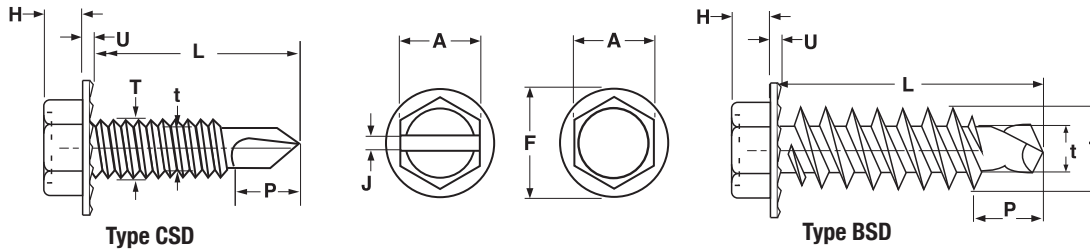


# Self-Tapping Screws

# Self-Drilling

# Serrated Hex Washer



SERRATED HEX WASHER SELF-DRILLING SCREWS, <u>SPACED</u> THREAD																			
Nominal Screw Size & Threads per Inch	A		H		F		U		J		T		t		Drill Point Size	P	Drilling Thickness		Recommended Screw Gun Speed
	Width Across Head		Head Height		Washer Diameter		Washer Thickness		Width of Slot		Major Diameter		Minor Diameter				Max	Min	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min			Max
8-18	.250	.244	.110	.096	.348	.322	.036	.024	.054	.045	.166	.161	.122	.116	2	.211	.100	.035	2500
10-16	.312	.305	.120	.105	.414	.384	.036	.024	.060	.050	.189	.183	.141	.135	2	.235	.110	.035	2500
1/4-14	.438	.428	.190	.172	.590	.560	.063	.037	.075	.064	.246	.240	.192	.185	3	.393	.220	.110	2000
5/16-12	.438	.428	.230	.208	.610	.580	.063	.037	.075	.064	.315	.307	.272	.263	4	.510	.312	.110	2000

SERRATED HEX WASHER SELF-DRILLING SCREWS, <u>MACHINE</u> SCREW THREAD																			
8-32	.250	.244	.110	.096	.348	.322	.031	.019	.054	.045	.1640	.1586	-	-	2	.162	.100	-	
10-24	.312	.305	.120	.105	.414	.384	.031	.019	.060	.050	.1900	.1834	-	-	2	.193	.110	-	
10-24	.312	.305	.120	.105	.414	.384	.031	.019	.060	.050	.1900	.1834	-	-	3	.258	.175	.110	
1/4-20	.438	.428	.190	.172	.590	.551	.063	.029	.075	.064	.2500	.2428	-	-	2	.275	.175	.035	2000
1/4-20	.438	.428	.190	.172	.590	.560	.063	.037	.075	.064	.2500	.2428	-	-	3	.350	.210	.110	
5/16-18	.438	.428	.230	.208	.590	.560	.063	.037	.075	.064	.3125	-	-	3					
5/16-18	.500	.489	.230	.208	.676	.624	.055	.035			.3125	-	-	3					

<b>Description</b>	An integrally formed hex washer head screw with serrations on the bearing surface side of the washer face and a drill point. Serrations extend from outer edge of washer face to the screw shank. Thread design can be either spaced (like a type-BSD drill screw) or unified (type-CSD).
<b>Applications/ Advantages</b>	Used to attach plywood, soft wood or metal to metal. Serrated washer design adds greater holding power to components subject to vibrations caused by repeated movements. The 1/4-inch diameter screws, for instance, are commonly used to attach reinforcing strut or L-angle to garage doors.
<b>Material</b>	AISI 1016 - 1024 or equivalent steel
<b>Heat Treatment</b>	Fasteners are heat treated in a carbonitriding or gas-carburizing system at a minimum temperature of 625°F, or in a cyaniding system (with consent of the buyer) at a minimum temperature of 450°F.
<b>Case Hardness</b>	Rockwell C 50 - 56
<b>Case Depth</b>	#4 & #6 Diameters: .002 - .007 #8 thru #12 Diameters: .004 - .009 1/4" Diameter & larger: .005 - .011
<b>Core Hardness</b>	Rockwell C32 - 40
<b>Minimum Torsional Strength for ZINC-plated screws</b>	#8 diameter: 41 lb.-in. #10 diameter: 55 lb.-in. 1/4" diameter: 132 lb.-in. 5/16" diameter: (no industry standard)
<b>Plating</b>	Serrated hex washer self-drilling screws are usually supplied with a clear zinc finish.