

**NEW!**



SPINNING

CLINCH BOLT

# BULLETIN



SCB 907

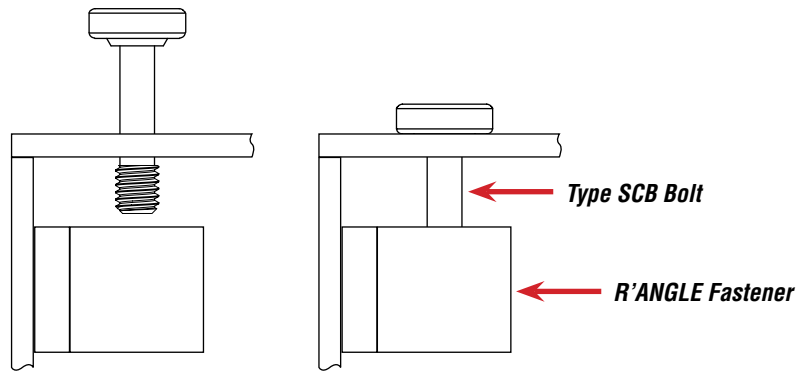
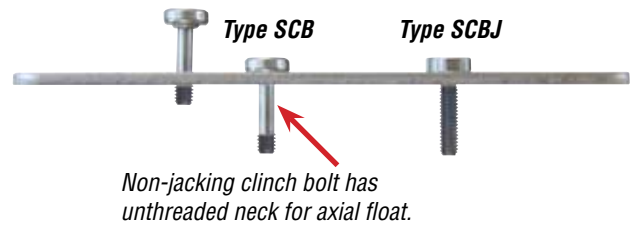
Revised 909

# SPINNING CLINCH BOLT

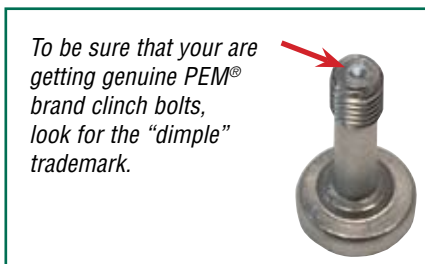
- Permanently captivates into sheets as thin as 1.02 mm and greater.
- Replaces loose hardware.
- Available with jacking feature or axial float feature.
- Appropriate for close centerline-to-edge applications.
- RoHS compliant.

Type SCB™ Spinning Clinch Bolt is a one piece fastener that installs by simply pressing it into a properly sized hole. The controlled clinching action permanently captivates the screw in the panel yet still leaves it to spin freely in the sheet. This allows quick attachment of mating hardware, eliminating much of the need for loose fasteners, such as screws and retaining clips or washers, or expensive multi-component fastener assemblies.

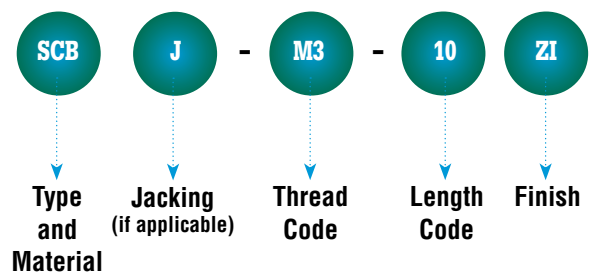
The Spinning Clinch Bolt can also be used with the PEM Type N10 receptacle nut (see PEM Bulletin PF) and with the PEM Type RAS R'ANGLE® fastener (see PEM Bulletin RA).

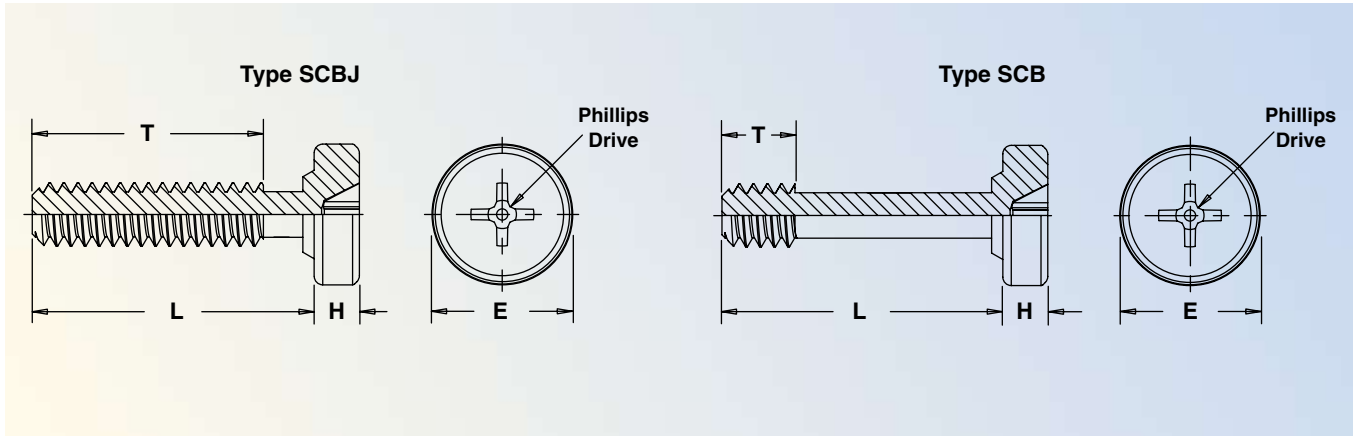


As shown here, Type SCB bolt can be used with a PEM R'ANGLE fastener.



## Part Number Designation





All dimensions are in millimeters.

METRIC	Thread Size x Pitch	Type		Thread Code	Length Code "L" $\pm 0.4$ Length Code in millimeters			Min. Sheet Thickness	Hole Size in Sheet +0.08	E $\pm 0.25$	H Nom.	T Nom.			Driver Size	Min. Dist. Hole C/L To Edge
		Jacking	Non-jacking		-6	-10	-12									
M3 x 0.5	SCBJ	—	M3	6	10	12	1.02	3	6.6	2.03	3.7	7.7	9.7	#1	3.3	
	—	SCB	NA	NA	12	NA					NA	3.3				
M4 x 0.7	SCBJ	—	M4	6	10	12	1.02	4	8.28	2.03	3.7	7.7	9.7	#2	5	
	—	SCB	NA	NA	12	NA					NA	3.3				

(NA) Not Available.

## MATERIAL & FINISH SPECIFICATIONS

**MATERIAL:** Heat-treated Carbon Steel

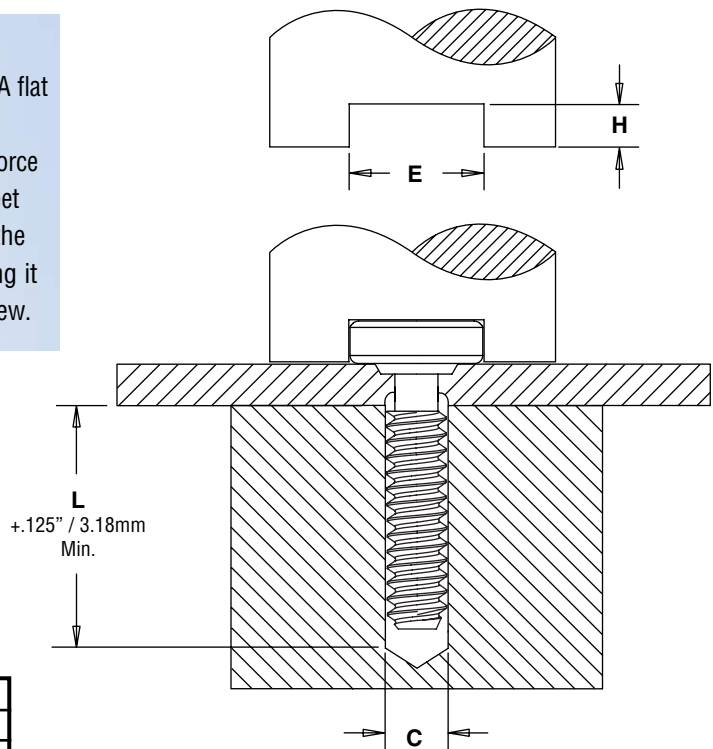
**FINISH:** Standard: ZI - Zinc plated, 5 $\mu$ m, colorless <sup>(1)</sup>

**FOR USE IN SHEET HARDNESS:** HRB 80 (Hardness Rockwell "B" Scale) / HB 150 (Hardness Brinell) or less

(1) See PEM Technical Support section of our web site for related plating standards and specifications.

# INSTALLATION

1. Punch or drill properly sized mounting hole in sheet.
2. Place the fastener through mounting hole and into anvil. A flat or recessed punch can be used.
3. With punch and anvil surfaces parallel, apply squeezing force to the top of the screw head and the underside of the sheet material. The squeezing action forces the shoulder of the screw into the sheet, displacing sheet material, causing it to fill the void under the head and shoulder of the screw.



All dimensions are in millimeters.

METRIC	Thread Code	Anvil Dimensions		
		C	E	H
	M3	3.03 - 3.11	6.86 - 7.11	1.85 - 1.88
	M4	4.03 - 4.11	8.53 - 8.79	1.85 - 1.88

# PERFORMANCE DATA<sup>(1)</sup>

METRIC	Type	Thread Code	Max. Rec. Tightening Torque (N • m)	Test Sheet Material					
				5052-H34 Aluminum			Cold-rolled Steel		
				Installation (kN)	Pushout (N)	Pull Thru (N)	Installation (kN)	Pushout (N)	Pull Thru (N)
	SCB / SCBJ	M3	0.74	8	580	3400	12	650	3400
	SCB / SCBJ	M4	1.7	10	1000	5700	17	1150	5700

(1) Performance values reported are averages when all installation specifications and procedures are followed. Variations in mounting hole size, panel material and installation procedure will affect this data. Performance testing of this product in your application is recommended. We will be happy to provide samples for this purpose.

RoHS compliance information can be found on our website.  
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Check our website for the most current version of this bulletin.

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