

### **RVTB**™

## PEM® CAPTIVATED THREADED RIVET BUSHES



#### PEM® RVTB™ CAPTIVATED THREADED RIVET BUSHES High performance fasteners designed for use in sheet metal

**PEM® RAB™ and RABS™ round rivet bushes** provide strong reusable threads in panels too thin to be tapped. They can be installed into any material hardness in sheets as thin as 0.5 mm, and can be installed closer to the edge with no panel distortion. They can be easily installed on a Haeger® or PEMSERTER® machine and offer high pushout and torque resistance thanks to their serrated shank.

**PEM®** Type RMAB™ and RMABS™ mini rivet bushes work in the same way as the round type, but have smaller body dimensions for applications where space is restricted.

Both the round and mini style rivet bushes are available in thread sizes from M3 though M5 in mild steel and stainless steel.

#### Benefits include:

- Torque-resistant and capable of withstanding loads applied from both sides.
- Can be installed into any material hardness.
- Can be installed close to the edge with no panel distortion.
- Can be installed in painted chassis materials.
- High pushout performance.
- Custom designed in a wide range of sizes and profiles
- Can be installed into laminate material and non-ductile materials.

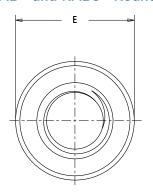
Fastener drawings and models are available at <a href="www.pemnet.com">www.pemnet.com</a>. Custom sizes are available on special order. Contact us for more information.

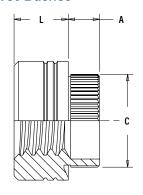


View the installation animation on www.pemnet.com

View full product information on https://www.pemnet.com/eu/products/engineering-guides/pem-rvtb-captivated-threaded-rivet-bushes/

#### RAB™ and RABS™ Round Rivet Bushes





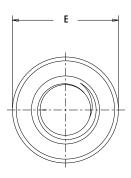


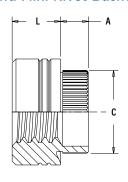
# Part Number Designation RAB - M3 - 20 ZI RABS - M3 - 20 Type Thread Swage Finish Code Code

All dimensions are in millimeters.

		Thread Size x Pitch	Туре		Thread Swa	Swage Code	Swage Code Hole Size in Sheet +0.08	A ±0.13	C Max.	E Nom.	L ±0.25
			Steel	Stainless Steel			1 0.00				
	Metric	M3 x 0.5	RAB RABS		М3	16		1.95	5.98	7.9	3.2
				RABS		18	6	1.85			
						20		1.45			
		M4 x 0.7 RAB				16		1.95			
			RABS M4	M4	18	7	1.85	6.98	9.5	3.8	
						20		1.45			
		M5 x 0.8	8 RAB RABS M5		16	8.4	1.95		11.1	4.4	
				M5	18		1.85	8.38			
					20		1.45				

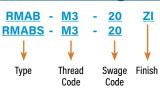
#### RMAB™ and RMABS™ Round Mini Rivet Bushes







#### **Part Number Designation**



All dimensions are in millimeters.

	Thread Size x Pitch	Туре		Thread Code	Swage Code	Hole Size in Sheet +0.08	A ±0.13	C Max.	E Nom.	L ±0.25
		Steel	Stainless Steel		, 5.05	10100				
	M3 x 0.5		RMAB RMABS		16 1.95					
		RMAB		M3	18	4.2	1.85	4.18	5.5	2.8
Metric					20		1.45			
×	M4 x 0.7 RMAB				16		1.95			
		RMABS M4	M4	18	5.5	1.85	5.48	7	3.2	
				20		1.45				
	M5 x 0.8	.8 RMAB RMABS M5		16	6.5	1.95	6.48			
			M5	18		1.85		8.5	3.8	
				20		1.45				

#### **Material and Finish Specifications**

	Compone	nt Material	Standard Finishes		
Туре	Carbon Steel	300 Series Stainless	Zinc Plated per ASTM B633, SCI (5µm), Type III, Colorless <sup>(1)</sup>	Passivated and/or Tested per ASTM A380	
RAB	•		-		
RABS		•		•	
RMAB	•		•		
RMABS		•		•	
Part Number Code for Fi	nished	ZI	None		

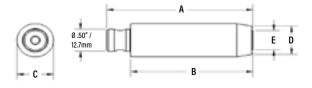
<sup>(1)</sup> See PEM® <u>Technical Support</u> section of our website for related plating standards and specifications.

#### **Installation Tooling**

- 1. Prepare properly sized mounting hole in the sheet. Do not perform any secondary operations such as deburring.
- 2. Place the shank of the fastener into the mounting hole
- 3. With the installation punch and anvil surfaces parallel, apply squeezing force to flare the shank of the fastener.

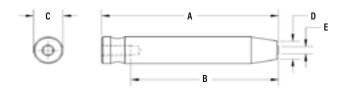
Tuno	Thread	HAEGER® P	art Number	PEMSERTER® Part Number		
Туре	Size	Anvil	Punch	Anvil	Punch	
	M3	10-00286	10-00679	8026876	8026875	
RAB/RABS	M4	10-00288	10-00681	8026878	8026877	
	M5	10-00289	10-00682	8026880	8026879	
	M3	10-00286	10-00686	8026882	8026881	
RMAB/RMABS	M4	10-00288	10-00687	8026884	8026883	
	M5	10-00289	10-00688	8026886	8026885	

#### Haeger® Punch Dimensions - RAB™ and RABS™(1)



Haeger® Punch Part #	Thread Code	A mm	B mm	Dia. C mm	Dia. D mm	Dia. E mm
10-00679	М3	6.2	63.5	12.7	7.5	4.17
10-00681	M4	76.2	63.5	12.7	8.7	5.13
10-00682	M5	76.2	63.5	12.7	10.3	6.63

#### Haeger® Punch Dimensions - RMAB™ and RMABS™(1)



Haeger® Punch Part #	Thread Code	A mm	B mm	Dia. C mm	Dia. D mm	Dia. E mm
10-00686	М3	76.2	63.5	12.7	5.5	3.1
10-00687	M4	76.2	63.5	12.7	7.5	4.3
10-00688	M5	7 6.2	63.5	12.7	8.7	5.31

#### **Installation Notes**

- For best results we recommend using a HAEGER® machine to install PEM® rivet bushes. See our website for more information.
- View the installation animation on www.pemnet.com.

All PEM® products meet our stringent quality standards. If you require additional industry or other specific <u>quality certifications</u>, special procedures and/or part numbers are required. Please contact your local sales office or representative for further information.

Regulatory <u>compliance information</u> is available in Technical Support section of our website. Specifications subject to change without notice. See our website for the most current version of this bulletin.



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Visit our PEMNET™ Resource Center at <a href="www.pemnet.com">www.pemnet.com</a> • Technical support e-mail: <a href="techsupport@pemnet.com">techsupport@pemnet.com</a>

<sup>(1)</sup> The Pin Style Nut Tooling is recommended for use with these tools.