

Type SCN™ Spinning Clinch Nut

PEM Type SCN™ Self-clinching spinning nut is a one-piece, flanged hex nut that installs by simply pressing it into a properly sized pre-punched straight hole. The controlled clinching action permanently captivates the nut in the panel yet leaves it to spin freely.

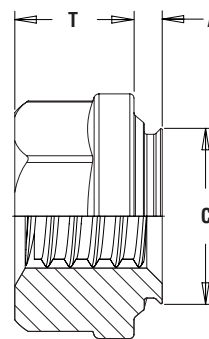
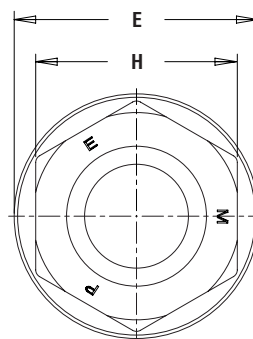
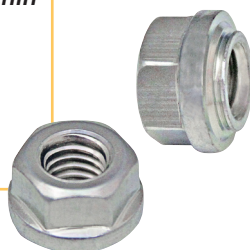
Above the sheet, the part appears identical to flanged hex nuts, while on the other side, the part remains flush or sub-flush. This installation and the fastener's flat flange ensure that the clamp load is generated between the two mating pieces. There is no interference from the nut.

The spinning clinch nut eliminates loose hardware such as flange nuts. When used with a self-clinching stud, such as on a busbar, all loose hardware is eliminated from the applications.



Features and Benefits

- Rotates freely in sheet
- Hand or tool operation
- Permanent installation into sheets as thin as 1.5mm / .060"
- Meets ISO 898-2, Class 8 proof load
- Installs flush on one side
- No complex hole preparation
- Replaces loose hardware



All dimensions are in millimeters.

METRIC	Thread Size x Pitch	Type	Thread Code	Shank Code	A (Shank) Max.	Min. Sheet Thickness	Hole Size In Sheet +0.08	C Max.	E ±0.25	H	T ±0.25
		Fastener Material									
		Steel									
	M6 x 1	SCN	M6	1	1.45	1.5	8.75	8.73	12.1	10	6



Flush on one side of the sheet



Threads: Internal, ASME B1.1, 2B / ASME B1.13M, 6H

Material: Hardened carbon steel

Finish: ZI - Zinc plated, 5µm, colorless

For Use In Sheet Hardness: - HRB 80 / HB 150 or less

HRB - Hardness Rockwell "B" Scale. HB - Hardness Brinell.

Part Number Designation

SCN - M6 - 1 - ZI

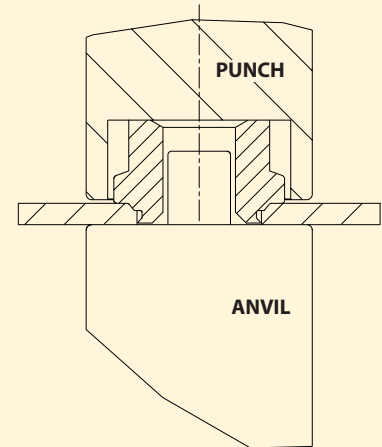
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Type Thread Code Shank Code Finish

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INSTALLATION

1. Prepare properly sized mounting hole in sheet. Do not perform any secondary operations such as deburring.
2. Place the mounting hole over the anvil pin and place the fastener on the pin as shown in the diagram.
3. With installation punch and anvil surfaces parallel, apply squeezing force until the flange of the nut comes into contact with the sheet material.



PEMSERTER® Installation Tooling

Type	Thread Code	Anvil Part Number	Punch Part Number
SCN	M6	8020028	8020027

PERFORMANCE DATA⁽¹⁾

METRIC	Type	Thread Code	Shank Code	Test Sheet Material								
				1.5 mm Aluminum 73 HR15T			1.5 mm Copper 79 HR15T			1.5 mm Steel HRB 55 / HB 96		
				Installation (kN)	Pushout (N)	Torque to Turn ⁽²⁾ (N•m)	Installation (kN)	Pushout (N)	Torque to Turn ⁽²⁾ (N•m)	Installation (kN)	Pushout (N)	Torque to Turn ⁽²⁾ (N•m)
SCN	M6	1	15.2	985	1	20.1	1175	1	27.2	1242	1	

(1) Published installation forces are for general reference. Actual set-up and confirmation of complete installation should be made by observing proper seating of fastener as described in the installation steps. Other performance values reported are averages when all proper installation parameters and procedures are followed. Variations in mounting hole size, sheet material, centerline-to-edge distance and installation procedure may affect performance. Performance testing this product in your application is recommended. We will be happy to provide technical assistance and/or samples for this purpose.

(2) Value shown is maximum to initiate first time rotation.



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