



Standard Part

Hexagon Nuts - Slotted, Grades 2, 5 and 8, Non-Preferred

STPE140**87366950**

Rev AD

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1. SCOPE

The fasteners defined by this specification are non-preferred Grades 2, 5 and 8 Inch Slotted Hex Nuts with coarse (UNC) and fine (UNF) threads.

When a standard is referenced in a drawing or specification, it is understood that the reference is to the latest revision of the standard, unless stated otherwise.

2. PART DESCRIPTION

Typical part description for BOM's and CAD drawings entered by Standards.

NUT, SLOTTED 1/2-13 GR5 DOR

NUT, SLOTTED 1/4-20 GR8 ZND

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

3. RELATED DOCUMENTS

3.1 REFERENCE STANDARDS

CNH STPA020—Fastener Finishes and Material Specifications

CNH MAT0310—Zinc Plating

ANSI/ASME B1.1—Unified Inch Screw Threads

ASME B18.2.2—Square and Hex Nuts (Inch Series)

SAE J122—Surface Discontinuities on Nuts

SAE J995—Mechanical and Material Requirements for Steel Nuts

3.2 REPLACED STANDARDS

Case E-050—Hex Slotted Nuts General Specification

Case E-051—Hex Slotted Nuts Preferred

Case E-052—Hex Slotted Nuts Non-Preferred

Case E-060—Hex Slotted Heavy Nuts General Specification

Case E-061—Hex Slotted Heavy Nuts Non-Preferred

Case E-064—Hex Slotted Thick Nuts General Specification

Case E-065—Hex Slotted Thick Nuts Non-Preferred

NH FNHA-1-B-375.00—Hex Slotted Nuts G2 Coarse Threads ZND

NH FNHA-1-B-370.00—Hex Slotted Nuts G2 Fine Threads ZND

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4. REQUIREMENTS

4.1 MATERIAL

Material per CNH STPA020. Steel hex Nuts, grades 2, 5 or 8 shall be marked according to SAE J995.

4.2 PREFERRED PARTS POLICY

Steel hex nuts, grade 2 are NOT recommended for new designs.

4.3 MECHANICAL DIMENSIONS

Hex Nut thread geometry shall conform to Unified Series 2B per ANSI/ASME B1.1. The dimensions shall meet the requirements of ASME B18.2.2 (see Tables 1 and 2).

4.4 SURFACE DISCONTINUITIES

All products under this specification shall be free from burrs, seams, laps, loose scale, irregular surfaces and any defects affecting their serviceability per SAE J122 (Surface Discontinuities on Nuts).

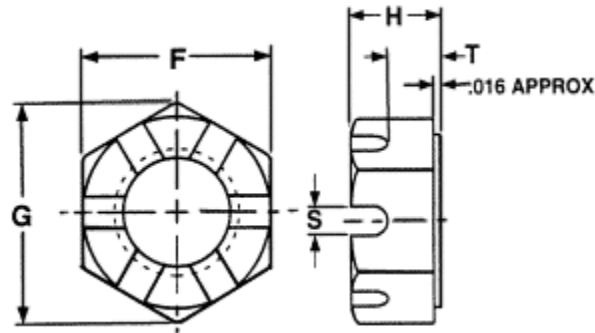


Table 1. General Dimensions – Slotted Nuts (Inch)

Nominal Size or Basic Major Diameter of Thread		F		G		H		T		S	
		Width Across Flats		Width Across Corners		Thickness of Hex Nuts		Unslotted Thickness		Width of Slot	
		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
3/8	0.375	0.562	0.551	0.65	0.628	0.337	0.32	0.21	0.19	0.15	0.12
7/16	0.4375	0.688	0.675	0.794	0.768	0.385	0.365	0.23	0.21	0.15	0.12
1/2	0.500	0.75	0.736	0.866	0.84	0.448	0.427	0.29	0.27	0.18	0.15
5/8	0.625	0.938	0.922	1.083	1.051	0.559	0.535	0.34	0.32	0.24	0.18
3/4	0.750	1.125	1.088	1.299	1.24	0.665	0.617	0.40	0.38	0.24	0.18
7/8	0.875	1.312	1.269	1.516	1.447	0.776	0.724	0.52	0.49	0.24	0.18
1	1.000	1.5	1.45	1.732	1.653	0.887	0.831	0.59	0.56	0.30	0.24
1-1/8	1.125	1.688	1.631	1.949	1.859	0.999	0.939	0.64	0.61	0.33	0.24
1-1/4	1.250	1.875	1.812	2.165	2.066	1.094	1.03	0.7	0.67	0.40	0.31
1-1/2	1.500	2.250	2.175	2.598	2.48	1.317	1.245	0.86	0.82	0.46	0.37



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Table 2. Slotted Nuts (Inch), Grades 2, 5 and 8, Non-Preferred

Nominal Diameter	Threads per Inch	Grade	Thickness of Hex Nuts (Max)	Nut Finish			
				DAC	DOR	PLN	ZND
1/4	20	2					86528692
1/4	28	2					86528699
5/16	18	2					86528693
5/16	24	2					86528700
3/8	16	2					87432
3/8	24	2					88953
7/16	14	2					86528694
7/16	20	2					86528701
1/2	13	2					87240
1/2	13	5					87652889
1/2	20	2					86528702
1/2	20	5				87440	51473314
9/16	12	2					86528695
9/16	18	2					280249
9/16	18	5				84151568	
5/8	11	2					88635
5/8	11	2	0.631				280253
5/8	18	2					87446
5/8	18	5					86637930
3/4	10	2					87435
3/4	10	5		90338764	47917717	84995	84151569
3/4	16	2					88886
3/4	16	5				84996	86632554
3/4	16		.446 **			116311	
3/4	16	8			51468800		83910701
7/8	9	2					86528696
7/8	9	5					84151570
7/8	14	2				84345497	280172
7/8	14	5				87016562	84151573
7/8	14	8					87016563
7/8	14	8	1.0625				47411816

** Slotted Jam Nut - Nut with Thickness of Hex Nuts (Max) less than Table 1 values.



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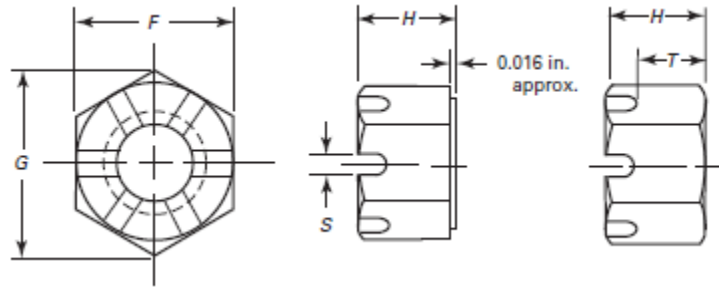
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Table 2. Slotted Nuts (Inch), Grades 2, 5 and 8, Non-Preferred (Continued)

Nominal Diameter	Threads per Inch	Grade	Thickness of Hex Nuts (Max)	Nut Finish			
				DAC	DOR	PLN	ZND
1	8	2					281042
1	8	5		90338768	87343900	87105	84151571
1	8	8			90324915		
1	12	2					86528703
1	12	5				80817	
1	14	2				1629	87449
1	14	2	.575 **				603373
1	14	5				86900678	86020752
1	14	5	.575 **			143183	
1-1/8	7	2					86528697
1-1/8	7	5				84151566	14051801
1-1/8	12	2					280982
1-1/8	12	5				86625059	86632555
1-1/4	7	2					280974
1-1/4	7	5				84151567	47511367
1-1/4	12	2				7666	86528704
1-1/4	12	5			87343909	87355811	76301178
1-1/4	12	5	0.751 **				69814
1-1/4	12	5	1.251			14052012	
1-1/4	12	8			47399676		
1-1/2	6	2					86528698
1-1/2	6	5					84151572
1-1/2	12	2				1680	86528705
1-1/2	12	5				427667	
1-3/4	5	5	1.759			280570	
2	4.5	5					47809284
2	12	2	2			51200125	
2-1/2	12	5	2.505				47587345

** Slotted Jam Nut - Nut with Thickness of Hex Nuts (Max) less than Table 1 values.


Table 3. General Dimensions – Hex Thick Slotted Nuts (Inch)

Nominal Size or Basic Major Diameter of Thread		F		G		H		T		S	
		Width Across Flats		Width Across Corners		Thickness of Hex Nuts		Unslotted Thickness		Width of Slot	
		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
5/8	0.625	0.938	0.922	1.083	1.051	0.731	0.706	0.51	0.49	0.24	0.18
3/4	0.750	1.125	1.088	1.299	1.240	0.827	0.798	0.57	0.55	0.24	0.18
7/8	0.875	1.312	1.269	1.516	1.447	0.922	0.890	0.67	0.64	0.24	0.18
1-1/8	1.125	1.688	1.631	1.949	1.859	1.176	1.136	0.83	0.80	0.33	0.24

Table 4. Hex Thick Slotted Nuts (Inch), Grades 2, 5 and 8, Non-Preferred

Nominal Diameter	Threads per Inch	Grade	Thickness of Hex Nuts (Max)	Nut Finish		
				DOR	PLN	ZND
5/8	18	5	.731		80686	
3/4	16	5	.827		84860	
7/8	14	5	.922		87016564	
1-1/8	12	5	1.177			280215