

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



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



- 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.

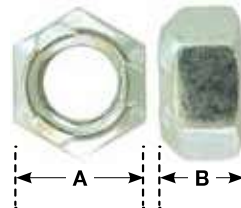
GRADE B 'CONELOCK' LOCKNUTS ÉCROUS À BLOCAGE 'CONELOCK' CLASSE B

061
UNC
Coarse

062
UNF
Fine

Low Carbon Steel

- Proof Stress: 120,000 psi.
- Grade B identified by **three marks.**



The Cone Lok Locknut is an improved ONE-PIECE-REUSABLE-PREVAILING TORQUE locknut of superior locking characteristics which are obtained by accurately modifying the threads in the locking section.

Grade B Cone Lok Locknuts are all steel one piece construction. Lock in any position - are strong, shock-proof and vibration-proof. Easily installed and reusable - starts freely and then requires wrenching as the out-of-round gripping threads engage the bolt. Cadmium plated to resist rust and wax coated to ensure a uniform clamping force.

ORDER BY STOCK NUMBER

UNC - Coarse Thread		Width 'A' x Thickness 'B'	Standard Package
Stock No.	Bolt Diameter Inches		
061-514	1/4-20	7/16 x .257	100
061-516	5/16-18	1/2 x .302	100
061-518	3/8-16	9/16 x .377	100
061-520	7/16-14	11/16 x .430	50
061-522	1/2-13	3/4 x .510	50
061-523	9/16-12	7/8 x .555	25
061-524	5/8-11	15/16 x .645	25
061-526	3/4-10	1-1/8 x .750	20
061-528	7/8-9	1-5/16 x .862	20
061-530	1-8	1-1/2 x .958	20

Used with Grade 2 or Grade 5 Bolts.

UNF - Fine Thread		Width 'A' x Thickness 'B'	Standard Package
Stock No.	Bolt Diameter Inches		
062-514	1/4-28	7/16 x .257	100
062-516	5/16-24	1/2 x .302	100
062-518	3/8-24	9/16 x .377	100
062-520	7/16-20	11/16 x .430	50
062-522	1/2-20	3/4 x .510	50
062-523	9/16-18	7/8 x .555	25
062-524	5/8-18	15/16 x .645	25
062-526	3/4-16	1-1/8 x .750	20
062-528	7/8-14	1-5/16 x .862	20
062-530	1-14	1-1/2 x .958	20

Used with Grade 2 or Grade 5 Bolts.

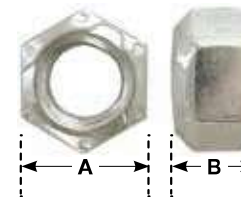
GRADE C 'CONELOCK' LOCKNUTS ÉCROUS À BLOCAGE 'CONELOCK' CLASSE C

063
UNC
Coarse

064
UNF
Fine

Medium Carbon Steel, Heat Treated

- Proof Stress: 150,000 psi.
- Grade 'C' identified by **six marks.**



Grade 'C' Heat Treated High-strength Cone Lok Locknuts are made for **critical applications**, used with heat treated high carbon and alloy steel bolts including S.A.E. Grade 8. The Cadmium finish resists rust and the pre-lubricant wax coating produces a uniform clamping force.

Two sectors of the Cone Lok Locknut are preformed inwardly. When the nut is applied to the bolt, these deflected threads are elastically returned to a circular form and create an inward and downward pressure which produces intimate contact between the load carrying flanks of the nut and bolt threads. The Cone Lok nut starts freely and then requires wrenching as the out-of-round gripping threads engage the bolt. The prevailing torque enables the stop nut to remain in a fixed position through a wide adjustment range and it retains its locking ability through many reuses.

ORDER BY STOCK NUMBER

UNC - Coarse Thread		Width 'A' x Thickness 'B'	Standard Package
Stock No.	Bolt Diameter Inches		
063-514	1/4-20	7/16 x .257	100
063-516	5/16-18	1/2 x .302	100
063-518	3/8-16	9/16 x .377	100
063-520	7/16-14	11/16 x .430	50
063-522	1/2-13	3/4 x .510	50
063-523	9/16-12	7/8 x .555	25
063-524	5/8-11	15/16 x .645	25
063-526	3/4-10	1-1/8 x .750	20
063-528	7/8-9	1-5/16 x .862	20
063-530	1-8	1-1/2 x .958	20

Used with Grade 5 or Grade 8 Bolts.

UNF - Fine Thread		Width 'A' x Thickness 'B'	Standard Package
Stock No.	Bolt Diameter Inches		
064-514	1/4-28	7/16 x .257	100
064-516	5/16-24	1/2 x .302	100
064-518	3/8-24	9/16 x .377	100
064-520	7/16-20	11/16 x .430	50
064-522	1/2-20	3/4 x .510	50
064-523	9/16-18	7/8 x .555	25
064-524	5/8-18	15/16 x .645	25
064-526	3/4-16	1-1/8 x .750	20
064-528	7/8-14	1-5/16 x .862	20
064-530	1-14	1-1/2 x .958	20

Used with Grade 5 or Grade 8 Bolts.

UTILITY ASSORTMENTS



These Assortments contain 90 lock nuts from 1/4" to 1/2" Dia. The container is sectionally divided for ease of selection.

No. 020-348

Fine Thread (UNF)
Cone Lok Locknuts.

No. 020-349

Coarse Thread (UNC)
Cone Lok Locknuts.



GRADE 2 HEX NUTS BARE ÉCROUS HEX CLASSE 2 NUS

081
UNC
Coarse

082
UNF
Fine

- Finished
- Bare Metal



UNC Coarse	UNF Fine	Size	Standard Package	Width Across Flats	Thickness
Stock No.					
081-014	082-014	1/4	100	7/16	7/32
081-016	082-016	5/16	100	1/2	17/64
081-018	082-018	3/8	100	9/16	21/64
081-020	082-020	7/16	50	11/16	3/8
081-022	082-022	1/2	50	3/4	7/16
081-023	082-023	9/16	25	7/8	31/64
081-024	082-024	5/8	25	15/16	35/64
081-026	082-026	3/4	20	1-1/8	41/64
081-028	082-028	7/8	20	1-5/16	3/4
081-030	082-030	1	20	1-1/2	55/64
081-032	082-032	1-1/8	15	1-11/16	31/32
081-034	082-034	1-1/4	15	1-7/8	1-1/16
081-037	082-037	1-3/8	10	2-1/16	1-11/64
081-038	082-038	1-1/2	10	2-1/4	1-9/32

PLATED GRADE 2 HEX NUTS ÉCROUS HEX CLASSE 2 PLAQUÉS

083
UNC
Coarse

084
UNF
Fine

- Finished
- Bright Plated



UNC Coarse	UNF Fine	Size	Standard Package	Width Across Flats	Thickness
Stock No.					
083-014	084-014	1/4	100	7/16	7/32
083-016	084-016	5/16	100	1/2	17/64
083-018	084-018	3/8	100	9/16	21/64
083-020	084-020	7/16	50	11/16	3/8
083-022	084-022	1/2	50	3/4	7/16
083-023	084-023	9/16	25	7/8	31/64
083-024	084-024	5/8	25	15/16	35/64
083-026	084-026	3/4	20	1-1/8	41/64
083-028	084-028	7/8	20	1-5/16	3/4
083-030	084-030	1	20	1-1/2	55/64

094
Series

UNC HEAVY HEX NUTS* BARE ÉCROUS LOURDS HEX UNC NUS



* Jam Nuts also available in sizes listed.

Note: These Nuts conform to ANSI Standard B18.2.2.
Nuts with Left Hand Threads are also available.

Stock No.	094-014	094-016	094-018	094-020	094-022	094-023	094-024	094-026	094-028	094-030	094-032	094-034	094-037	094-038
Nut Size & Thread	1/4-20	5/16-18	3/8-16	7/16-14	1/2-13	9/16-12	5/8-11	3/4-10	7/8-9	1-8	1-1/8-7	1-1/4-7	1-3/8-6	1-1/2-6
Std. Pkg.	100	100	100	50	50	25	25	20	20	20	15	15	10	10
Width (Flats)	1/2	9/16	11/16	3/4	7/8	15/16	1-1/16	1-1/4	1-7/16	1-5/8	1-13/16	2	2-3/16	2-3/8
Thickness	15/64	19/64	23/64	27/64	31/64	35/64	39/64	47/64	55/64	63/64	1-7/64	1-7/32	1-11/32	1-15/32

EXTRA DUTY LOCK WASHERS RONDELLES À RESSORT EXTRA ROBUSTES

101
Series

- 4037 High Alloy Steel.
- Mechanical Gold Zinc Dichromate Plated.



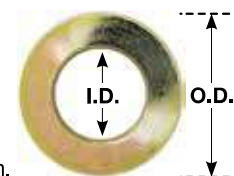
For use with Grade 5 or 8 bolts and for high load applications.

Stock No.	Bolt Size	Steel Section W x T	Maximum Thickness	Standard Package
101-014	1/4	.109 x .062	.080	100
101-016	5/16	.125 x .078	.080	100
101-018	3/8	.141 x .094	.080	100
101-020	7/16	.156 x .109	.080	100
101-022	1/2	.171 x .125	.177	50
101-023	9/16	.188 x .141	.177	50
101-024	5/8	.203 x .156	.177	50
101-026	3/4	.234 x .188	.177	40
101-028	7/8	.266 x .219	.177	40
101-030	1	.297 x .250	.177	40
101-032	1-1/8	.411 x .375	.177	20
101-034	1-1/4	.452 x .417	.177	20
101-038	1-1/2	.526 x .496	.177	20

TENSION WASHERS RONDELLES DE TENSION

101
Series

- Heat treated.
- High carbon.
- Plated Steel



Use two with each Grade 8 cap screw and nut to complete the system.

Stock No.	Bolt Diameter	I.D.	O.D.	Maximum Thickness	Standard Package
101-114	1/4	9/32	5/8	.080	100
101-116	5/16	11/32	11/16	.080	100
101-118	3/8	13/32	13/16	.080	100
101-120	7/16	15/32	59/64	.080	100
101-122	1/2	17/32	1-1/16	.177	50
101-123	9/16	19/32	1-3/16	.177	50
101-124	5/8	11/16	1-5/16	.177	50
101-126	3/4	13/16	1-15/32	.177	40
101-128	7/8	15/16	1-3/4	.177	40
101-130	1	1-1/8	2	.177	40
101-132	1-1/8	1-1/4	2-1/4	.177	20
101-134	1-1/4	1-3/8	2-1/2	.177	20
101-138	1-1/2	1-5/8	3	.177	20

POZI-LOK® STOP NUTS PLATED ÉCROUS POZI-LOK® PLAQUÉS

108
UNC
Coarse

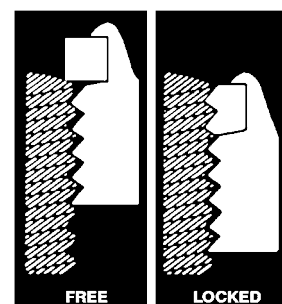
109
UNF
Fine

Nylon Insert

These prevailing torque locknuts offer excellent vibration resistance and a wide range of adjustment. The nylon collar prevents liquid seepage and internal corrosion. It is smaller than the bolt diameter and as the bolt enters the collar, the thread form is impressed in the nylon. The resulting compressive forces exert constant friction grip on the bolt and prevent loosening. These nuts may be re-used up to 50 times because the “elastic memory” feature of the nylon causes it to return to its original shape. May be used with Grade 2 and Grade 5 Screws up to 250° F. Bright Zinc Chromate Plated.

ORDER BY STOCK NUMBER

Stock No.	Size	Stock No.	Size	Standard	Dimensions	
UNC Coarse Thread		UNF Fine Thread		Packages	'A' Width	'B' Thickness
108-006	6-32	-	-	100	5/16	.178
108-008	8-32	-	-	100	11/32	.229
108-010	10-24	109-010	10/32	100	3/8	.239
108-014	1/4-20	109-014	1/4-28	100	7/16	.313
108-016	5/16-18	109-016	5/16-24	100	1/2	.344
108-018	3/8-16	109-018	3/8-24	100	9/16	.453
108-020	7/16-14	109-020	7/16-20	50	5/8	.453
108-022	1/2-13	109-022	1/2-20	50	3/4	.594
108-023	9/16-12	109-023	9/16-18	25	7/8	.641
108-024	5/8-11	109-024	5/8-18	25	15/16	.750
108-026	3/4-10	109-026	3/4-16	20	1-1/16	.875
108-028	7/8-9	109-028	7/8-14	20	1-1/4	.984
108-030	1-8	109-030	1-14	20	1-7/16	1.047



POZI-LOK® STOP NUT ASSORTMENT ASSORTIMENTS ÉCROUS POZI-LOK®



MASTER ASSORTMENT

No. 020-649

This assortment contains 175 nuts in 16 sizes from 1/4" to 3/4" in both Coarse and Fine Thread. Packed in sturdy, metal box with moulded plastic compartments. Illustrated lid label includes retail price codes.

GARAGE ASSORTMENTS

No. 020-064

UNC Coarse Thread

No. 020-065

UNF Fine Thread

■ Each contains 40 plated Pozi-Lok® Stop Nuts 1/4", 5/16", 3/8", 7/16" and 1/2" Dia.

■ Packed in a clear plastic box.



POZI-LOK® DOUBLE NUT ÉCROUS DOUBLE POZI-LOK®

111
Series

These Nylon Insert, prevailing torque lock nuts offer excellent vibration resistance and assure positive locking under severe shock. Used for Spring Centre Bolts. Spring U-Bolts etc. UNF Fine Thread.



ORDER BY STOCK NUMBER

Std. Package: 5 pcs

Stock No.	Size	Dimensions	
		Width 'A'	Thickness 'B'
111-018	3/8-24	35/64	41/64
111-020	7/16-20	5/8	49/64
111-022	1/2-20	3/4	13/16
111-024	5/8-18	15/16	1