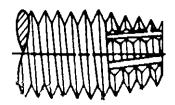
TYPE F THREAD CUTTING SCREWS



Nominal Size or Basic Screw Diameter		Threads Per Inch	D		Р	S				L				Minimum
					Point Dia.	Point Tap Short Screws		Long Screws		Determinant Length for Point Taper		Minimum Practical Screw Lengths		Torsional Strength, Ibin. (STEEL
			Max	Min	Ref	Max	Min	Max	Min	90° Heads	Csk Heads	90° Heads	Csk Heads	SCREWS ONLY)
2	.0860	56	.0860	.0813	.068	.062	.045	.080	.062	5/32	3/16	5/32	3/16	
4	.1120	40	.1120	.1061	.087	.088	.062	.112	.088	7/32	1/4	3/16	1/4	13
5	.1250	40	.1250	.1191	.100	.088	.062	.112	.088	7/32	9/32	3/16	1/4	18
6	.1380	32	.1380	.1312	.107	.109	.078	.141	.109	1/4	5/16	1/4	5/16	23
8	.1640	32	.1640	.1571	.132	.109	.078	.141	.109	1/4	11/32	1/4	5/16	42
10	.1900	24	.1900	.1818	.148	.146	.104	.188	.146	11/32	7/16	5/16	13/32	56
10	.1900	32	.1900	.1831	.158	.109	.078	.141	.109	1/4	11/32	1/4	5/16	74
12	.2160	24	.2160	.2078	.174	.146	.104	.188	.146	11/32	7/16	5/16	13/32	93
1/4	.2500	20	.2500	.2408	.200	.175	.125	.225	.175	13/32	17/32	3/8	1/2	140
5/16	.3125	18	.3125	.3026	.257	.194	.139	.250	.194	15/32	19/32	7/16	9/16	306
3/8	.3750	16	.3750	.3643	.312	.219	.156	.281	.219	1/2	11/16	15/32	5/8	560
1/2	.5000	13	.5000	.4876	.423	.269	.192	.346	.269	5/8	25/32	19/32	3/4	1075
Tolera	Tolerance on Length		Up to 3/4 in., incl.: -0.03				Over 3/4 to 1-1/2			in., incl.: -0.05		Over 1-1/2 i		n.: -0.06

Description	A thread cutting screw with machine screw thread pitch, blunt point, tapered entering threads and multiple cutting edges.					
Applications/ Advantages	Steel thread-cutters are used in heavy gauge sheet metal, aluminum, zinc and lead die castings, cast iron, brass and plastic. Stainless screws offer additional resistance to corrosion, 18-8 more so than 410. When using any thread-cutting screw, the material in which the threads are cut should have a lower hardness by at least 10 to 20 Rockwell hardness points.					
Material	Steel: AISI 1016 - 1024 or equivalent steel. Stainless: 410 martensitic stainless steel or 18-8 stainless steel.					
Heat Treatment	Steel: Screws shall be quenched in liquid and then tempered by reheating to 650° F minimum Stainless: Screws shall be annealed by heating to 1850 - 1950°F, held at least for 1/2 hour and rapid air- or oil-quenched then reheating to 525°F minimum for at least 1 hour and air cooled to provide the required tensile, yield and hardness properties.					
Surface Hardness	Steel: Rockwell C45 minimum					
Case Depth (steel)	No. 4 thru 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" diameter & larger .005011					
Core Hardness	Steel (after tempering): Rockwell C28 - 38 410 Stainless: Rockwell C38 - 42; 18-8 Stainless: Rockwell B90 - C20					
Plating	See Appendix-A for information on plating of steel thread cutting screws.					