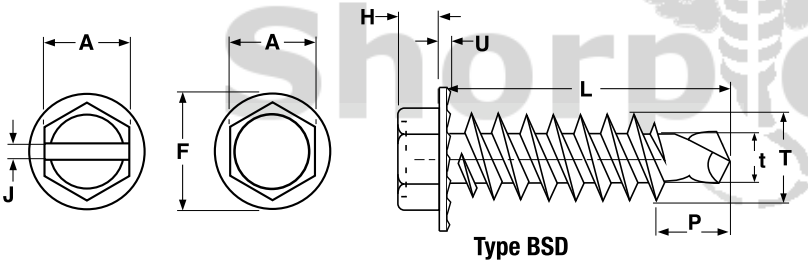
SELF-DRILLING

Serrated Hex Washer, SPACED Thread



Type BSD

Serrated Hex Washer Self-Drilling Screws, Spaced Thread

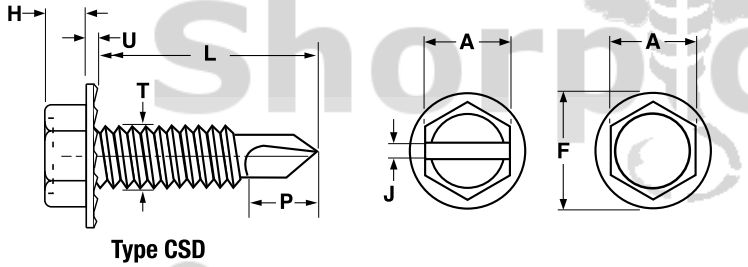
Nominal Screw Size & Threads per Inch	A		H		F		U		T		t		Drill Point Size	P	Drilling Thickness		Recommended Screw Gun Speed
	Width Across Head		Head Height		Washer Diameter		Washer Thickness		Major Diameter		Minor Diameter			Protrusion Allowance			
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min			Max	Min	Max RPM
6-20	.250	.244	.093	.080	.328	.302	.030	.019	.139	.135	.104	.099	2	.163	.090	.035	2500
8-18	.250	.244	.110	.096	.348	.322	.036	.024	.166	.161	.122	.116	2	.211	.100	.035	2500
10-16	.312	.305	.120	.105	.414	.384	036	.024	.189	.183	.141	.135	2	.235	.110	.035	2500
1/4-14	.375	.367	.190	.172	.520	.480	.050	.030	.246	.240	.192	.185	3	.393	.220	.110	2000
1/4-14	.438	.428	.190	.172	.590	.551	.050	.029	.246	.240	.192	.185	3	.393	.220	.110	2000
5/16-12	.438	.428	.230	.208	.590	.551	.050	.029	.315	.307	.272	.263	4	-	.312	.110	2000
5/16-12	.500	.489	.230	.208	.676	.624	.055	.035	.315	.307	.272	.263	3	-	.312	.110	2000

1/4 & 5/16" diameters are available with multiple head dimension configurations.

Description	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 is spaced (like a type-BSD drill screw).
Applications/ Advantages	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.
Material	AISI 1016 - 1024 or equivalent steel
Heat Treatment	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.
Case Hardness	Rockwell C 52 - 58
Case Depth	#6 Diameter: .002 - .007 #8 thru #12 Diameters: .004 - .009 1/4" Diameter & larger: .005 - .011
Core Hardness	Rockwell C32 - 40
Minimum Torsional Strength for ZINC-plated screws	#8 diameter: 41 lb.-in. #10 diameter: 55 lb.-in. 1/4" diameter: 132 lb.-in. 5/16" diameter: (no industry standard)
Plating	Serrated hex washer self-drilling screws are usually supplied with a clear zinc finish.

Serrated Hex Washer, MACHINE SCREW Thread

SELF-DRILLING



Type CSD

Serrated Hex Washer Self-Drilling Screws, Machine Screw Thread

Nominal Screw Size & Threads per Inch	A		H		F		U		T		Drill Point Size	P	Drilling Thickness		Recommended Screw Gun Speed
	Width Across Head		Head Height		Washer Diameter		Washer Thickness		Major Diameter			Protrusion Allowance			
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min			Max	Min	Max RPM
8-32	.250	.244	.110	.096	.348	.322	.036	.024	.163	.157	2	.162	.100		2500
10-24	.312	.305	.120	.105	.414	.384	036	.024	.189	.181	2	.193	.110		2500
											3	.258	.175	.110	
10-32	.312	.305	.120	.105	.414	.384	036	.024	.189	.183	3	.258	.175	.110	2500
12-24	.312	.305	.155	.139	.432	.398	.029	.022	.215	.207	3	.293	.210	.110	2500
1/4-20	.375	.367	.190	.172	.590	.551	.063	.029	.250	.242	3	.350	.220	.110	2000
1/4-20	.438	.428	.190	.172	.610	.580	.063	.037	.250	.242	2	.275	.175	.035	2000
5/16-18	.438	.428	.229	.208	.610	.580	.063	.037	.315	.307	3	.421			

1/4” diameter is available with multiple head dimension configurations.

Description	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 is unified (type-CSD).
Applications/ Advantages	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.
Material	AISI 1016 - 1024 or equivalent steel
Heat Treatment	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.
Case Hardness	Rockwell C 52 - 58
Case Depth	#8 thru #12 Diameters: .004 - .009 1/4” Diameter & larger: .005 - .011
Core Hardness	Rockwell C32 - 40
Minimum Torsional Strength for ZINC-plated screws	#8 diameter: 41 lb.-in. #10 diameter: 55 lb.-in. 1/4” diameter: 132 lb.-in.
Plating	Serrated hex washer self-drilling screws are usually supplied with a clear zinc finish.