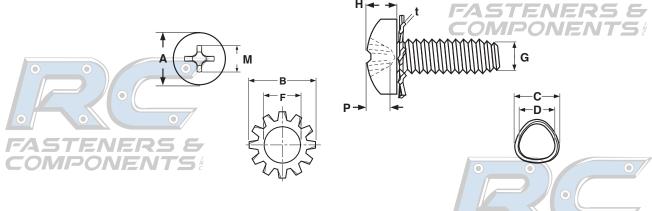
Triobular Pan External Tooth SEMS

THREAD ROLLING



	TRILOB		BULAR THE		READ ROL		LLING SCF		REW EXTE		ERNAL TO		OOTH SEN		IS, PAN P		HILLIP'S IV 7,5 ?		1
Nominal Screw Size & Threads per Inch	Head Diameter		Head Height		Washer		Washer Inside Diam		Washer Material Thickness		Circumscrib- ing Circle Diam		Measurement Across Center		Point Diam of Circum- scribing Circle	Drive Diam.	Gai	Gauge netration	Phillips Driver Size
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Ref	Max	Min	Min
4-40	.219	.204	.080	.069	.230	.219	.104	.100	.018	.012	.114	.110	.110	.105	.090	.115	.071	.053	1
6-32	.270	.255	.097	.086	.287/	.269	.126	.123	.022	.016	.141	.134	.135	.128	.111	.159	.080	.055	2
8-32	.321	.305	.115	.104	.319	.304	-	-	.023	.018	.167	.160	.161	.154	.137	.177	.097	.071	2
10-24	.372	.356	.133	.121	.380	.364	-	-	.024	.018	.194	.187	.185	.178	.152	.193	.113	.089	2
10-32	.372	.356	.133	.121	.380	.364	-	-	.024	.018	.193	.186	.187	.180	.163	.193	.113	.089	2
COMPONENTS:																			
Tolerance on Length						+ 0, -0.03													

Description	Trilobular thread rolling screw with a gently rounded top surface and a captive, free-spinning external tooth lockwasher manufactured as one assembly. As each lobe of the screw moves through the pilot hole in the nut material, it forms and work-hardens the nut thread metal, producing an uninterrupted grain flow.								
Applications/ Advantages	For drilled, punched or corred holes in all ductile metals and punch extruded metals. Eliminates chips, requires low drive torque and provides excellent resistance to vibrational loosening. The washer/screw assembly makes this a locking screw with the washer providing the locking action. Machine preassembly provides cost savings to the end user.								
	Screw	Washer							
Material	1022 or equivalent carbon steel	1050 or equivalent spring steel							
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.								
Case Hardness	Rockwell C45 minimum	-							
Case Depth	2-56 through 6-32 diameters: .002007 8-32 through 10-32 diameters: .004009	-							
Core Hardness (after tempering)	Rockwell C28-38	Rockwell C40 - 50							
Plating	See Appendix-A for information on the plating of trilobular thread rolling SEMS screws.								