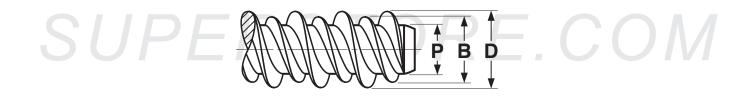
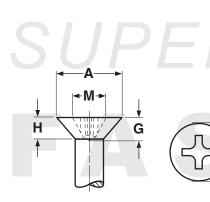
Self-Tapping Screws



THREAD A	ND HOLE DIM	ENSIONS FOR	Hı <mark>gн-Low</mark> Тн	READ FORMING	g Screws	Elco*, ASME B18.6.3	
	D	В	Р	Pilot Hole Flexural Mode	Minimum Torsional		
Screw Size	High Thread Diameter	Low Thread Diameter	Point Diameter	Up to 200,000 P.S.I.	200,000-400,000 P.S.I.	Strength, Ib. in. (STEEL SCREWS ONLY)	
2-32	.084090	.069	.050058	.0670	.0700	-	
3-28	.095105	.078	.057065	.0730	.0781		
4-24	.105115	.086	.061070	.0810	.0860	4	
5-20	.119125	.100	.073082	.0935	.0995	9	
6-19	.135145	.108	.080090	.1015	.1100	13	
7-19	.148158	.130	.089100	.1200	.1250	18	
8-18	.160170	.130	.095105	.1200	.1285	18	
10-16	.185195	.145	.099110	.1360	.1440	30	
12-16	.210220	.167	.125137	.1570	.1660	39	
1/4-15	.250260	.200	.161175	.1890	.2010	56	
5/16-14	.307317	.250	.200212	.2380	.2500	142	
	Tolerance on Lengtl	1	Up to 1 in., Ir	ncl.: +0, -3/64	Over 1 in.: +0, -1/16		

Description	A thread forming screw with a double-lead, consisting of a high and low thread. The lower thread varies in height from 1/3 to 1/2 that of the higher thread, which is sharper and flatter than a standard thread.							
Applications/ Advantages	For use in plastic, nylon, wood or other low-density materials. Thread design reduces driving torques, enhances resis- tance to thread stripping, improves pullout strength and lessens risk of cracking the work piece.							
Material	Steet: 1019-1022 or equivalent steel. Stainless: 410 martensitic or 18-8 austenitic stainless steel							
Heat Treatment	Steel: Screws shall be quenched in liquid and then tempeared by reheating to 650°F minimum. 410 Stainless: Screws shall be annealed by heating to 1850-1950°F, held at least 1/2 hour and rapid air- or oil-quenched then reheating to 525°F minimum for at least 1 hour and air cooled to provide the required tensile, yield and hardness properties.							
Case Hardness	Steel: Rockwell C45 minimum							
Case Depth (steel)	No. 2 thru 6 diameter: .002007 No. 8 thru 12 diameter: .004009 1/4" diameter and larger: .005011							
Core Hardness	Steel (after tempering): Rockwell C28 - 36 410 Stainless (after tempering): Rockwell C38 - 42 18-8 Stainless: Rockwell B100 (approximate)							
Plating	See Appendix-A							
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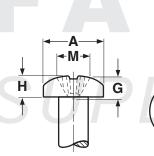
Self- Tapping Screws

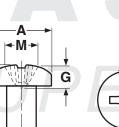


	Н	ead & I	Drive D	IMENSIC	NS FOR	PHILLIP	s F lat I	HIGH-LO	w
	C	Α		Н	М			G	
SUPER	Nominal Size	Head D	ameter	Head Height	Recess I	Diameter		enetration g Depth	Driver Size
, ⊢ M→		Мах	Min	Ref	Max	Min	Max	Min	
	2	.162	.144	.051	.102	.089	.056	.040	1
H G F	4	.212	.191	.067	.128	.115	.082	.066	1
	6	.262	.238	.083	.174	.161	.095	.072	2
	8	.312	.285	.100	.189	.176	.110	.087	2
	10	.362	.333	.116	.204	.191	.125	.102	2
	12	.412	.380	.132	.268	.255	.139	.116	3
	1/4	.477	.442	.153	.283	.270	.154	.131	3
	3			R		. (ノハ	

HEAD & DRIVE DIMENSIONS FOR PHILLIPS PAN HIGH-LOW											
	A		l l	н		N	(G			
Nominal Size	Head D	Head Diameter		ead Diameter Head		Height I		ess neter	Recess Penetration Gaging Depth		Driver Size
	Max	Min	Max	Min	Max	Min	Max	Min			
2	.167	.155	.062	.053	.104	.091	.052	.034	1		
4	.193	.180	.071	.062	.112	.099	.061	.043	1		
5	.219	.205	.080	.070	.122	.109	.071	.053	1		
6	.254	.240	.097	.087	.158	.145	.072	.046	2		
7 & 8	.270	.256	.097	.087	.166	.153	.080	.055	2		
10	.322	.306	.115	.105	.182	.169	.097	.071	2		
12	.373	.357	.133	.122	.199	.186	.113	.089	2		
1/4	.492	.473	.175	.162	.281	.268	.144	.118	3		

Н	Head & Drive Dimensions For Hex Washer High-Low												
C		4	т		J		Н				U		
Nominal Size		Across ats	Slot Depth Slo		Slot	Width I		Height of Head		Diameter of Washer		Thickness of Washer	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
4	.125	.120	-	-	-	-	.055	.044	.177	.163	.016	.010	
6	.187	.181	.049	.030	.043	.035	.070	.058	.260	.240	.025	.015	
8	.250	.244	.053	.033	.048	.039	.093	.080	.328	.302	.025	.015	
10	.250	.244	.074	.052	.054	.045	.110	.096	.348	.322	.031	.019	
12	.312	.305	.103	.077	.067	.056	.155	.139	.432	.398	.039	.022	
1/4	.375	.367	.111	.083	.075	.064	.190	.172	.520	.480	.050	.030	
5/16	.375	.367	.111	.083	.075	.064	.190	.172	.520	.480	.050	.030	



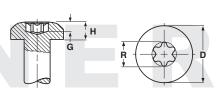


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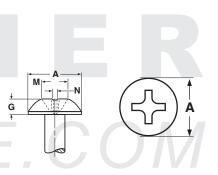
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ΗΕΑ	HEAD & DRIVE DIMENSIONS FOR SIX-LOBE PAN HIGH-LOW SCREWS									
	A		ŀ	4	R	G	Fellowey	Driver Size		
Nominal Size	Head D	Head Diameter Head I		Height	Recess Diameter	Recess Gauge Penetration	Fallaway Gauge Penetration			
	Max	Min	Max	Min	Ref	Min	Max			
2	.167	.155	.062	.053	.094	.030	.019	T8		
4	.193	.180	.071	.062	.094	.033	.019	Т8		
6	.254	.240	.097	.087	.111	.035	.022	T10		
8	.270	.256	.097	.087	.132	.045	.026	T15		
10	.322	.306	.115	.105	.155	.055	.031	T20		
1/4	.492	.473	.175	.162	.221	.085	.044	T30		



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HEAD & DRIVE DIMENSIONS FOR TRUSS PHILLIPS HIGH-LOW										
	A		H	Н		N	G			
Nominal Size	Head D	iameter	Head H	Head Height		Recess Diameter Width		Penetration		
	Max	Min	Мах			Ref	Мах	Min		
4	.226	.211	.061	.051	.104	.018	.059	.042	1	
6	.289	.272	.078	.066	.122	.019	.078	.060	1	
8	.321	.303	.086	.074	.152	.027	.073	.048	2	
10	.384	.364	.102	.088	.166	.029	.088	.063	2	



HEAI	HEAD & DRIVE DIMENSIONS FOR SIX-LOBE FLAT HIGH-LOW SCREWS									
	A		н	R		G				
Nominal Size	Head Diameter		Head Height	Recess Diameter	Recess Gauge Penetration		Fallaway	Driver Size		
	Max	Min	Ref	Ref	Max	Max Min				
2	.162	.144	.051	.069	.056	.040	.014	T6		
4	.212	.191	.067	.094	.082	.066	.019	T8		
6	.262	.238	.083	.111	.095	.072	.022	T10		
8	.312	.285	.100	.132	.110	.087	.026	T15		
10	.362	.333	.116	.155	.125	.102	.031	T20		
1/4	.477	.442	.153	.200	.154	.131	.044	T27		

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