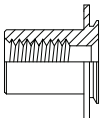


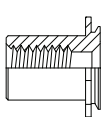
SELF-CLINCHING FASTENERS CROSS REFERENCE

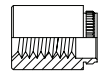


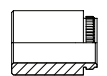
"Manufactured globally, supplied locally"

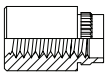


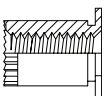
Self-Clinching, Concealed Hex Head				
	PENCOM Series	PEM® Series	Material	
	TA	—	—	Carbon Steel
		—	CSOS	300 Series Stainless Steel
		—	—	400 Series Stainless Steel

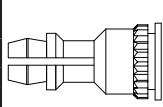
Self-Clinching, Concealed Hex Head, No Corners				
	PENCOM Series	PEM® Series	Material	
	TB	—	—	Carbon Steel
		—	CSS	300 Series Stainless Steel
		—	—	400 Series Stainless Steel

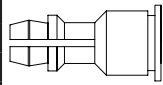
Broaching, for PCB Applications				
	PENCOM Series	PEM® Series	Material	
	TC	—	KFE	Carbon Steel
		—	KFSE	300 Series Stainless Steel
		—	—	Aluminum
		—	—	Brass

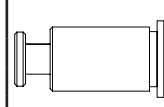
Broaching, Thru-Hole, for PCB Applications				
	PENCOM Series	PEM® Series	Material	
	TD	—	KFE	Carbon Steel
		—	KFSE	300 Series Stainless Steel
		—	—	Aluminum
		—	—	Brass

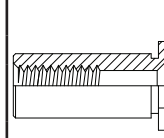
Broaching, Swage-In, for PCB Applications				
	PENCOM Series	PEM® Series	Material	
	TE	—	—	Carbon Steel
		—	—	300 Series Stainless Steel
		—	—	Aluminum
		—	KFB3	Brass

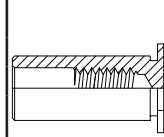
Self-Clinching, Grounding				
	PENCOM Series	PEM® Series	Material	
	TF	—	—	Carbon Steel
		—	SOSG	300 Series Stainless Steel
		—	SOAG	Aluminum

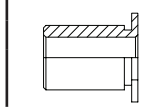
Broaching, Spring-Top				
	PENCOM Series	PEM® Series	Material	
	TG	—	—	Carbon Steel
		—	—	400 Series Stainless Steel
		—	KSSB	Brass

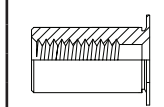
Self-Clinching, Spring Top				
	PENCOM Series	PEM® Series	Material	
	TH	—	SSS	Carbon Steel
		—	SSC	400 Series Stainless Steel
		—	SSA	Aluminum

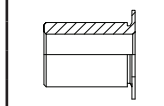
Self-Clinching, Key-Hole				
	PENCOM Series	PEM® Series	Material	
	TJ	—	SKS	Carbon Steel
		—	SKC	300 Series Stainless Steel
		—	—	400 Series Stainless Steel

Self-Clinching				
	PENCOM Series	PEM® Series	Material	
	TK	—	SO	Carbon Steel
		—	SON	Un-heat Treated Carbon Steel
		—	SOS	300 Series Stainless Steel
		—	SO4	400 Series Stainless Steel
		—	SOA	Aluminum

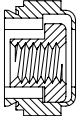
Self-Clinching, Blind				
	PENCOM Series	PEM® Series	Material	
	TM	—	BSO	Carbon Steel
		—	BSON	Un-heat Treated Carbon Steel
		—	BSOS	300 Series Stainless Steel
		—	BSO4	400 Series Stainless Steel
		—	BSOA	Aluminum

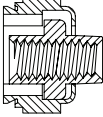
Self-Clinching, Thru-Hole				
	PENCOM Series	PEM® Series	Material	
	TN	—	SO	Carbon Steel
		—	SOS	300 Series Stainless Steel
		—	SO4	400 Series Stainless Steel
		—	SOA	Aluminum

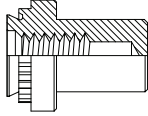
Self-Clinching, Thin Panel				
	PENCOM Series	PEM® Series	Material	
	TP	—	TSO	Carbon Steel
		—	TSOS	300 Series Stainless Steel
		—	TSO4	400 Series Stainless Steel
		—	TSOA	Aluminum

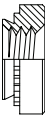
Self-Clinching, Thin Panel, Thru-Hole				
	PENCOM Series	PEM® Series	Material	
	TR	—	TSO	Heat Treated Carbon Steel
		—	TSOS	300 Series Stainless Steel
		—	TSO4	400 Series Stainless Steel
		—	TSOA	Aluminum

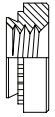
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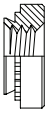
Self-Clinching, Floating			
	PENCOM Series	PEM® Series	Material
	NA	AS	Carbon Steel
		AC	300 Series Stainless Steel
		A4	400 Series Stainless Steel

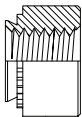
Self-Clinching, Floating Locking			
	PENCOM Series	PEM® Series	Material
	NAL	LAS	Carbon Steel / Stainless Steel
		LAC	300 Series Stainless Steel
		LA4	400 Series Stainless Steel

Self-Clinching, Blind			
	PENCOM Series	PEM® Series	Material
	NB	B	Heat Treated Carbon Steel
		BS	300 Series Stainless Steel
		—	400 Series Stainless Steel

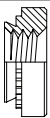
Self-Clinching			
	PENCOM Series	PEM® Series	Material
	NC	S	Heat Treated Carbon Steel
		SS	Heat Treated Carbon Steel
		CLS	300 Series Stainless Steel
		CLSS	300 Series Stainless Steel


Self-Clinching, for Aluminum Sheet Applications			
	PENCOM Series	PEM® Series	Material
	NCA	CLA	Aluminum

Self-Clinching, for Stainless Steel Sheet Applications			
	PENCOM Series	PEM® Series	Material
	NCP	—	400 Series Stainless Steel
		SP	Precipitation Hardened Stainless Steel

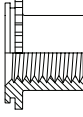
Self-Clinching, Thick, Non-Locking			
	PENCOM Series	PEM® Series	Material
	ND	H	Carbon Steel Heat Treated
		HN	Carbon Steel

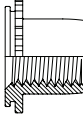
Self-Clinching, Thick Locking			
	PENCOM Series	PEM® Series	Material
	NDL	HNL	Carbon Steel

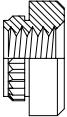
Self-Clinching, Locking			
	PENCOM Series	PEM® Series	Material
	NEL	SL	Heat Treated Carbon Steel


Self-Clinching, for Thin Panel			
	PENCOM Series	PEM® Series	Material
	NF	—	Heat Treated Carbon Steel
		SMPS	300 Series Stainless Steel


Self-Clinching, Flush			
	PENCOM Series	PEM® Series	Material
	NG	—	Heat Treated Carbon Steel
		F	300 Series Stainless Steel
—	400 Series Stainless Steel		


Self-Clinching, Miniature, Non-Locking			
	PENCOM Series	PEM® Series	Material
	NH	FE0X	300 Series Stainless Steel
		FEX	300 Series Stainless Steel
		U	300 Series Stainless Steel

Self-Clinching, Miniature, Locking			
	PENCOM Series	PEM® Series	Material
	NHL	FE	300 Series Stainless Steel
		FEO	300 Series Stainless Steel
		UL	300 Series Stainless Steel

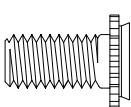
Broaching, for PCB Applications			
	PENCOM Series	PEM® Series	Material
	NJ	KF2	Carbon Steel
		KFS2	300 Series Stainless Steel


Self-Clinching, Locking			
	PENCOM Series	PEM® Series	Material
	NM	LK	Carbon Steel
		LKS	300 Series Stainless Steel
		LKA	Aluminum


Self-Clinching, Nylon Locking			
	PENCOM Series	PEM® Series	Material
	NN	PL	Heat Treated Carbon Steel
		PLC	300 Series Stainless Steel

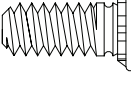
Projection Weld			
	PENCOM Series	PEM® Series	Material
	NP	WN	Carbon Steel
		WNS	300 Series Stainless Steel

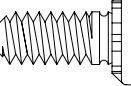
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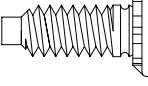
Self-Clinching, Concealed Head				
	PENCOM Series	PEM® Series	Material	
	SA		—	Heat Treated Carbon Steel
			CHC	300 Series Stainless Steel
			CFHC	300 Series Stainless Steel
			CHA	2024-T4 Aluminum
			CFHA	2024-T4 Aluminum


Self-Clinching, Flush Head				
	PENCOM Series	PEM® Series	Material	
	SB		FH	Heat Treated Carbon Steel
			FHS	300 Series Stainless Steel
			FH4	400 Series Stainless Steel
			FHP	A286 Stainless Steel
			FHA	2024-T4 Aluminum


Self-Clinching, Flush Head, Dog Point				
	PENCOM Series	PEM® Series	Material	
	SBD		FHD	Heat Treated Carbon Steel
			FHDS	300 Series Stainless Steel
			FHD4	400 Series Stainless Steel
			FHDP	A286 Stainless Steel
			FHDA	2024-T4 Aluminum

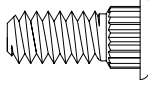
Self-Clinching, Thin Panel, Non-Flush Head				
	PENCOM Series	PEM® Series	Material	
	SC		TFH	Heat Treated Carbon Steel
			TFHS	300 Series Stainless Steel

Self-Clinching, High-Strength, Non-Flush				
	PENCOM Series	PEM® Series	Material	
	SD		HFH	Heat Treated Carbon Steel
			HFHS	300 Series Stainless Steel
			HFHB	Phosphor Bronze

Self-Clinching, High-Strength, Non-Flush, Dog Point				
	PENCOM Series	PEM® Series	Material	
	SDD		HFHD	Heat Treated Carbon Steel
			HFHDS	300 Series Stainless Steel
			HFHDB	Phosphor Bronze

Self-Clinching, Small Head, Flush				
	PENCOM Series	PEM® Series	Material	
	SE		FHL	Heat Treated Carbon Steel
			FHLS	300 Series Stainless Steel
	—	—	400 Series Stainless Steel	

Self-Clinching, High Strength, Thin Panel				
	PENCOM Series	PEM® Series	Material	
	SF		HFE	Heat Treated Carbon Steel
			—	300 Series Stainless Steel
			—	400 Series Stainless Steel

Broaching, Non-Flush				
	PENCOM Series	PEM® Series	Material	
	SG		—	Carbon Steel
			—	300 Series Stainless Steel
			KFH	Phosphor Bronze
			—	Brass