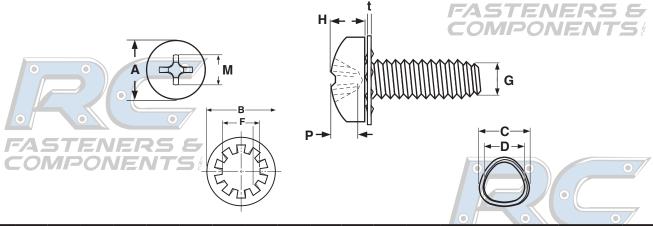
## THREAD ROLLING

## Triobular Pan Internal Tooth SEMS



Nominal Screw Size & Threads per Inch	A Head Diameter		H Head Height		B Washer Outside Diam		F Washer Inside Diam		t Washer Material Thickness		C Circumscrib- ing Circle Diam		D Measurement Across Center		G Point Diam of Circum- scribing Circle	M Drive Diam.	P Gauge Penetration		Phillips Driver Size
4-40	.219	.204	.080	.069	.268	.257	.104	.100	.018	.012	.114	.110	.110	.105	.090	.115	.071	.053	1
6-32	.270	.255	.097	.086	.288	.277	.126	.123	.022	.016	.141	.134	.135	.128	.111	.159	.080	.055	2
8-32	.321	.305	.115	.104	.338	.326	-	-	.023	.018	.167	.160	.161	.154	.137	.177	.097	.071	2
10-24	.372	.356	.133	.121	.382	.371	-	-	.023	.018	.194	.187	.185	.178	.152	.193	.113	.089	2
10-32	.372	.356	.133	.121	.382	.371	-	-	.023	.018	.193	.186	.187	.180	.163	.193	.113	.089	2

Description	Trilobular thread rolling screw with a gently rounded top surface and a captive, free-spinning internal 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 pre-assembly 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	<b>2-56 through 6-32 diameters:</b> .002007 <b>8-32 through 10-32 diameters:</b> .004009	-						
Core Hardness (after tempering)	Rockwell C28-38	Rockwell C40 - 50						
Plating	ONENTS & See Appendix-A for information on the plating of trilobular thread rolling SEMS screws.							