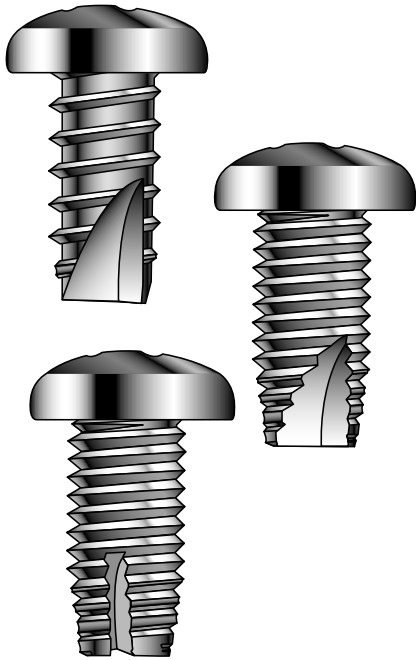


Thread Cutting Screws

Fasteners for Plastic and Other Low Density Materials



About

Another Shakeproof group invention, the thread cutting screws utilize an off-center shank slot to provide a true cutting action. There are several types depending on the application.

Type 1- recommended for steel parts having a thickness less than half of the screw diameter.

Type 23- have a wider shank slot and are recommended for use in cast iron and soft metals such as zinc and aluminum castings.

Type 25- combines a wide thread cutting shank slot and acute cutting edge with spaced threads for a low drive to strip ratio and is best for thermoset plastic.

Type 17- drills its own hole and cuts close mating threads in wood, light plastics, and particle board

Advantages

- Eliminates the need for a separate tapping operation
- Generates a perfectly formed mating thread providing a stronger joint
- Reusable with continuous performance
- Thread cutting feature can be designed into other screws

Screw Size	Minimum Length	Maximum Length	Major Diameter	
			Inch	MM
#4	1/4"	1 1/4"	0.112	2.8
#5	1/4"	1 1/4"	0.125	3.2
#6	1/4"	2"	0.138	3.5
#7	1/4"	2"	0.151	3.8
#8	1/4"	2 1/2"	0.164	4.2
#10	1/4"	2 1/2"	0.190	4.8
#12	3/8"	2 1/2"	0.216	5.5
1/4	1/2"	2"	0.250	6.4
5/16	3/4"	3 1/2"	0.313	7.9
3/8	3/4"	3"	0.375	9.5
7/16	3/4"	3"	0.438	11.1
M3	6mm	50mm	0.118	3.0
M3.5	6mm	50mm	0.138	3.5
M4	6mm	63mm	0.157	4.0
M4.2	6mm	63mm	0.165	4.2
M4.8	9mm	63mm	0.189	4.8
M5	9mm	63mm	0.197	5.0
M6	13mm	63mm	0.236	6.0
M8	19mm	101mm	0.315	8.0
M10	19mm	76mm	0.394	10.0
M12	19mm	76mm	0.472	12.0

Steel Thickness	Screw 4-40	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24
Up to .047	.089	.110	.136	.154	.161	.205	-	-	-	-	-
.063	.089	.111	.136	.154	.166	.209	-	.2656	.277	.323	.339
.078	.093	.113	.140	.1562	.166	.209	.221	.2656	.277	.323	.3438
.094	.093	.116	.140	.159	.166	.213	.221	.272	.2812	.3281	.3438
.109	.093	.116	.144	.161	.169	.213	.228	.272	.2812	.332	.348
.125	.096	.120	.144	.166	.169	.2188	.228	.277	.290	.339	.348
.141	.098	.120	.147	.166	.1719	.221	.228	.281	.290	.339	.348
.188	.101	.125	.152	.173	.177	.228	.2344	.290	.295	.348	.358
.250	.104	.128	.154	.177	.180	.234	.238	.295	.2969	.358	.3594
.313	-	.128	.154	.177	.180	.234	.238	.295	.2969	.358	.3594
Up to .375	-	-	-	.177	-	.234	-	.295	.2969	.358	.3594