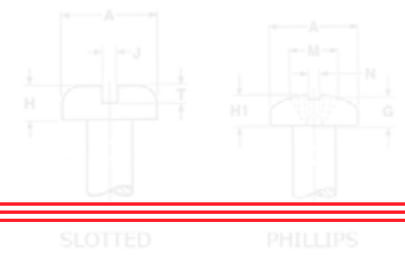
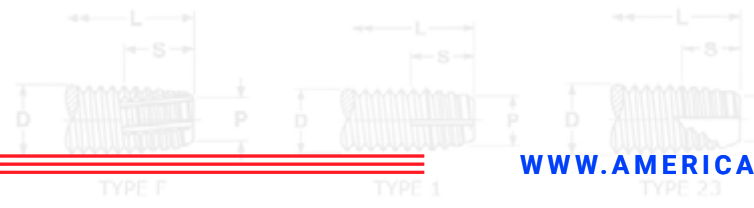
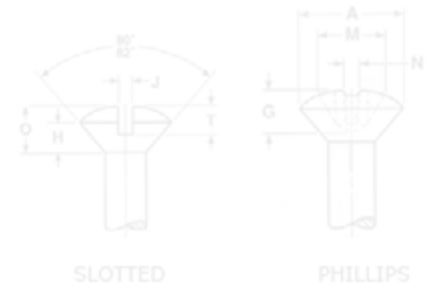
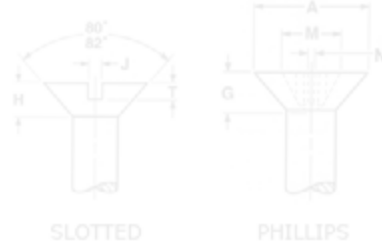
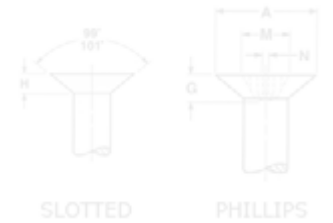


THREAD CUTTING SCREWS

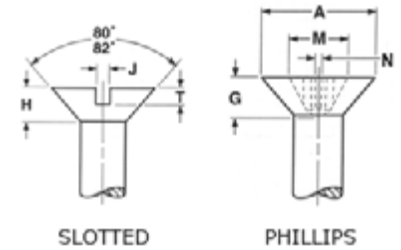




THREAD CUTTING SCREWS

FLAT HEAD

Machine Screws
Wood Screws *
Tapping Screws



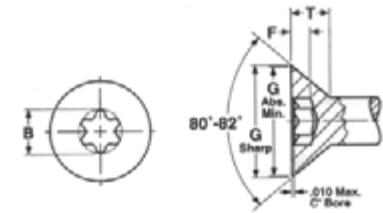
Nominal Size	A		H		J		T		M				G	N	Phillips Driver Size
	Head Diameter		Height of Head		Width of Slot		Depth of Slot		Dimensions of Recess				Depth	Width	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
2	0.172	0.147	0.051	0.04	0.031	0.023	0.023	0.015	0.102	0.089	0.063	0.017	1		
4	0.225	0.195	0.067	0.055	0.039	0.031	0.03	0.02	0.128	0.115	0.089	0.018	1		
5	0.252	0.22	0.075	0.062	0.043	0.035	0.034	0.022	0.154	0.141	0.086	0.027	2		
6	0.279	0.244	0.083	0.069	0.048	0.039	0.038	0.024	0.174	0.161	0.106	0.029	2		
7*	0.305	0.268	0.091	0.076	0.048	0.039	0.041	0.027	0.182	0.169	0.114	0.03	2		
8	0.332	0.292	0.1	0.084	0.054	0.045	0.045	0.029	0.189	0.176	0.121	0.031	2		
9*	0.358	0.316	0.108	0.091	0.054	0.045	0.049	0.032	0.258	0.245	0.146	0.034	2		
10	0.385	0.34	0.116	0.098	0.06	0.05	0.053	0.034	0.204	0.191	0.136	0.032	2-3*		
12	0.438	0.389	0.132	0.112	0.067	0.056	0.06	0.039	0.268	0.255	0.156	0.036	3		
14*	0.491	0.437	0.148	0.127	0.075	0.064	0.068	0.044	0.283	0.27	0.171	0.039	3		
1/4	0.507	0.452	0.153	0.131	0.075	0.064	0.07	0.046	0.283	0.27	0.171	0.035	3		
5/16	0.635	0.568	0.191	0.165	0.084	0.072	0.088	0.058	0.365	0.352	0.216	0.061	4		
3/8	0.762	0.685	0.23	0.2	0.094	0.081	0.106	0.07	0.393	0.38	0.245	0.065	4		
1/2	0.875	0.775	0.223	0.198	0.106	0.091	0.103	0.065	0.424	0.411	0.276	0.069	4		



THREAD CUTTING SCREWS

FLAT HEAD TORX® DRIVE (Floorboard)

® Torx is a registered trademark
of Camcar division of Textron Inds.



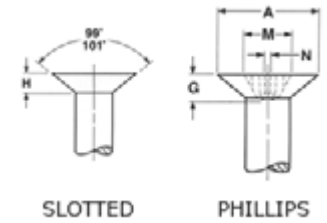
Screw Size		G		T	B	F	Drive Size		
		Head Dimensions			Recess Dimension				
		Max. Sharp	Abs. Min.	Ref.	Ref.	Gauge Penetration Mm.			(Fallaway) Max. Penetration Of No-Go Gage
1/4	(.250)	.507	.452	.153	.221	.060	.030	130	
5/16	(.312)	.635	.566	.191	.266	.087	.030	T40	



THREAD CUTTING SCREWS

FLAT HEAD 100°

Machine Screws



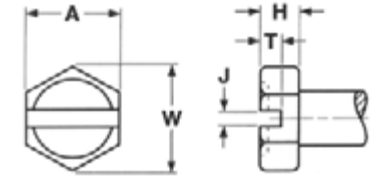
Nominal Size	A		H Height Of Head Ref.	M		G		N	Phillips Driver Size	
	Head Diameter			Dimensions of Recess						
	Max. Edge Sharp	Min. Edge Rounded or Flat		Diameter		Depth				Width
				Max.	Min.	Max.	Min.			Min.
4	0.225	0.191	0.049	0.117	0.104	0.078	0.062	0.018	1	
6	0.279	0.238	0.060	0.154	0.141	0.086	0.063	0.027	2	
8	0.332	0.285	0.072	0.169	0.156	0.101	0.078	0.028	2	
10	0.385	0.333	0.083	0.184	0.171	0.116	0.093	0.030	2	
14	0.507	0.442	0.110	0.247	0.234	0.135	0.112	0.033	3	



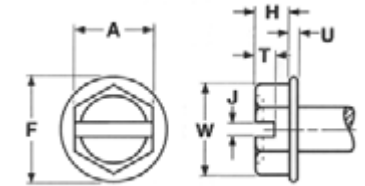
THREAD CUTTING SCREWS

HEX HEAD Hex Washer Head

Machine Screws
Tapping Screws
Self Drilling Screws



PHILLIPS



SLOTTED

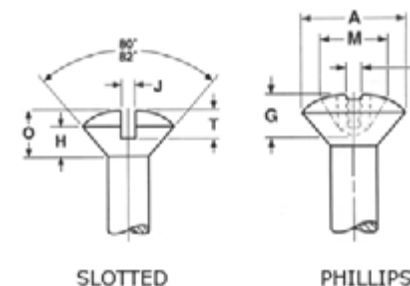
Nominal Size	A		W	H		F		U		J		T	
	Width Across Flats		Width Across Corners	Height of Head		Diameter of Washer		Thickness of Washer		Width of Slot		Depth of Slot	
	Max.	Min.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
4	.187	.181	.202	.060	.049	.243	.225	.019	.011	.039	.031	.042	.025
6	.250	.244	.272	.093	.080	.328	.302	.025	.015	.048	.039	.053	.033
7	.250	.244	.272	.093	.080	.328	.302	.029	.017	.048	.039	.062	.040
8	.250	.244	.272	.110	.096	.348	.322	.031	.019	.054	.045	.074	.052
10	.312	.305	.340	.120	.105	.414	.384	.031	.019	.060	.050	.080	.057
12	.312	.305	.340	.155	.139	.432	.398	.039	.022	.067	.056	.103	.077
14	.438	.428	.409	.190	.172	.520	.480	.050	.030	.075	.064	.111	.083
1/4	.375	.367	.409	.190	.172	.520	.480	.050	.030	.075	.064	.111	.083
5/16	.500	.489	.545	.230	.208	.676	.624	.055	.035	.084	.072	.134	.100
3/8	.562	.551	.614	.295	.270	.780	.720	.063	.037	.094	.081	.168	.131



THREAD CUTTING SCREWS

OVAL HEAD

Machine Screws
Tapping Screws
Wood Screws*



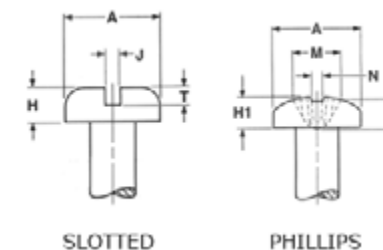
Nominal Size	A		H		O		J		T		M		G	N	Phillips Driver Size
	Head Diameter		Height of Head				Width of Slot		Depth of Slot		Dimensions of Recess				
			Side Height		Total Height						Diameter	Depth	Width		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
4	.225	.195	.067	.054	.104	.084	.039	.031	.059	.049	.136	.123	.094	.019	1
5*	.252	.220	.075	.062	.116	.095	.043	.035	.067	.055	.158	.145	.085	.028	2
6	.279	.244	.083	.069	.128	.105	.048	.039	.074	.060	.178	.165	.105	.030	2
8	.332	.292	.100	.084	.152	.126	.054	.045	.088	.072	.192	.179	.119	.031	2
9*	.358	.316	.108	.091	.164	.137	.054	.045	.095	.078	.216	.203	.144	.034	2
10	.385	.340	.116	.098	.176	.148	.060	.050	.103	.084	.209	.196	.137	.033	2-3*
12	.438	.389	.132	.112	.200	.169	.067	.056	.117	.096	.270	.257	.152	.038	3
14*	.491	.452	.148	.127	.224	.190	.075	.064	.132	.108	.305	.292	.188	.042	3
1/4	.507	.452	.153	.131	.232	.197	.075	.064	.136	.112	.290	.277	.173	.040	3



THREAD CUTTING SCREWS

PAN HEAD

Machine Screws
Tapping Screws
Wood Screws*



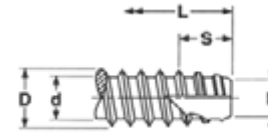
Nominal Size	A		H		H1		J		T		M		G	N	Phillips Driver Size
	Head Diameter		Height of Head				Width of Slot		Depth of Slot		Dimensions of Recess				
			Slotted		Recessed						Diameter		Depth	Width	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
2	.167	.155	.053	.045	.062	.053	.031	.023	.031	.022	.104	.091	.059	.017	1
3	.193	.180	.060	.051	.071	.062	.035	.027	.036	.026	.112	.099	.068	.019	1
4	.219	.205	.068	.058	.080	.070	.039	.031	.040	.030	.122	.109	.078	.019	1
5	.245	.231	.075	.065	.089	.079	.043	.035	.045	.034	.158	.145	.083	.028	2
6	.270	.256	.082	.072	.097	.087	.048	.039	.050	.037	.166	.153	.091	.028	2
7	.296	.281	.089	.079	.106	.096	.048	.039	.054	.041	.176	.163	.100	.029	2
8	.322	.306	.096	.085	.115	.105	.054	.045	.058	.045	.182	.169	.108	.030	2
10	.373	.357	.110	.099	.133	.122	.060	.050	.068	.053	.199	.186	.124	.031	2
12	.425	.407	.125	.112	.151	.139	.067	.056	.077	.061	.259	.246	.141	.034	3
1/4	.492	.473	.144	.130	.175	.162	.075	.064	.087	.070	.281	.268	.161	.036	3
5/16	.615	.594	.178	.162	.218	.203	.084	.072	.106	.085	.350	.337	.193	.169	4
3/8	.740	.716	.212	.195	.261	.244	.094	.081	.124	.100	.389	.376	.233	.210	4



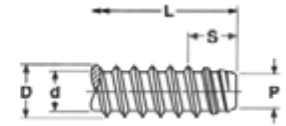
THREAD CUTTING SCREWS

THREADS FOR SELF TAPPING SCREWS

Type 25, Type B



TYPE 25

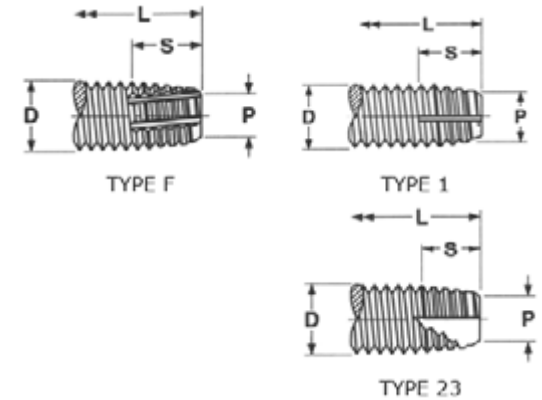


TYPE B

Nominal Size or Basic Screw Diameter		Threads per Inch	D		d		P		S				L			
			Major Diameter		Minor Diameter		Point Diameter		Point Taper Length				Determinant Length for Point Taper		Minimum Practical Screw Length	
			Max.	Min.	Max.	Min.	Max.	Min.	For Short Screws		For Long Screws		90° Heads	Csk Heads	90° Heads	Csk Heads
2	0.0860	32	0.088	0.084	0.064	0.060	0.058	0.054	0.062	0.047	0.078	0.062	7/64	3/16	7/64	5/32
4	0.1120	24	0.114	0.110	0.086	0.082	0.079	0.074	0.083	0.063	0.104	0.083	3/16	1/4	9/64	3/16
6	0.1380	20	0.139	0.135	0.104	0.099	0.095	0.089	0.100	0.075	0.125	0.100	1/4	5/16	11/64	1/4
8	0.1640	18	0.166	0.161	0.122	0.116	0.112	0.106	0.111	0.083	0.139	0.111	5/16	7/16	3/16	1/4
10	0.1900	16	0.189	0.183	0.141	0.135	0.130	0.123	0.125	0.094	0.156	0.125	3/8	1/2	15/64	5/16
12	0.2160	14	0.215	0.209	0.164	0.157	0.152	0.145	0.143	0.107	0.179	0.143	7/16	3/16	9/32	3/8
14	0.2500	14	0.246	0.240	0.192	0.185	0.179	0.171	0.143	0.107	0.179	0.143	1/2	5/8	9/32	3/8
5/16	0.3125	12	0.315	0.306	0.244	0.236	0.230	0.222	0.167	0.125	0.196	0.161	15/32	19/32	27/32	31/32
3/8	0.3750	12	0.380	0.371	0.309	0.299	0.293	0.285	0.167	0.125	0.196	0.161	17/32	11/16	15/16	1 1/8

THREAD CUTTING SCREWS

THREADS AND POINTS FOR THREAD CUTTING SCREWS AND SELF-TAPPING SCREWS

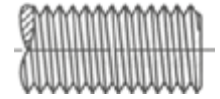


Nominal Size or Basic Screw Diameter		Threads per Inch	D		P		S				L			
			Major Diameter		Point Diameter		Point Taper Length				Determinant Length for Point Taper		Minimum Practical Screw Length	
							For Short Screws		For Long Screws					
Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	90° Heads	Csk Heads	90° Heads	Csk Heads	
2	0.0860	56	0.0860	0.0813	0.068	0.061	0.062	0.045	0.080	0.062	5/32	3/16	5/32	3/16
4	0.1120	40	0.1120	0.1061	0.087	0.078	0.088	0.062	0.112	0.088	7/32	1/4	3/16	1/4
6	0.1380	32	0.1380	0.1312	0.107	0.096	0.109	0.078	0.141	0.109	1/4	5/16	1/4	5/16
8	0.1640	32	0.1640	0.1571	0.132	0.122	0.109	0.078	0.141	0.109	1/4	11/32	1/4	5/16
10	0.1900	24	0.1900	0.1818	0.148	0.135	0.146	0.104	0.188	0.146	11/32	7/16	5/16	13/32
10	0.1900	32	0.1900	0.1831	0.158	0.148	0.109	0.078	0.141	0.109	1/4	11/32	1/4	5/16
12	0.2160	24	0.2160	0.2078	0.174	0.161	0.146	0.104	0.188	0.146	11/32	7/16	5/16	13/32
14	0.2500	20	0.2500	0.2408	0.200	0.184	0.175	0.125	0.225	0.175	13/32	17/32	3/8	1/2
5/16	0.3125	18	0.3125	0.3026	0.257	0.239	0.194	0.139	0.250	0.194	15/32	19/32	7/16	9/16
3/8	0.3750	16	0.3750	0.3643	0.312	0.293	0.219	0.156	0.281	0.219	1/2	11/16	15/32	5/8



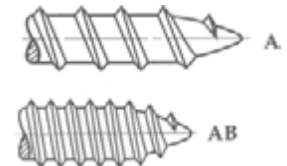
THREAD CUTTING SCREWS

MACHINE SCREWS



Nominal Screw Size	0 thru 1/2	1/4 thru 3/4
Nominal Screw Length	Tolerance on Length	
Up to 1/2 in., Incl.	-0.02	-0.03
Over 1/2 to 1 in., Incl.	-0.03	-0.03
Over 1 to 2 in., Incl.	-0.06	-0.06
Over 2 in.	-0.09	-0.09

Type A – AB



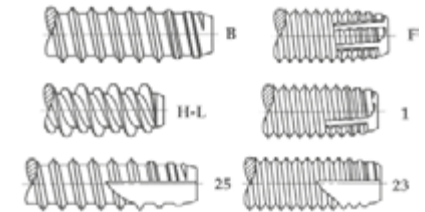
Nominal Screw Length	Tolerance on Length
Up to 1 in., Incl.	+ 0.03
Over 1 in.	+ 0.05



THREAD CUTTING SCREWS

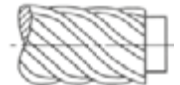
MACHINE SCREWS

Type B, F, H-L 1, 25 and 23



Nominal Screw Length	Tolerance on Length
Up to 3/4 in., Incl.	- 0.03
Over 3/4 to 1-1/2 in., Incl.	- 0.05

Type U



Nominal Screw Length	Tolerance on Length
Up to 3/8 in., Incl.	+ 0.02
Over 3/8 in.	+ 0.03



THREAD CUTTING SCREWS

MACHINE SCREWS
Wood Screws

Nominal Screw Length	Tolerance on Length
Up to 5/8in., Incl.	-0.03
Over 5/8 to 1-1/2 in., Incl.	-0.05
Over 1-1/2 to 2-3/4 in., Incl.	-0.06
Over 2-3/4 to 5 in., Incl.	-0.09