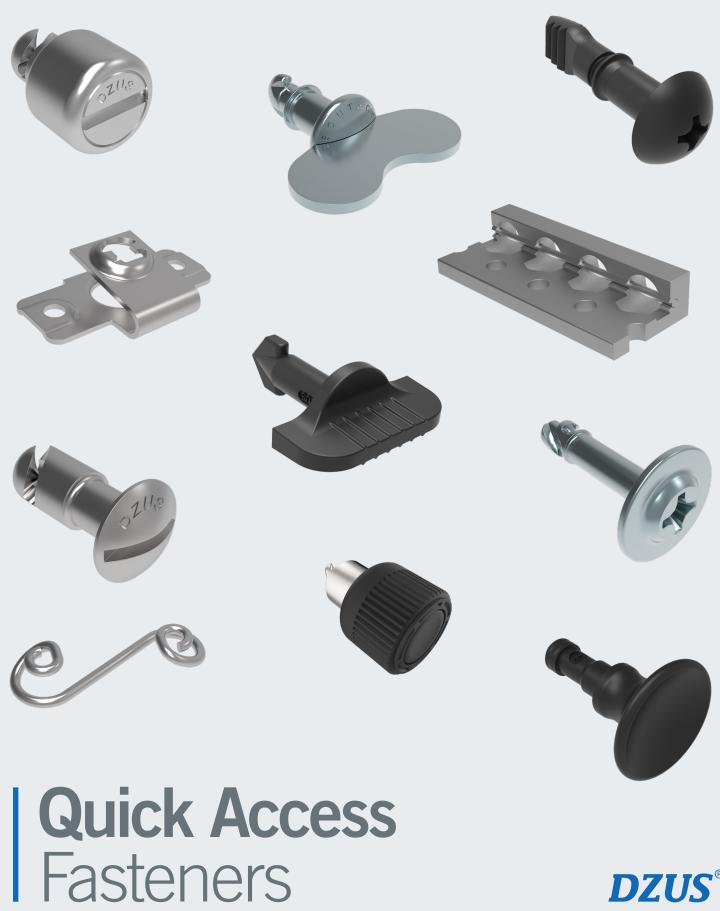
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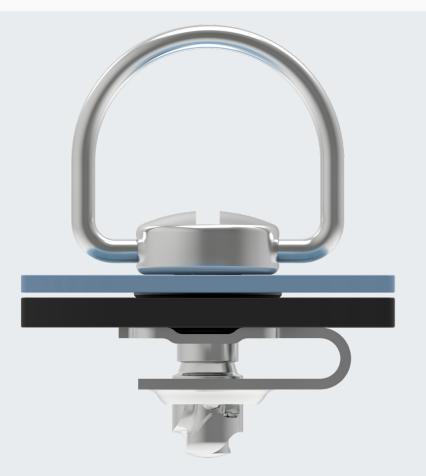




Quick Access Fastening The Southco Advantage

Southco's **DZUS**[®] Quick Access Fastener series is one of the most recognized quick release fastening brands and is the first choice for many of the world's leading manufacturers across industrial and engineering sectors.

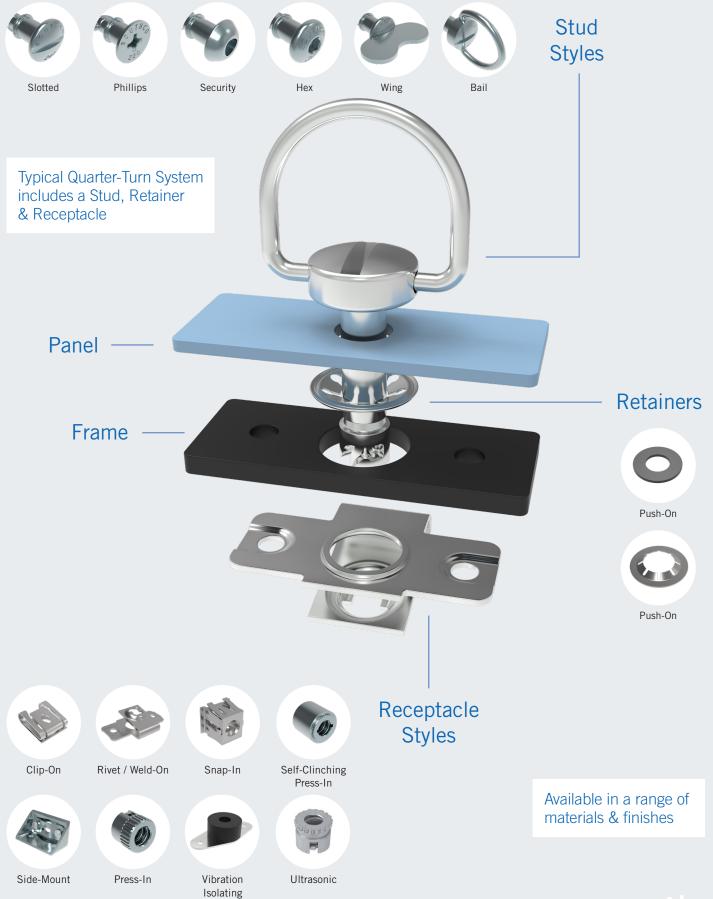
FEATURES		BENEFITS
Captive panel installation	> > >	Eliminates lost hardware
Proven cam and receptacle design	> > >	Stays fastened under vibration load
Repeatable function with set amount of fastening force	> > >	Cannot be overtightened and has consistent engagement
Wide range of diameters and mounting options	> > >	Product fits many types of applications
Rapid fastening	> > >	Quick access to save time



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* DZUS is a registered trademark of Southco. Inc.

Overview Quick Access Fasteners

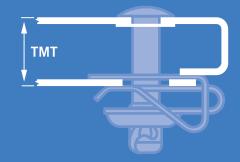


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Design Considerations

When selecting the appropriate Quick Access Fastener for an application, there are a variety of design factors that must be considered, including material thickness, cycle life and tensile load.

Total Material Thickness (TMT) is required to determine stud length. TMT is calculated using formulas based on receptacle type, optional accessories and application parameters. To calculate TMT and complete your design, use the formulas provided in your Southco handbook or visit: **southco.com**





APPLICATION REQUIREMENTS

- What tolerance range do the panels have?
- Does the panel design provide consistent material thickness?
- Is the alignment of frame and panel consistent?
- Does the receptacle need to be installed in a blind hole?
- How frequently does the panel need to be accessed?



PRODUCT PERFORMANCE

- Is there a clamping load?
- Do panels need to be compressed?
- What are the load requirements?
- What is the expected cycle life?





- Is corrosion resistance required?
- Will the application see extreme temperatures?



SERVICE REQUIREMENTS

- Are the panels frequently accessed?
- Do the panels need to be tool secured or hand actuated?

VIBRATION RESISTANCE

- Is the panel mounted on a transportation application that is subject to motion and impact?
- Will the panel need to resist shaking due to a running motor?



Range of Design

Southco offers an extensive selection of **DZUS**[®] Quick Access Fasteners to satisfy a broad range of requirements for quick access, high strength and economical performance. Each product line comes with its own set of matched receptacles for accurate, secure engagement and convenient mounting in a range of applications.



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Quarter-Turn to Close & Open Spade Cam Design

82/85 Lion

- 2 Diameters
- 8 Head Styles
- 8 Receptacle Styles
- 3 Retainer Styles
- TMT Variance: 0.5mm
- TMT Range: up to 15mm
- Tensile Load: High*
- Cycle Life: 2000+ cycles*
- Vibration Resistance: Moderate*





D1 Dart

- Plastic design
- Lightweight
- 4 Head Styles
- 5 Receptacle Styles
- Self-ejecting when unfastened
- TMT Variance: 1.2mm
- TMT Range: up to 19mm
- Tensile Load: Low*
- Cycle Life: 2000+ cycles*
- Vibration Resistance: Moderate*

* Consult Southco Test Data Guidelines for additional information. Guidelines are provided for applications under normal operating conditions. Product testing in your application is recommended.



Quarter-Turn to Close & Open External Spiral Cam Design





D2 Rapier

Vibration Resistance: Moderate*

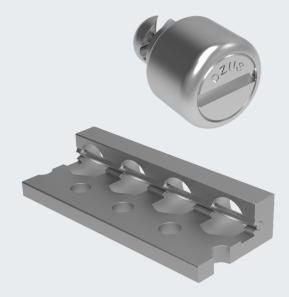


D9 Tech line

- Knob color options available
- Self-ejecting when unfastened
- 3 Receptacle Styles •
- TMT Variance: 0.5mm •
- TMT Range: up to 9.2mm
- Tensile Load: Medium*
- Cycle Life: 500-2000 cycles* •
- Vibration Resistance: Moderate*

* Consult Southco Test Data Guidelines for additional information. Guidelines are provided for applications under normal operating conditions. Product testing in your application is recommended.

Quarter-Turn to Close & Open Internal Spiral Cam Design



D5 Panel Line

- Meets aerospace certifications
 & finish specifications
- Self-ejecting when unfastened
- 4 Receptacle Styles
- TMT Variance: 0.2mm
- Max. Panel Thickness: 3.2mm
- Tensile Load: High*
- Cycle Life: 500-2000 cycles*
- Vibration Resistance: High*

D4 Standard Line

- Meets aerospace certifications
 & finish specifications
- 4 Sizes (3, 4, 5, 6)
- 5 Head Styles
- 4 Receptacle Styles
- TMT Variance: 0.7mm
- TMT Range: up to 19mm
- Tensile Load: High*
- Cycle Life: 500-2000 cycles*
- Vibration Resistance: High*





* Consult Southco Test Data Guidelines for additional information. Guidelines are provided for applications under normal operating conditions. Product testing in your application is recommended.



Push to Close, Quarter-Turn to Open



D7 Pilot

- Self-ejecting when unfastened
- 2 Receptacle Styles
- TMT Variance: 2.4mm
- TMT Range: up to 7mm
- Max. Panel Thickness: 4.8mm
- Tensile Load: Medium*
- Cycle Life: 2000+ cycles*
- Vibration Resistance: Moderate*

D7 Arrow

- Plastic design
- Lightweight
- 3 Head Styles
- TMT Variance: 2.9mm
- TMT Range: up to 6.7mm
- Tensile Load: Low*
- Cycle Life: 2000+ cycles*
- Vibration Resistance: Moderate*

Push to Close, Pull to Open



NY NYLATCH Panel Fastener

- Plastic design
- Lightweight
- 3 Diameters
- 3 Head Styles
- TMT Variance: 2.3mm
- TMT Range: up to 8.1mm
- Cycle Life: 2000+ cycles*
- Tensile Load: Medium*
- Vibration Resistance: Moderate*

* Consult Southco Test Data Guidelines for additional information. Guidelines are provided for applications under normal operating conditions. Product testing in your application is recommended.

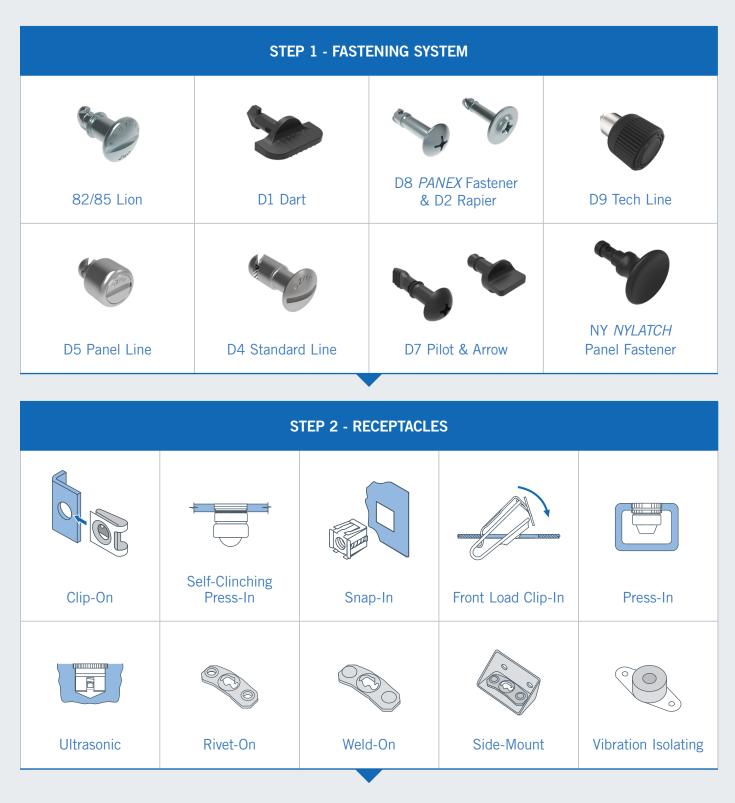
For more information about our full range of options, please visit **southco.com/dzus**



Fast Answers 24/7 info@southco.com



How to Specify A Quick Access Fastener System



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How to Specify A Quick Access Fastener System

Continued from previous page



About Southco

Southco, Inc. is the leading global designer and manufacturer of engineered access solutions. From quality and performance to aesthetics and ergonomics, we understand that first impressions are lasting impressions in product design. For over 70 years, Southco has helped the world's most recognized brands create value for their customers with innovative access solutions designed to enhance the touch points of their products in transportation and industrial applications, medical equipment, data centers and more. With unrivalled engineering resources, innovative products and a dedicated global team, Southco delivers the broadest portfolio of premium access solutions available to equipment designers throughout the world.



Creating first impressions that last. southco.com



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WORLDWIDE MANUFACTURING AND STOCKING LOCATIONS

Concordville, Pennsylvania, USA · Honeoye Falls, New York, USA · Philadelphia, Pennsylvania, USA · Warminster, Pennsylvania, USA · Chihuahua, Mexico · Tecate, Mexico São Paulo, Brazil - Farnham, UK - Worcester, UK - Hong Kong, China - Shenzhen, China - Shanghai, China - Seoul, Korea - Melbourne, Australia - Pune, India - Osaka, Japan