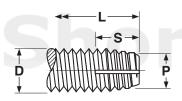
THREAD CUTTING



		Threads Per Inch	D Major Diameter		P Point Diameter	S Point Taper Length Determin					L	Minimum Torsional		
Nominal Size or Basic Screw Diameter										Determinant			Minimum Practical	
						Short Screws		Long Screws		Length for Point Taper		Nominal Screw Lengths		Strength, lbin.
			Max	Min	Ref	Max	Min	Max	Min	90° Heads	Csk Heads	90° Heads	Csk Heads	(STEEL parts only)
2	.0860	56	.0860	.0813	.068	.062	.045	.080	.062	5/32	3/16	5/32	3/16	5
4	.1120	40	.1120	.1061	.087	.088	.062	.112	.088	7/32	1/4	3/16	1/4	13
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

Description	A thread cutting screw with machine screw thread pitch, blunt point, tapered entering threads and a single cutting edge.						
	Steel	Stainless					
Applications/ Advantages	May be used in steel sheets, structural shapes, special alloy steels, cast iron, brass or plastics.	Stainless screws offer greater corrosion resistance than steel screws but have a more limited range of applications due to being a softer metal. When using any thread-cutting screw, the material in which the threads are cut should have a lower hardness by 10-20 Rockwell hardness points.					
Material	AISI 1016 - 1024 or equivalent steel.	18-8 stainless steel.					
Heat Treatment	Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.	18-8 thread-cutting screws are not heat-treated.					
Surface Hardness	Rockwell C45 minimum						
Case Depth	No. 4 thru 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" diameter and larger: .005011						
Core Hardness (after tempering)	Rockwell C28 - 38	Rockwell B90 - C20 (approx.)					
Plating	See Appendix-A for plating information.						