



STANDARD FASTENERS

ATTACHES STANDARD

HEX HEAD CAP SCREWS

- GRADE 2**
- GRADE 5**
- GRADE 8**

HEX NUTS

- GRADE 2**
- GRADE 5**
- GRADE 8**

'CONELOK' LOCKNUTS

HEAVY HEX NUTS

- LOCK WASHERS (EXTRA DUTY)**
- TENSION WASHERS**
- DOUBLE THICKNESS NUTS**
- WING NUTS**
- ACORN (CAP) NUTS**
- PANEL NUTS**
- POZI-LOK® STOP NUTS PLATED**

POZI-LOK® DOUBLE NUT

- FLANGE NUTS**
- KEPS® LOCKNUT**
- ELEVATOR BOLTS**
- CARRIAGE BOLTS**
- PLOW BOLTS**
- HEX LAG BOLTS & SHIELDS**
- SQUARE HEAD SET SCREWS**

GRADE 5 HEX HEAD CAP SCREWS BARE BOULONS HEX CLASSE 5 NUS

073
UNC
Coarse

074
UNF
Fine

- Made to S.A.E. J429 specifications.
- Medium carbon Steel.
- Double heat treated.
- Bare Metal.



Papco® Grade 5 Cap Screws, identified by the three radial bar head marking, are made of medium carbon steel, quenched and tempered for higher tensile strength and holding power. Tensile strength: up to 1" Dia.-120,000 p.s.i. (min.) 1-1/8" Dia. up-105,000 p.s.i. (min.)

ORDER BY STOCK NUMBER

Example of Stock No. 073-586 is 1/2 x 2 Coarse Thread Grade 5 Cap Screw Bare Metal.

UNC Coarse Thread, add prefix 073

UNF fine thread, add prefix 074

Threads per inch	UNC	20	18	16	14	13	12	11	10	9	8	7	7	6	
	UNF	28	24	24	20	20	18	18	16	14	14	12	12	12	
Diameter	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-1/2		
1/2	-305	-440	-485	-	-	-	-	-	-	-	-	-	-	-	
3/4	-307	-442	-487	-532	-	-	-	-	-	-	-	-	-	-	
1	-309	-444	-489	-534	-579	-623	-668	-	-	-	-	-	-	-	
1-1/4	-311	-446	-491	-536	-581	-625	-670	-	-	-	-	-	-	-	
1-1/2	-313	-448	-493	-538	-583	-627	-672	-714	-	-	-	-	-	-	
1-3/4	-315	-450	-495	-540	-585	-629	-674	-716	-761	-802	-	-	-	-	
2	-316	-451	-496	-541	-586	-630	-675	-717	-762	-803	-	-	-	-	
2-1/4	-317	-452	-497	-542	-587	-631	-676	-718	-763	-804	-	-	-	-	
2-1/2	-318	-453	-498	-543	-588	-632	-677	-719	-764	-805	-845	-885	-	-	
2-3/4	-319	-454	-499	-544	-589	-633	-678	-720	-765	-806	-846	-886	-	-	
3	-320	-455	-500	-545	-590	-634	-679	-721	-766	-807	-847	-887	-	-	
3-1/2	-322	-457	-502	-547	-592	-636	-681	-723	-768	-809*	-849	-889	-	-	
4	-324	-459	-504	-549	-594	-638	-683	-725	-770	-811*	-851	-891	-961	-	
4-1/2	-325	-460	-505	-550	-595	-639	-684	-726	-771	-812*	-852	-892	-962	-	
5	-326	-461	-506*	-551	-596	-640	-685	-727	-772	-813*	-853	-893	-963	-	
5-1/2	-327	-462	-507*	-552	-597	-641	-686	-728	-773*	-814*	-854	-894	-964	-	
6	-329	-464	-509*	-554	-599*	-643	-688	-730	-775*	-816*	-856	-896	-966	-	
7	-	-	-	-	-601*	-	-690	-732	-777*	-818*	-858	-898	-968	-	
8	-	-	-	-	-603*	-	-692	-734	-779*	-820*	-860	-900	-970	-	
Head Width Across Flats	7/16	1/2	9/16	5/8	3/4	13/16	15/16	1-1/8	1-5/16	1-1/2	1-11/16	1-7/8	2-1/4		
Head Height	5/32	13/64	15/64	9/32	5/16	23/64	25/64	15/32	35/64	39/64	11/16	25/32	15/16		
Standard Package	100	100	100	50*	50	50	25*	25	25	20	20	10*	20	10*	As Required

GRADE 5 HEX NUTS BARE ÉCROUS HEX CLASSE 5 NUS

085
UNC
Coarse

086
UNF
Fine

- Made to Standard Finished Hexagon Nut dimensions.
- Bare Metal.



Stock No.	Diameter	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
		UNC Coarse	085-014	085-016	085-018	085-020	085-022	085-023	085-024	085-026	085-028
	UNF Fine	086-014	086-016	086-018	086-020	086-022	086-023	086-024	086-026	086-028	086-030
	Standard Package	100	100	100	50	50	25	25	20	20	20

For Grade 2 Plated and Bare Hex Nuts see page 63.

GRADE 2 HEX HEAD CAP SCREWS PLATED BOULONS HEX CLASSE 2 PLAQUÉS

071
UNC
Plated

Papco® Grade 2 Cap Screws are made from low carbon steel and have no head bar markings. Tensile strength: up to 5/8" Dia.-64,000 p.s.i. (min.) 3/4" Dia. up-55,000 p.s.i. (min.)



ORDER BY STOCK NUMBER

UNC Coarse Thread Zinc Plated, add prefix 071.

Example of Stock No. 071-586 is 1/2 x 2 Coarse Thread Grade 2 Cap Screw Zinc Plated.

NOTE: BOLT STRENGTH IS INDICATED BY HEAD MARKING. DO NOT REPLACE WITH A LOWER GRADE THAN THE ORIGINAL.

PLATED GRADE 5 HEX HEAD CAP SCREWS BOULONS HEX CLASSE 5 PLAQUÉS

075
UNC
Coarse

076
UNF
Fine

- Made to S.A.E. J429 specifications.
- Medium carbon Steel.
- Double heat treated.
- Bright Electroplated with Chromate Finish.



Papco® Plated Grade 5 Cap Screws are identified by the three radial bar head marking and are made of medium carbon steel, quenched and tempered for higher Tensile strength and holding power. Bright Electroplated with Chromate finish to resist rust. Tensile strength: up to 1" Dia.-120,000 p.s.i. (min.) 1-1/8" Dia. up-105,000 p.s.i. (min.)

ORDER BY STOCK NUMBER

Example of Stock No. 075-586 is 1/2 x 2 Coarse Thread Plated Grade 5 Cap Screw.

UNC Coarse Thread Plated, add prefix 075

UNF Fine Thread Plated, add prefix 076

Threads per inch	UNC	20	18	16	14	13	12	11	10	9	8	7
	UNF	28	24	24	20	20	18	18	16	14	14	12
Diameter	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/4	
1/2	-305	-440	-	-	-	-	-	-	-	-	-	-
3/4	-307	-442	-487	-532	-	-	-	-	-	-	-	-
1	-309	-444	-489	-534	-579	-623	-668	-	-	-	-	-
1-1/4	-311	-446	-491	-536	-581	-625	-670	-	-	-	-	-
1-1/2	-313	-448	-493	-538	-583	-627	-672	-714	-	-	-	-
1-3/4	-315	-450	-495	-540	-585	-	-674	-716	-761	-802	-	-
2	-316	-451	-496	-541	-586	-630	-675	-717	-762	-803	-	-
2-1/4	-317	-452	-497	-	-587	-	-676	-718	-763	-804	-	-
2-1/2	-318	-453	-498	-543	-588	-632	-677	-719	-764	-805	-885	-
3	-320	-455	-500	-545	-590	-634	-679	-721	-766	-807	-887	-
3-1/2	-322	-457	-502	-547	-592	-	-681	-723	-768	-809*	-889	-
4	-324	-459	-504	-549	-594	-	-683	-725	-770	-811*	-891	-
4-1/2	-325	-460	-505	-	-595	-	-684	-726	-771	-812*	-892	-
5	-326	-461	-506*	-	-596	-	-685	-727	-772	-813*	-893	-
5-1/2	-	-	-	-	-597	-	-686	-728	-773*	-814*	-894	-
6	-	-	-509*	-554	-599*	-	-688	-730	-775*	-816*	-896	-
Head Width Across Flats	7/16	1/2	9/16	5/8	3/4	13/16	15/16	1-1/8	1-5/16	1-1/2	1-7/8	
Head Height	5/32	13/64	15/64	9/32	5/16	23/64	25/64	15/32	35/64	39/64	25/32	
Standard Package	100	100	100 50*	50	20 25*	25	25	20	20 10*	20 10*	As Required	

PLATED GRADE 5 HEX NUTS ÉCROUS HEX CLASSE 5 PLAQUÉS

087
UNC
Coarse

088
UNF
Fine

- Made to Standard Finished Hexagon Nut dimensions.
- Bright Electroplated with Chromate Finish.



Stock No.	Diameter	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1
		UNC Coarse	087-014	087-016	087-018	087-020	087-022	087-023	087-024	087-026	087-028
	UNF Fine	088-014	088-016	088-018	088-020	088-022	088-023	088-024	088-026	088-028	088-030
	Standard Package	100	100	100	50	50	25	25	20	20	20

PLATED BULK FASTENERS ATTACHES EN VRAC PLAQUÉS

- 1/8 keg - 25 lbs. (maximum).
- Bright Electroplated with chromate finish.

Papco® Plated Grade 5 Cap Screws, Hex Nuts, Washers, Carriage Bolts, Lag Bolts and Screw Products series No. 845.

Refer to the current jobber or dealer price books for bulk quantities and sizes.



CAP SCREWS AND NUT UTILITY ASSORTMENTS ASSORTIMENTS UTILITAIRES DE BOULONS HEX ET ÉCROUS

Plated Grade 5 Cap Screws and Nuts. Dimensions and retail codes shown on lid.

No. 020-326

Contains 105 Fine Thread Screws in sizes from 1/4" x 3/4" to 1/2" x 1"-1/2".



No. 020-327

Contains 105 Coarse Thread Screws in sizes from 1/4" x 3/4" to 1/2" x 1-1/2".



No. 020-347

Contains 133 Hexagon Nuts in Fine, and Coarse sizes from 1/4" to 1/2" Dia.



CAP SCREWS AND NUT MASTER ASSORTMENTS ASSORTIMENTS GÉNÉRAUX DE BOULONS HEX ET ÉCROUS



Packed in metal, sectional divided box with moulded plastic compartments. The hinged, safety-lock lid may be closed and carried to the job. Contains the most popular sizes of Plated Grade 5 Cap Screws.

No. 020-622

Contains 20 best sizes of Plated Grade 5 Screws, Nuts, Washers, Stove Bolts and Cotter Pins.
UNC Cap Screws — 1/4" x 3/4" ; 1/4" x 1" ; 5/16" x 3/4" ; 5/16" x 1" ; 3/8" x 1" ; 3/8" x 1-1/2".
UNC Nuts — 1/4"; 5/16"; 3/8". **Lock Washers** — 1/4"; 5/16"; 3/8".
S.A.E Washers — 1/4"; 5/16"; 3/8". **Cotter Pins** — 3/32" x 1"; 1/8" x 2".
Stove Bolts — 3/16" x 1"; 1/4" x 3/4"; 1/4" x 1".

Have all the MOST USED sizes of Fasteners available when you need them.

No. 020-646

Contains 208 Plated Grade 5, UNF Fine Thread Cap Screws — 20 sizes.



No. 020-647

Contains 208 Plated Grade 5, UNC Coarse Thread Cap Screws — 20 sizes.



No. 020-648

Contains 376 Plated Hex Nuts, Coarse, Fine and Conelok — 18 sizes.

COMPARATIVE STRENGTH OF CAP SCREWS FORCE COMPARATIVE DE BOULONS HEX

Minimum Tensile Strength p.s.i. (pounds per sq. inch)	S.A.E. Grades 2, 5, and 8	I.S.O. Metric Property Classes	Minimum Tensile Strength MPa (megapascals)
180,000		12.9 Class 12.9	1220
170,000	Grade 8	10.9 Class 10.9	1040
150,000	Grade 5	9.8 Class 9.8	900
140,000		8.8 Class 8.8	830
130,000	Grade 2	5.8 Class 5.8	520
120,000			
110,000			
100,000			
90,000			
80,000			
70,000			
60,000			
50,000			
	1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2	M5 — M16 — M24 — M36	
	Diameter (inches)	Diameter (millimetres)	

GRADE 8 HEX HEAD CAP SCREWS PLATED OR BARE BOULONS HEX CLASSE 8 PLAQUÉS OU NUS

077 Coarse Bare	078 Fine Bare	079 Coarse Plated	080 Fine Plated
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Yellow Zinc plated image

- Made to S.A.E. J429 specifications.
- Medium Carbon Alloy Steel.
- Gold Zinc Dichromate plated or Bare Metal.
- Six Radial Bars.
- Double heat treated.

Papco® Grade 8 Cap Screws, identified by the six radial bar head marking, are made of medium carbon alloy steel, quenched and tempered for stronger, safer, more reliable mechanical joints. Use with Grade 8 Nuts to develop the full strength of the Cap Screw. Tensile strength: 150,000 p.s.i. (min.)

ORDER BY STOCK NUMBER

Example of Stock No. 079-586 is 1/2" x 2 Coarse Thread Plated Grade 8 Cap Screw.

Plated UNC Coarse Thread, add prefix 079

Plated UNF Fine Thread, add prefix 080

Threads per inch	UNC	20	18	16	14	13	11	10	9	8	7			
	UNF	28	24	24	20	20	18	16	14	14	12			
Diameter	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1-1/4				
1/2	-305	-440	-	-	-	-	-	-	-	-	-			
3/4	-307	-442	-487	-	-	-	-	-	-	-	-			
1	-309	-444	-489	-534	-579	-668	-	-	-	-	-			
1-1/4	-311	-446	-491	-536	-581	-	-	-	-	-	-			
1-1/2	-313	-448	-493	-538	-583	-672	-714	-	-	-	-			
1-3/4	-315	-450	-495	-	-585	-674	-	-	-	-	-			
2	-316	-451	-496	-541	-586	-675	-717	-762	-803	-	-			
2-1/4	-317	-452	-497	-	-587	-676	-	-	-	-	-			
2-1/2	-318	-453	-498	-543	-588	-677	-719	-764	-805	-	-			
3	-320	-455	-500	-545	-590	-679	-721	-766	-807	-887	-			
3-1/2	-322	-457	-502	-547	-592	-681	-723	-768	-809*	-	-			
4	-324	-459	-504	-549	-594	-683	-725	-770	-811*	-891	-			
4-1/2	-	-	-	-550	-595	-684	-726	-	-	-	-			
5	-326	-461	-506*	-551	-596	-685	-727	-772	-813*	-893	-			
6	-329	-464	-509*	-554	-599*	-688	-730	-775*	-816*	-896	-			
7	-	-	-	-	-	-690	-732	-777*	-818*	-	-			
8	-	-	-	-	-	-692	-734	-779*	-820*	-900	-			
Head Width Across Flats	7/16	1/2	9/16	5/8	3/4	15/16	1-1/8	1-5/16	1-1/2	1-7/8				
Head Height	5/32	13/64	15/64	9/32	5/16	25/64	15/32	35/64	39/64	25/32				
Standard Package	100	100	100	50*	50	50	25*	25	20	20	10*	20	10*	As Required

GRADE 8 HEX NUTS PLATED OR BARE ÉCROUS HEX CLASSE 8 PLAQUÉS OU NUS

089 Coarse Bare	090 Fine Bare	091 Coarse Plated	092 Fine Plated
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- Made to standard finished Hexagon Nut dimensions.
- Gold Zinc Dichromate plated or Bare Metal.



Yellow Zinc plated image

ORDER BY STOCK NUMBER

Diameter	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Stock No.	-014	-016	-018	-020	-022	-024	-026	-028	-030
Across Flats	7/16	1/2	9/16	11/16	3/4	15/16	1-1/8	1-5/16	1-1/2
Standard Package	100	100	100	50	50	25	20	20	20

For Grade 8 Flat Washers see 101 Series Tension Washers - Lock Washers see 101 Series Extra Duty Lock Washers, pages 63 & 94.