



Standard Part

Machine Screws Inch

STPC110

87366932

Rev AY

Page 1 of 26

1. SCOPE

1.1 The fasteners defined by this standard are Pan, Flat, Oval, Round, Fillister, Hexagon, Hexagon Washer, and Truss Headed Machine Screws.

1.2 CONTENTS

TABLE 1: Dimensions of Slotted Pan Head Machine Screws	4
TABLE 2: Dimensions of Type I Cross Recessed Pan Head Machine Screws	5
TABLE 3: Pan Head, Cross Recessed, Carbon Steel, ZND Machine Screws	5
TABLE 4: Pan Head Machine Screws, Miscellaneous	6
TABLE 5: Dimensions of Slotted Flat Countersunk Head Machine Screws	8
TABLE 6: Dimensions of Cross Recessed Flat Countersunk Head Machine Screws	9
TABLE 7: Flat Head, Cross Recessed, Carbon Steel, ZND Machine Screws	9
TABLE 8: Flat Head Machine Screws, Miscellaneous	10
TABLE 9: Dimensions Cross Recessed Oval Countersunk Head Machine Screws	11
TABLE 10: Oval Head Machine Screws, Miscellaneous	12
TABLE 11: Dimensions of Slotted Round Head Machine Screws	13
TABLE 12: Round Head Machine Screws, Miscellaneous	14
TABLE 13: Dimensions of Plain and Slotted Regular and Large Hex Head Machine Screws	15
TABLE 14: Hexagon Head Machine Screws, Miscellaneous	16
TABLE 15: Dimensions of Plain and Slotted Hex Washer Head Machine Screws	17
TABLE 16: Washer Head Machine Screws, Miscellaneous	18
TABLE 17: Dimensions of Slotted Truss Head Machine Screws	19
TABLE 18: Truss Head, Slotted, Carbon Steel, PLN	20
TABLE 19: Truss Head, Slotted, Carbon Steel, ZND	20
TABLE 20: Truss Head Machine Screws, Miscellaneous	20
TABLE 21: Dimensions of Slotted Fillister Head Machine Screws	21
TABLE 22: Fillister Head, Slotted, Carbon Steel, ZND	22
TABLE 23: Fillister Head Machine Screws Miscellaneous	22
TABLE 24: Dimensions of TORX® Pan Head Machine Screws	23
TABLE 25: Dimensions of TORX® Flat Head Machine Screws	24
TABLE 26: Dimensions of TORX® Truss Head Machine Screws	25
TABLE 27: TORX® (or Equivalent*) Head Machine Screws, Miscellaneous	26

2. GENERAL

This standard may differ in some respects with certain segments of ANSI. In recognition of these differences, the sizes and tolerance ranges used were established in an effort to enable the use of commercially available items, dimensionally interchangeable worldwide.

AUTHOR	APPROVED BY	ECO	PART NUMBER
D RAVI 16JUN26	A KHAN 16JUN26	35529212	87366932

THE INFORMATION HEREON IS THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF CNH INDUSTRIAL AND/OR ITS SUBSIDIARIES OR DIVISIONS. ANY USE, EXCEPT THAT FOR WHICH IT MAY BE LOANED, IS PROHIBITED.

UNCONTROLLED COPY When Printed

3. RELATED DOCUMENTS

3.1 RELATED STANDARDS

STPA020—Fastener Finishes and Material Specifications

MAT0310—Zinc Plating

ANSI B1.1—Unified Screw Threads

ANSI B18.6.3—Machine Screws and Machine Screw Nuts

SAE J1061—Surface Discontinuities on General Application Bolts, Screws, and Studs

3.2 REPLACED STANDARDS

Case C-001 Machine Screws (General Specifications)

Case C-002 Flat Head Machine Screws - Dimensional Requirements

Case C-003 Flat Head Machine Screws - Cross Recess - Preferred

Case C-004 Flat Head Machine Screws - Cross Recess - Non Preferred

Case C-005 Flat Head Machine Screws - Slotted - Non Preferred

Case C-006 Flat Head Machine Screws - Special - Non Preferred

Case C-007 Oval Head Machine Screws - Dimensional Requirements

Case C-008 Oval Head Machine Screws - Cross Recess – Preferred

Case C-009 Oval Head Machine Screws - Cross Recess - Non Preferred

Case C-010 Oval Head Machine Screws - Slotted - Non Preferred

Case C-012 Pan Head Machine Screws - Dimensional Requirements

Case C-013 Pan Head Machine Screws - Cross Recess - Preferred

Case C-014 Pan Head Machine Screws - Cross Recess - Non Preferred

Case C-015 Pan Head Machine Screws - Slotted - Non Preferred

Case C-016 Pan Head Machine Screws - Special - Non Preferred

Case C-030 Hexagon Head Machine Screws - Dimensional Requirements

Case C-031 Hex Head Machine Screws - Preferred

Case C-032 Hex Washer Head Machine Screws - Preferred

Case C-033 Hex Head Machine Screws - Non Preferred

FNHA 1-B-140.00 Machine Screw, Pan Head, Cross Recess Drive, Zn Cr Plated, Coarse Threads

FNHA 1-B-150.00 Machine Screw, Flat Countersunk Head, Cross Recess Drive, Zn Cr Plated, Coarse Threads

4. REQUIREMENTS

4.1 MATERIAL

Screws shall conform to the chemical composition, mechanical properties, and heat treatment requirements for steel per SAE J429.

4.2 PLATING

The preferred plating is Yellow Zinc with Chromate (ZND) per MAT0310.

4.3 DRIVE TYPE

The preferred drive type is cross recessed per ANSI B18.6.3.

4.4 MECHANICAL DIMENSIONS

The screw thread geometry shall be coarse or fine pitch, according to ANSI B1.1 before plating. The general dimensions shall meet the requirements in the appropriate tables listed. Referenced standards (latest versions), where applicable, shall be considered to be a part of this standard.

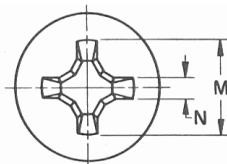
4.5 SURFACE DISCONTINUITIES

All screws listed in this standard shall meet the Surface Discontinuities on General Applications Bolts, Screws and Studs per SAE J1061 requirement.

5. CROSS REFERENCE

For cross reference listing of company part numbers, go to [CNH Catalogue](#).

Pan Head Machine Screws Inch Series Dimensional Requirements



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

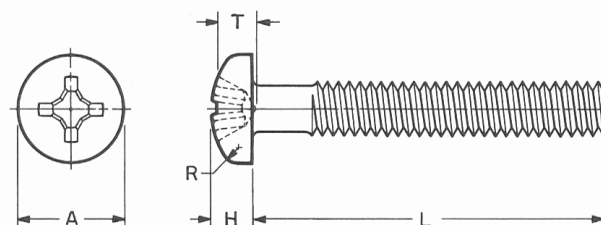
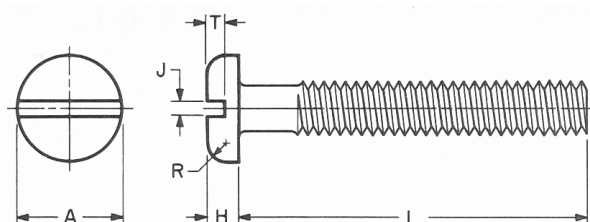


TABLE 1: Dimensions of Slotted Pan Head Machine Screws

Nominal Size or Basic Screw Diameter		A		H		R	J		T	
		Head Diameter		Head Height		Head Radius	Slot Width		Slot Depth	
		Max	Min	Max	Min	Max	Max	Min	Max	Min
4	0.1120	0.219	0.205	0.068	0.058	0.042	0.039	0.031	0.040	0.030
5	0.1250	0.245	0.231	0.075	0.065	0.044	0.043	0.035	0.045	0.034
6	0.1380	0.270	0.256	0.082	0.072	0.046	0.048	0.039	0.050	0.037
8	0.1640	0.322	0.306	0.096	0.085	0.052	0.054	0.045	0.058	0.045
10	0.1900	0.373	0.357	0.110	0.099	0.061	0.060	0.050	0.068	0.053
12	0.2160	0.425	0.407	0.125	0.112	0.078	0.067	0.056	0.077	0.061
1/4	0.2500	0.492	0.473	0.144	0.130	0.087	0.075	0.064	0.087	0.070
5/16	0.3125	0.615	0.594	0.178	0.162	0.099	0.084	0.072	0.106	0.085
3/8	0.3750	0.740	0.716	0.212	0.195	0.143	0.094	0.081	0.124	0.100
7/16	0.4375	0.863	0.837	0.247	0.228	0.153	0.094	0.081	0.142	0.116
1/2	0.5000	0.987	0.958	0.281	0.260	0.175	0.106	0.091	0.161	0.131
9/16	0.5625	1.041	1.000	0.315	0.293	0.197	0.118	0.102	0.179	0.146
5/8	0.6250	1.172	1.125	0.350	0.325	0.219	0.133	0.116	0.197	0.162
3/4	0.7500	1.435	1.375	0.419	0.390	0.263	0.149	0.131	0.234	0.192

Pan Head Machine Screws

TABLE 2: Dimensions of Type I Cross Recessed Pan Head Machine Screws

Nominal Size or Basic Screw Diameter		A		H	R	M	T	N	Driver Size	Recess Penetration Gaging Depth
		Head Diameter		Head Height	Head Radius	Recess Diameter	Recess Depth	Recess Width		
		Max, Edge Sharp	Min, Edge Round- ed or Flat	Max	Min	Max	Max	Min		Max
4	0.1120	0.219	0.205	0.080	0.010	0.122	0.078	0.019	1	0.071
5	0.1250	0.245	0.231	0.089	0.015	0.158	0.083	0.028	2	0.072
6	0.1380	0.270	0.256	0.097	0.015	0.166	0.091	0.028	2	0.080
8	0.1640	0.322	0.306	0.115	0.015	0.182	0.108	0.030	2	0.097
10	0.1900	0.373	0.357	0.133	0.020	0.199	0.124	0.031	2	0.113
12	0.2160	0.425	0.407	0.151	0.025	0.259	0.141	0.034	3	0.124
1/4	0.2500	0.492	0.473	0.175	0.035	0.281	0.161	0.036	3	0.144
5/16	0.3125	0.615	0.594	0.218	0.040	0.350	0.193	0.059	4	0.173
3/8	0.3750	0.740	0.716	0.261	0.040	0.389	0.233	0.065	4	0.213
7/16	0.4375	0.863	0.837	0.305	0.050	0.413	0.259	0.068	4	0.239
1/2	0.5000	0.987	0.958	0.348	0.055	0.435	0.280	0.071	4	0.260
9/16	0.5625	1.041	1.000	0.391	0.065	0.470	0.312	0.076	4	0.292
5/8	0.6250	1.172	1.125	0.434	0.075	0.587	0.343	0.081	5	0.310
3/4	0.7500	1.435	1.375	0.521	0.085	0.633	0.382	0.086	5	0.349

TABLE 3: Pan Head, Cross Recessed, Carbon Steel, ZND Machine Screws

	Diameter								
Length	#2-56	#4-40	#5-40	#6-32	#8-32	#10-24	1/4-20	5/16-18	3/8-16
1/4	82018841	281026		281043	86511910				
5/16				86511907	86511911	86511918			
3/8		281027		281025	9636160	86511919	86511930		
1/2			86511906	281007	81822758	86511920	85700996	86511936	86511944
5/8				86625159	86511912	86511921	86511931	86511937	86511945
3/4		86511904		86511908	86502682	86511922	86511932	86511938	86511946
7/8					86511914	80159952			
1				281045	86511915	86511923	85700333	86511939	86511947
1-1/4		86511905		9635014		86511924	86511933	86511940	86511948
1-3/8				87319756					
1-1/2				86564963	86511916	86511925	86511934	86511941	86511949
1-3/4						86625207	86511935	86511942	86511950
2					86511917	86511927	85700334	86511943	86511951
2-1/4				86511909		86836487			86511952
2-1/2						86511929			
3						86528990			

TABLE 4: Pan Head Machine Screws, Miscellaneous

Diameter	Length	Drive Type	Material	Finish	Part Number
#4-40	1/4	C/R	SST	PLN	86632552
#4-40	3/4	C/R	CST	BLO	86597408
#4-40	3/4	C/R	CST	BZN	48097651
#5-40	3/8	SLT	CST	ZND	86625193
#6-32	1/4	C/R	CST	PLN	84305559
#6-32	3/8	C/R	CST	DOR	47387045
#6-32	3/8	C/R	SST	PLN	47685656
#6-32	7/16	C/R	CST	PLN	10055
#6-32	1/2	C/R	CST	BZN	47915691
#6-32	3/4	C/R	CST	BZN	86625194
#6-32	1-1/8	C/R	CST	ZND	47570937
#6-32	1-1/2	C/R	SST (18-8)	PLN	90472548
#6-32	1-3/4	C/R	SST (18-8)	PLN	91886067
#8-32	3/8	C/R	CST	BZN	87025546
#8-32	3/8	C/R	CST	PHC	86634392
#8-32	1/2	C/R	CST	BZN	87025547
#8-32	1/2	C/R	CST	PHC	86634390
#8-32	3/4	C/R	CST	PHC	87779051
#8-32	3/4	C/R	SST	PLN	87610705
#8-32	1-1/4	SLT	CST	ZND	84543375
#10-24	1/2	C/R	CST	BZN	86625178
#10-24	1/2	C/R	CST	POL	87307791
#10-24	1/2	C/R	SST	BLO	87310124
#10-24	5/8	C/R	CST	ZND	&92185677
#10-24	3/4	C/R	CST	BZN	87038800
#10-24	3/4	C/R	CST	POL	87307798
#10-24	3/4	C/R	SST	BLO	87310126
#10-24	7/8	C/R	SST	PLN	87682408
#10-24	1	C/R	CST	POL	87307793
#10-24	1	SLT	CST	ZND	436736
#10-24	1-1/4	C/R	CST	ZND	&92189925
#10-24	1-3/4	C/R	SST	PLN	48068866
#10-24	2	C/R	SST	PLN	84144658
#10-24	2-1/4	C/R	CST	POL	87307794
#10-32	3/8	C/R	CST	ZND	86625188
#10-32	1/2	C/R	CST	ZND	86625206
#10-32	1/2	C/R	SST (18-8)	PLN	92843784
#10-32	5/8	C/R	CST	BZN	86500683
#10-32	5/8	C/R	CST	ZND	87016450

& With chemical coating per IFI 525; ND Microspheres 593S (Blue) or Precote 85; Minimum of 5 pitches, entire circumference starting 2 pitches from end.



Standard Part Machine Screws Inch

STPC110

87366932

Rev AY

Page 7 of 26

TABLE 4: Pan Head Machine Screws, Miscellaneous (cont'd)

Diameter	Length	Drive Type	Material	Finish	Part Number
#10-32	7/8	C/R	CST	ZND	87020181
#10-32	7/8	SLT	CST	ZND	86625189
#10-32	1	C/R	CST	BZN	87030526
#10-32	1	C/R	CST	ZND	87027911
#10-32	1-1/4	C/R	CST	ZND	9847781
#10-32	2	SLT	CST	ZND	84401338
#12-24	5/8	SLT	CST	ZND	87013977
#12-24	3/4	C/R	SST	PLN	84481945
#12-24	1	C/R	SST	PLN	84524239
#12-24	1-1/4	C/R	SST	PLN	91874329
1/4-20	5/8	C/R	CST	PHC	87035862
1/4-20	1-1/4	C/R	CST	PHC	87015126

Flat Countersunk Head Machine Screws Inch Series Dimensional Requirements

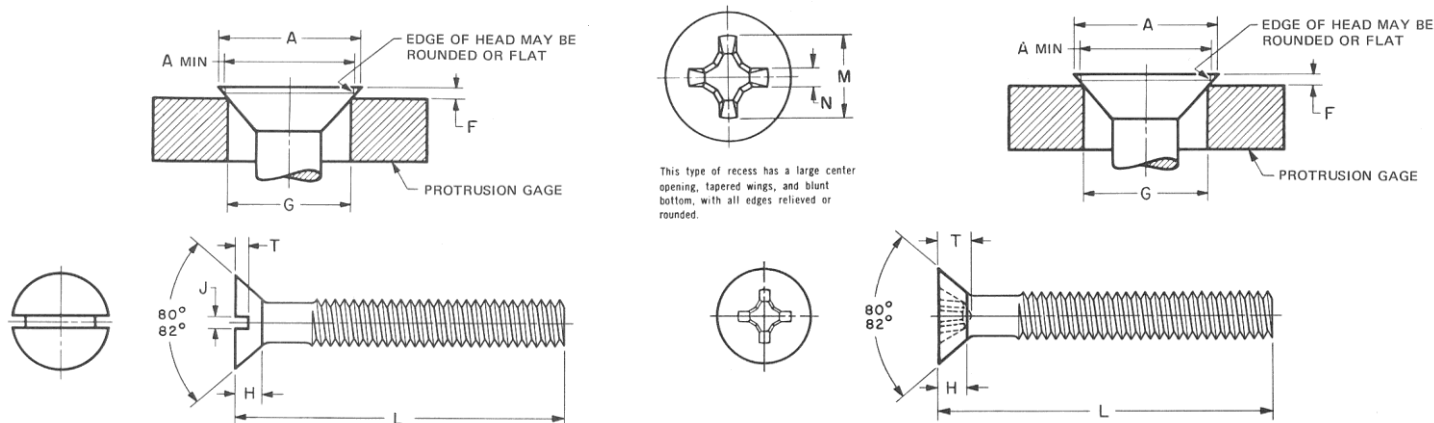


TABLE 5: Dimensions of Slotted Flat Countersunk Head Machine Screws

Nominal Size or Basic Screw Diameter		L	A		H	J	T
		These Lengths or Shorter are Undercut	Head Diameter		Head Height	Slot Width	Slot Depth
			Max, Edge Sharp	Min, Edge Rounded or Flat			
					Ref	Max	Max
4	0.1120	3/16	0.225	0.195	0.067	0.039	0.030
5	0.1250	3/16	0.252	0.220	0.075	0.043	0.034
6	0.1380	3/16	0.279	0.244	0.083	0.048	0.038
8	0.1640	1/4	0.332	0.292	0.100	0.054	0.045
10	0.1900	5/16	0.385	0.340	0.116	0.060	0.053
12	0.2160	3/8	0.438	0.389	0.132	0.067	0.060
1/4	0.2500	7/16	0.507	0.452	0.153	0.075	0.070
5/16	0.3125	1/2	0.635	0.568	0.191	0.084	0.088
3/8	0.3750	9/16	0.762	0.685	0.230	0.094	0.106
7/16	0.4375	5/8	0.812	0.723	0.223	0.094	0.103
1/2	0.5000	3/4	0.875	0.775	0.223	0.106	0.103
9/16	0.5625	-	1.000	0.889	0.260	0.118	0.120
5/8	0.6250	-	1.125	1.002	0.298	0.133	0.137
3/4	0.7500	-	1.375	1.230	0.372	0.149	0.171



Standard Part Machine Screws Inch

STPC110

87366932

Rev AY

Page 9 of 26

Flat Countersunk Head Machine Screws

TABLE 6: Dimensions of Cross Recessed Flat Countersunk Head Machine Screws

Nominal Size or Basic Screw Diameter		L	A	H	M	T	N	Driver Size	Recess Penetratio n Gaging Depth	F	
		These Lengths or Shorter are Undercu t	Head Diamete r	Head Height	Recess Diamete r	Reces s Depth	Reces s Width			Max	Max
			Max, Edge Sharp								
			Ref								
4	0.1120	3/16	0.225	0.067	0.128	0.089	0.018	1	0.082	0.032	
5	0.1250	3/16	0.252	0.075	0.154	0.086	0.027	2	0.075	0.034	
6	0.1380	3/16	0.279	0.083	0.174	0.106	0.029	2	0.095	0.036	
8	0.1640	1/4	0.332	0.100	0.189	0.121	0.030	2	0.110	0.039	
10	0.1900	5/16	0.385	0.116	0.204	0.136	0.032	2	0.125	0.042	
12	0.2160	3/8	0.438	0.132	0.268	0.156	0.035	3	0.139	0.045	
1/4	0.2500	7/16	0.507	0.153	0.283	0.171	0.036	3	0.154	0.050	
5/16											
6	0.3125	1/2	0.635	0.191	0.365	0.216	0.061	4	0.196	0.057	
3/8	0.3750	9/16	0.762	0.230	0.393	0.245	0.065	4	0.225	0.065	
7/16											
6	0.4375	5/8	0.812	0.223	0.409	0.261	0.068	4	0.241	0.073	
1/2	0.5000	3/4	0.875	0.223	0.424	0.276	0.069	4	0.256	0.081	
9/16											
6	0.5625	-	1.000	0.260	0.454	0.300	0.073	4	0.280	0.089	
5/8	0.6250	-	1.125	0.298	0.576	0.342	0.079	5	0.309	0.097	
3/4	0.7500	-	1.375	0.372	0.640	0.406	0.087	5	0.373	0.112	

TABLE 7: Flat Head, Cross Recessed, Carbon Steel, ZND Machine Screws

Length	Diameter						
	#5-40	#8-32	#10-24	1/4-20	5/16-18	3/8-16	1/2-13
1/2	86511970		86511971				
5/8		87319730	86511972	86511974		86511981	
3/4		87319731	86511973	86511975	86511977	86511982	
1				86632573	86511978	86511983	86533396
1-1/4					86511979	86511984	
1-1/2					86511980	86511985	
1-3/4						86511986	
2					87564744	86630906	
2-1/2				86511976			
2-3/4				87625626			

THE INFORMATION HEREON IS THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF CNH INDUSTRIAL N.V. AND/OR ITS SUBSIDIARIES OR DIVISIONS. ANY USE, EXCEPT THAT FOR WHICH IT MAY BE LOANED, IS PROHIBITED.

UNCONTROLLED COPY When Printed



Standard Part Machine Screws Inch

STPC110**87366932****Rev AY****Page 10 of 26****TABLE 8: Flat Head Machine Screws, Miscellaneous**

Diameter	Length	Drive Type	Material	Finish	Part Number
#6-32	1/2	SLT	BRASS	PLN	88104
#8-32	5/8	C/R	CST	PHC	155893
1/4-20	3/4	C/R	CST	BZN	86552551
3/8-16	2-1/4	SLT	CST	PLN	84787

Oval Countersunk Head Machine Screws Inch Series Dimensional Requirements

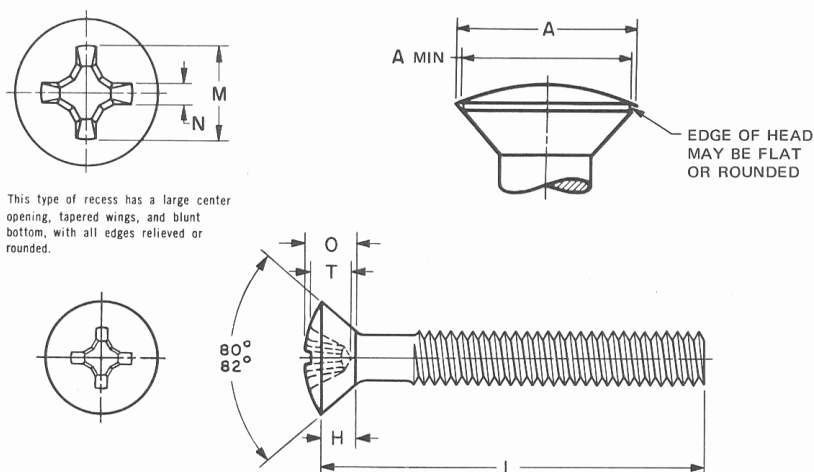


TABLE 9: Dimensions Cross Recessed Oval Countersunk Head Machine Screws

Nominal Size or Basic Screw Diameter		L	A	H	O	M	T	N	Driver Size
		These Lengths or Shorter are Undercut	Head Diameter	Head Height	Total Head Height	Recess Diameter	Recess Depth	Recess Width	
			Max, Edge Sharp	Ref	Max	Max	Max	Min	
4	0.1120	3/16	0.225	0.067	0.104	0.136	0.094	0.019	1
5	0.1250	3/16	0.252	0.075	0.116	0.158	0.085	0.028	2
6	0.1380	3/16	0.279	0.083	0.128	0.178	0.105	0.030	2
8	0.1640	1/4	0.332	0.100	0.152	0.192	0.119	0.031	2
10	0.1900	5/16	0.385	0.116	0.176	0.209	0.137	0.033	2
12	0.2160	3/8	0.438	0.132	0.200	0.270	0.152	0.038	3
1/4	0.2500	7/16	0.507	0.153	0.232	0.290	0.173	0.040	3
5/16	0.3125	1/2	0.635	0.191	0.290	0.390	0.238	0.065	4
3/8	0.3750	9/16	0.762	0.230	0.347	0.410	0.257	0.068	4
7/16	0.4375	5/8	0.812	0.223	0.345	0.422	0.269	0.070	4
1/2	0.5000	3/4	0.875	0.223	0.354	0.437	0.283	0.071	4
9/16	0.5625	-	1.000	0.260	0.410	0.473	0.316	0.075	4
5/8	0.6250	-	1.125	0.298	0.467	0.591	0.356	0.081	5
3/4	0.7500	-	1.375	0.372	0.578	0.653	0.421	0.088	5

Oval Countersunk Head Machine Screws**TABLE 10: Oval Head Machine Screws, Miscellaneous**

Diameter	Length	Drive Type	Material	Finish	Part Number
#6-32	1/2	C/R	CST	BLO	592888
#6-32	7/8	C/R	CST	ZND	9790634
#8-32	1 1/4	C/R	CST	ZND	84151583
#10-24	5/8	C/R	CST	ZND	89672387
#10-24	3/4	C/R	CST	ZND	87023135
#10-24	3/4	C/R	CST	PTF	86625203
#10-24	1	C/R	CST	ZND	86625177
#10-24	1	C/R	CST	PTF	86625202
1/4-20	3/4	SLT	CST	ZND	88534
1/4-20	1 1/4	SLT	CST	ZND	84243252

Round Head Machine Screws Inch Series Dimensional Requirements

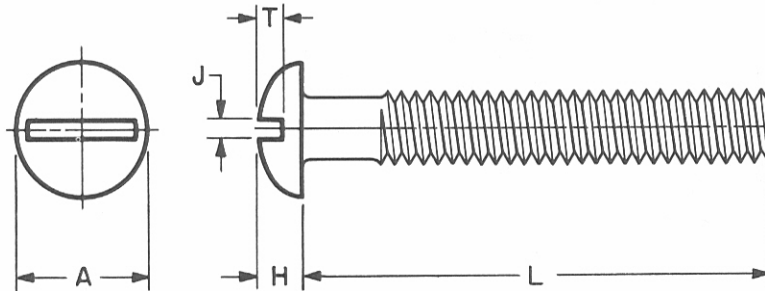


TABLE 11: Dimensions of Slotted Round Head Machine Screws

Nominal Size or Basic Screw Diameter		A	H	J	T
		Head Diameter	Head Height	Slot Width	Slot Depth
		Max	Max	Max	Max
2	0.0860	0.162	0.069	0.031	0.048
3	0.0990	0.187	0.078	0.035	0.053
4	0.1120	0.211	0.086	0.039	0.058
5	0.1250	0.236	0.095	0.043	0.063
6	0.1380	0.260	0.103	0.048	0.068
8	0.1640	0.309	0.120	0.054	0.077
10	0.1900	0.359	0.137	0.060	0.087
12	0.2160	0.408	0.153	0.067	0.096
1/4	0.2500	0.472	0.175	0.075	0.109
5/16	0.3125	0.590	0.216	0.084	0.132
3/8	0.3750	0.708	0.256	0.094	0.155
7/16	0.4375	0.750	0.328	0.094	0.196
1/2	0.5000	0.813	0.355	0.106	0.211
9/16	0.5625	0.938	0.410	0.118	0.242
5/8	0.6250	1.000	0.438	0.133	0.258
3/4	0.7500	1.250	0.547	0.149	0.320

TABLE 12: Round Head Machine Screws, Miscellaneous

Diameter	Length	Drive Type	Material	Finish	Part Number
#2-56	1/8	SLT	BRASS	PLN	*92810792
#8-32	3/4	SLT	CST	ZND	9672509
#10-24	1/2	SLT	CST	ZND	81822875
#10-24	3/4	C/R	CST	ZND	9672278
#10-32	1/2	SLT	CST	ZND	88986
1/4-28	3	SLT	CST	ZND	280280

*Rockwell B40

Hexagon Head Machine Screws Inch Series Dimensional Requirements

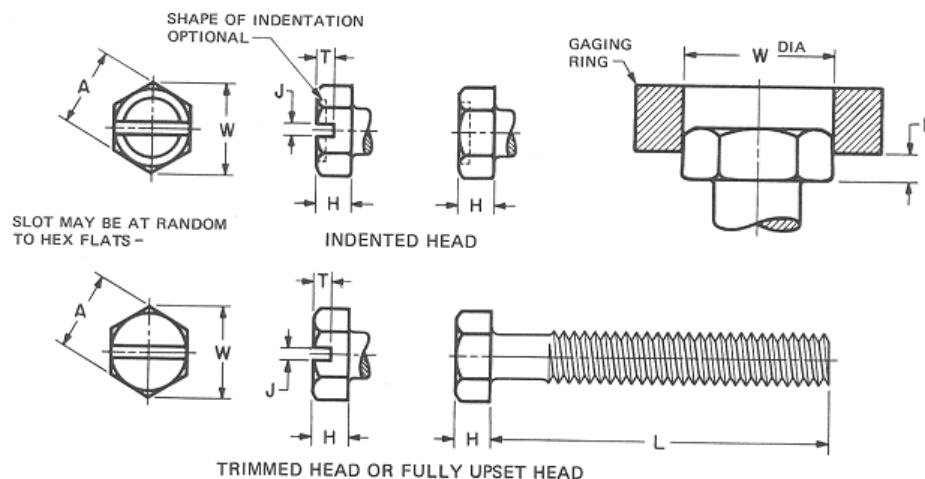


TABLE 13: Dimensions of Plain and Slotted Regular and Large Hex Head Machine Screws

Nominal Size or Basic Screw Diameter		A	W	A	W	H	J	T	F
		Regular Head		Large Head		Head Height	Slot Width	Slot Depth	Protrusion Beyond Gaging Ring
		Width Across Flats	Across Corners	Width Across Flats	Across Corners				
		Max	Min	Max	Min	Max	Max	Max	Min
4	0.1120	0.188	0.202	0.219	0.238	0.060	0.039	0.036	0.029
5	0.1250	0.188	0.202	0.250	0.272	0.070	0.043	0.042	0.035
6	0.1380	0.250	0.272	-	-	0.093	0.048	0.046	0.048
8	0.1640	0.250	0.272	0.312	0.340	0.110	0.054	0.066	0.058
10	0.1900	0.312	0.340	-	-	0.120	0.060	0.072	0.063
12	0.2160	0.312	0.340	0.375	0.409	0.155	0.067	0.093	0.083
1/4	0.2500	0.375	0.409	0.438	0.477	0.190	0.075	0.101	0.103
5/16	0.3125	0.500	0.545	-	-	0.230	0.084	0.122	0.125
3/8	0.3750	0.562	0.614	-	-	0.295	0.094	0.156	0.162

Hexagon Head Machine Screws

TABLE 14: Hexagon Head Machine Screws, Miscellaneous

Diameter	Length	Drive Type	Material	Finish	Part Number
#4-40	1/2	HEX	SST	PLN	87023527
#10-24	3/8	HEX	CST	ZND	86632574
#10-24	1/2	HEX	CST	ZND	86624117
#10-24	3/4	HEX	CST	ZND	86625179
#10-24	3/4	SLT	CST	ZND	280342
#10-24	1	HEX	CST	ZND	84331292
#10-24	1-1/4	HEX	5	ZND	87733381
#10-24	1-1/2	HEX	CST	ZND	84361277
#10-24	1-3/4	HEX	CST	PHC	87016451
#10-32	3/8	HEX	CST	ZND	87573375
#10-32	1/2	HEX	5	ZND	86637658
#10-32	1/2	HEX	CST	ZND	87016452
#10-32	3/4	HEX	CST	ZND	87308282
#12-24	1-1/2	SLT	CST	PLN	88166

Hexagon Washer Head Machine Screws Inch Series Dimensional Requirements

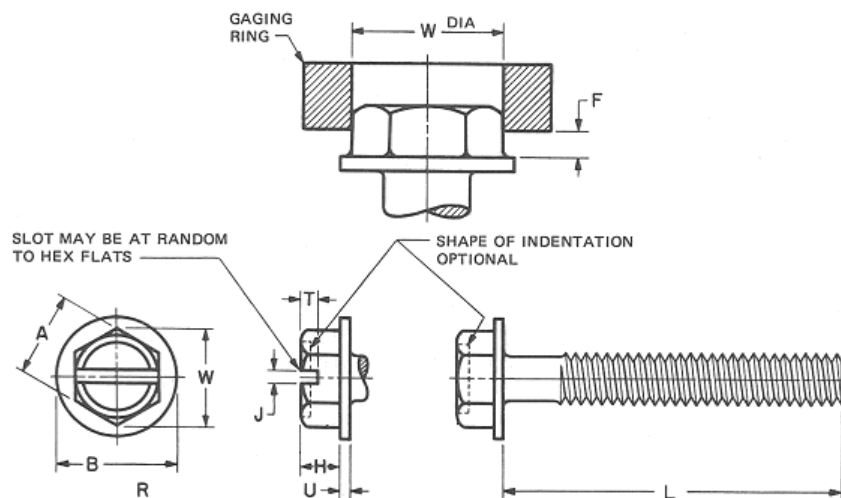


TABLE 15: Dimensions of Plain and Slotted Hex Washer Head Machine Screws

Nominal Size or Basic Screw Diameter		A	W	H	B	U	J	T	F
		Width Across Flats	Across Corners	Head Height	Washer Diameter	Washer Thickness	Slot Width	Slot Depth	Protrusion Beyond Gaging Ring
		Max	Min	Max	Max	Max	Max	Max	Min
2	0.0860	0.125	0.134	0.050	0.166	0.016	-	-	0.024
3	0.0990	0.125	0.134	0.055	0.177	0.016	-	-	0.026
4	0.1120	0.188	0.202	0.060	0.243	0.019	0.039	0.042	0.029
5	0.1250	0.188	0.202	0.070	0.260	0.025	0.043	0.049	0.035
6	0.1380	0.250	0.272	0.093	0.328	0.025	0.048	0.053	0.048
8	0.1640	0.250	0.272	0.110	0.348	0.031	0.054	0.074	0.058
10	0.1900	0.312	0.340	0.120	0.414	0.031	0.060	0.080	0.063
12	0.2160	0.312	0.340	0.155	0.432	0.039	0.067	0.103	0.083
1/4	0.2500	0.375	0.409	0.190	0.520	0.050	0.075	0.111	0.103
5/16	0.3125	0.500	0.545	0.230	0.676	0.055	0.084	0.134	0.125
3/8	0.3750	0.562	0.614	0.295	0.780	0.063	0.094	0.168	0.162



Standard Part

Machine Screws Inch

STPC110

87366932

Rev AY

Page 18 of 26

TABLE 16: Washer Head Machine Screws, Miscellaneous

Diameter	Length	Drive Type	Material	Finish	Part Number
#6-32	1/4	SLT	CST	ZND	9602215
#10-24	7/32	HEX	CST	PLN	136207
#10-24	5/8	HEX	CST	ZND	87690480
#10-24	1.0	HEX	CST	ZND	87302571
#10-32	1/2	HEX	CST	ZND	87301687
1/4-20	1/2	HEX	CST	ZND	9602201
1/4-20	3/4	HEX	CST	ZND	87556251
5/16-18	1/2	HEX	BRS	PLN	87348851
5/16-18	1/2	HEX	CST	ZND	88957
5/16-18	3/4	HEX	CST	ZND	88976

Truss Head Machine Screws Inch Series Dimensional Requirements

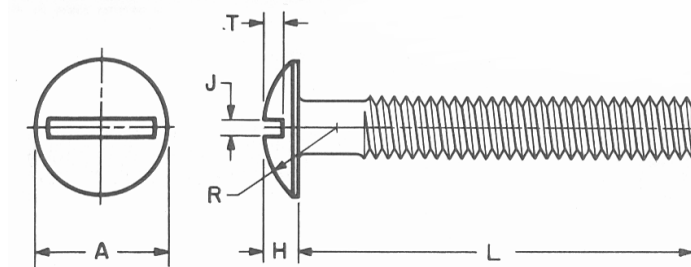


TABLE 17: Dimensions of Slotted Truss Head Machine Screws

Nominal Size or Basic Screw Diameter		A		H		R	J		T	
		Head Diameter		Head Height		Head Radius	Slot Width		Slot Depth	
		Max	Min	Max	Min	Max	Max	Min	Max	Min
4	0.1120	0.257	0.241	0.069	0.059	0.169	0.039	0.031	0.040	0.030
5	0.1250	0.289	0.272	0.078	0.066	0.191	0.043	0.035	0.045	0.034
6	0.1380	0.321	0.303	0.086	0.074	0.211	0.048	0.039	0.050	0.037
8	0.1640	0.384	0.364	0.102	0.088	0.254	0.054	0.045	0.058	0.045
10	0.1900	0.448	0.425	0.118	0.103	0.283	0.060	0.050	0.068	0.053
12	0.2160	0.511	0.487	0.134	0.118	0.336	0.067	0.056	0.077	0.061
1/4	0.2500	0.573	0.546	0.150	0.133	0.375	0.075	0.064	0.087	0.070
5/16	0.3125	0.698	0.666	0.183	0.162	0.457	0.084	0.072	0.106	0.085
3/8	0.3750	0.823	0.787	0.215	0.191	0.538	0.094	0.081	0.124	0.100
7/16	0.4375	0.948	0.907	0.248	0.221	0.619	0.094	0.081	0.142	0.116
1/2	0.5000	1.073	1.028	0.280	0.250	0.701	0.106	0.091	0.161	0.131
9/16	0.5625	1.198	1.149	0.312	0.279	0.783	0.118	0.102	0.179	0.146
5/8	0.6250	1.323	1.269	0.345	0.309	0.863	0.133	0.116	0.196	0.162
3/4	0.7500	1.573	1.511	0.410	0.368	1.024	0.149	0.131	0.234	0.182

Truss Head Machine Screws

TABLE 18: Truss Head, Slotted, Carbon Steel, PLN

	Diameter						
Length	#5-40	#6-32	#8-32	#10-24	1/4-20	5/16-18	3/8-16
3/8	80307						
1/2		81742	81743	84459	80256		
5/8				80378	80373	80302	
3/4				81746	80230	80370	84023
7/8					84068	81753	84791
1				84458	81749	84561	84496
1-1/4				84465	84484	80308	84470
1-1/2				84758	84469	84563	84772
1-3/4				84759	84764	88728	
2				84558	84560	87900	
6					84769		

TABLE 19: Truss Head, Slotted, Carbon Steel, ZND

	Diameter							
Length	#4-40	#6-32	#8-32	#10-24	1/4-20	5/16-18	3/8-16	1/2-13
1/4				88440	280469			
3/8			87655	84893	280704			
1/2		280633	87977	84821	84467	118821	81754	
5/8			88336	84461	84468	87255		
3/4	280875		280442	60485	84909	84896	87101	
1			87758	84464	87252	87256	87259	
1-1/8				280923				
1-1/4	280876			84879	87253	87257	87260	88342
1-1/2				280603	87254	87258	87261	
1-3/4				88475	88213	280525	88131	
2					88205	88835	88084	
2-1/4							280124	

TABLE 20: Truss Head Machine Screws, Miscellaneous

Diameter	Length	Drive Type	Material	Finish	Part Number
#10-32	5/8	SLT	CST	ZND	80088127
#10-32	1	SLT	CST	ZND	87826
1/4-20	3/4	SLT	CST	BZN	80590099
5/16-24	1-1/4	SLT	CST	ZND	280353

Fillister Head Machine Screws Inch Series Dimensional Requirements

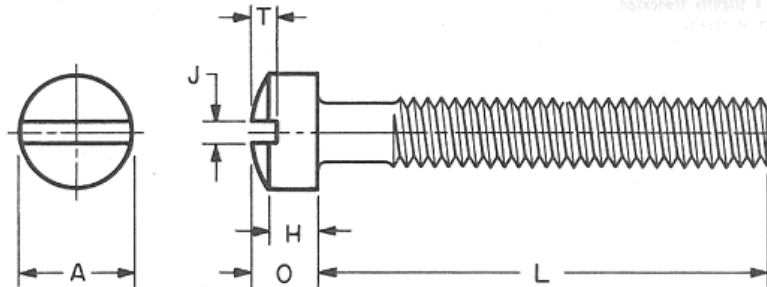


TABLE 21: Dimensions of Slotted Fillister Head Machine Screws

Nominal Size or Basic Screw Diameter		A	H	O	J	T
		Head Diameter	Head Side Height	Total Head Height	Slot Width	Slot Depth
		Max	Max	Max	Max	Max
4	0.1120	0.183	0.079	0.107	0.039	0.048
5	0.1250	0.205	0.088	0.120	0.043	0.054
6	0.1380	0.226	0.096	0.132	0.048	0.060
8	0.1640	0.270	0.113	0.156	0.054	0.071
10	0.1900	0.313	0.130	0.180	0.060	0.083
12	0.2160	0.357	0.148	0.205	0.067	0.094
1/4	0.2500	0.414	0.170	0.237	0.075	0.109
5/16	0.3125	0.518	0.211	0.295	0.084	0.137
3/8	0.3750	0.622	0.253	0.355	0.094	0.164
7/16	0.4375	0.625	0.265	0.368	0.094	0.170
1/2	0.5000	0.750	0.297	0.412	0.106	0.190
9/16	0.5625	0.812	0.336	0.466	0.118	0.214
5/8	0.6250	0.875	0.375	0.521	0.133	0.240
3/4	0.7500	1.000	0.441	0.612	0.149	0.281

Fillister Head Machine Screws

TABLE 22: Fillister Head, Slotted, Carbon Steel, ZND

Length	Diameter				
	#6-32	#8-32	#10-24	1/4-20	5/16-18
7/16			280989	88210	
1/2		88985			
5/8					
3/4	80280389				280240
7/8				280241	
1		88246			
1-1/4	88363			88418	
1-1/2		88203			
2		281002			

TABLE 23: Fillister Head Machine Screws Miscellaneous

Diameter	Length	Drive Type	Material	Finish	Part Number
#12-24	5/8	SLT	CST	PLN	88066
#10-32	1/2	SLT	CST	ZND	88045
#10-32	5/8	SLT	CST	ZND	86837553

TORX® Pan Head Machine Screws Inch Series Dimensional Requirements

NOTE: Head dimensions based on ANSI B18.6.3 machine screw, B18.6.4 tapping, and proposed thread rolling screw specs.

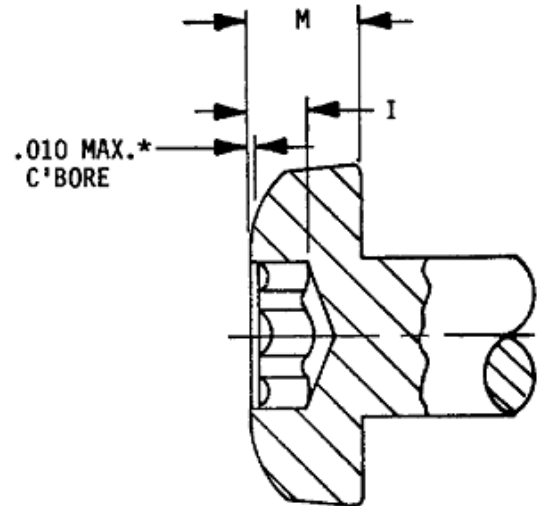
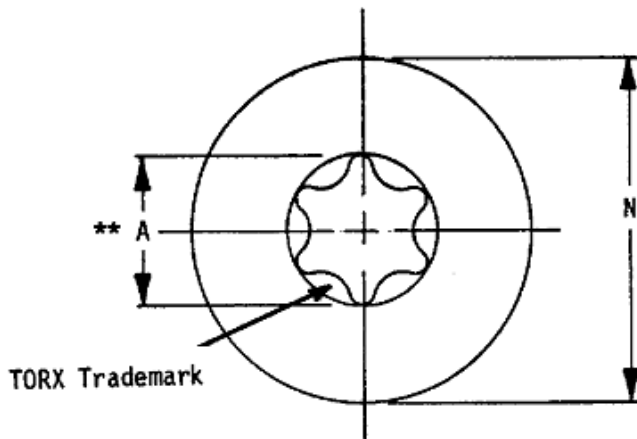


TABLE 24: Dimensions of TORX® Pan Head Machine Screws

Drive Size	Screw Size		Head Dimensions				Recess Dimensions	
			N		M		A	I
			Max	Min	Max	Min		
T1							0.035	
T2							0.039	
T3							0.047	
T4							0.053	
T5							0.058	
T6	0.073	1	0.142	0.130	0.053	0.044	0.069	0.025
T8	0.086	2	0.167	0.155	0.062	0.053	0.094	0.030
TS	0.099	3	0.193	0.180	0.071	0.062	0.094	0.033
T10	0.112	4	0.219	0.205	0.080	0.070	0.111	0.035
T10	0.125	5	0.245	0.231	0.089	0.079	0.111	0.045
T15	0.138	6	0.270	0.256	0.097	0.087	0.132	0.045
T20	0.164	8	0.322	0.306	0.115	0.105	0.155	0.055
T25	0.190	10	0.373	0.357	0.133	0.122	0.178	0.070
T27	0.216	12	0.425	0.407	0.151	0.139	0.200	0.070
T30	0.250	1/4	0.492	0.473	0.175	0.162	0.221	0.085
T40	0.312	5/16	0.615	0.594	0.218	0.203	0.266	0.105
T45	0.375	3/8	0.740	0.716	0.261	0.244	0.312	0.130
T50	0.437	7/16	0.862	0.836	0.305	0.284	0.352	0.144
T55	0.500	1/2	0.987	0.958	0.348	0.325	0.446	0.165

TORX® Flat Head Machine Screws Inch Series Dimensional Requirements

Head dimensions based on ANSI B18.6.3 machine screw, B18.6.4 tapping, and proposed thread rolling screw specs.

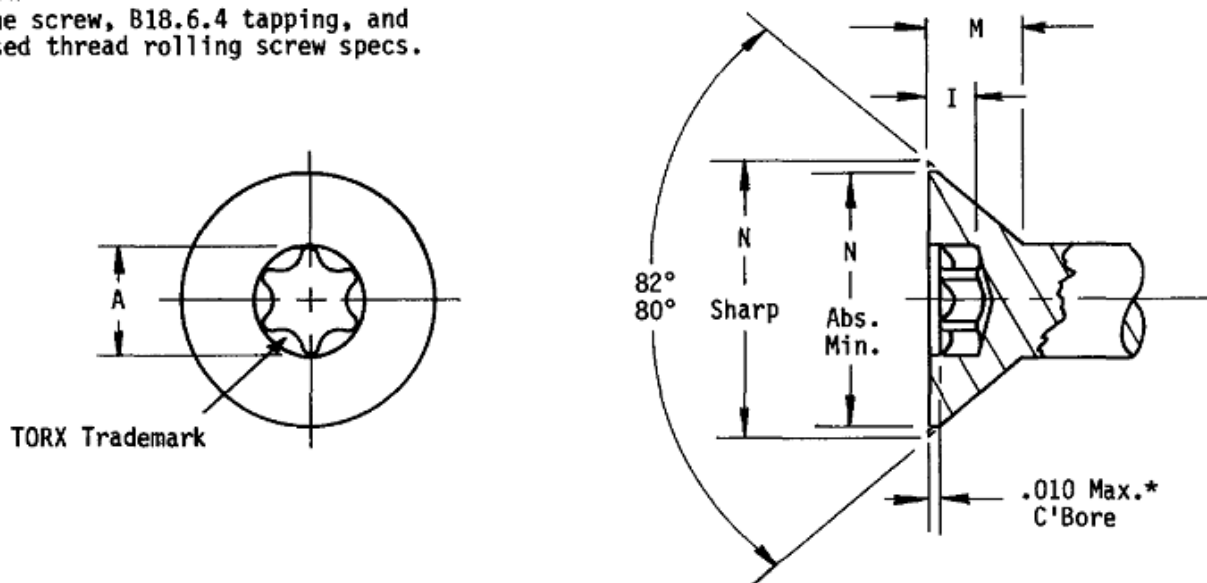
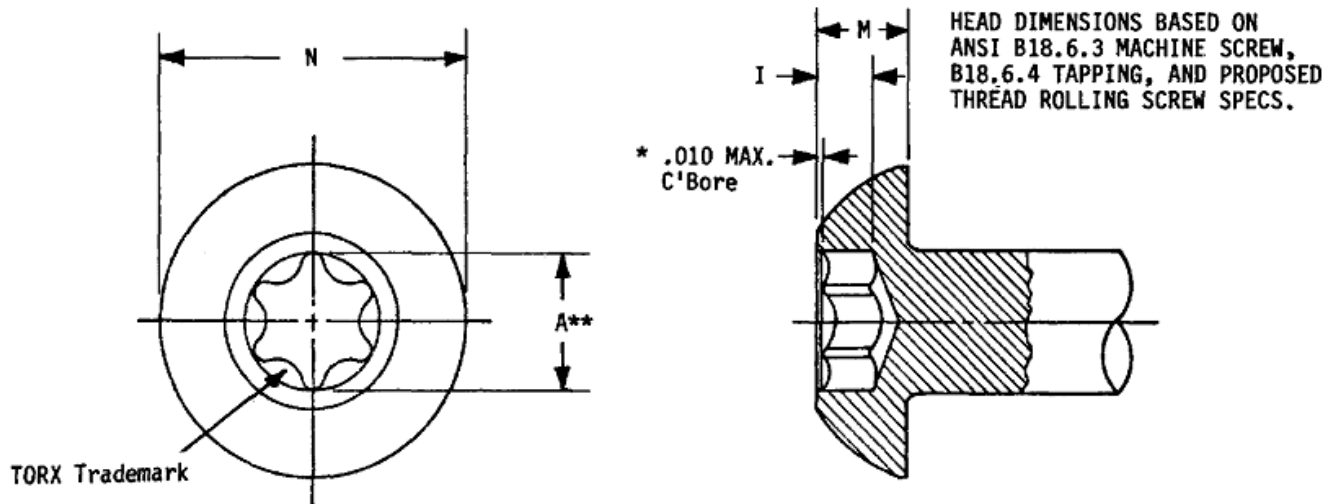


TABLE 25: Dimensions of TORX® Flat Head Machine Screws

Drive Size	Screw Size		Head Dimensions			Recess Dimensions	
			N		M	A	I
			Ref				
T6	0.086	2	0.172	0.147	0.051	0.069	0.017
T8	0.099	3	0.199	0.171	0.059	0.094	0.020
T8	0.112	4	0.225	0.195	0.067	0.094	0.028
T10	0.125	5	0.252	0.220	0.075	0.111	0.035
T10	0.138	6	0.279	0.244	0.083	0.111	0.035
T15	0.164	8	0.332	0.292	0.100	0.132	0.040
T20	0.190	10	0.385	0.340	0.116	0.155	0.050
T25	0.216	12	0.438	0.389	0.132	0.178	0.055
T27	0.250	1/4	0.507	0.452	0.153	0.200	0.075
T40	0.312	5/16	0.635	0.568	0.191	0.266	0.087
T40	0.375	3/8	0.762	0.685	0.230	0.266	0.115
T50	0.437	7/16	0.812	0.723	0.223	0.352	0.105
T50	0.500	1/2	0.875	0.775	0.223	0.352	0.119
T55	0.562	9/16	1.000	0.889	0.260	0.446	0.140
T55	0.625	5/8	1.125	1.002	0.298	0.446	0.140
T60	0.750	3/4	1.375	1.230	0.372	0.529	0.205

TORX® Truss Head Machine Screws Inch Series Dimensional Requirements



** "A" DIM. TO BE GAGED

* .005 MAX. FOR T10 & T15

TABLE 26: Dimensions of TORX® Truss Head Machine Screws

Drive Size	Screw Size	Head Dimensions				Recess Dimensions	
		N		M		A	I
		Max	Min	Max	Min		
T10	6	0.321	0.303	0.086	0.074	0.111	0.045
T15	8	0.384	0.364	0.102	0.088	0.132	0.045
T20	10	0.448	0.425	0.118	0.103	0.155	0.055
T25	12	0.511	0.487	0.134	0.118	0.178	0.070
T27	1/4	0.573	0.546	0.150	0.133	0.200	0.070
T40	5/16	0.698	0.666	0.183	0.162	0.266	0.080
T45	3/8	0.823	0.787	0.215	0.191	0.312	0.110
T45	7/16	0.948	0.907	0.248	0.221	0.312	0.130
T50	1/2	1.073	1.028	0.280	0.250	0.352	0.130
T55	9/16	1.198	1.149	0.312	0.279	0.446	0.165
T55	5/8	1.323	1.269	0.345	0.309	0.446	0.165
T60	3/4	1.573	1.511	0.410	0.368	0.529	0.210

TABLE 27: TORX® (or Equivalent*) Head Machine Screws, Miscellaneous

Head Type	Table Ref	Diameter	Length	Thread Length	Material	Finish	Part Number
PAN	24	4-40	1/4	FULL	CST	ZND	92817340
PAN	24	6-32	1	FULL	CST	ZND	92817341
PAN	24	10-32	1		CST	BZN	47971340
PAN	24	10-32	1.25		CST	BZN	90331354
FLAT	25	4-40	5/16	FULL	CST	ZND	92817342
FLAT	25	1/4-20	1	FULL	Grade 8	DOR	51695332
FLAT	25	1/4-20	2	FULL	Grade 8	DOR	51695338
FLAT	25	3/8-16	3/4	FULL	Grade 5	ZND	@90409806
TRUSS	26	1/4-20	1		CST	ZND	47884285
TRUSS	26	5/16-18	3/4		CST	ZND	87656140
TRUSS	26	5/16-24	1-1/4		CST	ZND	87656141
TRUSS	26	3/8-16	1/2		Grade 5	ZND	90347448
TRUSS	26	1/2-13	3/4		Grade 5	ZND	90347456
TRUSS	26	1/2-13	1		Grade 5	ZND	90347457

*Type VI Recess Per ANSI B18.6.3

@ With non-metallic patch per IFI 124; patch to be applied to minimum of 5 pitches, min 90° of circumference starting 2 pitches from end