



Standard Part

Hexagon Nuts – Jam, Inch, Grades 2, 5 and 8, Non-Preferred

STPE120

87366948

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1. SCOPE

The fasteners defined by this specification are non-preferred Grades 2, 5 and 8 Inch Jam 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, JAM 1/2-13 GR5 DOR
NUT, JAM 1-1/4-20 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-020—Hex Jam Nuts General Specification
Case E-021—Hex Jam Nuts Preferred
Case E-022—Hex Jam Nuts Non-Preferred
NH FNHA-1-B-340.00—Jam Nuts G2 Coarse Threads ZND
NH FNHA-1-B345.00—Jam Nuts G2 Fine Threads ZND

4. REQUIREMENTS

4.1 MATERIAL

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

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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).

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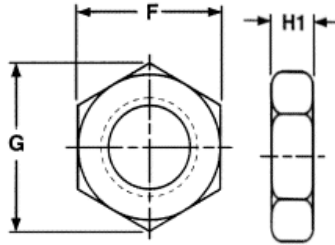


Table 1. General Dimensions

Nominal or Basic Major Diameter of Thread		F		G		H	
		Width Across Flats		Width Across Corners		Thickness of Hex Nuts	
		Max	Min	Max	Min	Max	Min
1/4	0.25	0.438	0.428	0.505	0.488	0.163	0.15
5/16	0.3125	0.5	0.489	0.577	0.557	0.195	0.18
3/8	0.375	0.562	0.551	0.65	0.628	0.227	0.21
7/16	0.4375	0.688	0.675	0.794	0.768	0.26	0.24
1/2	0.5	0.75	0.736	0.866	0.84	0.323	0.302
9/16	0.5625	0.845	0.861	1.01	0.982	0.324	0.301
5/8	0.625	0.938	0.922	1.083	1.051	0.387	0.363
3/4	0.75	1.125	1.088	1.299	1.24	0.446	0.398
7/8	0.875	1.312	1.269	1.516	1.447	0.51	0.468
1	1	1.5	1.45	1.732	1.653	0.575	0.519
1-1/8	1.125	1.688	1.631	1.949	1.859	0.639	0.579
1-1/4	1.25	1.875	1.812	2.165	2.066	0.751	0.687
1-3/8	1.375	2.062	1.994	2.382	2.273	0.815	0.747
1-1/2	1.5	2.25	2.175	2.598	2.48	0.88	0.808
*1-3/4	1.75	2.75	2.662	3.175	3.035	1.009	0.929
2	2	3	2.9	3.464	3.306	1.138	1.05
*2-1/4	2.25	3.500	3.388	4.041	3.862	1.251	1.155

*Heavy Hex JAM Nut per ASME B18.2.2



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Table 2. Inch Fine and Coarse Thread, Grades 2, 5 and 8, Non-Preferred

Nominal Diameter	Threads per Inch	Grade	DAC	DOR	PHC	PLN	ZND
10	32	5					86050298
1/4	20	2					87305
1/4	20	5					87317425
1/4	28	2					88098
1/4	28	5	90338756				86976064
5/16	18	2				84955	9626568
5/16	18	5		87343874			86637931
5/16	18	SST				87328624	
5/16	24	2					87307
5/16	24	5		87343881			86637933
5/16	24	SST				90327761	
5/16 (LH)	24	5					87034513
3/8	16	2				84956	86509499
3/8	16	5	90404696	87343875			87016560
3/8	24	2					87308
3/8 (L/H)	24	2					86591190
3/8	24	5					87319446
3/8 (L/H)	24	5					87034514
7/16	14	2					87017
7/16	14	5		87343886			86642432
7/16	20	2					81833913
7/16	20	5		87343898		87530616	87656
7/16	28	2					#84000368
7/16	28	5					87310592
1/2	13	2				84958	9638005
1/2	13	5		87343876			86632558
1/2	13	8			47639531		
1/2 (P/T)	13	8					84270863
1/2	20	2		47399207		87001	87309
1/2 (LH)	20	2					88722
1/2	20	5					47715978
1/2	20	&A		51695455			
9/16	12	5					86624026
9/16	18	2					87310
5/8	11	2					9636972
5/8 (P/T)	11	2					47529041
5/8	11	5		87343877		51558710	86632556
5/8 (LH)	11	5					86624023
5/8 (P/T)	11	5					87034807
5/8	11	8		87310318			

(LH) – Left Hand Thread

(P/T) – Prevailing Torque

&A - ASTM A563 Grade A

#Non-Standard – Height .09/.15, Hex 9/16



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Nominal Diameter	Threads per Inch	Grade	DAC	DOR	PHC	PLN	ZND
5/8	18	2					86511416
5/8	18	5				87016561	86637932
5/8 (P/T)	18	5					87034808
5/8	18	8			87564738		83955084
11/16	18	2					65107
3/4	10	2					84972
3/4	10	5		87343878		2292	86632557
3/4 (LH)	10	5					84580736
3/4	10	SST				84534535	
3/4	16	2				87106	87313
3/4	16	5		87343899			219758
3/4 (LH)	16	5					90488825
3/4	16	8		90460611			
7/8	9	2					87314
7/8	9	5					47609158
7/8	9	&A		51695435			
7/8	14	2					87315
7/8 (LH)	14	2					84037
7/8	14	5				8066	86636806
7/8 (LH)	14	5					86625063
1	8	2				6834	87919
1 (LH)	8	2					92250223
1	8	5	90338759	87343879			87553819
1	8	8		90507899			
1	12	2					5956
1	14	2					87316
1 (LH)	14	2					9602209
1	14	5	90338763				84517616
1	14	8	90338761	87310319			
1	16	2				309166	280748
1	16	5					82981603
1-1/8	7	2				80614	87318
1-1/8 (LH)	7	2					80080615
1-1/8	12	2					87319
1-1/8	12	SST				47388927	
1-1/4	7	5				84150871	6447
1-1/4	12	5					47464472
1-1/4	12	8		90507900			
1-3/8	6	5					87357000

(LH) – Left Hand Thread
(P/T) – Prevailing Torque
&A - ASTM A563 Grade A
* Heavy Hex JAM Nut



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Table 2. Inch Fine and Coarse Thread, Grades 2, 5 and 8, Non-Preferred (Continued)

Nominal Diameter	Threads per Inch	Grade	DAC	DOR	PHC	PLN	ZND
1-1/2	6	2				84302525	
1-1/2	6	5				84150872	87010729
1-1/2 (LH)	6	5					48096117
1-1/2	12	2					87604
1-1/2	12	5				6397	6368
1-3/4	12	5					*86637665
2-1/4	12	5					*87698858

(LH) – Left Hand Thread

(P/T) – Prevailing Torque

* Heavy Hex JAM Nu