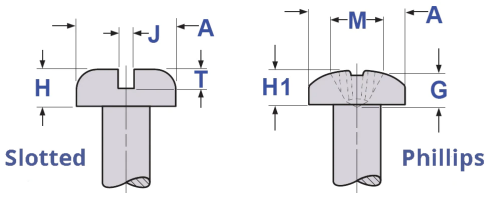
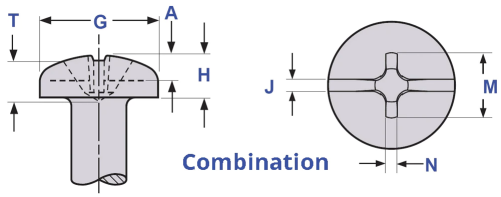
Pan Head Machine Screws: Dimensions & Specifications



Pan Head Machine Screws - Slotted & Phillips Drive Dimensions

Nominal Size	A		H		H1		J		T		M	G		Phillips Driver Size
	Head Dimensions		Height of Head				Width of Slot		Depth of Slot		Dimensions of Recess			
			Slotted		Recessed						Diameter	Recess Penetration Gaging Depth		
	Diameter													
0	.116	.104	.039	.031	.044	.036	..023	.016	.022	.014	.060	.032	.014	0
2	.167	.155	.053	.045	.062	.053	.031	.023	.031	.022	.097	.052	.034	1
3	.193	.180	.060	.051	.071	.062	.035	.027	.036	.026	.105	.061	.043	1
4	.219	.205	.068	.058	.080	.070	.039	.031	.040	.030	.115	.071	.053	1
5	.245	.231	.075	.065	.089	.079	..043	.035	.045	.034	.152	.072	.046	2
6	.270	.256	.082	.072	.097	.087	..048	.039	.050	.037	.159	.080	.055	2
8	.322	.306	.096	.085	.115	.105	.054	.045	.058	.045	.175	.097	.071	2
10	.373	.357	.110	.099	.133	.122	.060	.050	.068	.053	.192	.113	.089	2
12	.425	.407	.125	.112	.151	.139	.067	.056	.077	.061	.252	.124	.098	3
1/4	.492	.473	.144	.130	.175	.162	.075	.064	.087	.070	.274	.144	.118	3
5/16	.615	.594	.178	.162	.218	.203	.084	.072	.106	.085	.343	.173	.149	4
3/8	.740	.716	.212	.195	.261	.244	.094	.081	.124	.100	.382	.213	.190	4
1/2	.987	.958	.281	.260	.348	.325	.106	.091	.161	.131	.428	.260	.235	4



Pan Head Machine Screws - Combination Drive Dimensions

Nominal Screw Size	G		H		J		A		M		T		N	Recess Penetration		Driver Size
	Head Dimensions				Slot Dimensions				Recess Dimensions							
	Head Diameter		Head Height		Width		Depth		Diameter		Depth		Recess Width			
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Min	Max	Min	
4	.219	.205	.080	.070	.039	.031	.040	.027	.122	.109	.078	.060	.019	.071	.053	1
6	.270	.256	.097	.087	.048	.039	.050	.033	.166	.153	.091	.066	.028	.080	.055	2
8	.322	.306	.115	.105	.054	.045	.058	.041	.182	.169	.108	.082	.030	.097	.071	2
10	.373	.357	.133	.122	.060	.050	.068	.048	.199	.186	.124	.100	.031	.113	.089	2
12	.425	.407	.151	.112	.067	.056	.077	.055	.259	.246	.141	.115	.034	.124	.098	3
1/4	.492	.473	.175	.162	.075	.064	.087	.063	.281	.268	.161	.135	.036	.144	.118	3
5/16	.615	.594	.218	.203	.084	.072	.106	.076	.350	.337	.193	.169	.059	.173	.149	4

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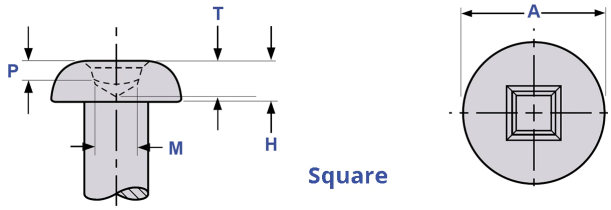
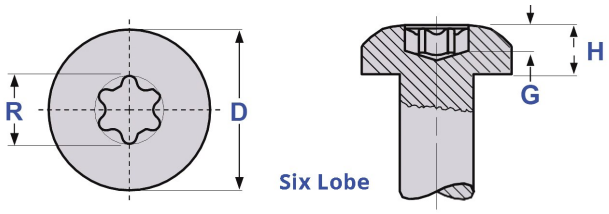


Pan Head Machine Screws - Square Drive Dimensions										
Nominal Size or Basic Screw Diameter		A Head Diameter		H Head Height		M Recess Square	T Recess Depth	F Recess Penetration Gaging Depth		Driver Size
		Max	Min	Max	Min	Ref	Ref	Max	Min	
4	.1120	.219	.205	.086	.076	.070	.066	.038	.028	0
6	.1380	.270	.256	.103	.093	.091	.106	.065	.050	1
8	.1640	.322	.306	.120	.110	.112	.127	.075	.060	2
10	.1900	.373	.357	.137	.126	.112	.127	.075	.060	2
12	.2160	.425	.407	.153	.141	.133	.158	.095	.080	3
1/4	.2500	.492	.473	.175	.162	.133	.158	.095	.080	3
5/16	.3125	.615	.594	.218	.203	.191	.194	.100	.085	4
A square center opening has this type of recess, slightly tapered side walls and a conical bottom.										



Pan Head Machine Screws - Six Lobe Drive Dimensions								
Screw Size	D Head Dimensions Head Diameter		H Head Dimensions Head Height		R Head Dimensions Ref	G Head Dimensions Gauge Penetration Min	(Fallaway) Max Penetration	Driver Size
	Max	Min	Max	Min				
0	.116	.104	.044	.036	.058	.015	.009	T5
2	.167	.155	.062	.053	.094	.030	.019	T8
3	.193	.180	.071	.062	.094	.033	.019	T8
4	.219	.205	.080	.070	.111	.035	.022	T10
5	.245	.231	.089	.079	.111	.045	.022	T10
6	.270	.256	.097	.087	.132	.045	.026	T15
8	.322	.306	.115	.105	.155	.055	.031	T20
10	.373	.357	.133	.122	.178	.070	.036	T25
12	.425	.407	.151	.139	.200	.070	.040	T27
1/4	.492	.473	.175	.162	.221	.085	.044	T30
5/16	.615	.594	.218	.203	.266	.105	.047	T40
3/8	.740	.716	.261	.244	.312	.130	.055	T45

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