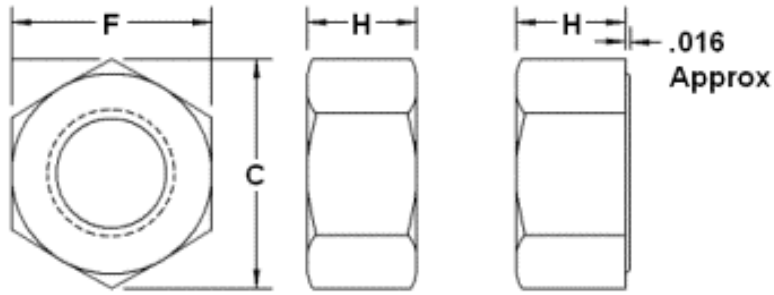


## Machine Hex Nuts



### Standard Pattern Nuts

Plain = NM020----      Zinc = NM020----Z1

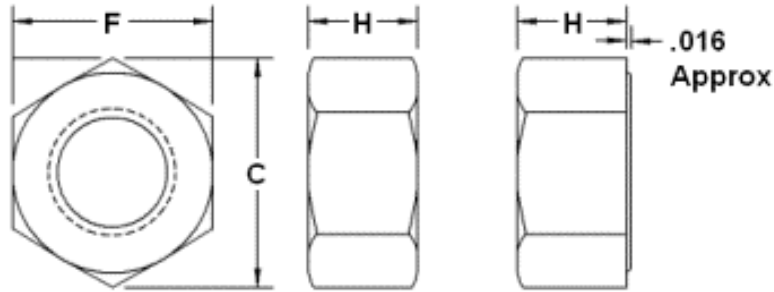
### Small / Extra small Pattern Nuts

Stainless = NMS188----      Brass = NMSBRS----  
 Stainless = NME188----      Brass = NMEBRS----  
 Stainless and Brass only

Nominal Size	F	H	Weight Per C
	Width Across Flats	Thickness Hex Nut	
2-56	3/16	1/16	.04
3-48	3/16	1/16	.04
4-40	¼	3/32	.10
5-40	5/16	7/64	.20
6-32	5/16	7/64	.20
8-32	11/32	1/8	.27
10-24	3/8	1/8	.32
10-32	3/8	1/8	.32
12-24	7/16	5/32	.52

Nominal Size	F	H	Weight per C
	Width Across Flats	Thickness Hex Nut	
0-80	5/32	3/64	.01
1-72	5/32	3/64	.01
2-64	3/16	1/16	.04
3-56	3/16	1/16	.04
SP 4-36	3/16	1/16	.04
SP 4-40	3/16	1/16	.04
4-48	¼	3/32	.10
5-44	5/16	7/64	.20
SP 6-32	¼	3/32	.10
6-40	5/16	7/64	.20
ESP 8-32	¼	3/32	.10
SP 8-32	5/16	7/64	.20
8-36	11/32	1/8	.27
12-28	7/16	5/32	.52

## Finished Hex Nuts



### Finished Pattern Nuts

SAE J995 Grade 2, ASTM A563  
 SAE J995 Grade 5, ASTM A563  
 SAE J995 Grade 8, ASTM A563  
 Grade L9

Plain = NF020----  
 Plain = NF050----  
 Plain = NF080----

Zinc = NF020----Z1  
 Zinc = NF050----Z1  
 Zinc = NF080----Z1  
 Zinc = NF090----Z1

### Jam Pattern Nuts

SAE J995 Grade 2, ASTM A563

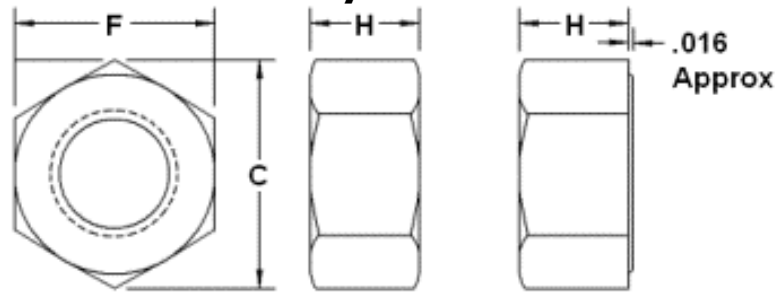
Plain = NJ020----

Zinc = NJ020----Z1

Nominal Size	Coarse Thread	Fine Thread	F	C		H	Full Nut Weight Per C	H	Jam Nut Weight Per C
			Width Across Flats	Width Across Corners		Thickness Hex Nut		Thickness Jam Nut	
			Basic	Max	Min				
1/4	20	28	7/16	0.505	0.488	7/32	.7	5/32	.52
5/16	18	24	1/2	0.577	0.557	17/64	1.1	3/16	.77
3/8	16	24	9/16	0.650	0.628	21/64	1.6	7/32	1.05
7/16	14	20	11/16	0.794	0.768	3/8	2.8	1/4	1.86
1/2	13	20	3/4	0.866	0.840	7/16	3.8	5/16	2.62
9/16	12	18	7/8	1.010	0.982	31/64	5.8	5/16	3.68
5/8	11	18	15/16	1.083	1.083	35/64	7.3	3/8	4.93
3/4	10	16	1-1/8	1.299	1.240	41/64	11.9	27/64	7.70
7/8	9	14	1-5/16	1.516	1.447	3/4	19.0	31/64	12.00
1	8	14	1-1/2	1.732	1.653	55/64	28.3	35/64	17.6
1-1/8	7	12	1-11/16	1.949	1.859	31/32	40.3	39/64	24.7
1-1/4	7	12	1-7/8	2.165	2.066	1-1/16	54.3	23/32	36.1
1-3/8	6	12	2-1/16	2.382	2.273	1-11/64	73.0	25/32	47.90
1-1/2	6	12	2-1/4	2.598	2.480	1-9/32	94.3	27/32	60.90
1-5/8	5	12	2 7/16			1-25/64	117		
1-3/4	5	12	2-5/8			1-1/2	151		
1 7/8	5	12	2-3/4			1-3/4	204		
2	4.5	12	3			1-23/32	224		
2 1/4	4.5	12	3-3/8			1-59/64	317		
2 1/2	4	12	3-3/4			2-9/64	435		
2 3/4	4	12	4-1/8			2-23/64	547.3		
3	4	12	4-1/2			2-37/64	740		

Dimensional specifications per ASME B18.2.2

## Heavy Hex Nuts



### Heavy Pattern Nuts

SAE J995 Grade 2, ASTM A563	Plain = NH020----	Zinc = NH020----Z1
ASTM A194 GR. 2H     Material: 1045 steel	Plain = NH2H0----	Zinc = NH2H0----Z1
Hardness 24-38		
ASTM A194 GR. 4     Material: 4042 steel	Plain = NH400----	Zinc = NH400----Z1
ASTM A194 GR. 7     Material: 4140 steel	Plain = NH700----	Zinc = NH700----Z1

Note: You can upgrade from Grade 4 to Grade 7, but not vice versa.

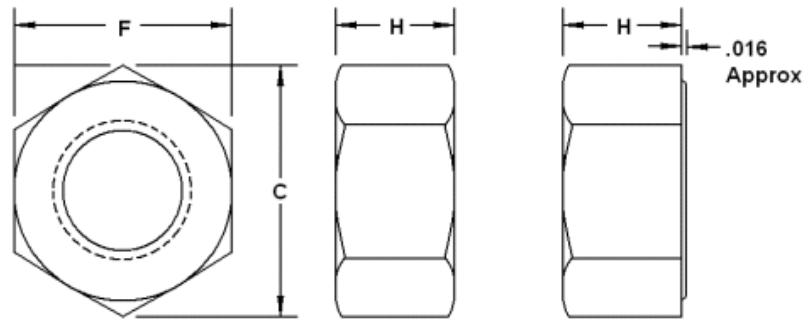
### Heavy Jam Pattern Nuts

SAE J995 Grade 2, ASTM A563	Plain = NHJ020----	Zinc = NHJ020----Z1
-----------------------------	--------------------	---------------------

Nominal Size	Coarse Thread	Fine Thread	F	C		H	Full Nut Weight Per C	H	Jam Nut Weight Per C
			Width Across Flats	Width Across Corners		Thickness Hex Nut		Thickness Jam Nut	
			Basic	Max	Min				
1/4	20	28	1/2	0.577	0.556	15/64	1.16	11/64	.82
5/16	18	24	9/16	0.650	0.622	19/64	1.72	13/64	1.17
3/8	16	24	11/16	0.794	0.763	23/64	3.14	15/64	2.02
7/16	14	20	3/4	0.866	0.830	27/64	4.16	17/64	2.61
1/2	13	20	7/8	1.010	0.969	31/64	6.54	19/64	4.00
9/16	12	18	15/16	1.038	1.037	35/64	8.15	21/64	4.91
5/8	11	18	1 1/16	1.227	1.175	39/64	11.90	23/64	6.96
3/4	10	16	1 1/4	1.443	1.382	47/64	19.30	27/64	11.00
7/8	9	14	1 7/16	1.660	1.589	55/64	29.70	31/64	16.70
1	8	14	1 5/8	1.876	1.796	63/64	42.50	35/64	23.50
1-1/8	7	12	1 13/16	2.093	2.002	1 7/64	59.20	39/64	32.40
1-1/4	7	12	2	2.309	2.209	1 7/32	78.60	23/32	45.80
1-3/8	6	12	2 3/16	2.526	2.146	1 11/32	102	25/32	59.30
1-1/2	6	12	2 3/8	2.742	2.622	1 15/32	131	27/32	74.80
1-5/8	5	12	2 9/16	2.959	2.828	1 19/32	162	29/32	91.60
1-3/4	5	12	2 3/4	3.175	3.035	1 23/32	204	31/32	114
1 7/8	5	12	2 15/16	3.392	3.242	1 27/32	241	1 1/32	134
2	4.5	12	3 1/8	3.608	3.449	1 31/32	299	1 3/32	165
2 1/4	4.5	12	3 1/2	4.041	3.862	2 13/64	419	1 13/64	227
2 1/2	4	12	3 7/8	4.474	4.275	2 29/64	564	1 29/64	332
2 3/4	4	12	4 1/4	4.907	4.688	2 45/64	738	1 37/64	429
3	4	12	4 5/8	5.340	5.102	2 61/64	950	1 45/64	545
3 1/4	4	12	5	5.774	5.515	3 3/16	1194	1 13/16	651
3 1/2	4	12	5 3/8	6.207	5.928	3 7/16	1526	1 15/16	851
3 3/4	4	12	5 3/4	6.640	6.341	3 11/16	1812	2 1/16	1005
4	4	12	6 1/8	7.073	6.755	3 15/16	2180	2 3/16	1200

Dimensional specifications per ASME B18.2.2

## ACME Hex Nuts



**Finished Pattern Nuts**

Right Hand Thread

Material: Grade 2 Plain = NFA020----

Material: Grade 2H Plain = NFA2H0----

Left Hand Thread

Material: Grade 2

Material: Grade 2H

Plain = NFAL020----

Plain = NFAL2H0----

**Heavy Pattern Nuts**

Right Hand Thread

Material: Grade 2 Plain = NHA020----

Material: Grade 2H Plain = NHA2H0----

Left Hand Thread

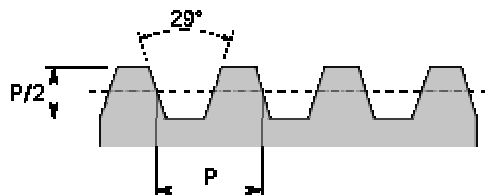
Material: Grade 2

Material: Grade 2H

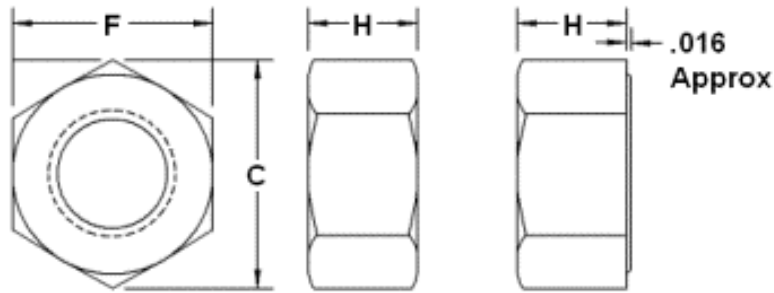
Plain = NHAL020----

Plain = NHAL2H0----

Nominal Size	Common Thread Pitch	Other Thread Pitch	Other Thread Pitch	Other Thread Pitch	Other Thread Pitch	Other Thread Pitch	Other Thread Pitch
3/8	12						
7/16							
1/2	10						
9/16							
5/8	8	4	6				
3/4	6	5	8	10			
7/8	6	5	8				
1	5	4	6	8	10		
1-1/8	5	4	6				
1-1/4	5	4	6				
1-3/8	4	5	6				
1-1/2	4	5	6				
1-5/8							
1-3/4	4	5	6				
1 7/8							
2	4						
2 1/4	4						
2 1/2	4						



## Finished Hex Nuts Left Hand Thread



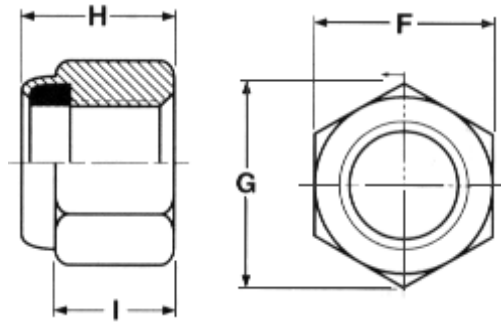
Finished Pattern Nuts  
SAE J995 Grade 2, ASTM A563

Plain = NFL020----

Zinc = NFL020----Z1

Nominal Size	F	C		H	Weight Per C
	Width Across Flats	Width Across Corners		Thickness Hex Nut	
		Max	Min		
1/4	7/16	0.505	0.488	7/32	.68
5/16	1/2	0.577	0.557	17/64	1.02
3/8	9/16	0.650	0.628	21/64	1.49
7/16	11/16	0.794	0.768	3/8	2.75
1/2	3/4	0.866	0.840	7/16	3.60
9/16	7/8	1.010	0.982	31/64	5.67
5/8	15/16	1.083	1.083	35/64	7.11
3/4	1-1/8	1.299	1.240	41/64	11.80
7/8	1-5/16	1.516	1.447	3/4	17.67
1	1-1/2	1.732	1.653	55/64	26.60
1-1/8	1-11/16	1.949	1.859	31/32	39.80
1-1/4	1-7/8	2.165	2.066	1-1/16	51.70
1-3/8	2-1/16	2.382	2.273	1-11/64	73.00
1-1/2	2-1/4	2.598	2.480	1-9/32	88.10
1-5/8	2 7/16			1-25/64	117
1-3/4	2-5/8			1-1/2	151
1 7/8	2-3/4			1-3/4	204
2	3			1-23/32	224
2 1/4	3-3/8			1-59/64	317
2 1/2	3-3/4			2-9/64	435
2 3/4	4-1/8			2-23/64	573
3	4-1/2			2-37/64	740

## Finished Hex Nylon Insert Nuts



### Finished Pattern

Machine Screw Size    Zinc = NNM020----Z1                      Gr.2 Finished Pattern    Zinc = NE020---Z1  
 Gr.5 Finished Pattern    Zinc = NE050---Z1                      Gr.8 Finished Pattern    Zinc = NE080---Z1

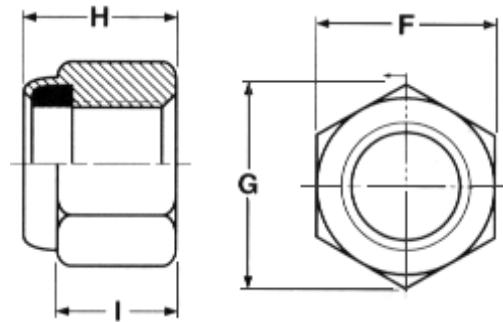
### Jam Pattern Nuts

Machine Screw Size    Zinc = NTM020----Z1                      Gr.2 Finished Pattern    Zinc = NTE020---Z1  
 Gr.5 Finished Pattern    Zinc = NTE050---Z1                      Gr.8 Finished Pattern    Zinc = NTE080---Z1

Nominal Size	F	G	H		Weight Per C	H	
	Width Across Flats	Width Across Corners	Thickness Hex Nut			Thickness Jam Nut	
			Max	Min		Max	Min
2	1/4	.268	.153	.133			
3	1/4	.268	.153	.133			
4	1/4	.268	.153	.133	.14	.124	.094
5	1/4	.268	.153	.133	.14		
6	5/16	.339	.188	.168	.26	.140	.110
8	11/32	.374	.239	.219	.42		
10	3/8	.410	.249	.229	.50	.187	.157
12	7/16	.482	.328	.298			
1/4	7/16	.482	.328	.298	1.13	.218	.188
5/16	1/2	.552	.359	.329	1.51	.265	.235
3/8	9/16	.622	.468	.438	2.26	.281	.251
7/16	5/8	.698	.468	.438	3.89	.328	.298
1/2	3/4	.837	.609	.579	5.39	.328	.298
9/16	7/8	.978	.656	.626	8.90	.374	.344
5/8	15/16	1.051	.765	.735	10.40	.406	.376
3/4	1-1/8	1.191	.890	.860	15.03	.421	.391
7/8	1-5/16	1.403	.999	.969	23.80	.484	.454
1	1-1/2	1.615	1.078	1.016	33.82	.578	.516
1-1/8	1-11/16	1.826	1.203	1.141	50.40		
1-1/4	1-7/8	2.038	1.422	1.360	67.80		
1-3/8	1.97		1.56	1.56	91.30		
1-1/2	2-1/4	2.444	1.640	1.578	117.90		

Dimensional specifications per ASME B18.2.2

## Heavy Pattern Nylon Insert Hex Nuts



Gr. 2 Heavy Pattern    Zinc = NU020---Z1  
 Gr. 5 Heavy Pattern    Zinc = NU050---Z1  
 Gr. 8 Heavy Pattern    Zinc = NU080---Z1

Gr. 2 Heavy Jam Nut    Zinc = NTU020---Z1  
 (thickness not listed in table)

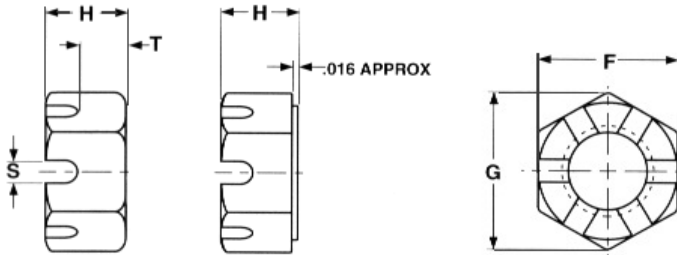
Nominal Size	F Width Across Flats	G Width Across Corners	H Thickness Hex Nut		I Side Height
			Max	Min	
			1/4	1/2	
5/16	9/16	.624	.453	.423	.335
3/8	11/16	.763	.562	.532	.392
7/16	3/4	.829	.609	.579	.464
1/2	7/8	.969	.718	.688	.544
5/8	1-1/16	1.175	.874	.844	.677
3/4	1-1/4	1.382	1.015	.895	.790
7/8	1-7/16	1.589	1.140	1.110	.883
1	1-5/8	1.796	1.312	1.250	1.000

Dimensional specifications per ASME B18.2.2

## Slotted Hex Nut

Low Carbon Steel

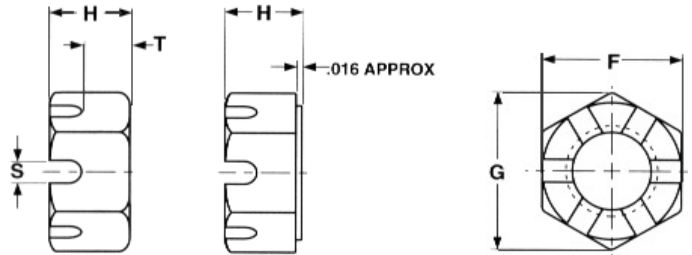
Plain = NZ020----  
Zinc = NZ020----Z1



## Heavy Slotted Nut

Low Carbon Steel

Plain = NHZ020----  
Zinc = NHZ020----Z1



Diameter	F	H	Weight Per C
	Across Flats	Thick	
1/4	7/16	7/32	.8
5/16	1/2	17/64	.9
3/8	9/16	21/64	1.3
7/16	11/16	3/8	2.4
1/2	3/4	7/16	3.2
9/16	7/8	31/64	
5/8	15/16	35/64	6.1
3/4	1-1/8	41/64	10.3
7/8	1-5/16	3/4	17.1
1	1-1/2	55/64	25
1 1/8	1 11/16	31/32	35.3
1 1/4	1 7/8	1 1/16	47.5
1 3/8	2 1/16	1 11/64	64.2
1 1/2	2 1/4	1 9/32	82.9
1 3/4	2 5/8	1 1/2	132
2	3	1 23/32	198
2 1/4	3 3/8	1 59/64	279
2 1/2	3 3/4	2 1/4	383

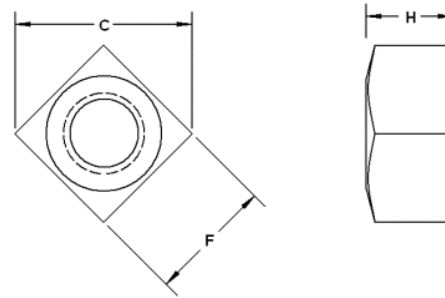
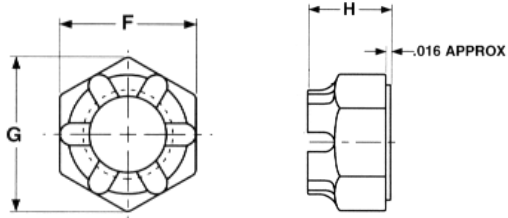
ANSI / ASME B18.2.2

Diameter	F	T	Weight Per C
	Across Flats	Thick	
1/4	1/2	15/64	.99
5/16	9/16	19/64	1.51
3/8	11/16	23/64	2.69
7/16	3/4	27/64	3.56
1/2	7/8	31/64	5.7
9/16	15/16	35/64	7.13
5/8	1 1/16	39/64	10.20
3/4	1 1/4	47/64	17.1
7/8	1 7/16	55/64	27.2
1	1 5/8	63/64	38.5
1 1/8	1 13/16	1 7/64	53.7
1 1/4	2	1 7/32	70.6
1 3/8	2 3/16	1 11/32	
1 1/2	2 3/8	1 15/32	118
1 3/4	2 3/4	1 23/32	184
2	3 1/8	1 31/32	274
2 1/4	3 1/2	2 13/64	
2 1/2	3 7/8	2 29/64	
2 3/4	4 1/4	2 45/64	
3	4 5/8	2 61/64	
3 1/4	5	3 3/16	
3 1/2	5 3/8	3 7/16	
3 3/4	5 3/4	3 11/16	
4	6 1/8	3 15/16	

## Slotted Hex Castle Nut

Low Carbon Steel

Plain = NY020----  
Zinc = NY020----Z1



Hex Castle Nuts – ANSI B18.2.2 - 1970			
Diameter	F	H	Weight Per C
	Across Flats	Height	
1/4	7/16	9/32	.75
5/16	1/2	21/64	1.1
3/8	9/16	13/32	1.52
7/16	11/16	29/64	2.11
1/2	3/4	9/16	3.83
9/16	7/8	39/64	
5/8	15/16	23/32	7.11
3/4	1-1/8	13/16	10.6
7/8	1-5/16	29/32	17.1
1	1-1/2	1	25.3
1 1/8	1 11/16	1 5/32	37.1
1 1/4	1 7/8	1 1/4	52.5
1 3/8	2 1/16	1 3/8	75.1
1 1/2	2 1/4	1 1/2	94.8
1 5/8	2 7/16	1 19/32	114
1 3/4	2 5/8	1 23/32	134
2	3	1 31/32	200
2 1/4	3 3/8	2 1/4	282
2 1/2	3 3/4	2 1/2	387

All Castle Nuts are Fine Thread

## Square Nut

Low Carbon Steel

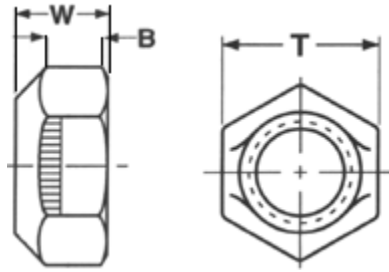
Plain = NQ020----  
Zinc = NQ020----Z1

Diameter	F	T	Weight Per C
	Across Flats	Thick	
6-32	5/16	7/64	.75
8-32	11/32	1/8	1.1
10-24	3/8	1/8	1.52
10-32	3/8	1/8	2.11
1/4	7/16	7/32	3.83
5/16	9/16	17/64	
3/8	5/8	21/64	7.11
7/16	3/4	3/8	10.6
1/2	13/16	7/16	17.1
5/8	1	35/64	25.3
3/4	1 1/8	21/32	37.1
7/8	1 5/16	49/64	52.5
1	1 1/2	7/8	75.1
1 1/8	1 11/16	1	94.8
1 1/4	1 7/8	1 3/32	114
1 3/8	2 1/16	1 13/64	134
1 1/2	2 1/4	1 5/16	200



# Conelock Nut

Known as: Prevailing Torque Lock Nut & Stover Grade C



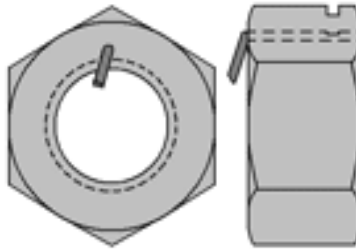
Type A = NCLA020----Z1

Type B = NCLB050----Z1

Type C = NCLC080----Z1

Nominal Size	T Across Flats	W Total Height		B Hex Height	Weight per C
		Max	Min		
		1/4	7/16		
5/16	1/2	.273	.258	.166	1.10
3/8	9/16	.337	.320	.198	1.60
7/16	11/16	.385	.365	.223	2.80
1/2	3/4	.448	.427	.262	3.80
9/16	7/8	.496	.473	.286	5.80
5/8	15/16	.559	.535	.329	7.30
3/4	1-1/8	.665	.617	.382	11.9
7/8	1-5/16	.776	.724	.450	19.00
1	1-1/2	.887	.831	.513	28.30

## Anco Locknuts



Finished Pattern Nut

Plain = NANCO020----

Zinc = NANCO020----Z1

Galvanized = NANCO020----GD

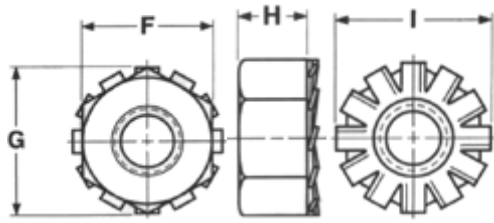
Heavy Pattern Nut

Plain = NANCO2H0----  
GD

Zinc = NANCO2H0----Z1

Galvanized = NANCO2H0----

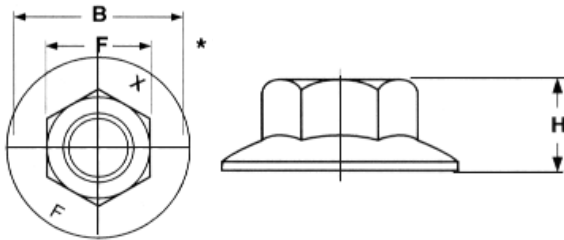
Nominal Size	Finished				Heavy			
	Across Flats	Across Corners		Weight Per C	Across Flats	Across Corners		Weight Per C
		Max	Min			Max	Min	
1/4	7/16	0.505	0.488	.7	1/2	0.577	0.556	1.16
5/16	1/2	0.577	0.557	1.1	9/16	0.650	0.622	1.72
3/8	9/16	0.650	0.628	1.6	11/16	0.794	0.763	3.14
7/16	11/16	0.794	0.768	2.8	3/4	0.866	0.830	4.16
1/2	3/4	0.866	0.840	3.8	7/8	1.010	0.969	6.54
9/16	7/8	1.010	0.982	5.8	15/16	1.038	1.037	8.15
5/8	15/16	1.083	1.083	7.3	1 1/16	1.227	1.175	11.90
3/4	1-1/8	1.299	1.240	11.9	1 1/4	1.443	1.382	19.30
7/8	1-5/16	1.516	1.447	19.0	1 7/16	1.660	1.589	29.70
1	1-1/2	1.732	1.653	28.3	1 5/8	1.876	1.796	42.50
1-1/8	1-11/16	1.949	1.859	40.3	1 13/16	2.093	2.002	59.20
1-1/4	1-7/8	2.165	2.066	54.3	2	2.309	2.209	78.60
1-3/8	2-1/16	2.382	2.273	73.0	2 3/16	2.526	2.146	102
1-1/2	2-1/4	2.598	2.480	94.3	2 3/8	2.742	2.622	131



## K-Lock Nuts (Kep Nut)

Zinc NK020----Z1

Diameter	Width Across Flats	Width Across Corners		Thickness		Washer Diameter	
		Max	Min	Max	Min	Max	Min
#4	¼	.289	.275	.098	.087	.286	.277
#5	¼	.289	.275	.098	.087	.287	.277
#6	5/16	.361	.344	.114	.102	.348	.338
#6SP	¼	.289	.275	.098	.087	.287	.277
#8	11/32	.397	.378	.130	.117	.381	.370
#8SP	5/16	.361	.344	.114	.102	.381	.3780
#10	3/8	.433	.413	.130	.117	.406	.395
#12	7/16	.505	.482	.161	.148	.506	.494
¼	7/16	.505	.482	.193	.178	.506	.494
5/16	½	.577	.557	.273	.258	.592	.579
3/8	9/16	.650	.628	.385	.365	.665	.651
1/2	¾	.866	.840	.437	.425	.898	.878



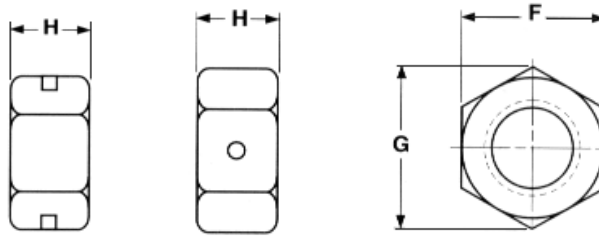
## Serrated Flange Nuts

Zinc NSF010----Z1

Bolt Diameter	F		G		B		H	
	Across Flats		Across Corners		Flange Diameter		Nut Thickness	
	Max	Min	Max	Min	Max	Min	Max	Min
6	.312	.302	.361	.342	.422	.406	.171	.156
8	.344	.334	.397	.381	.469	.452	.203	.187
10	.375	.365	.433	.416	.500	.480	.219	.203
12	.438	.428	.505	.488	.594	.574	.236	.222
1/4	.438	.428	.505	.488	.594	.574	.236	.222
5/16	.500	.489	.577	.557	.680	.660	.283	.268
3/8	.562	.551	.650	.628	.750	.728	.347	.330
7/16	.688	.675	.794	.768	.937	.910	.395	.375
½	.750	.736	.866	.840	1.031	1.000	.458	.437
9/16	.875	.851	1.010	.982	1.188	1.155	.506	.483
5/8	.938	.922	1.083	1.051	1.281	1.248	.569	.545
¾	1.125	1.088	1.299	1.240	1.500	1.460	.675	.627
7/8	1.179	1.166	1.361	1.295	1.682	-	.786	.742

## Reversible Locknuts

(2 Way Locknut and Center Locknut)



Finished Pattern

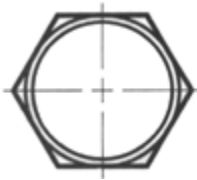
Zinc = N2W020----Z1

Jam Pattern

Zinc = N2WJ020----Z1

Nominal Size	F Width Across Flats	G Width Across Corners		H Nut Thickness	Weight per C
		Max	Min	Max	
	8	11/32	.397	.378	3/16
10	3/8	.433	.413	13/64	.30
1/4	7/16	.505	.488	7/32	.70
5/16	1/2	.577	.557	17/64	1.10
3/8	9/16	.650	.628	21/64	1.60
7/16	5/8	.794	.768	3/8	2.80
1/2	3/4	.866	.840	7/16	3.80
9/16	7/8	1.010	.982	31/64	
5/8	15/16	1.083	1.051	35/64	7.30
3/4	1-1/8	1.299	1.240	41/64	11.90
7/8	1-5/16	1.516	1.447	3/4	19.00
1	1-1/2	1.732	1.653	55/64	28.30

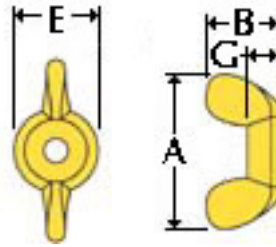
## Panel Nut



Zinc = NP020----Z1

Nominal Size	Width Across Flats	Nut Thickness	Weight per C
1/8-27	9/16	1/8	
1/8-27	9/16	3/16	
3/8-32	1/2	3/32	
3/8-32	9/16	3/32	
15/32-32	9/16	3/32	

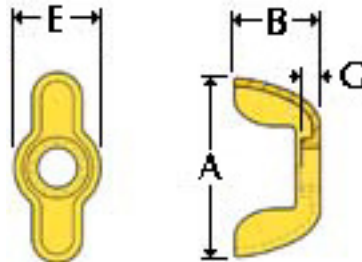
## Wing Nut – Cold Forged (Type A)



Plain = NWCF020----    Zinc = NWCF----Z1

Nominal Size	A		B		E		G		Weight per C
	Wing Span		Wing Height		Bass Diameter		Bass Height		
	Max	Min	Max	Min	Max	Min	Max	Min	
6	.72	.59	.41	.28	.33	.29	.14	.10	.41
8	.91	.78	.47	.34	.43	.39	.18	.14	.84
10	.91	.78	.47	.34	.43	.39	.18	.14	.82
1/4	1.120	.97	.57	.43	.50	.45	.22	.17	1.22
5/16	1.25	1.12	.66	.53	.58	.51	.25	.20	2.15
3/8	1.44	1.31	.79	.65	.70	.64	.30	.26	3.55
7/16	1.94	1.81	1.00	.87	.93	.86	.39	.35	7.75
1/2	1.94	1.81	1.00	.87	.93	.86	.39	.35	8.61
5/8	2.76	2.62	1.44	1.31	1.19	1.13	.55	.51	

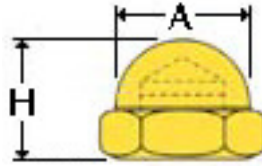
## Wing Nut – Stamped (Type A)



Plain = NWS020----    Zinc = NWS----Z1

Nominal Size	A		B		E		G		Weight per C
	Wing Span		Wing Height		Bass Diameter		Bass Height		
	Max	Min	Max	Min	Max	Min			
6	.78	.72	.40	.34	.41	.35	.08		.4
8	.78	.72	.40	.34	.41	.35	.08		.4
10	.91	.85	.47	.41	.53	.47	.10		.5
1/4	1.11	1.05	.50	.44	.62	.56	.11		1.0
5/16	1.30	1.24	.59	.53	.73	.67	.14		1.4
3/8	1.41	1.34	.67	.61	.83	.77	.16		2

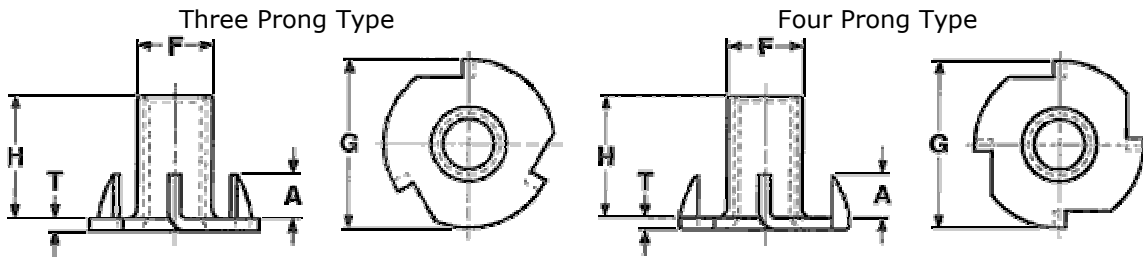
## Acorn Nut (Cap Nut)



Plain = NWCF020----    Zinc = NWCF----Z1

Nominal Size	Across Flats		Across Corners		A	H	Weight per C
	Max	Min	Max	Min	Body Diameter	Height	
6	.3125	.302	.361	.344	.30	.34	.4
8	.3125	.302	.361	.344	.30	.34	.4
10	.375	.362	.433	.413	.36	.41	.5
1/4	.4375	.428	.505	.488	.41	.47	.5
5/16	.5000	.489	.577	.557	.47	.53	1.7
3/8	.5625	.551	.650	.628	.53	.62	2.3
1/2	.7500	.736	.866	.840	.72	.81	5
5/8	.9375	.922	1.083	1.051	.91	1.00	9.8
3/4	1.0625	1.045	1.227	1.191	1.03	1.16	

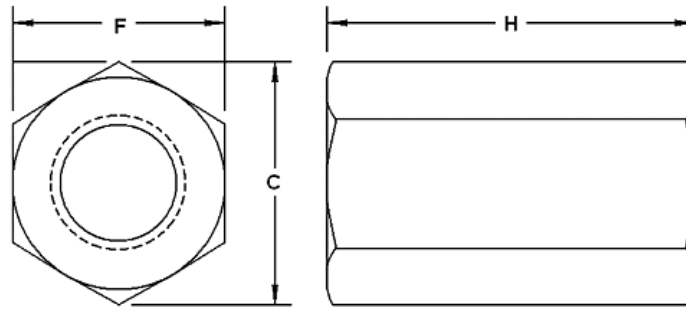
## Tee Nut



3 Pronged = NT3020----Z1    4 Pronged = NT4020----Z1    6 Pronged = NT6020----Z1

Nominal Size	G	H	A	Drill Size	Weight per C
	Flange Diameter	Barrel Height	Prong Height		
6	9/16	1/4	1/8	13/64	.6
8	3/4	1/4	7/32	7/32	.6
10	22/32	5/16	7/32	1/4	.6
1/4	25/32	5/16	7/32	5/16	.6
5/16	7/8	3/8	5/16	25/64	1.5
3/8	1-1/16	7/16	11/32	29/64	2

## Hex Coupling Nut



Standard Pattern Nuts  
SAE J995 Grade 2, ASTM A563

Zinc = NCUP020----Z1

### Standard

Nominal Size	F	C		H	Weight per C
	Width Across Flats	Width Across Corners		Thickness	
		Max	Min		
#4	5/16			7/16	.5
#6	5/16			1/2	.5
#8	5/16			5/8	1.1
#10	5/16			3/4	1.3
1/4	7/16	0.505	0.488	1-1/2	6.2
5/16	1/2	0.577	0.557	1-1/8	7.5
3/8	5/8	0.650	0.628	1-3/4	9
7/16	5/8	0.794	0.768	1-3/4	10
1/2	3/4	.866	.839	1-3/4	10.4
5/8	15/16	1.083	1.051	2-1/8	18
3/4	1-1/8	1.299	1.240	2-1/4	28
7/8	1-5/16	1.516	1.447	2-1/2	55
1	1-1/2	1.732	1.653	2-3/4	56
1-1/8	1-11/16	1.949	1.859	3	66
1-1/4	1-7/8	2.165	2.066	3-3/4	143
1-3/8	2-1/16	2.382	2.273		
1-1/2	2-1/4	2.598	2.480	4	188

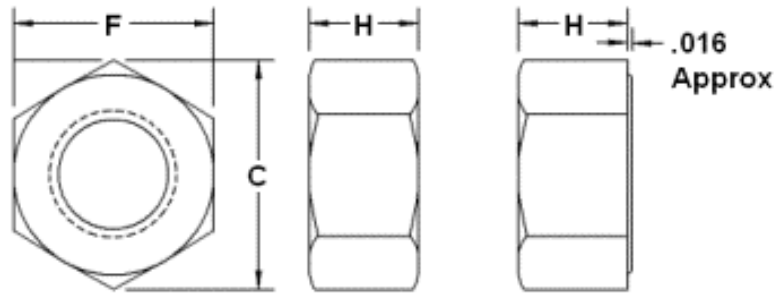
Economy Pattern Nuts  
SAE J995 Grade 2, ASTM A563

Zinc = NCUP020----Z1-ECON

### Economy

Nominal Size	F	C		H	Weight per C
	Width Across Flats	Width Across Corners		Thickness	
		Max	Min		
1/4	3/8	0.505	0.488	7/8	1.9
5/16	7/16	0.577	0.557	7/8	3.8
3/8	1/2	0.650	0.628	1-1/8	3.5
7/16	9/16	0.794	0.768	1-1/4	4.7
1/2	5/8	.866	.839	1-1/4	5.5
5/8	13/16	1.083	1.051	1-7/8	16

## SAE Hi-Nuts



Finished Pattern Nuts

Grade 2

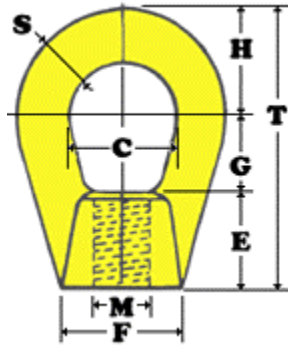
Plain = NHI020----

Zinc = NHI020----Z1

Nominal Size	F	H	Weight Per C
	Width Across Flats	Thickness Hex Nut	
3/8	9/16	21/64	2.4
7/16	5/8	3/8	3
1/2	3/4	7/16	7
9/16	7/8	31/64	9
5/8	15/16	35/64	11
3/4	1 1/8	41/64	18
7/8	1 1/4	3/4	27.5
1	1 7/16	55/64	42
1-1/8	1 5/8	31/32	55
1-1/4	1 13/16	1-1/16	132
1-1/2	2 3/16	1-9/32	142

Dimensional specifications per ASME B18.2.2

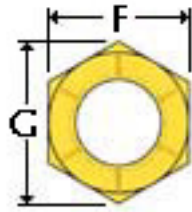
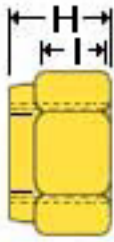
**Forged Eye Nut**  
C-1035 steel



Plain = NIF010----      Zinc = NIF010----Z1      Galvanized = NIF010----GD

C	SØ	M	F	E	G	H	T	Max Load Tons
7/8	5/16	3/8-16	3/4	3/4	3/4	3/4	2-1/4	.9
1-1/8	7/16	1/2-13	1	1	1	1	3	1.8
1-3/8	9/16	5/8-11	1-1/4	1-1/4	1-1/4	1-1/4	3-3/4	2.9
1-1/2	3/4	34-10	1-3/4	1-1/4	1-1/8	1-1/2	3-7/8	5.3
1-5/8	7-8	7/8-9	2	1-1/4	1	1-11/16	3-15/16	7.2
1-3/4	1	1-8	2-1/4	1-5/8	1-1/4	1-7/8	4-3/4	9.4
1-3/4	1	1-1/8-7	2-1/4	1-5/8	1-1/4	1-7/8	4-3/4	11.3
2	1-1/4	1.25-7	2-7/8	1-7/8	1-3/8	2-1/4	5-1/2	14.7
2-1/2	1-3/8	1.50-6	3-1/8	2-1/8	1-3/4	2-5/8	6-1/2	17.8

Note: Loads shown apply to Eye Nuts only, based on a vertical pull, not to any connecting bolt or stud.



## Flexloc Nuts

Full Height Light Hex

### Part Number Pre-Fix

**20 = Steel, Plain, 1/4 - 1/2**      **21 = Steel, CAD, 1/4 - 1/2**  
**30 = Steel, Plain, 9/16 - 2**      **30 = Steel, CAD, 9/16 - 2**  
**50 = Stainless Steel, Plain**      **59 = Stainless Steel, Silver**

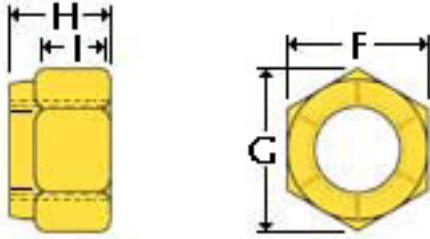
Part Number	Nominal Size	F		G	H	I
		Across Flats		Across Corner	Height	Side Height
		Max	Min			
FA-256	2-56	.251	.243	.268	.155	.050
FA-348	3-48	.251	.243	.268	.155	.050
FA-440	4-40	.251	.243	.268	.155	.050
FC-448	4-48	.251	.243	.268	.155	.050
FA-540	5-40	.251	.243	.268	.155	.052
FC-544	5-44	.251	.243	.268	.155	.052
FA-632	6-32	.313	.305	.339	.180	.075
FC-640	6-40	.313	.305	.339	.180	.075
FA-832	8-32	.345	.336	.339	.243	.105
FC-836	8-36	.345	.336	.374	.243	.105
FA-1024	10-24	.376	.367	.374	.243	.085
FC-1032	10-32	.376	.367	.410	.243	.085
FA-1224	12-24	.439	.430	.410	.290	.122
FC-1228	12-28	.439	.430	.482	.290	.122
FA-420	1/4-20	.439	.430	.482	.290	.122
FC-428	1/4-28	.439	.430	.482	.320	.135
FAF-518	5/16-18	.502	.492	.552	.353	.150
FC-524	5/16-24	.502	.492	.552	.353	.150
FAF-616	3/8-16	.564	.553	.622	.462	.210
FC-624	3/8-24	.564	.553	.622	.462	.210
FAF-714	7/16-14	.627	.616	.696	.462	.210
FC-720	7/16-20	.627	.616	.696	.462	.210
FAF-813	1/2-13	.752	.741	.837	.602	.285
FC-820	1/2-20	.752	.741	.837	.602	.285
FA-912	9/16-12	.877	.865	.978	.696	.385
FC-918	9/16-18	.877	.865	.978	.696	.385
FAF-1011	5/8-11	.940	.928	1.051	.759	.410
FC-1018	5/8-18	.940	.928	1.051	.759	.410
FAF-1210	3/4-10	1.064	1.052	1.191	.884	.505
FC-1216	3/4-16	1.064	1.052	1.191	.884	.505
FAF-1409	7/8-9	1.252	1.239	1.403	1.009	.570
FC1414	7/8-14	1.252	1.239	1.403	1.009	.570
FAF-1608	1-8	1.440	1.427	1.615	1.134	.635
FC-1612	1-12	1.440	1.427	1.615	1.134	.635
FC-1614	1-14	1.440	1.427	1.615	1.134	.635
FC-1812	1-1/8-12	1.627	1.614	1.826	1.259	.710
FC-2012	1-1/4-12	1.814	1.801	2.038	1.449	.795
FC-2212	1-3/8-12	2.002	1.988	2.269	1.509	.815
FC-2412	1-1/2-12	2.190	2.176	2.484	1.759	.970

FC-2812	1-3/4-12	2.752	2.737	3.124	2.010	1.124
FC-3012	1-7/8-12	2.940	2.925	3.338	2.140	1.190
FC-3212	2-12	3.127	3.112	3.552	2.260	1.260

Dimensions per SPS Technologies

## Flexloc Nuts

Full Height Heavy Hex



### Part Number Pre-Fix

**20 = Steel, Plain, 1/4 - 1/2**      **21 = Steel, CAD, 1/4 - 1/2**  
**30 = Steel, Plain, 9/16 - 2**      **30 = Steel, CAD, 9/16 - 2**  
**50 = Stainless Steel, Plain**      **59 = Stainless Steel, Silver**

Part Number	Nominal Size	F		G	H	I
		Across Flats		Across Corner	Height	Side Height
		Max	Min			
FAC-420	1/4-20	.502	.492	.552	.290	.094
FA-518	5/16-18	.564	.553	.622	.321	.113
FA-616	3/8-16	.627	.616	.596	.384	.144
FA-714	7/16-14	.752	.741	.837	.446	.163
FA-813	1/2-13	.814	.803	.907	.509	.196
FAC-912	9/16-12	.940	.928	1.051	.571	.216
FA-1011	5/8-11	1.002	.990	1.119	.634	.245
FA-1210	3/4-10	1.127	1.115	1.26	.759	.325
FA-1409	7/8-9	1.314	1.301	1.47	.884	.397
FA-1608	1-8	1.502	1.489	1.682	1.009	.462
FN-1807	1-1/8-7	1.814	1.801	2.038	1.134	.549
FN-2007	1-1/4-7	2.002	1.988	2.250	1.259	.616
FN-2206	1-3/8-6	2.190	2.176	2.484	1.384	.684
FN-2406	1-1/2-6	2.377	2.363	2.697	1.509	.748
FN-2605	1-5/8-5	2.564	2.549	2.909	1.34	.814
FN-2805	1-3/4-5	2.752	2.737	3.124	1.759	.882
FN-3005	1-7/8-5	2.940	2.925	3.338	1.884	.950
FN-3204	2-4.5	3.127	3.112	3.552	2.009	1.018

Dimensions per SPS Technologies

## Thin Height Heavy Hex

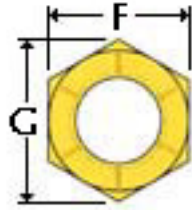
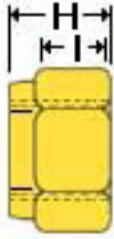
Part Number	Nominal Size	F		G	H	I
		Across Flats		Across Corner	Height	Side Height
		Max	Min			
FKC-420	1/4-20	.502	.492	.552	.290	.053
FK-518	5/16-18	.564	.553	.622	.321	.087
FK-616	3/8-16	.627	.616	.596	.384	.085
FK-714	7/16-14	.752	.741	.837	.446	.101
FK-813	1/2-13	.814	.803	.907	.509	.101
FKC-912	9/16-12	.940	.928	1.051	.571	.104
FK-1011	5/8-11	1.002	.990	1.119	.634	.116
FK-1210	3/4-10	1.127	1.115	1.26	.759	.121
FK-1409	7/8-9	1.314	1.301	1.47	.884	.163
FK-1608	1-8	1.502	1.489	1.682	1.009	.207
FK-1807	1-1/8-7	1.814	1.801	2.038	1.134	.202

FK-2007	1-1/4-7	2.002	1.988	2.250	1.259	.287
FK-2206	1-3/8-6	2.190	2.176	2.484	1.384	.300
FK-2406	1-1/2-6	2.377	2.363	2.697	1.509	.326

Dimensions per SPS Technologies

## Flexloc Nuts

Thin Height Light Hex



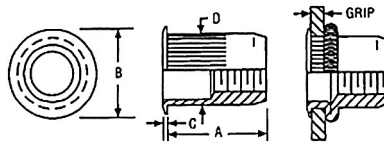
### Part Number Pre-Fix

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| <b>20 = Steel, Plain, 1/4 - 1/2</b> | <b>21 = Steel, CAD, 1/4 - 1/2</b>   |
| <b>30 = Steel, Plain, 9/16 - 2</b>  | <b>30 = Steel, CAD, 9/16 - 2</b>    |
| <b>50 = Stainless Steel, Plain</b>  | <b>59 = Stainless Steel, Silver</b> |

Part Number	Nominal Size	F		G	H	I
		Across Flats		Across Corner	Height	Side Height
		Max	Min			
FK-632	6-32	.313	.305	.339	.141	.036
FK-640	6-40	.313	.305	.339	.141	.036
FK-832	8-32	.345	.336	.374	.188	.070
FK-836	8-36	.345	.336	.374	.188	.070
FK-1024	10-24	.376	.367	.410	.188	.065
FK-1032	10-32	.376	.367	.410	.188	.065
FK-1224	12-24	.439	.430	.482	.209	.071
FK-1228	12-28	.439	.430	.482	.209	.071
FK-420	1/4-20	.439	.430	.482	.219	.075
FK-428	1/4-28	.439	.430	.482	.219	.075
FKF-518	5/16-18	.502	.492	.552	.266	.097
FK-524	5/16-24	.502	.492	.552	.266	.097
FKF 616	3/8-16	.564	.553	.622	.282	.108
FK-624	3/8-24	.564	.553	.622	.282	.108
FKF 714	7/16-14	.627	.616	.696	.328	.138
FK-720	7/16-20	.627	.616	.696	.328	.138
FKF 813	1/2-13	.752	.741	.837	.328	.121
FK-820	1/2-20	.752	.741	.837	.328	.121
FK-912	9/16-12	.877	.865	.978	.368	.135
FK-918	9/16-18	.877	.865	.978	.368	.135
FKF 1011	5/8-11	.940	.928	1.051	.399	.147
FK-1018	5/8-18	.940	.928	1.051	.399	.147
FKF 1210	3/4-10	1.064	1.052	1.191	.415	.155
FK-1216	3/4-16	1.064	1.052	1.191	.415	.155
FKF 1409	7/8-9	1.252	1.239	1.403	.477	.166
FK-1414	7/8-14	1.252	1.239	1.403	.477	.166
FKF 1608	1-8	1.440	1.427	1.615	.571	.218
FK-1612	1-12	1.440	1.427	1.615	.571	.218
FK-1614	1/14	1.440	1.427	1.615	.571	.218
FK-1812	1 1/8-12	1.627	1.614	1.826	.634	.238
FK-2012	1 1/4-12	1.814	1.801	2.038	.759	.311
FK-2212	1 3/8-12	2.002	1.998	2.269	.821	.325
FK-2412	1 1/2-12	2.190	2.176	2.484	.884	.350

Dimensions per SPS Technologies

## Rivet Nuts



Steel Rivet Nut Zinc:

NRIV020----X---Z1

Aluminum Rivet:

NRIVALM----X---

Thread Size	Steel Marson #	Aluminum Marson #	D	B	C	A	Grip Range		Hole Size		Drill Size
			Body Dia.	Head Dia.	Head Height	Body Length	Min	Max	Min	Max	
6-32	57110	57210	.189	.325	.032	.438	.010	.075	.189	.193	# 12
8-32	57120	57220	.221	.357	.032	.438	.010	.075	.221	.226	# 2
8-32	57121	57221	.221	.357	.032	.500	.075	.120	.221	.226	# 2
10-24	57130	57230	.250	.406	.038	.531	.010	.080	.250	.254	1/4"
10-24	57132	57232	.250	.406	.038	.594	.080	.130	.250	.254	1/4"
10-32	57140	57240	.250	.406	.038	.531	.010	.080	.250	.254	1/4"
10-32	57142	57242	.250	.406	.038	.594	.080	.130	.250	.254	1/4"
1/4-20	57150	57250	.332	.475	.058	.625	.010	.080	.332	.338	Q
1/4-20	57152	57252	.332	.475	.058	.687	.080	.140	.332	.338	Q
1/4-20	57154	57254	.332	.475	.058	.750	.140	.200	.332	.338	Q
5/16-18	57171	57271	.413	.665	.062	.750	.030	.125	.413	.423	Z
5/16-18	57174	57274	.413	.665	.062	.875	.125	.200	.413	.423	Z
3/8-16	57181	57281	.490	.781	.088	.844	.030	.115	.490	.500	12.5mm
3/8-16	57184	57284	.490	.781	.088	.938	.115	.200	.490	.500	12.5mm

## Poly Nut

Steel Poly Nut Zinc:

NRIV020----X---Z1

Aluminum Poly Nut:

NPOLALM----X---

Note: Smaller Head Flange than Rivet Nut for nearly flush application

Thread Size	Steel Marson #	Aluminum Marson #	D	B	A	Grip Range		Hole Size		Drill Size
			Body Dia.	Head Dia.	Body Length	Min	Max	Min	Max	
6-32	57415	57510	.249	.287	.410	.020	.080	.250	.254	1/4"
8-32	57425	57520	.249	.287	.410	.020	.080	.250	.254	1/4"
10-24	57435	57530	.280	.320	.465	.020	.130	.281	.285	9/32"
10-32	57445	57540	.280	.320	.465	.020	.130	.281	.285	9/32"
1/4-20	57455	57550	.374	.415	.610	.030	.165	.375	.379	3/8"
5/16-18	57475	57575	.499	.540	.720	.030	.165	.500	.504	1/2"
3/8-16	57485	57585	.499	.540	.720	.030	.165	.500	.504	1/2"
4mm	57407	.	.249	.287	.410	.020	.080	.250	.254	1/4"
5mm	57409	.	.280	.320	.465	.020	.130	.281	.285	9/32"
6mm	57411	.	.374	.415	.610	.030	.165	.375	.379	3/8"

8mm	57413	.	.499	.540	.720	.030	.165	.500	.504	1/2"
10mm	57414	.	.499	.540	.720	.030	.165	.500	.504	1/2"

## Thread-Sert



Before set



Completed application

Steel Thread-Sert Zinc: NTHR020----Z1  
 Note: For almost Flush Installations

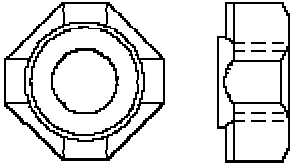
Thread Size	Material Thickness		Material Thickness		Delta Part Number	Marson Part #
	.0937 - .1562		.0937 - infinity			
	Hole Size	Drill Size	Hole Size	Drill Size		
4-40					0040Z1	
6-32	.221	# 2	.234	A	0060Z1	47810
8-32	.250	1/4"	.261	G	0080Z1	47820
10-24	.281	9/32"	.290	L	0100Z1	47830
10-32	.281	9/32"	.290	L	0101Z1	47840
1/4-20	.391	25/64"	.391	25/64"	0250Z1	47850
5/16-18	.500	1/2"	.516	33/64"	0310Z1	45871
3/8-16	.562	9/16"	.578	37/64"	0370Z1	47881

Aluminum Thread-Sert Zinc: NTHRALM----  
 Note: For almost Flush Installations

Thread Size	Material Thickness		Material Thickness		Delta Part Number	Marson Part #
	.0937 - .1562		.0937 - infinity			
	Hole Size	Drill Size	Hole Size	Drill Size		
6-32	.221	# 2	.234	A	0060	47910
8-32	.250	1/4"	.261	G	0080	47920
10-24	.281	9/32"	.290	L	0100	47930
10-32	.281	9/32"	.290	L	0101	47940
1/4-20	.391	25/64"	.391	25/64"	0250	47950
5/16-18	.500	1/2"	.516	33/64"	0310	47971
3/8-16	.562	9/16"	.578	37/64"	0370	47981


## Miscellaneous Nuts

**Square Weld Nut**



Material: Carbon Steel    NQW020----

**Allen Nut**

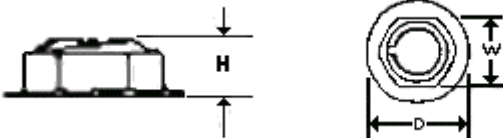


Material: Stainless    SHAN188----

Material: 2H    SHAN2H0----




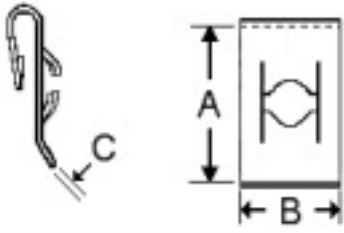
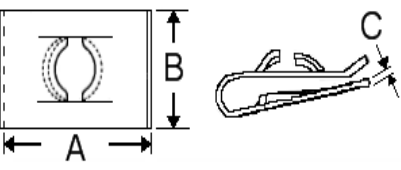
Material: Alloy    SHAN800----

**Pal Nut**



Material: Carbon Steel    NPAL020----Z1

**Tinnerman Nut**

<p>Push On</p>  <p>NTINP-----</p>	<p>Regular</p>  <p>NTINR-----</p>	<p>Cage</p>  <p>NTINC020----</p>
<p>Type "J"</p>  <p>NTINJ-----</p>	<p>Type "U"</p>  <p>NTINU-----</p>	

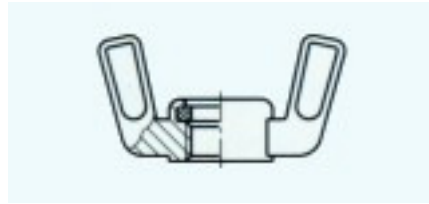
## Miscellaneous Nuts (continued)

### Wheel Nut



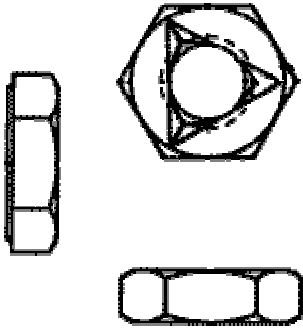
Material: Carbon Steel      NW020----

### Wing Nut Nylon Insert



Material: Carbon Steel      NECF020----

### Toplock Nut



Finished      NTLF020----

Jam      NTLJ020----

Heavy      NTLH020----

### Self Clinching Nuts (PEM Nut)



Material: Carbon Steel and Stainless

Use manufacturer part number