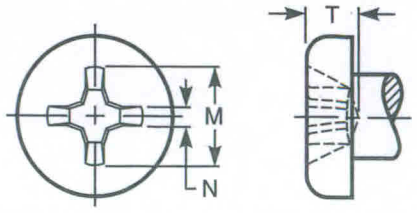
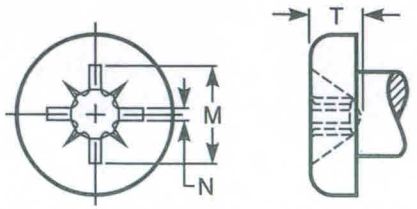
TYPE I



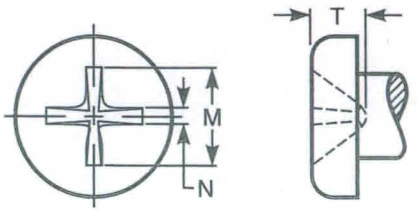
This type of recess has a large center opening, tapered wings, and blunt bottom, with all edges relieved or rounded.

TYPE IA



This type of recess has a large center opening, wide straight wings, and blunt bottom, with all edges relieved or rounded.

TYPE II



This type of recess consists of two intersecting slots with parallel sides converging to a slightly truncated apex at bottom of recess.

Table 25 Dimensions of Cross Recessed Pan Head Tapping Screws

Nominal Size or Basic Screw Diameter	Applicable to Screw Types	A		H		R	Type I						Type IA						Type II					
							M	T	N	Driver Size	Recess Penetration Gaging Depth		M	T	N	Driver Size	Recess Penetration Gaging Depth		M	T	N	Driver Size	Recess Penetration Gaging Depth	
	Code Symbols	Head Dia		Head Height		Head Radius	Recess Dia	Recess Depth	Recess Width				Recess Dia	Recess Depth	Recess Width				Recess Dia	Recess Depth	Recess Width			
		Max	Min	Max	Min	Min	Ref	Ref	Ref		Max	Min	Ref	Ref	Ref		Max	Min	Ref	Ref	Ref		Max	Min
0 0.0600	●◆▲	0.116	0.104	0.044	0.036	0.005	0.060	0.030	0.013	0	0.032	0.014	0.060	0.032	0.018	0	0.033	0.017	0.070	0.032	0.022	Point Same on all Drivers	...	...
1 0.0730	●◆▲	0.142	0.130	0.053	0.044	0.005	0.068	0.035	0.014	0	0.040	0.022	0.068	0.039	0.018	0	0.040	0.024	0.084	0.040	0.024		...	...
2 0.0860	●◆▲■	0.167	0.155	0.062	0.053	0.010	0.098	0.050	0.017	1	0.052	0.034	0.098	0.056	0.028	1	0.053	0.037	0.103	0.052	0.027		0.033	0.022
3 0.0990	●◆▲■	0.193	0.180	0.071	0.062	0.010	0.106	0.059	0.019	1	0.061	0.043	0.106	0.065	0.029	1	0.062	0.046	0.119	0.062	0.029		0.043	0.034
4 0.1120	●◆▲■	0.219	0.205	0.080	0.070	0.010	0.116	0.069	0.019	1	0.071	0.053	0.116	0.075	0.029	1	0.072	0.056	0.136	0.072	0.032		0.055	0.043
5 0.1250	●◆▲■	0.245	0.231	0.089	0.079	0.015	0.152	0.070	0.028	2	0.072	0.046	0.148	0.075	0.040	2	0.068	0.050	0.152	0.083	0.034		0.066	0.052
6 0.1380	●◆▲■	0.270	0.256	0.097	0.087	0.015	0.160	0.078	0.028	2	0.080	0.055	0.156	0.083	0.040	2	0.076	0.058	0.169	0.089	0.037		0.077	0.064
7 0.1510	●◆▲	0.296	0.281	0.106	0.096	0.015	0.170	0.088	0.029	2	0.089	0.064	0.164	0.092	0.041	2	0.085	0.067	0.182	0.098	0.039		0.086	0.072
8 0.1640	●◆▲■	0.322	0.306	0.115	0.105	0.015	0.176	0.095	0.030	2	0.097	0.071	0.170	0.099	0.041	2	0.092	0.074	0.200	0.108	0.041		0.097	0.083
10 0.1900	●◆▲■	0.373	0.357	0.133	0.122	0.020	0.192	0.112	0.031	2	0.113	0.089	0.186	0.115	0.041	2	0.108	0.090	0.232	0.130	0.046		0.118	0.104
12 0.2160	●◆▲■	0.425	0.407	0.151	0.139	0.025	0.252	0.128	0.034	3	0.124	0.098	0.248	0.130	0.056	3	0.117	0.099	0.263	0.150	0.051		0.139	0.124
14 0.2420	◆	0.476	0.457	0.169	0.156	0.035	0.274	0.148	0.036	3	0.144	0.118	0.266	0.150	0.057	3	0.137	0.119	0.299	0.166	0.056		0.163	0.147
1/4 0.2500	●▲■	0.492	0.473	0.175	0.162	0.035	0.274	0.148	0.036	3	0.144	0.118	0.266	0.150	0.057	3	0.137	0.119	0.309	0.172	0.058		0.169	0.153
16 0.2680	◆	0.528	0.508	0.187	0.173	0.035	0.286	0.162	0.037	3	0.158	0.132	0.278	0.162	0.057	3	0.149	0.131	0.332	0.186	0.061		0.184	0.168
18 0.2940	◆	0.579	0.558	0.205	0.191	0.035	0.328	0.166	0.056	4	0.158	0.134	0.322	0.169	0.084	4	0.152	0.134	0.365	0.208	0.066		0.206	0.189
5/16 0.3125	●▲■	0.615	0.594	0.218	0.203	0.040	0.344	0.181	0.059	4	0.173	0.149	0.334	0.182	0.086	4	0.164	0.146	0.386	0.222	0.069		0.220	0.202
20 0.3200	◆	0.631	0.608	0.223	0.208	0.040	0.344	0.181	0.059	4	0.173	0.149	0.344	0.182	0.086	4	0.164	0.146	0.386	0.222	0.069		0.220	0.202
24 0.3720	◆	0.734	0.709	0.259	0.242	0.040	0.382	0.222	0.065	4	0.213	0.190	0.370	0.219	0.086	4	0.201	0.183	0.468	0.276	0.081		0.275	0.256
3/8 0.3750	▲■	0.740	0.716	0.261	0.244	0.040	0.382	0.222	0.065	4	0.213	0.190	0.370	0.219	0.086	4	0.201	0.183	0.468	0.276	0.081		0.275	0.256
7/16 0.4375	▲	0.863	0.837	0.305	0.284	0.050	0.406	0.246	0.068	4	0.239	0.214	0.392	0.242	0.086	4	0.224	0.206	0.544	0.325	0.093		0.325	0.304
1/2 0.5000	▲	0.987	0.958	0.348	0.325	0.055	0.428	0.268	0.071	4	0.260	0.235	0.414	0.264	0.086	4	0.246	0.228	0.617	0.373	0.104		0.373	0.352
See Notes 2	1	4					4, 6				5		4, 6				5		4, 6				3, 5	

NOTES:

(1) Applicable to screw types as indicated by code symbols below. See referenced tables for thread and point dimensions and minimum practical screw lengths.
- ● Type AB thread forming, see Table 6, page H–26.
- ◆ Type A thread forming, except for short lengths, see Appendix E, page H–64.
- ▲ Types B and BP thread forming, see Table 7; and Types BF and BT thread cutting, see Table 8, pages H–27 and H–28.
- ■ Type C thread forming, see Appendix V; and Types D, F, G, and T thread cutting, see Table 9, page H–29.

(2) Where specifying nominal size in decimals, zeros preceding decimal and in the fourth decimal place shall be omitted.

(3) Not practical to gage sizes No. 0 and No. 1.

(4) Head dimensions not shown are the same as those of slotted heads, page H–44.

(5) For penetration gaging, see Appendix III, page H–52.

(6) For wobble gaging, see Appendix IV, page H–55.

(7) For additional requirements, refer to Para. 2, page H–18.

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