281 (1.25)	<a href="#">G0501-03204</a>	260 (1.16)	420 (1.87)	<a href="#">G0521-03204</a>
		.177 (4.5)									<a href="#">G0501-03207</a>			<a href="#">G0521-03207</a>
	.039 (1.0)	.079* (2.0)	.1283 (3.26)	.1315 (3.34)			.187 (4.8)				Coming Soon	211 (0.94)	431 (1.92)	<a href="#">G0621-03204</a>
		.177* (4.5)					.287 (7.3)			Coming Soon	<a href="#">G0621-03207</a>			
5/32" (4.0 mm)	.020 (0.5)	.086 (2.2)	.1614 (4.10)	.1744 (4.43)	.1563 (3.97)	.1646 (4.18)	.213 (5.4)	.315 (8.0)	267 (1.19)	427 (1.90)	<a href="#">G0501-04005</a>	404 (1.80)	674 (3.00)	<a href="#">G0521-04005</a>
		.197 (5.0)												<a href="#">G0501-04007</a>
3/16" (4.8 mm)	.024 (0.6)	.204 (5.2)	.1969 (5.00)	.2126 (5.40)	.1909 (4.85)	.2008 (5.10)	.350 (8.9)	.500 (12.7)	373 (1.66)	651 (2.90)	<a href="#">G0501-04808</a>	539 (2.60)	944 (4.20)	<a href="#">G0521-04808</a>
		.362 (9.2)												<a href="#">G0501-04812</a>

All dimensions in inches (Millimeters)., 1) typical values.

## Installation tools

The NeoSpeed<sup>®</sup> rivets can be placed with the Avdel installation tools type 7530, 7537 and 7271 using the following installation equipment. For further information please visit our website or contact your local representative.

Ø nom.	Nose Equipment Part No.	Mandrel Part No.	Follower Spring Part No.
1/8" (3.2 mm)	07530-03200	07530-06014	07150-06814
1/8" (3.2 mm) CSK	07170-03104		
5/32" (4.0 mm)	07530-03300	07530-06015	07170-06875
3/16" (4.8 mm)	07530-03400	07530-06016	07170-06876



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# RIVSCREW®

Threaded, removable Speed Fastening® rivets



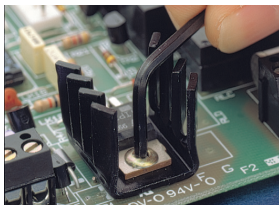
## Overview

RivscREW® Speed Fasteners feature an external machine screw thread that expands radially into the application material during the initial installation process. The resulting assembly creates a fully vibration resistant joint with the speed of rivet placement and the functional removability of a screw.

## Features and Benefits

- / Expands radially during installation to form a thread in host material, eliminating the risk of over torquing and strip-out
- / Placed using a hexagon mandrel which expands the threaded diameter radially, adjacent to its six corners
- / Removable for servicing with a hex key and reusable
- / Providing a higher vibration resistant "thread lock" in the parent material compared to standard screws
- / Can be used to fasten most materials up to Vickers hardness 105 Hv5
- / Eliminates the need for costly tapping or thread forming operations
- / Optional bright tin plated steel version for ease of soldering and good electrical conductivity
- / Can be bowl fed for larger volume applications using automated equipment

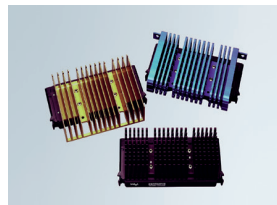
## Assembly Applications



**SEMI CONDUCTORS, HEAT-SINKS PCBs**



**DIE-CAST CHASSIS WITH PCB**



**HEATSINKS TO PROCESSOR CARTRIDGES**



**FLAT PANEL DISPLAYS**



applicable markets /



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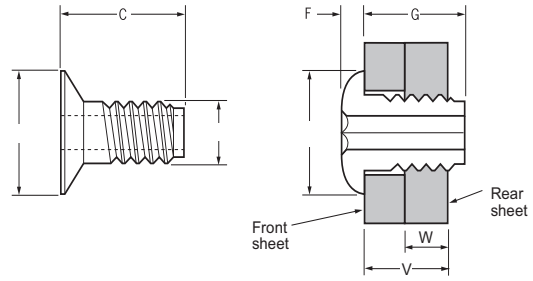


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# RIVSCREW®

## Specifications

- / Sizes: 3.0mm – 3.5mm
- / Head Styles: Dome
- / Material: Low Carbon Steel
- / Plating: Zinc + Clear Passivation (Steel)



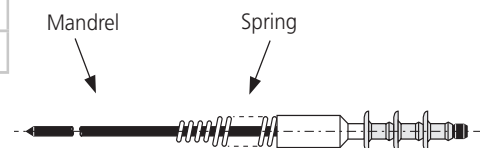
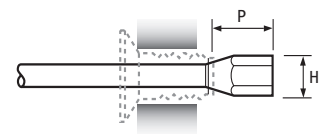
Ø	Front sheet				Rear sheet		A	C	W	V	E <sup>1)</sup>	F <sup>1)</sup>	G	Fasteners per pod	Part No
	nom.	max.	min.	max.	min.	max.									
3.0 mm	.1107 (2.8)	.121 (3.07)	.124 (3.15)	.111 (2.82)	.114 (2.89)	.230 (5.7)	.202 (5.2)	.064 (1.62)	.112 (2.85)	.240 (6.1)	.055 (1.4)			62	<a href="#">G0222-03006</a>
														52	<a href="#">G0222-03007</a>
														43	<a href="#">G0222-03009</a>
														38	<a href="#">G0222-03010</a>
														34	<a href="#">G0222-03011</a>
														30	<a href="#">G0222-03012</a>
3.5 mm	.1215 (3.1)	.138 (4.19)	.141 (4.27)	.122 (3.61)	.125 (3.68)	.235 (6.0)	.202 (5.2)	.064 (1.62)	.112 (2.85)	.240 (6.1)	.055 (1.4)			62	<a href="#">G0222-03506</a>
														52	<a href="#">G0222-03507</a>
														43	<a href="#">G0222-03509</a>
														38	<a href="#">G0222-03510</a>
														30	<a href="#">G0222-03512</a>

All dimensions in inches (Millimeters). 1) dimensions E and F are generated during the installation process and should only be used as an indication of the minimum space required.

## Rivscrew® Mandrel and Spring Information

Ø	Nose	H A/F	P	Mandrel	Spring
nom.	Part No/ref.		max.	Part No/ref	Part No/ref
<b>RIVSCREW® G0222</b>					
3.0 mm	07271-03000	.065 (1.65)	.127 (3.23)	07271-06030	07271-06630
3.5 mm	07271-03500	.0825 (2.10)	.132 (3.35)	07271-06035	07271-06635

All dimensions in inches (Millimeters)



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# RIVSCREW® PL

Threaded, removable Speed Fastening® rivets for plastics



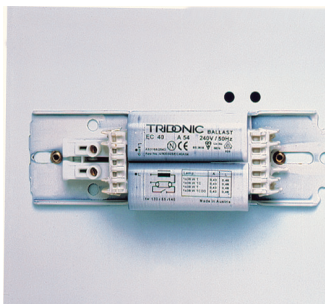
## Overview

RivscREW® PL Speed Fasteners feature an external coarse screw thread that expands radially into the application material during the initial installation process. The resulting assembly creates a fully vibration resistant joint with the speed of rivet placement and the functional removability of a screw in a wide range of plastic materials.

## Features and Benefits

- / Especially designed for soft and hard plastics
- / Wide grip range from 3.0 to 11.8 mm covered by one fastener
- / Expands radially during installation to form a thread in host material, eliminating the risk of over torquing and strip-out
- / Placed using a hexagon mandrel which expands the threaded diameter radially, adjacent to its six corners
- / Removable for servicing with a hex key and reusable
- / Providing a higher vibration resistant "thread lock" in the parent material compared to standard screws
- / Can be bowl fed for larger volume applications using automated equipment
- / Special thread design for a wide range of plastics with a flexural modulus between 340,000 and 1,400,000 PSI (2,000 to 10,000 N/mm<sup>2</sup>).

## Assembly Applications



LIGHTING



SPEAKERS



PRINTERS



applicable markets /



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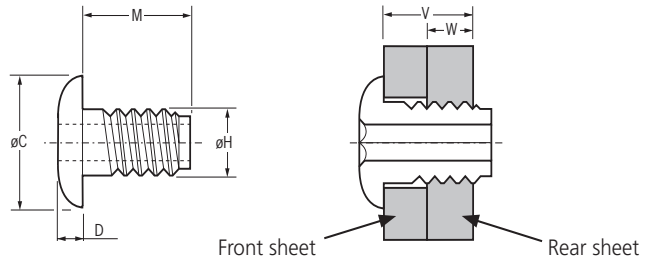
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# RIVSCREW<sup>®</sup> PL

## Specifications

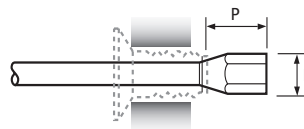
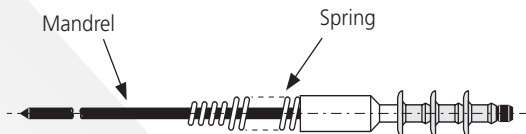
- / Sizes: 3.5mm – 4.0mm
- / Head Styles: Dome
- / Material: Low Carbon Steel
- / Plating: Zinc + Clear Passivation (Steel)



ø	ø H		Front sheet		Rear sheet		øC	D	M	W	V	Hex Key Size	Part No	
	nom.	min.	max.	min.	max.	min.								max.
3.5 mm	.1180	.1215	.139	.142	.122	.125	.244	.047	(6.93)	.110	.215	1/16"	(1.60)	<a href="#">G0242-03508</a>
	(3.0)	(3.09)	(3.53)	(3.63)	(3.10)	(3.18)								(6.0)
4.0 mm	.1295	.1334	.161	.164	.1338	.1368	.319	.047	(6.93)	.120	.215	5/64"	(2.00)	<a href="#">G0242-04008</a>
	(3.29)	(3.39)	(4.09)	(4.17)	(3.40)	(3.47)								(7.9)

All dimensions in inches (Millimeters).

## Rivscrew<sup>®</sup> PL Mandrel and Spring Information



ø	Nose	H A/F	P	Mandrel	Spring
nom.	Part No.		max.	Part No.	Part No.
<b>RIVSCREW<sup>®</sup> PL G0242</b>					
3.5 mm	07170-04600	.065	.147	07279-06429	07271-06630
4.0 mm	07150-03005	.0825	.132	07271-06035	07271-06635

All dimensions in inches (Millimeters).



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# AVIBULB<sup>®</sup> / AVINOX<sup>®</sup>

High strength rivets for enclosures and thin sheet metal assembly



AVINOX<sup>®</sup>



AVIBULB<sup>®</sup>

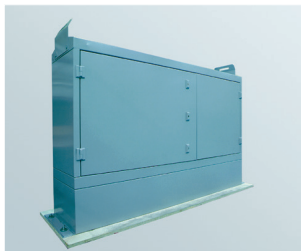
## Overview

Avdel<sup>®</sup> Avibulb<sup>®</sup> and Avinox<sup>®</sup> bulbing rivets offer a high-strength fastening solution ideal for thin sheet metals. The rivets provides excellent bulbing tail formation, high shear and tensile strength and good hole fill, which helps to compensate for irregular, oversized or misaligned holes.

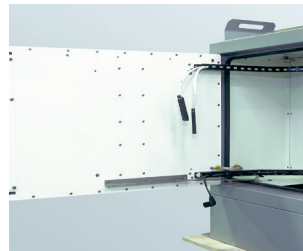
## Features and Benefits

- / High shear and tensile strength providing strong, vibration resistant joints
- / Stainless steel Avinox<sup>®</sup> for high corrosion resistance and applications requiring elevated temperatures
- / Provides a large blind side bearing area against the rear sheet, making it ideal for use in thin sheet materials
- / Good hole fill compensates for irregular, oversized, slotted or misaligned holes
- / Retained stem avoids damage, electrical problems or rattling caused by loose stems

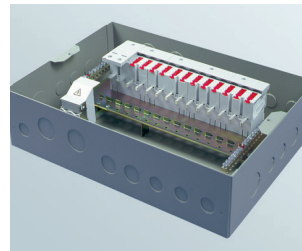
## Assembly Applications



TELECOMMUNICATIONS CABINETS



SWITCH GEAR



COMPUTER CHASSIS



applicable markets /



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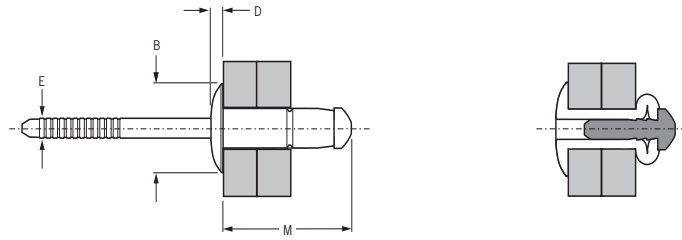
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# AVIBULB® / AVINOX®

## Specifications





- / Sizes: 1/8" to 3/16" (3.2 mm to 4.8 mm)
- / Material: Steel and Stainless Steel
- / Head Styles: Dome
- / Plating: Zinc + Clear Passivation (Avibulb®)



### AVIBULB® - STEEL RIVETS

ø nom.					M max.	B max.	D max.	E max.			Part No	
	min.	max.	min.	max.								lbf <sup>1)2)</sup> (kN)
1/8" (3.2 mm)	.039 (1.0)	.118 (3.0)	.130 (3.3)	.134 (3.4)	.358 (9.1)	.268 (6.8)	.055 (1.4)	.080 (2.0)	270 (1.2)	292 (1.3)	<a href="#">G0401-00408</a>	
	.118 (3.0)	.197 (5.0)			.461 (11.7)						393 (1.7)	<a href="#">G0401-00411</a>
	.197 (5.0)	.276 (7.0)			.551 (14.0)						562 (2.5)	<a href="#">G0401-00414</a>
5/32" (4.0 mm)	.039 (1.0)	.118 (3.0)	.161 (4.1)	.169 (4.3)	.409 (10.9)	.315 (8.0)	.059 (1.5)	.103 (2.6)	539 (2.4)	629 (2.8)	<a href="#">G0401-00509</a>	
	.118 (3.0)	.197 (5.0)			.508 (12.4)						787 (3.5)	<a href="#">G0401-00512</a>
	.197 (5.0)	.276 (7.0)			.618 (15.7)						921 (4.1)	<a href="#">G0401-00516</a>
3/16" (4.8 mm)	.059 (1.5)	.138 (3.5)	.193 (4.9)	.201 (5.1)	.476 (12.1)	.378 (9.6)	.059 (1.5)	.126 (3.2)	809 (3.6)	854 (3.8)	<a href="#">G0401-00611</a>	
	.138 (3.5)	.236 (6.0)			.579 (14.7)						944 (4.2)	<a href="#">G0401-00614</a>
	.236 (6.0)	.335 (8.5)			.693 (17.6)						1258 (5.6)	<a href="#">G0401-00618</a>

### AVINOX® - STAINLESS STEEL RIVETS

ø nom.					M max.	B max.	D max.	E max.			Part No	
	min.	max.	min.	max.								lbf <sup>1)2)</sup> (kN)
1/8" (3.2 mm)	.039 (1.0)	.118 (3.0)	.130 (3.3)	.134 (3.4)	.360 (9.0)	.260 (6.6)	.043 (1.1)	.083 (2.1)	360 (1.6)	450 (2.0)	<a href="#">G0361-00408</a>	
	.118 (3.0)	.197 (5.0)			.460 (11.5)						382 (1.7)	<a href="#">G0361-00411</a>
	.197 (5.0)	.276 (7.0)			.560 (14.1)						719 (3.2)	<a href="#">G0361-00414</a>
5/32" (4.0 mm)	.039 (1.0)	.118 (3.0)	.161 (4.1)	.169 (4.3)	.410 (10.3)	.315 (8.0)	.059 (1.5)	.102 (2.6)	629 (2.8)	899 (4.0)	<a href="#">G0361-00509</a>	
	.118 (3.0)	.197 (5.0)			.510 (12.9)						1169 (5.2)	<a href="#">G0361-00512</a>
	.197 (5.0)	.276 (7.0)			.620 (15.6)						1169 (5.2)	<a href="#">G0361-00516</a>
3/16" (4.8 mm)	.059 (1.5)	.138 (3.5)	.193 (4.9)	.201 (5.1)	.510 (12.8)	.378 (9.6)	.059 (1.5)	.126 (3.2)	1236 (5.5)	1124 (5.0)	<a href="#">G0361-00611</a>	
	.138 (3.5)	.236 (6.0)			.610 (15.4)						1236 (5.5)	<a href="#">G0361-00614</a>
	.236 (6.0)	.335 (8.5)			.730 (18.4)						1236 (5.5)	<a href="#">G0361-00618</a>

All dimensions in inches (Millimeters). 1) typical values. 2) includes stem through shear plane.

### INSTALLATION TOOLING



Size	Recommended Base Tool	Jaws	Nose	Jaw Pusher
1/8" (3.2 mm)	PROSET1600MCS	13300	PRN414	DPN239-144
5/32" (4.0 mm)	PROSET2500MCS	13300	PRN514	DPN275-028
3/16" (4.8 mm)	PROSET2500MCS	13300	PRN614	DPN275-027



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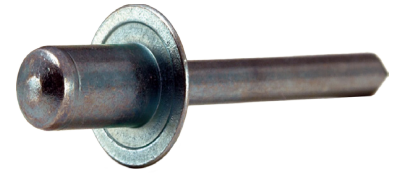


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# CLOSED END RIVETS

Fully sealed closed end rivets



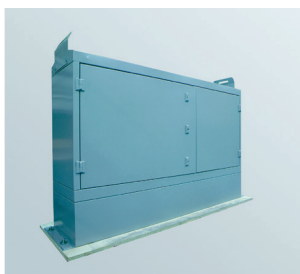
## Overview

POP<sup>®</sup> Closed-End rivets feature a unique cup-shaped end configuration that seals tight, preventing passage of vapor or liquid around or through the set rivet. They generate up to 23% greater tensile strength than equivalent open-end rivets and provide 100% mandrel retention, ideal for electronic enclosure applications.

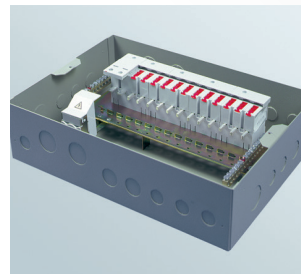
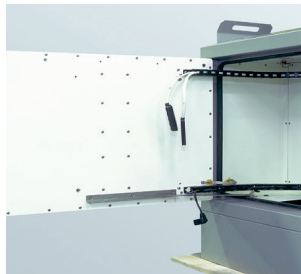
## Features and Benefits

- / High shear and tensile strength providing strong, vibration resistant joints
- / Fully sealed joint eliminates ingress of vapor, liquid and debris
- / 100% retained mandrel eliminates NVH and prevents stem falling into electronic assemblies

## Assembly Applications



TELECOMMUNICATIONS CABINETS



SWITCH GEAR



COMPUTER CHASSIS



applicable markets /



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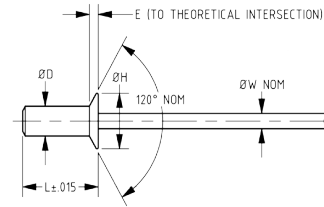
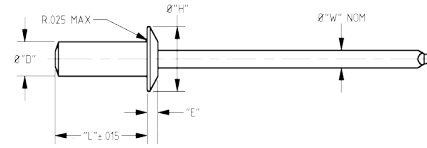


DEMO

# CLOSED END RIVETS

## Specifications

- / Sizes: 1/8" to 3/16" (3.2 mm to 4.8 mm)
- / Material: Aluminum Body, Steel Mandrel
- / Head Styles: Dome, Countersunk (CSK)



Ø	Ø		L	D	E	H	W	lbf (kN)	lbf (kN)	Head	Part No											
	nom.	min.										max.	min.	max.	nom.	min-max.	min-max.	min-max.	max.			
1/8" (3.2 mm)	.063 (1.6)	.125 (3.2)	.129 (3.28)	.133 (3.38)	.301 (7.7)	.124-.128 (3.15-3.25)	.031-.051 (0.79-1.30)	.224-.248 (5.69-6.30)	.064 (1.63)	305 (1.36)	385 (1.71)	Dome	<a href="#">3ES-R5026-00</a>									
	.126 (3.2)	.187 (4.8)										.362 (9.2)	CSK	<a href="#">3ES-R5027-00</a>								
	.063 (1.6)	.125 (3.2)										.341 (8.7)	.055 max (1.40)	.221-.245 (5.61-6.22)								
	.126 (3.2)	.187 (4.8)										.402 (10.2)										
3/16" (4.8 mm)	.188 (4.8)	.250 (6.4)	.192 (4.88)	.196 (4.98)	.455 (11.6)	.186-.191 (4.72-4.85)	.061-.081 (1.55-2.06)	.357-.393 (9.07-9.98)	.104 (2.64)	575 (2.56)	840 (3.74)	Dome	<a href="#">3ES-R5028-00</a>									

Dimensions in inches (Millimeters).

### INSTALLATION TOOLING

Size	Recommended Base Tool	Jaws	Nose	Jaw Pusher
1/8" (3.2 mm)	PROSET1600MCS	PRG402-8A	PRN434	DPN239-144
3/16" (4.8 mm)	PROSET2500MCS	13300	PRN634	DPN275-027



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# MICRO RIVETS

2mm diameter open end rivets



## Overview

POP® Micro Rivets have a low head height for tight spaces and low rear side protrusion, ideal for PCB's and thin sheet metal applications. Micro Rivets are installed from one side of the work piece delivering low in-place cost and fast assembly. They offer a fast, permanent, vibration resistant joint without deforming the work piece.

## Features and Benefits

- / Smallest open end rivet, ideal for thin sheet metal and PCB applications
- / Uniform consistent fastening with simple tooling and minimal operator training
- / Eliminates strip-out and torque failures associated with micro screws
- / Minimal rear side protrusion, excellent in confined space applications
- / Shallow profile head height
- / Ideal for electronics applications

## Assembly Applications



COMPUTER CHASSIS



LAPTOP COMPONENTS



LCD ASSEMBLY



MOTHERBOARD ASSEMBLY



applicable markets /



DEMO



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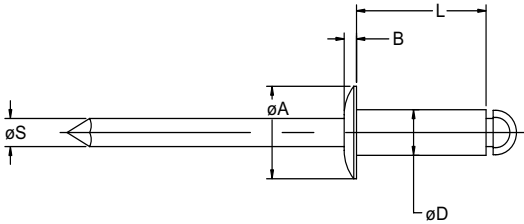
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# MICRO RIVETS

## Specifications

- / Sizes: 2.0mm
- / Material: Aluminum
- / Head Styles: Dome



ø					ø D	L	ø S	ø A	B	Part No.
	nom.	min.	max.	min.						
.079 (2.0mm)	.020 (0.5)	.063 (1.6)				.161 (4.1)				<a href="#">3ES-R5031-00</a>
	.039 (1.0)	.126 (3.2)	.080 (2.03)	.084 (2.13)	.075-.081 (1.91-2.06)	.224 (5.7)	.043 (1.10)	.141-.156 (3.58-3.96)	.018-.029 (0.46-0.74)	<a href="#">3ES-R5032-00</a>
	.126 (3.2)	.189 (4.8)				.291 (7.4)				<a href="#">3ES-R5033-00</a>

Dimensions in inches (Millimeters).



### INSTALLATION TOOLING

Recommended Base Tool	Jaws	Nose	Jaw Pusher
PROSET1600MCS	PRG402-02	PRN214	DPN239-144



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# PULL-THRU (PT) RIVETS

Miniature double countersunk rivets



## Overview

POP® Pull-Thru rivets are ideal where clearance is limited and a flush set is required on both sides of the application. The PT rivet is a steel countersunk blind fastener designed to set surface flush on both sides of an application allowing for smaller size chassis and housings. As the name suggests Pull-Thru rivets feature a unique mandrel that does not break, instead pulling all the way through the rivet body and avoiding concerns associated with loose stem heads in electronic applications.

## Features and Benefits

- / Flush-set on both sides for double countersunk materials
- / Insertion can be reversed, improving rivet tool access
- / Unique "Pull-Thru" mandrel
- / No mandrel heads remain anywhere in the application
- / Consistent clamp force
- / Tight radial set provides increased structural stiffness
- / Suitable for high-speed automation
- / Can be used with the POP® Rivet Presenter to facilitate cycle times as fast as 2 seconds
- / Colored mandrel options for identification of different sizes



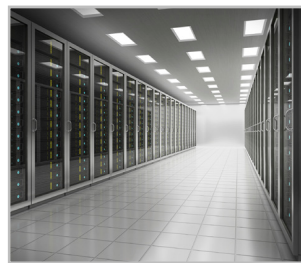
## Assembly Applications



COMPUTER CHASSIS



SERVER ASSEMBLY



PRINTERS



applicable markets /



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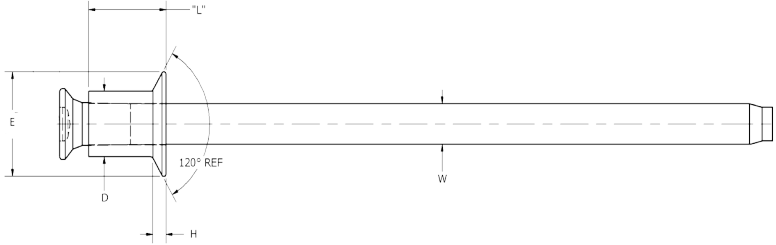


DEMO

# PULL-THRU (PT) RIVETS

## Specifications

- / Sizes: 1/8" (3.2 mm)
- / Material: Steel
- / Head Style: Countersunk



ø	□		⚡	L	D	H	E	W	↔	↕	Part No.	
	nom.	min.										max.
1/8" (3.2 mm)	.059 (1.5)	.079 (2.0)	.129 (3.28)	.134 (3.40)	.098 (2.5)	.114-.121 (2.90-3.07)	.030-.039 (0.76-0.99)	.193-.216 (4.90-5.49)	.072 (1.83)	180 (0.8)	157 (0.7)	<a href="#">3ES-R5023-00</a>
	.079 (2.0)	.098 (2.5)			.110 (2.8)							<a href="#">3ES-R5024-00</a>
	.098 (2.5)	.118 (3.0)			.130 (3.3)							<a href="#">3ES-R5025-00</a>

All dimensions in inches (Millimeters)

### INSTALLATION TOOLING

Recommended Base Tool	Jaws	Nose	Jaw Pusher
PROSET1600MCS	13300	PRN414	DPN239-144



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# MINIATURE INSERTS



## Symmetrical and Flanged Miniature Dodge® Inserts



### Overview

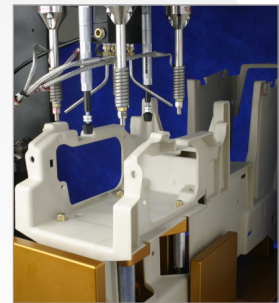
Dodge® Miniature Inserts are designed with opposing diagonal knurls that provide excellent torque resistance and undercuts for tensile strength. Inserts can be installed with heat or molded in.

**Low Profile Symmetrical Inserts (type 1)** are ideal for high-volume production, allowing for use with auto-feed tooling, eliminating the need for correct orientation and allowing higher production and lower total assembly cost.

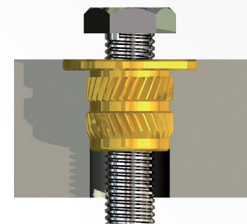
**Flanged Inserts (type 2)** feature a lead-in pilot at the front end of the insert that accurately positions the insert prior to installation. The added flange provides a larger bearing surface which is advantageous in weaker plastics.

### Features and Benefits

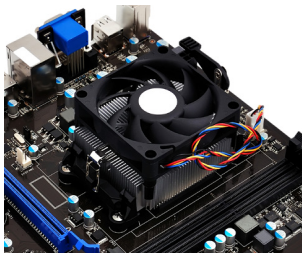
- / Thread sizes as small as 1mm
- / Lead-in pilots provide rapid and accurate positioning
- / Symmetrical design for faster assembly - ideal for automation
- / Flange design enhances performance in weaker plastics and composites
- / Can be installed with heat, or molded in
- / Diagonal knurls provide greater torque resistance
- / Undercuts offer greater tensile strength
- / Optimized for use with STANLEY Engineered Fastening miniature machine screws



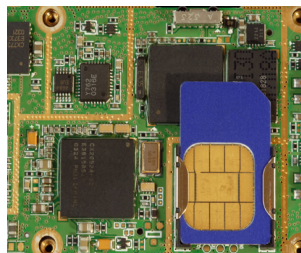
MULTI-HEAD THERMAL INSTALLATION EQUIPMENT



### Assembly Applications



FAN MODULES



SMART PHONES



PRINTERS



MEDICAL EQUIPMENT



applicable markets /



DEMO



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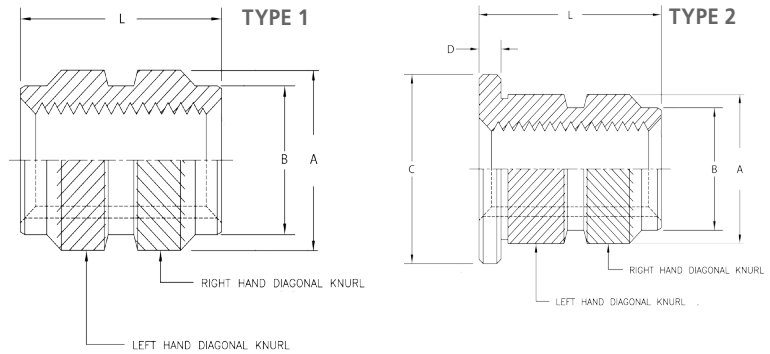
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# MINIATURE INSERTS



## Specifications

- / Sizes: M1 - M1.6
- / Material: Brass, Stainless Steel
- / Profile: Low Profile, Flanged



Thread Size x Pitch	L (+/- 0.05)	A (+/-0.08)	B (+/-0.08)	C (+/-0.13)	D (+/-0.08)	Material	Part No.
<b>LOW PROFILE SYMMETRICAL INSERT (TYPE 1)</b>							
M1.0 x 0.25	1.50mm	2.00mm	1.62mm	-	-	Brass	<a href="#">3ES-I5001-00</a>
M1.2 x 0.25	1.75mm	2.13mm	1.75mm	-	-	Brass	<a href="#">3ES-I5002-00</a>
M1.4 x 0.30	2.00mm	2.36mm	1.98mm	-	-	Brass	<a href="#">3ES-I5003-00</a>
M1.6 x 0.35	2.25mm	2.58mm	2.20mm	-	-	Brass	<a href="#">3ES-I5004-00</a>
<b>LOW PROFILE SYMMETRICAL INSERT (TYPE 1)</b>							
M1.0 x 0.25	1.50mm	2.00mm	1.62mm	-	-	Stainless	<a href="#">3ES-I5005-00</a>
M1.2 x 0.25	1.75mm	2.13mm	1.75mm	-	-	Stainless	<a href="#">3ES-I5006-00</a>
M1.4 x 0.30	2.00mm	2.36mm	1.98mm	-	-	Stainless	<a href="#">3ES-I5007-00</a>
M1.6 x 0.35	2.25mm	2.58mm	2.20mm	-	-	Stainless	<a href="#">3ES-I5008-00</a>
<b>FLANGED INSERT (TYPE 2)</b>							
M1.0 x 0.25	1.50mm	2.00mm	1.62mm	2.32mm	0.30mm	Brass	<a href="#">3ES-I5009-00</a>
M1.2 x 0.25	1.75mm	2.13mm	1.75mm	2.60mm	0.30mm	Brass	<a href="#">3ES-I5010-00</a>
M1.4 x 0.30	2.00mm	2.36mm	1.98mm	2.96mm	0.35mm	Brass	<a href="#">3ES-I5011-00</a>
M1.6 x 0.35	2.25mm	2.58mm	2.20mm	3.18mm	0.41mm	Brass	<a href="#">3ES-I5012-00</a>
<b>FLANGED INSERT (TYPE 2)</b>							
M1.0 x 0.25	1.50mm	2.00mm	1.62mm	2.32mm	0.30mm	Stainless	<a href="#">3ES-I5013-00</a>
M1.2 x 0.25	1.75mm	2.13mm	1.75mm	2.60mm	0.30mm	Stainless	<a href="#">3ES-I5014-00</a>
M1.4 x 0.30	2.00mm	2.36mm	1.98mm	2.96mm	0.35mm	Stainless	<a href="#">3ES-I5015-00</a>
M1.6 x 0.35	2.25mm	2.58mm	2.20mm	3.18mm	0.41mm	Stainless	<a href="#">3ES-I5016-00</a>



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is a technically superior internal thread form that can be applied to internally threaded products to create ultimate vibration resistance, improve load distribution and joint integrity without the need for a locking patch. For more information on Spirallock® [CONTACT US](#).



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# PRESS NUTS

Load-bearing threads in thin sheet materials



## Overview

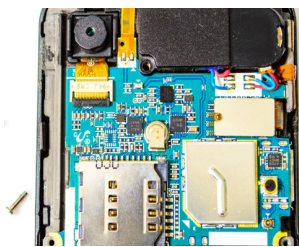
Miniature Press Nuts provide load-bearing threads in thin sheet materials (aluminum, steel, and other ductile materials). Simple visual inspection of proper installation and a strong, knurled collar, which is completely embedded in the panel, secures the fastener in limited space applications and provides excellent resistance to push out and torque-out.

## Features and Benefits

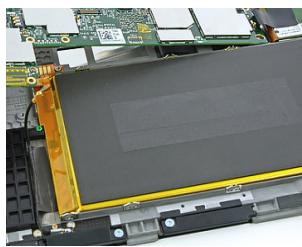
- / Ideal for mounting and spacing in thin sheet materials with limited space
- / Provides a robust reusable female thread in thin sheet materials
- / Resists push out
- / Torque-out resistant knurl profile
- / Installed manually or via automation
- / Available in recyclable Tape and Reel delivery system



## Assembly Applications



SMART PHONES



TABLETS



PRINTERS



FLAT PANELS



applicable markets /



DEMO



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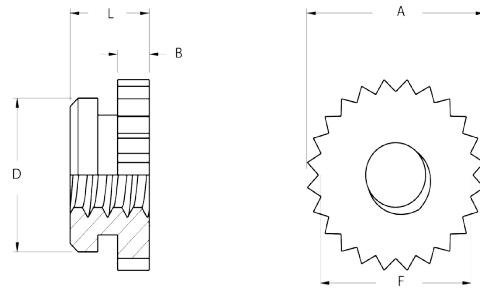
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# PRESS NUTS

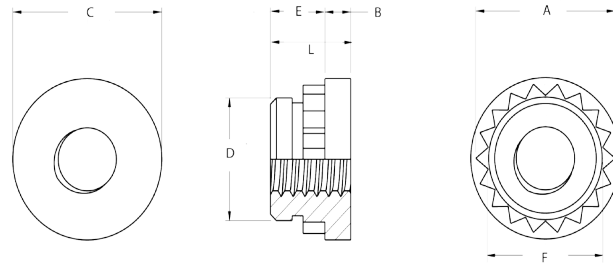
## Specifications

- / Sizes: M1 - M5
- / Materials: Stainless Steel
- / Profile: Knurled Round Body

BOSS TYPE



SURFACE TYPE



Thread Size x Pitch	A +/-0.10	B +/-0.05	C +/-0.05	D +/-0.05	E +/-0.05	F ø	L	Part No.
<b>BOSS TYPE - STAINLESS STEEL</b>								
M1.0 x 0.25	2.25	0.40	-	1.80	-	1.95	1.00	<a href="#">3ES-C5017-00</a>
M1.2 x 0.25	2.50	0.40	-	2.00	-	2.28	1.10	<a href="#">3ES-C5018-00</a>
M1.4 x 0.30	3.00	0.50	-	2.20	-	2.56	1.35	<a href="#">3ES-C5019-00</a>
<b>SURFACE TYPE - STAINLESS STEEL</b>								
M1.6 x 0.35	3.20	0.80	3.60	2.60	1.60	2.76	2.40	<a href="#">3ES-C5034-00</a>
M2.0 x 0.40	4.00	0.90	4.30	3.30	1.90	3.34	2.80	<a href="#">3ES-C5035-00</a>
M2.5 x 0.45	5.00	1.00	5.50	4.10	2.10	4.16	3.10	<a href="#">3ES-C5036-00</a>
M3.0 x 0.50	6.00	1.10	6.50	4.90	2.30	5.00	3.40	<a href="#">3ES-C5037-00</a>
M3.5 x 0.60	7.00	1.30	7.50	5.60	2.80	5.84	4.10	<a href="#">3ES-C5038-00</a>
M4.0 x 0.70	8.00	1.50	8.50	6.50	3.20	6.70	4.70	<a href="#">3ES-C5039-00</a>
M5.0 x 0.80	10.00	1.60	11.80	8.20	3.70	8.30	5.30	<a href="#">3ES-C5040-00</a>



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is a technically superior internal thread form that can be applied to internally threaded products to create ultimate vibration resistance, improve load distribution and joint integrity without the need for a locking patch. For more information on Spiralock® [CONTACT US](#).



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# ULTRA STANDOFF

Shouldered screws with female internal threads

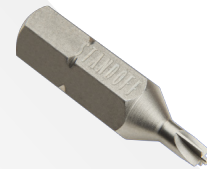


## Overview

STANLEY Engineered Fastenings Ultra Standoff screw consists of a shouldered (machine thread) screw with internal female threads located in the head, underneath a special drive recess\*.

## Features and Benefits

- / Creates a miniature Standoff for use with miniature inserts (Dodge®) and tapped housings
- / Ideal for restricted space applications
- / Provides reusable load bearing threads
- / Join two objects spaced part from each other utilizing a single location
- / Nylon locking patch for vibration resistance
- / Unique Ultra Standoff drive bit

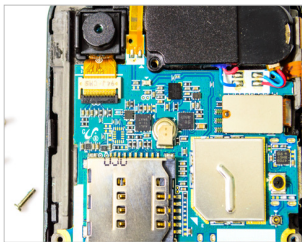


ULTRA STANDOFF DRIVE BIT

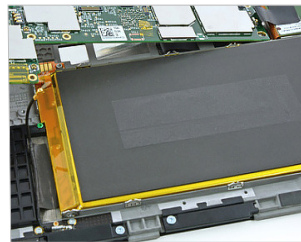


PART NO. 357-TS001-61

## Assembly Applications



SMART PHONES



TABLETS



applicable markets /



DEMO



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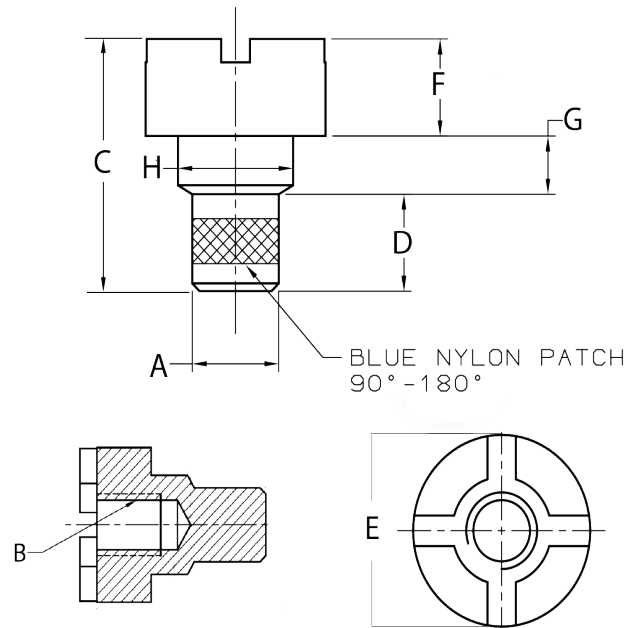
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# ULTRA STANDOFF

## Specifications

- / External Threads: M1.2 X P0.25-6h
- / Internal Threads: M1.0 X P0.25-5H
- / Material: Stainless Steel
- / Head Style: Cheese Head
- / Drive System: Ultra Standoff



Part Number	Description	Thread size		C	D	E	F	G	H
		(external)	(internal)						
<a href="#">3ES-S5022-00</a>	M1.2 X 2.85 X P0.25-6h	M1.2	M1.0	2.85	1.00	2.50	1.00	1.85	1.6
<a href="#">3ES-S5021-00</a>	M1.2 X 3.25 X P0.25-6h	M1.2	M1.0	3.25	1.25	2.50	1.25	2.00	1.6



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**Spirallock**® is a technically superior internal thread form that can be applied to internally threaded products to create ultimate vibration resistance, improve load distribution and joint integrity without the need for a locking patch. For more information on Spirallock® [CONTACT US](#).



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# ACU<sup>®</sup> COAT

## High Performance Cosmetic Eco-Coating



### Overview

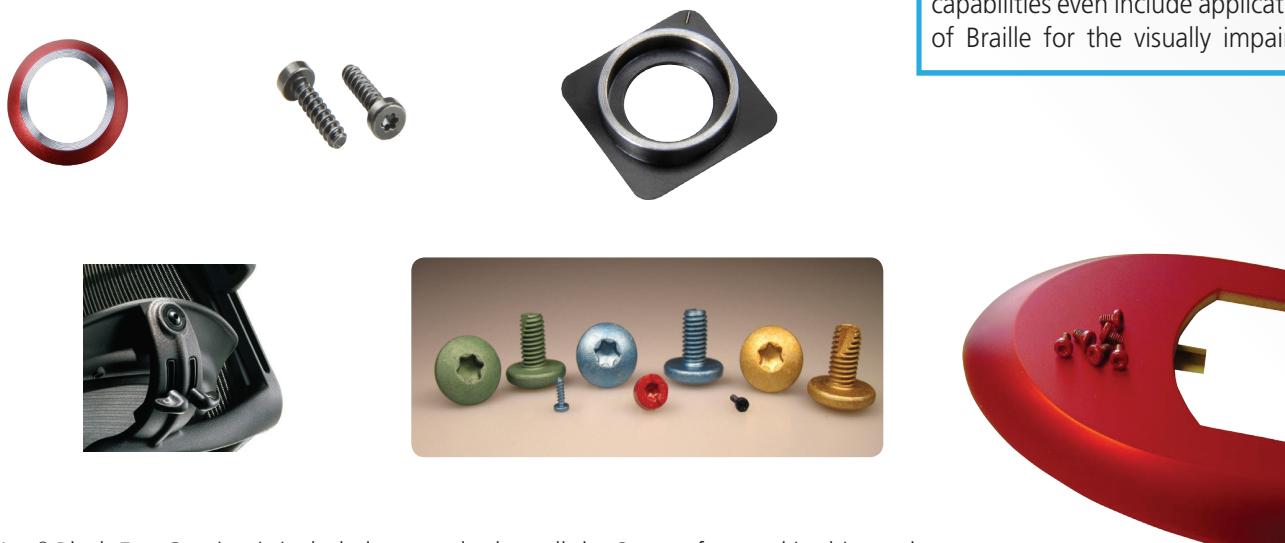
ACU<sup>®</sup> modified acrylic, multilayer, dry touch coatings are engineered to provide durable, corrosion resistant, environmentally friendly, Pantone<sup>®</sup> color finish, free of chromates and silicates. ACU<sup>®</sup> coat is low friction finish allowing consistent torque-tension relationships without need for post-coating lubricants.

### Features and Benefits

- / Maximizes fastener performance
- / RoHS compliant (chrome free)
- / Available in Pantone<sup>®</sup> colors with a smooth satin finish
- / Low friction – eliminates the need for post-coating lubricants
- / No introduced hydrogen – eliminating possible hydrogen embrittlement concerns of electroplating
- / Durable tough finish – doesn't come off during handling or repeat installations
- / Uniform coating thickness minimizes recess fill
- / More eco-friendly coating than those with plated zinc or other traditional finishes

Gemstone<sup>™</sup> cosmetic and performance product finishes enhance a products look and physical performance. A range of cosmetic machine finishes for aesthetics and performance coatings are detailed in this catalogue; look for the pages featuring the Gemstone logo. Our capabilities even include application of Braille for the visually impaired

### Assembly Applications



Acu<sup>®</sup> Black Eco-Coating is included as standard on all the Screws featured in this catalogue



applicable markets /



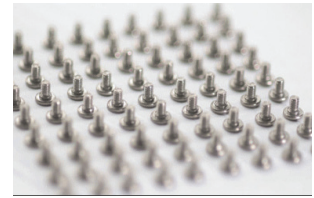
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## Ultimate Clean Room Coating

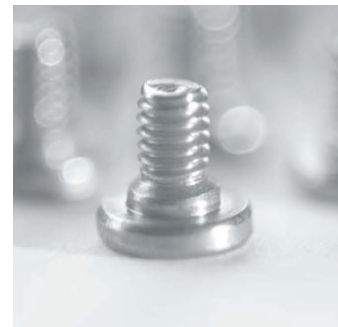


### Overview

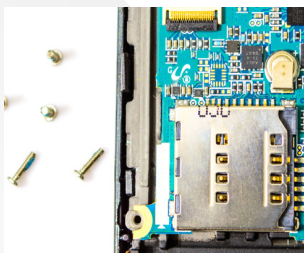
Optia® thin-film, lubricious polymer covering specifically developed for the electronics industry. It minimizes friction and particle generation in fasteners as small as M0.8 diameter, while the decreased k factor provides higher clamp force with less seating torque.

### Features and Benefits

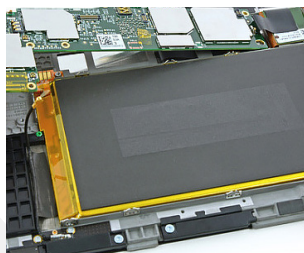
- / Extremely clean screws ideally suited for high capacity disk drives
- / Zero defect assembly and manufacturing processes to optimize yield
- / Faster assembly through automation and reduced torque-related line failures
- / Minimized debris generation
- / Compliance with hazardous substances restrictions RoHS and WEEE
- / Meets or exceeds Class 100 Clean Room requirements
- / Reduced seating torque reduces strip out which enables the use of lower profile heads
- / 0.5µm Thin layer coating avoids recess fill and does not require fastener tolerance adjustments
- / Decreased k factor (torque coefficient or nut factor) provides higher clamp force with less seating torque



### Assembly Applications



MOBILE DEVICES



TABLETS



HDD

applicable markets /



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# CNC MACHINE FINISHES



## Precision Quality Cosmetic Finishes



### Overview

Unique design custom CNC and machine finishes can be applied to fasteners and trim components to complement and enhance the aesthetics of modern electronic devices.

### Features and Benefits

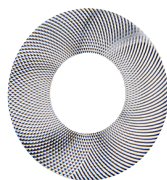
- / Fasteners that improve rather than detract from product aesthetics
- / Create a high quality feel to the product
- / Showcases attention to detail of the design
- / Differentiates the final assembly from copy products and fakes
- / Possible to create texture and braille to touchable components
- / Wide range of designs and custom finishes available



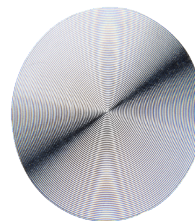
### Specialist Custom CNC Finishes



Amberine™  
sunflower spiral



Zirconite™  
glimmer spiral



Tanzanite™  
CD finish



DiamondHD™  
dynamic cut



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# PVD COATING



Physical Vapor Deposition  
Cosmetic Performance Coating

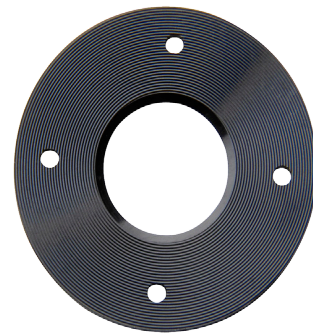


## Overview

PVD is a premium performance environmentally friendly coating that offers exceptional resistance to corrosion, abrasion and UV light. PVD coated products have a clean vivid color finish, ideal for aesthetic and repeated handling applications on mobile devices and home media products. PVD is used in multiple electronics applications due to its hardness, adhesion and corrosion properties combined with low friction coefficient. PVD is applied by vaporizing materials in vacuum coating conditions.

## Features and Benefits

- / Thin film environmentally friendly coating
- / Produces high quality vivid colors
- / High corrosion and abrasion resistance
- / Color resistant to UV exposure
- / Reduced friction
- / Cleaning products and sweat resistant



PVD is applied by vaporizing materials in vacuum coating conditions.



**Gemstone™**

For further information on any of the Gemstone™ coatings and finishes featured in this catalogue please [CONTACT US](#)

*Stanley Engineered Fastening creating products that look as good as they perform*

applicable markets /



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# BREAKSTEM RIVET TOOLS

**ProSet**<sup>®</sup> - Compact, lightweight and reliable pneumatic / hydraulic power tools, ideal for production line environments.



## Overview

The ProSet<sup>®</sup> range comprises high performance, lightweight hydro-pneumatic hand tools for breakstem rivets. The tough ergonomic construction allows for swift placement while the light design reduces operator fatigue. Designed for setting rivets from 2mm - 6.4mm and 3/32" - 1/4"

## Features and Benefits

- / Lightweight robust construction
- / Comfortable two finger, low activation force trigger
- / Directional air exhaust (MCS model)
- / Quick disconnect front-end assembly and Mandrel Collection System (MCS)
- / Suitable for use with POP<sup>®</sup> Remote Mandrel Collection System (MCS5000)
- / Spring return for a reliable fast setting cycle
- / Energy saving on/off, left or right swivel air fitting
- / POP<sup>®</sup> Rivet Presenter compatible
- / Available in deflector or MCS versions
- / Air-isolation switch during MCS removal



### OPTIONAL ACCESSORIES

Base Tool	Option Part Number	Option Description
Proset1600MCS	FAN239-174	Front End 5" Length Extension Kit
Proset1600MCS & 2500MCS	FA203-408	Adapter Kit for MCS5000 Remote Mandrel Collection System
Proset1600MCS & 2500MCS	MCS5000	Remote Mandrel Collection System
Proset1600MCS & 2500MCS	RP4	Rivet Presenter 1/8" (3.2) Diameter Rivets (Receptacle Needed)
Proset2500MCS	FAN275-132	Front End 5" Length Extension Kit
Proset2500MCS	FAN275-132	Reduced Diameter .686" (17.4mm) Front End Kit
Proset2500MCS	PRH830	Mini Corner Head (Adapter Needed)
Proset2500MCS	PRH840	Medium Corner Head (Adapter Needed)
Proset2500MCS	RP6	Rivet Presenter 3/16" (4.8) Diameter Rivets (Receptacle Needed)



DEMO

# SPEED FASTENING® TOOLS

## 7530 Hand Tool

High performance, hydro-pneumatic handtool in heavy duty plastic, designed for rapid, blind side installation of speed fasteners. The intensifier is separate from the handtool. One tool places the entire range of speed fasteners.

- / Average cycle time of less than 2 seconds to increase productivity – up to 1500 fasteners per hour
- / High capacity, magazine fed fasteners reduce component handling and subsequent spillage
- / Robust and durable construction makes it suitable for most industrial environments
- / Lightweight construction (split handtool and intensifier) and low actuation recoil reduces operator fatigue
- / Available with in-line handle and top or bottom hose configuration
- / Low maintenance hand tool maximizes productivity and eliminates specialist maintenance training
- / Long life, self priming intensifier provides consistent actuation and resulting joint formation
- / Long reach barrel for use in many restricted access applications

### 753 STANDARD TOOL



### SUSPENDED



### AUTOLOAD MK 5



A suspended version is available that can be supported on a balancer to be quickly and easily moved or discarded – reducing downtime and operator fatigue.

The Autoload option provides bowl fed fasteners to minimize reloading downtime and maximise productivity. The fasteners are automatically loaded onto the mandrel. When fasteners on one mandrel are spent, the tool is placed in the nest and the system inserts a fully-loaded replacement into the modified 753 tool. The system features an operator interface board that displays real-time reports on machine cycles and fault diagnostics. The data also can be linked to a network allowing off-site monitoring and maintenance.

## 7537 Hand Tool

Lightweight, hydro-pneumatic handtool with integrated intensifier places the whole range of speed fasteners.

- / Average cycle time of approx. 1 second increases productivity
- / Integrated intensifier makes it flexible to use in different production environments
- / Toughened plastic body and heavy duty rubber base increase the impact resistance and durability
- / Can place the same range of fasteners and uses the same nose equipment as 7530 hand tool
- / Ease of maintenance due to integral cycle counter
- / Avdel® patent protected features



7537 HANDTOOL



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# RIVET AUTOMATION

## Workstations and Assembly Systems

Complete workstations for the individual requirements of the electronics industry. Ranging from simple pantograph workstations to multi-head, customized equipment, these systems can dramatically reduce assembly time and costs while improving consistency of placing. Together with the fasteners, these precision tools create a high quality, reliable assembly system.

## Handtools and Workstations

Some examples of Avdel installation tools especially suited for the electronics industry:



70510 Under bench workstation



70510 Under bench workstation



Single-head workstations provide rapid assembly, making them cost effective even with small batch sizes. Available as pantograph, fixed arm or under bench workstation.



Mini MAS offers double head parallel riveting and linear positioning of one riveting module for progressive adjustment of the riveting pitch from 29 up to 120 mm (optional 17 -108 mm).

## Point and Set® portable auto-feed POP® riveting

- / Reliable high-speed riveting up to 35 rivets / minute
- / Feeds 1/8", 5/32" or 3/16" (3.2, 4.0 or 4.8mm) rivets
- / Keeps track of the number of rivets set
- / Collects spent mandrels for recycling

- / Integrated operator interface provides real time feedback
- / Hand tool is lightweight, ergonomic and easily removed for service
- / Uses standard off-the-shelf POP® brand rivets



Options include in-line suspended hand tool

Rivets are automatically delivered and loaded into the tool.



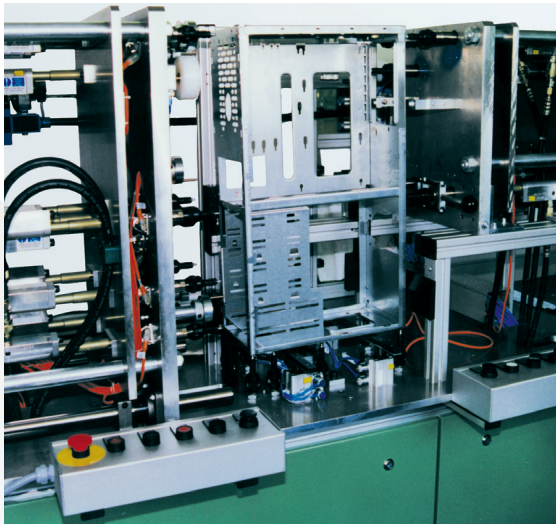
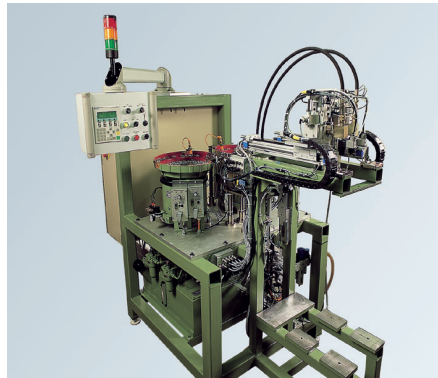
applicable markets /



# SPEED RIVET AUTOMATION

## Customized Assembly Solutions

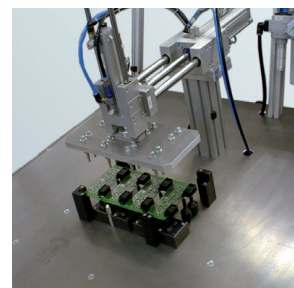
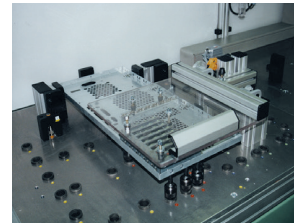
These systems can dramatically reduce assembly time and costs whilst improving consistency due to synchronous placement of multiple fasteners. The direction, type and number of assembly heads can all be customized, the systems can be designed for virtually any application or assembly environment. We have designed equipment from two heads to more than eighty heads; the configurations are almost limitless. Process monitoring equipment or clamping modules can be easily integrated. An additional benefit of these systems are the practical jig points provided by the assembly heads. ESD construction is optional.



29 placing heads to assemble computer chassis using Speed Fastening® rivets.



Speed Fastening® module with rivet process monitoring and release function at balancer arm for assembly of AC converter.



Multiple head workstations especially designed for assembly of various electronic components.

[CONTACT US](#) - for further information on design of small, medium and high volume automated systems

applicable markets /



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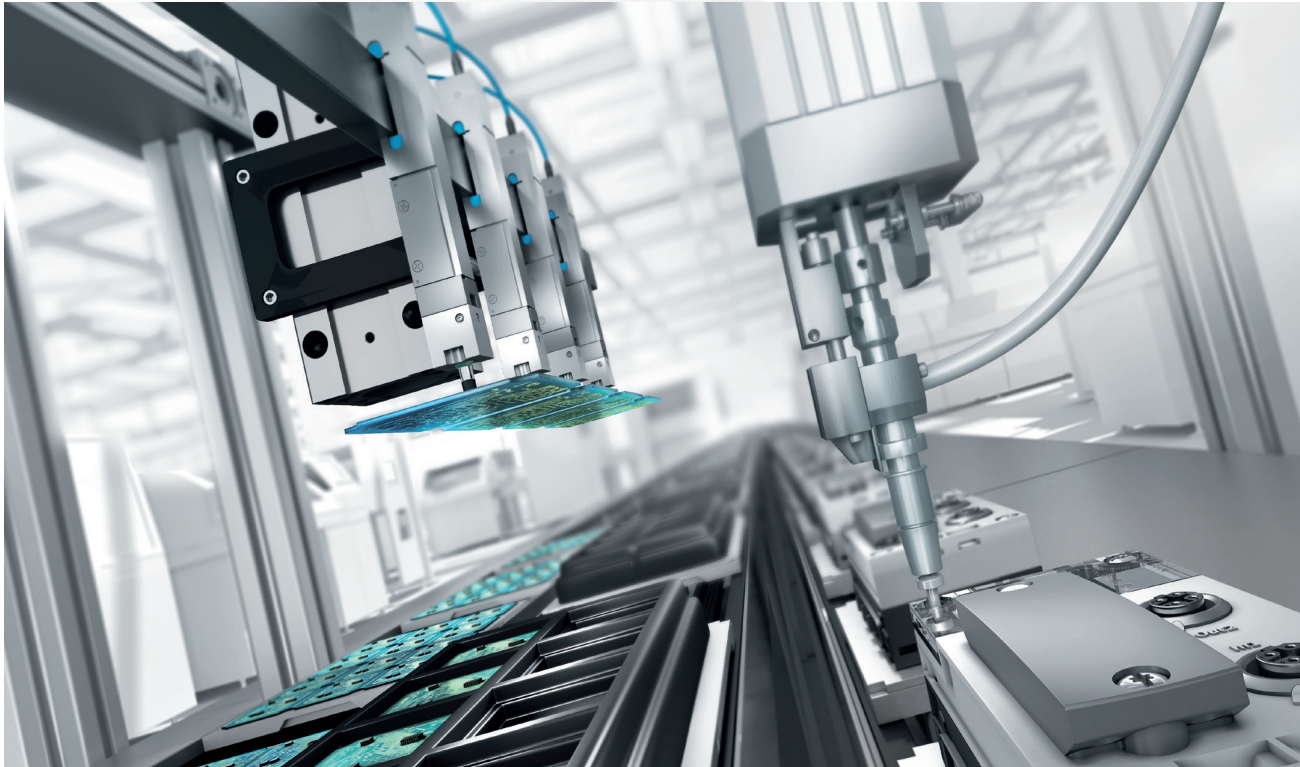
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# THREADED PARTS AUTOMATION

Systems for high speed, low cost small part assembly

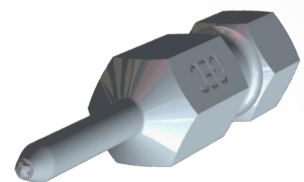


## Overview

STANLEY Engineered Fastening works directly with partners like FESTO to develop tailored, compact and economical automation solutions which allow you to reduce your production costs and improve assembly efficiencies. Advanced product handling, fixturing, feeding and screw driving systems can be designed for almost any application and combined with process monitoring to ensure maximum quality.

## Features and Benefits

- / Utilize cutting edge design automation technologies
- / Reliable vision control motion systems
- / High speed handling, screw driving and testing
- / Vacuum technologies for micro mechanical components
- / Ultra HD drive bits
- / Drive bits equipped with our advanced iSymm® drive alignment feature
- / Complete solutions from single-axis movement to 3D
- / Easy to design and operate with software support



DRIVE BIT WITH ISYMM® FEATURE



applicable markets /



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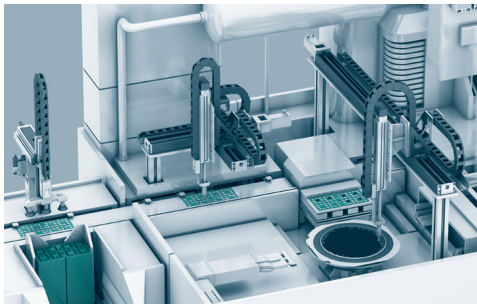
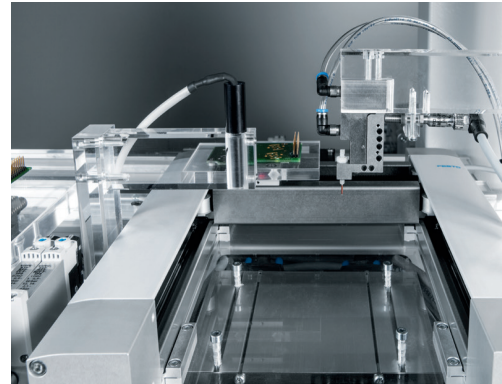
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# In partnership with...

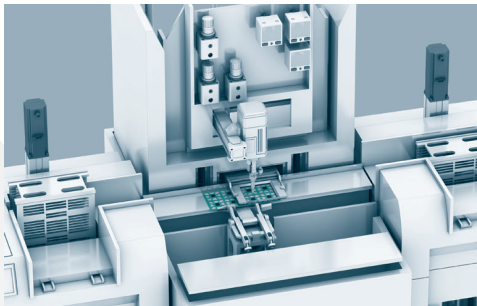
# FESTO

- / Ever-shorter innovation cycles
- / Miniaturization and flexibility in manufacturing and assembly
- / Time and cost pressures
- / Highly complex processes

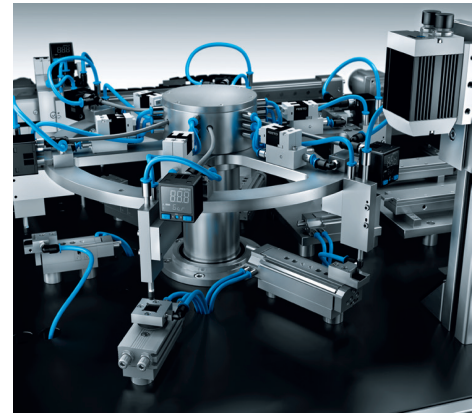
These are just some of the challenges faced every day in the semiconductor, small parts assembly and electronics manufacturing industries. Our industry specialists are familiar with these challenges and they know your process sequences inside out.



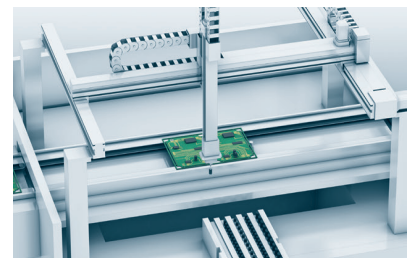
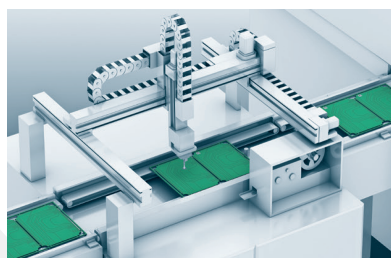
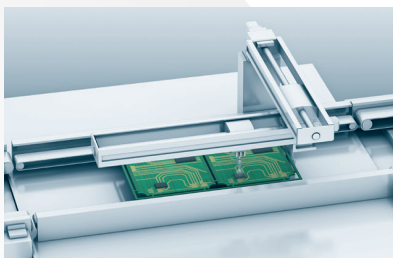
Automation solutions; assembly operations



With a selection of over 30,000 electrical and pneumatic components, STANLEY Engineered Fastening and Festo can put together the ideal solution for your automated assembly needs, from innovative recess bit systems and compact electric drives to complete handling systems. Everything from a single source.



Automation solutions; multiple part handling



Automation solutions; complete electrical and pneumatic solutions for maximum productivity

[CONTACT US](#) - for further information and design of small, medium and high volume automated systems



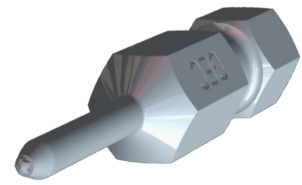
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# ULTRA HD DRIVE BITS



## Overview

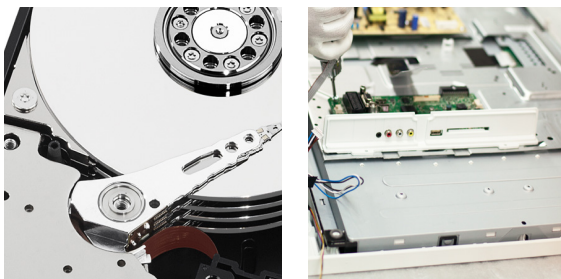
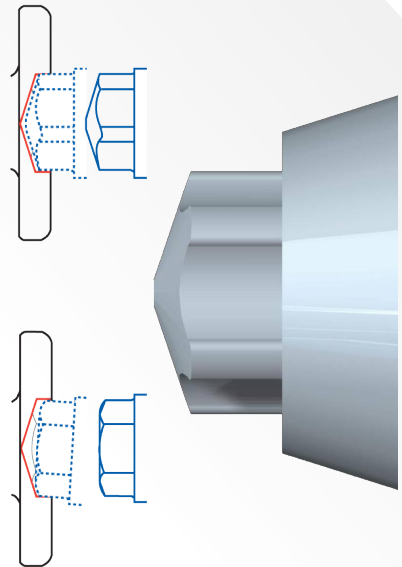
STANLEY Engineered Fastening Ultra HD drive bits are proven to keep assembly lines running smoother and more efficiently by offering increased drive system strength and maximum bit life compared to conventional drivers. The Ultra HD profile and precision bit manufacturing technology provide enhanced bit engagement, fit and alignment to reduce debris generation and improve durability.

## Features and Benefits

- / Provides significant improvement in drive bit life\*
- / Optimizes torque transfer
- / Significantly reduces camout
- / Absolutely minimal debris generation
- / Reduces end load and worker fatigue
- / Reduces annual drive bit costs
- / Eliminates corner break
- / Run-out increases drive utilizations
- / Reduced downtime, number of bit changes and rework

\*Compared to conventional 6 lobe drive bits

**iSymm<sup>®</sup>** conecular drive bit alignment feature is an extension to existing straight side wall drive systems (Torx<sup>®</sup>, Torx Plus<sup>®</sup>, 6-lobe, Hex etc.) iSymm<sup>®</sup> affects only the drive bit, not the existing recess, greatly enhancing recess performance; making it ideal for high volume assembly



WIDELY USED ACROSS ALL SECTORS OF THE ELECTRONICS MARKET



applicable markets /



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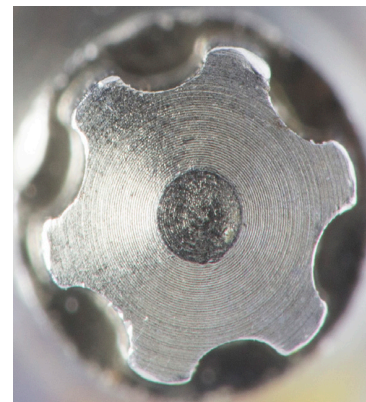
DEMO

# ULTRA HD DRIVE BITS

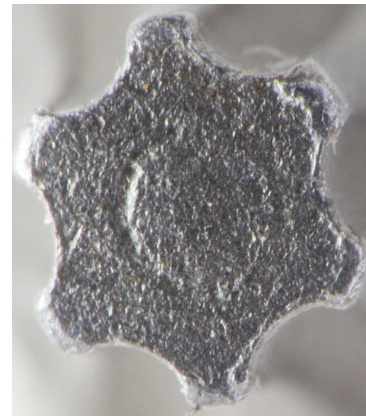
Ultra HD 6LDX™ Drive Bits with iSymm® (1" x 1/4" Hex Shank)		
Part Number	Size	Compatible with Torx Plus® recess
<a href="#">357-T0104-61</a>	D-1	1IP
<a href="#">357-T0201-61</a>	D-2	2IP
<a href="#">357-T0305-61</a>	D-3	3IP
<a href="#">357-T0405-61</a>	D-4	4IP
<a href="#">357-T0518-61</a>	D-5	5IP
<a href="#">357-T0613-61</a>	D-6	6IP
<a href="#">357-T0802-61</a>	D-8	8IP
<a href="#">357-T1001-61</a>	D-10	10IP
<a href="#">357-T1501-61</a>	D-15	15IP
<a href="#">357-T2001-61</a>	D-20	20IP
<a href="#">357-T2501-61</a>	D-25	25IP



6LDX™ HD DRIVE BIT WITH ISYMM® FEATURE



ULTRA HIGH DEFINITION 6LDX™ BIT



COMPETITOR TORX PLUS® DRIVE BIT



BITS ARE AVAILABLE IN VARIOUS SHANK STYLES ON REQUEST

STANLEY Engineered Fastening drive bits and recesses feature ultra high definition profiles that maximise drive performance, minimize debris generation and significantly enhance bit life - greatly improving quality and reducing assembly costs.



DEMO



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# COLD FORMED SPECIALS

Precision cold formed components

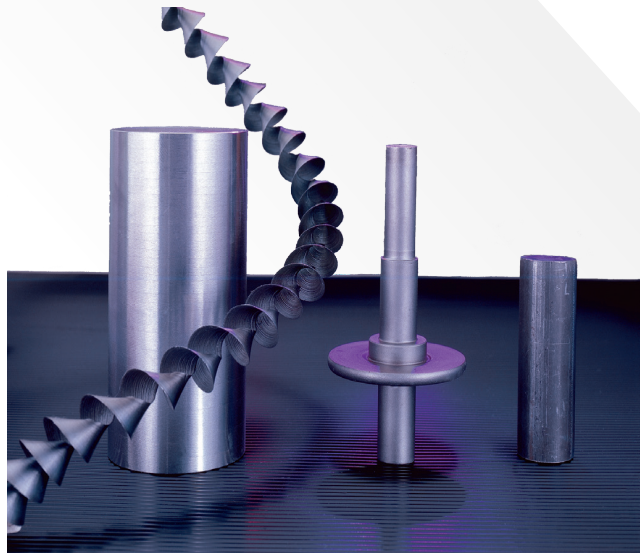


## Overview

STANLEY Engineered Fastening is a specialist in cold forming (cold heading) complex forms without causing scrap material. Since raw material can be the most expensive aspect of a part, cold forming is often a lower cost alternative to screw machining and other manufacturing methods. Our advanced cold forming technology and expertise allows for increasingly complex components to be manufactured at very high production rates.

## Features and Benefits

- / Highly technical cold formed parts
- / Reduced component cost
- / Less scrap material
- / Enhanced grain flow and component strength
- / Ideal for high production volumes
- / Full engineering and design services
- / Can be combined with secondary CNC operations



The cold formed cut off (right) is often significantly smaller than the screw machined blank (left) required to form the same part (shown in the middle).

Cold formed cut-off: 326 lbs./1000 pcs.  
 Screw machined blank: 3,000 lbs/1000 pcs.  
 Raw material savings: 2,674 lbs/1000 pcs.



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# PRECISION CNC

High end precision machined parts

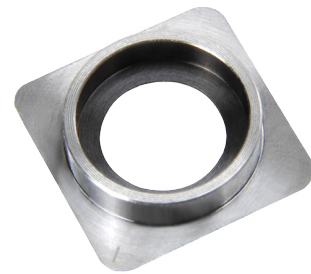


## Overview

Our proprietary CNC capabilities enable us to create parts with enhanced aesthetics, textures and degrees of precision not seen before from mechanical electronics components manufacturers. Precision CNC parts offer the most precise tolerances, they can be made in a wide range of materials and sizes including titanium and aluminum in micro miniature components, ideally suited to consumer electronics applications.

## Features and Benefits

- / Precision CNC capabilities in three continents
- / High production volume competency
- / Short run and rapid prototyping expertise
- / Full engineering and CNC design services
- / Range of aesthetic finishes can be applied
- / Fast high volume production machines
- / Advanced 4 axis machines for highly complex parts



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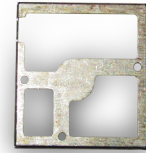
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# MICRO STAMPINGS

Precision micro stamped components

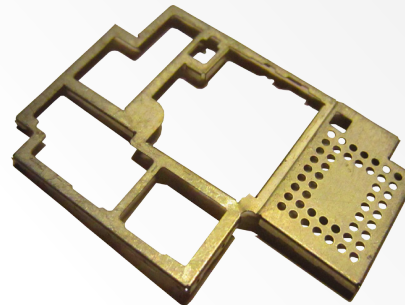


## Overview

STANLEY Engineered Fastening offers a wide range of precision micro stampings for the electronics industry. Our high speed micro stamping technology is efficient and enables the production of technically complex parts in a range of different materials. Our high volume progressive die production equipment and expert engineering team support custom designs and utilize wire Electrical Discharge Machining (EDM) and secondary stamping operations for small volume prototyping.

## Features and Benefits

- / Technically complex part capabilities
- / Ideal for high production volumes
- / Full engineering and design services
- / Intricate shapes and sizes
- / Range of standard and exotic materials available
- / Made to customer specification
- / Can be applied in Tape and Reel



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# TAPE AND REEL

Components supplied in Tape and Reel

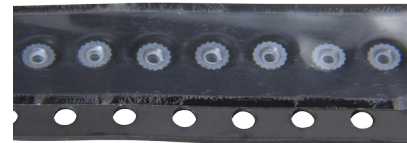


## Overview

Tape and Reel delivery systems offer extensive benefits to electronics production environments, especially those invested in surface mount technology. STANLEY Engineered Fastening offers a variety of performance tape and reel delivery systems to meet customer demands and protect the parts from moisture, particles and blemishes that can occur during shipping and placement. Components are fed indexed in consistent orientation for high speed pick and place assembly machines, ensuring quality electronic assemblies.

## Features and Benefits

- / Maintains clean dust and moisture free components
- / Aides handling of miniature components
- / Ideal for automated pick and place systems
- / Range of different tape materials to customer specification
- / Reel sizes available to customer specification
- / Protects aesthetic finished components



# MICRO PINS

Micro machined or cold formed pins

## Overview

Micro pins are prevalent in many modern electronic devices from hinge pins in tablets and laptops to spacer pins and dowel pins used in home media devices. Our cold forming and micro machining capabilities enable us to offer the most cost effective solutions to meet customer needs.

## Features and Benefits

- / High quality precision parts
- / Range of different materials available
- / Designed to customer specification
- / Complex, high volume, cold formed production
- / Short run and rapid prototyping expertise



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# SAMPLE KITS

## Electronic Standards Kit

A selection of samples from all product lines featured in this catalog including products from our line of Gemstone™ performance coatings and cosmetic finishes. The Electronics Standards Kit is designed to highlight the quality and range of parts available in the electronics standards line.



PART NUMBER: 3ES-KES01-00

## Drive System Kit

All 11 of our Electronic Standards ULTRA HD drive bits with the iSymm® drive alignment feature plus our Ultra Stand-off bit and a STANLEY Engineered Fastening brand drive handle.



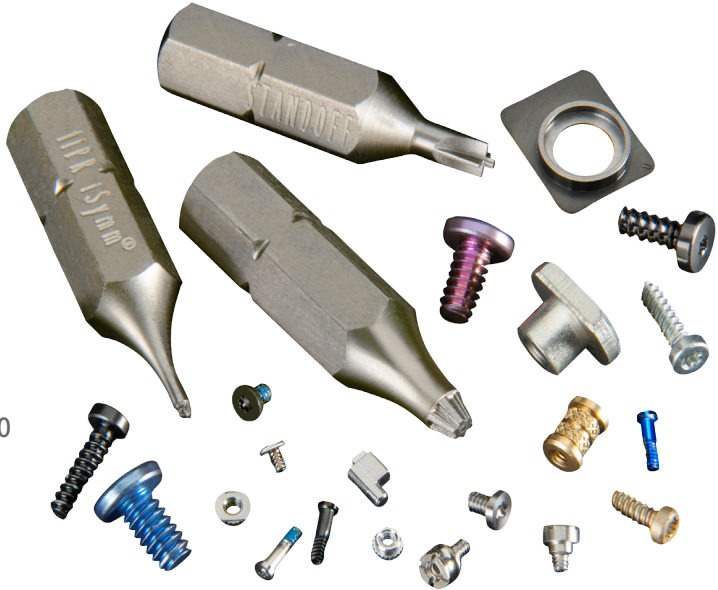
PART NUMBER: 3ES-KDB02-00



# Preferred Performance Design Kit

We offer our Preferred Performance Design Kit for engineering groups to enhance R&D and accelerate prototype design and assembly.

The kit which is supplied in a high quality Vidmar™ storage unit, includes a nominal prototype quantity of all the common sized Electronics Standards covered in this catalog along with an enhanced selection of drive bits. A selection of nose equipment and basic installation components for Speed Fastening® and blind rivet products is also available as an optional addition to the base kit.



PART NUMBER: 3ES-PPD03-00

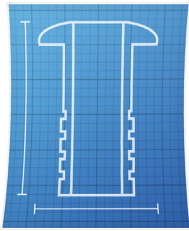
If you would like further information about our Preferred Performance Design Kit or any of the sample kits detailed on these pages please speak with your local STANLEY Engineered Fastening representative or contact your nearest location STANLEY Engineered Fastening location.

[REQUEST SAMPLE KITS](#)



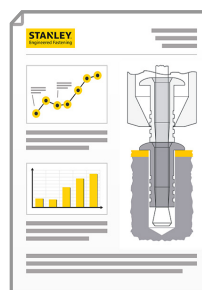
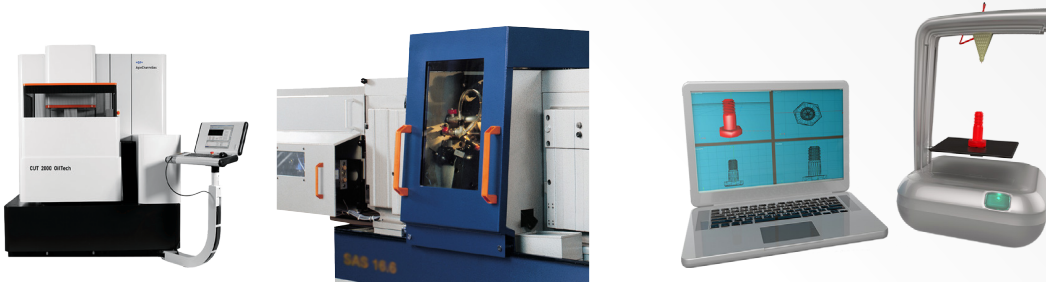
# DESIGN AND PROTOTYPING

## Fast 5 Day Rapid Prototyping

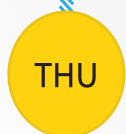


Send us your application parameters or concept fastener print on Monday, from anywhere in the world...

We apply Finite Element Analysis and 3D modelling to prove out the design and produce rapid tooling components, prototypes and samples



We'll ship out prototype samples with full supporting test data by Friday.



STANLEY Engineered Fastening is a supply partner to the major electronics industry OEMs, CMs and ODMs, our Global Electronics Group is lean and fast, equipped to meet the most demanding production lead times and rapid prototype development. Our team of experienced field application engineers have unrivaled depth of knowledge, helping customers reduce manufacturing costs and improve the quality and performance of their products.

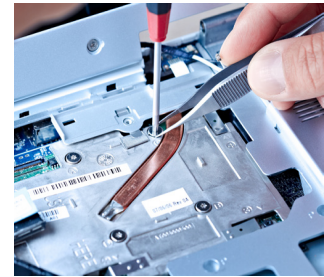


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# TECHNICAL SUPPORT



STANLEY Engineered Fastening VA / VE services offer a cross-functional, creative and systematic approach to help eliminate waste and improve customer manufacturing processes efficiency and product quality. Our experienced team of application engineers work directly with design and manufacturing professionals and line operators to identify and develop proven VA / VE solutions for our customers.

## VA / VE Services

- / Product Teardown
- / On-Site / On-Line Assembly evaluation
- / Assembly Process Design
- / Fastener Consolidation Program



## Application Engineering Services

- / Fastener Selection
- / Application Component Design
- / Joint Analysis
- / Performance and Application Testing
- / Rapid Prototyping
- / Training Seminars



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Angic Global Solutions

1-888-872-0690

<https://www.AngicGlobal.com> [Sales@AngicGlobal.com](mailto:Sales@AngicGlobal.com)

# CUSTOMIZATION

## Specials

STANLEY Engineered Fastening offers a wide range of special features, coatings and performance enhancing elements for all of the products and tooling in our portfolio. The standard range of products within this catalogue have been optimized for performance and feature sets best suited to the electronics industry, however if you require modifications to any of these designs please don't hesitate to [CONTACT US](#).

Below is a list of some of the special options available...

### Geometries

- / Special Head Forms
- / Shoulders & Flanges
- / Standoffs
- / Custom Lengths & Sizes
- / Thread Pitch & Profiles
- / Screw Points / Tips
- / Drive Recesses
- / Knurl Profiles

### Coatings & Finishes

- / High Corrosion Coatings
- / Cosmetic Finishes
- / Organic Coatings
- / High Lubricity Coating
- / Clean Room Finishes
- / PVD Coatings
- / Colored Anodize
- / Zinc & Nickel Coatings
- / Phosphate
- / Black Oxide

### Drive Systems

- / Torx®
- / Security Torx®
- / Security Torx Plus®
- / Tio™ Drive
- / Cross Recess
- / Pozi Compatible
- / Slotted
- / Hex
- / Custom Specials

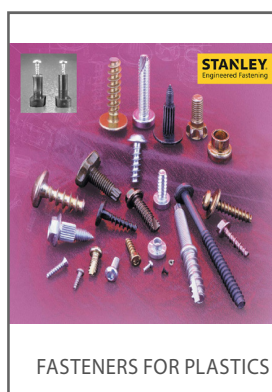
### Materials

- / Steel Grades
- / Aluminum Grades
- / Stainless Steel Grades
- / Titanium
- / Brass
- / Inconel
- / Monel

Additional information on the range of special options available can be found in the design guides listed below

## Design Guides

### [THREAD FORMING FOR METALS](#)



### [THREAD FORMING FOR PLASTICS](#)

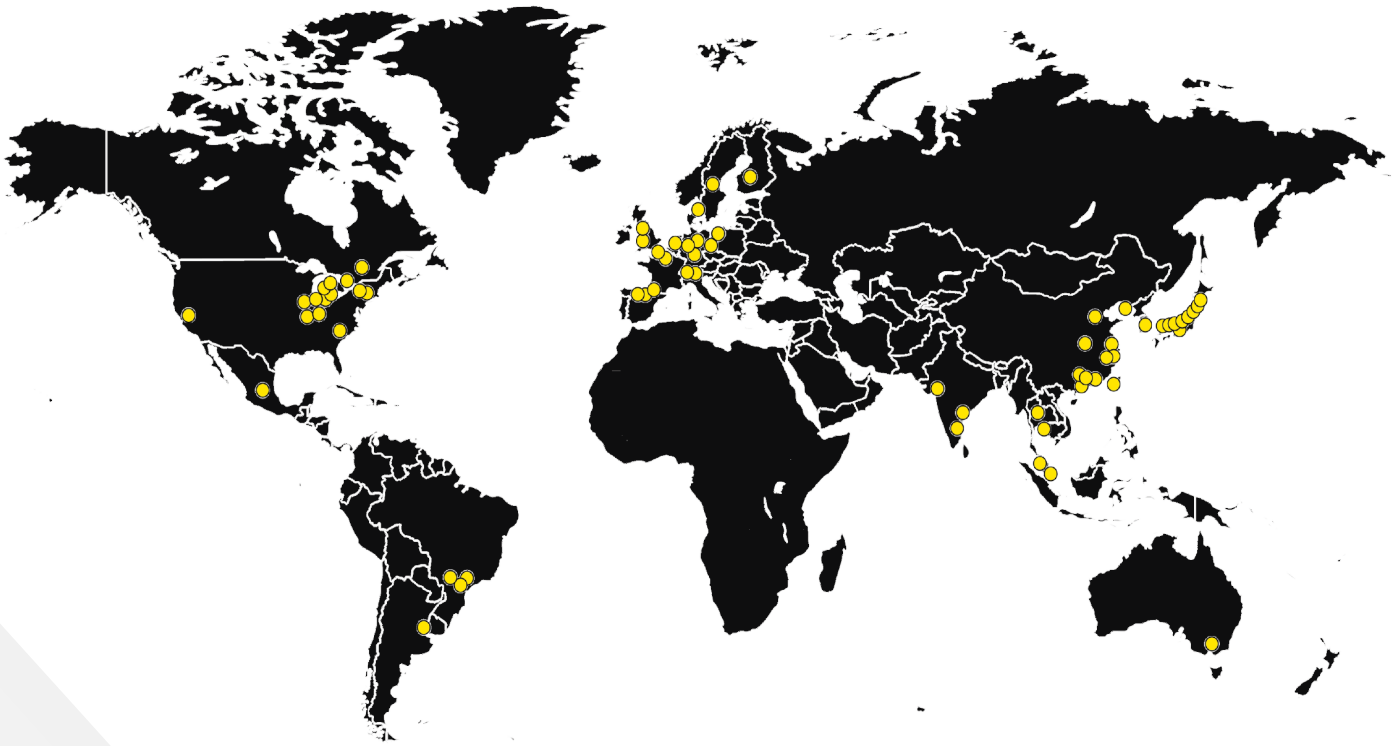
### [INSERTS DESIGN GUIDE](#)



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# STANLEY®

Engineered Fastening



STANLEY Engineered Fastening, a Stanley Black & Decker Inc. Company has been revolutionizing fastening and assembly technologies for a variety of industries for more than 40 years.

For more information, please visit our website  
[www.StanleyEngineeredFastening.com](http://www.StanleyEngineeredFastening.com)

## Quick Links:

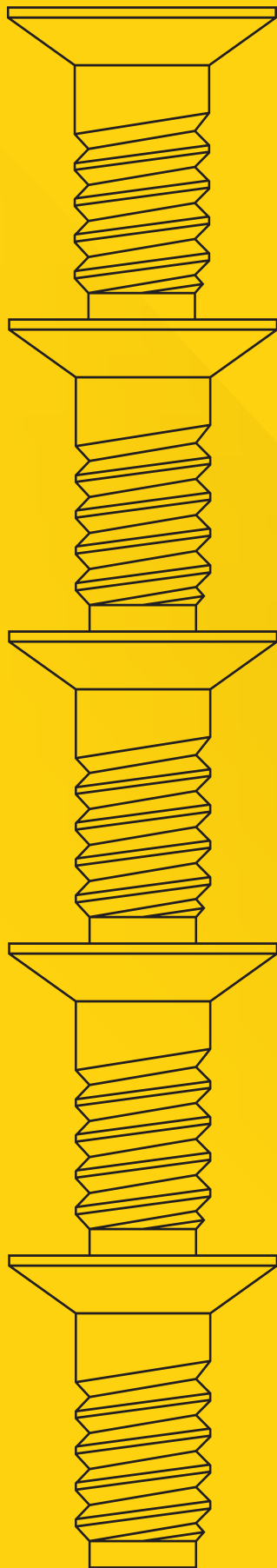
► Our locations  
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► Request Information  
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