

CAT900116

paulin[®]

MERCHANDISERS

www.hpaulin.com

HILLMAN[™]

**BOLTS, NUTS & WASHERS
AUTOMOTIVE
BRAKE AND FUEL
HANDY-PAKS[®]
RODS, SHAPES & SHEETS
and more...**



At The Hillman Group, we stock a comprehensive range of standard and non-standard fasteners, hardware, fittings, fluid flow components and automotive products under our Hillman, Paulin, Papco, Dominion, and Pro-Tip family of brands. Our range of products are complimented by our ability to source any item in the required size and material for any type of project. Let us help standardize your range of products or create new programs with the help from our dynamic and vibrant organization. For over 100 years, the Paulin® brand has been recognized as an industry leader. Our customers are retailers, original equipment manufacturers, industrial and automotive aftermarket distributors, and plumbing and gas wholesalers.

The Hillman Group has been a customer-first organization that built a loyal customer base centred on trust, dedication and long-lasting relationships. Paulin® being the First In Fasteners, we look forward to being The Right Fastening Choice for you.

Our five strategically situated warehouses in Vancouver, Edmonton, Winnipeg, Toronto and Montreal are conveniently located to provide courteous service to all of our customers.

The items listed in our catalogue are a representation of the products available and stocked in our distribution network. Our availability may not represent all sizes available or certain applications required. Please contact your local Hillman customer service or sales representative for additional product inquiries. Our knowledgeable staff will provide you with information and solutions that are both cost effective and reliable.



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paulin[®] METAL MARKET MERCHANDISER

Assortment of construction grade steel for automotive, industrial, farm, hardware and home. Cold rolled steel sheets, galvanized steel, aluminum sheets and expanded metal. Contains the right selection of flats, angles and sheets needed in daily repairs.

- Can be cut, bent, formed, drilled and welded as required
- Wide range of metal for general repairs
- Sturdy all-metal floor stand.
- Retail labelled.
- Contains 153 steel shapes plus 12 metal sheets
- Size: 24" W x 22-1/2" D x 31-3/4" H
- Empty metal market display rack (022-033)

022-032

METAL MARKET MERCHANDISER



Empty Metal Market
Display Rack No. 022-033

Part #	Description	Qty (pcs)
142-004	Steel Round Rod 1/4 x 36"	5
142-006	Steel Round Rod 5/16 x 36"	5
142-008	Steel Round Rod 3/8 x 36"	5
142-012	Steel Round Rod 1/2 x 36"	5
142-014	Steel Round Rod 5/8 x 36"	5
142-016	Steel Round Rods	3
142-040	Steel Flat 1/8 x 3/4 x 36"	3
142-042	Steel Flat 1/8 x 1 x 36"	3
142-044	Steel Flat 1/8 x 1-1/4 x 36"	3
142-046	Steel Flat 1/8 x 1-1/2 x 36"	3
142-060	Flat Steel	3
142-068	Flat Steel	3
142-100	Steel Angle	3
142-102	Steel Angle	3
142-104	Steel Angle	3
142-106	Steel Angle	3
142-126	Steel Angle	3
142-200	Slotted Steel Angle Galvanized 0.074 x 1-1/2 x 36	3
142-202	Slotted Steel Angle Galvanized	3
142-220	Slotted Steel Flats Galvanized 1-3/8 x 0.074 x 36	5
142-222	Slotted Steel Flats Galvanized 1-3/8 x 0.074 x 48	5
142-302	Steel Square Tube 3/4 x 0.065 x 36"	2
142-304	Steel Square Tube 1 x 0.065 x 36"	2
142-338	Aluminum Round Tube 3/4 x 36"	3
142-340	Aluminum Round Tubing	3
142-402	Steel Round Tube 3/4 x 0.065 x 36"	2
142-404	Round Steel Tubing	2
142-430	Aluminum Square Tube 3/4 x 36"	3
142-432	Aluminum Square Tube 1 x 36"	3
142-500	Steel Sheet Metal (26 GA) Galvanized	2
142-520	Steel Sheet 6 x 24" (22GA)	2
142-524	Steel Sheet Metal 24 Gauge	2
142-528	Steel Sheet Metal 24 Gauge	2
142-550	Aluminum Sheet Metal	2
142-560	Expanded Steel Sheet	1
142-570	Expanded Steel Sheet	1
142-640	Aluminum Flat 1/8 x 3/4 x 36"	3
142-642	Aluminum Flat 1/8 x 1 x 36"	3
142-646	Aluminum Flat 1/8 x 1-1/2 x 36"	3
142-648	Aluminum Flat 1/8 x 2 x 36"	3
142-660	Aluminum Flat 1/8 x 3/4 x 48"	3
142-662	Aluminum Flat 1/8 x 1 x 48"	3
142-700	Aluminum Angle 1/8 x 3/4 x 36"	3
142-702	Aluminum Angle 1/8 x 1 x 36"	3
142-706	Aluminum Angle 1/8 x 1-1/2 x 36"	3
142-708	Aluminum Angles	3
142-720	Aluminum Angles	3
142-778	Aluminum Angle 1/16 x 3/4 x 36"	6
142-780	Aluminum Angle 1/16 x 1 x 36"	3
142-790	Aluminum Angle 1/16 x 1/2 x 3/4 x 36"	3
142-808	Aluminum Round Rod 3/8 x 36"	3
142-812	Aluminum Round Rods	3
142-814	Aluminum Round Rods	2
142-846	Aluminum Round Rods	3

Display and contents not exactly as shown.



Signage, hooks & spinner included

LIST OF CONTENTS AVAILABLE UPON REQUEST

Please contact your sales representative for details.

LIST OF CONTENTS

- **Metric 8.8**
 - Cap Screws Coarse, Fine & Extra Fine
- **Metric 8.0**
 - Nuts Coarse, Fine & Extra Fine
- **Metric 10.9**
 - Cap Screws Bare
 - Nuts Bare
- **Metric**
 - Flat Washers Plated
 - Lock Washers Plated
- **Licence Plate Hardware**
- **Metal Screw**
 - Drill-X® Hex Washer Head Metal Screw Plated
 - Indented Hex Washer Head Type A
- **JIS Metric Flange Bolt**
- **Metric/Imperial Studs**
- **Imperial**
 - Cap Screws Gr. 8
 - Nuts Gr. 8
 - Conelok® Nuts Gr. C
 - Papocolloy Flat Washers
 - Lock Washers
- **Stainless Steel 18.8**
 - Cap Screws
 - Nuts
 - Clevis Pins
 - Blind Rivets
 - Lock Washers
 - Flat Washers
 - Machine Screws
 - Wing Nuts
 - Finishing Washers
 - Tapping Screws
 - Back-up Plate
- **Rivets & Pins**
 - Blind Rivets
 - Cotter Pins
 - Universal Clevis Pins
- **Fluid Flow**
 - Grease Fittings
 - Push On Hose (End Mender)
 - Drain Cock
 - Flare Nut/Union Adapter
 - Garden Hose
 - Pipe Elbow
 - Pipe Tee
 - Pipe Coupling
 - Pipe Bushing
 - Pipe Nipple
 - Pipe Plug

Display and contents not exactly as shown.

paulin BODY SHOP MERCHANDISER

953
Clamshells

022-158



Signage, hooks & spinner included

PLEASE REFER TO CURRENT BODY SHOP FASTENERS CATALOGUE FOR CONTENT LISTING

Please contact your sales representative for details.

LIST OF CONTENTS

- **Plastic Plug Buttons**
- **'U' Nuts:** Nylon 'U' Nuts, Single Thread 'U' Nuts, Speed Nuts
- **Grommets:** Headlamp Bezels, Licence Plate Nuts, Grille Fasteners, Headlamp Door Nut
- **Windshield Mouldings:** Hog Ring, Glass Shop Fasteners
- **Bumper Bolts**
- **Washers & Shims:** Machine Screw Nuts, Fender Washers, Body Shims
- **Multi-Thread 'U' Nuts**
- **Plastic Retainers:** 'Push' Type, Trim Fasteners, Plastic Shield, Screw In, Weather Strip Fasteners, Cable Straps
- **Body Bolts:** Metal Screws, Clevis Pins, Licence Plate Bolts, Metric Flange Nuts
- **Self-Threading Palnuts**
- **Rivets:** Blind Rivets, Regulator Rivets, Plastic Rivets
- **Tubular Type Speed Clips**
- **Hinge Pins & Bushings**
- **Mounting Nuts:** 'Jack' Nuts, Blind Well Nuts
- **Moulding Fasteners**
- **Pushnuts Bolt Retainers**
- **Metal Screws:** Trim Screws

Display and contents not exactly as shown.

papco STEEL BRAKE LINE MERCHANDISERS

Papcoflex steel brake line floor merchandisers are available in 4 variations and may be linked together to form a master warehouse stock to cover almost every brake line requirement. Compact wire rack measures 9-1/2" w x 20-1/2" d x 28" h and includes colour-coded, permanent PVC storage tubes for dispensing lines. Each Papcoflex Brake Line is labelled showing part number, O.D. and length.



022-284

Empty Wire Rack (with tubes and colour-coded labels to create your own mix of lines)

STEEL BRAKE LINE MERCHANDISER

022-285

Contains 3 each of 28 sizes of Papcoflex Brake Lines for a total of 84 lines. Rack and tubes included.

POLY-V COATED BRAKE LINES MERCHANDISER

022-585

Contains 3 each of 28 sizes of POLY-V Coated Steel Brake Lines for a total of 84 lines. Rack and tubes included.

ORDER BY STOCK NUMBER

S - STEEL

P - POLY-V

Overall Length	3/16 O.D.		1/4 O.D.		5/16 O.D.		3/8 O.D.	
	S	P	S	P	S	P	S	P
8"	S-308	PS-308	S-408	PS-408	S-508	PS-508	S-610	PS-608
12"	S-312	PS-312	S-412	PS-412	S-512	PS-512	S-612	PS-612
20"	S-320	PS-320	S-420	PS-420	S-520	PS-520	S-620	PS-620
30"	S-330	PS-330	S-430	PS-430	S-530	PS-530	S-630	PS-630
40"	S-340	PS-340	S-440	PS-440	S-540	PS-540	S-640	PS-640
51"	S-351	PS-351	S-451	PS-451	S-551	PS-551	S-651	PS-651
60"	S-360	PS-360	S-460	PS-460	S-560	PS-560	S-660	PS-660

METRIC BRAKE LINE MERCHANDISER

022-287

Contains 3 each of 21 sizes of Papcoflex Metric Brake Lines for a total of 63 lines. Rack and tubes included.

POLY-V COATED METRIC BRAKE LINES MERCHANDISER

022-586

Contains 3 each of 21 sizes of POLY-V Coated Metric Brake Lines for a total of 63 lines. Rack and tubes included.

ORDER BY STOCK NUMBER

S - STEEL

P - POLY-V

Overall Length	TYPE 'A' JAPANESE		TYPE 'B' BRITISH		TYPE 'C' EUROPEAN	
	S	P	S	P	S	P
8"	MA308	PMA-308	MB308	PMB-308	MC308	PMC-308
12"	MA312	PMA-312	MB312	PMB-312	MC312	PMC-312
20"	MA320	PMA-320	MB320	PMB-320	MC320	PMC-320
30"	MA330	PMA-330	MB330	PMB-330	MC330	PMC-330
40"	MA340	PMA-340	MB340	PMB-340	MC340	PMC-340
51"	MA351	PMA-351	MB351	PMB-351	MC351	PMC-350
60"	MA360	PMA-360	MB360	PMB-360	MC360	PMC-360

NOTE: PMA Series POLY-V Brake Lines are supplied with Long Nuts for compatibility with Toyota/GM brake line requirements.

Display and contents not exactly as shown.

paulin FAST-FILL MERCHANDISERS

022-183

DECK & DRYWALL MERCHANDISER

Part #	Size	Jar Qty	Jars Per Rack
DRYWALL SCREWS (COARSE THREAD)			
537-241	6 x 1-1/4	500	6
537-242	6 x 1-5/8	500	6
537-243	6 x 2	300	4
537-245	7 x 2-1/2	250	4
537-246	8 x 3	150	4
DRYWALL SCREWS (FINE THREAD)			
537-240	6 x 1-1/4	500	6
537-283	6 x 2	300	4
537-284	7 x 2-1/2	250	4
537-285	8 x 3	150	4
537-291	6 x 1	500	4
537-292	6 x 1-5/8	500	6
DRYWALL SCREWS (FINE THREAD)			
537-294	6 x 1-1/4	650	2
537-295	6 x 1-5/8	450	2
537-296	7 x 2	375	2
536-297	7 x 2-1/4	300	2
537-298	7 x 2-1/2	250	2
DRYWALL TRIM SCREWS			
537-267	6 x 1-5/8	650	2
537-268	7 x 2-1/4	375	2
FRAMING SCREW 'S' POINT			
537-264	6 x 7/16	900	6
FRAMING SCREW - SELF-DRILLING			
537-265	6 x 7/16	1200	2
MODIFIED TRUSS HD SELF-DRILLING SCREW			
537-266	10 x 3/4	500	2
DRYWALL TRIM SCREWS			
537-300	8 x 1-1/2	600	4
537-301	8 x 1-3/4	500	4
537-302	8 x 2	400	4
537-303	8 x 2-1/2	250	6
537-304	8 x 3	200	6
537-305	10 x 3-1/2	125	4
DECK SCREWS - CEDAR			
537-306	8 x 1-1/2	600	4
537-307	8 x 1-3/4	500	4
537-308	8 x 2	400	4
537-309	8 x 2-1/2	250	6
537-310	8 x 3	200	6
537-311	10 x 3-1/2	125	4



Part #	Size	Jar Qty	Jars Per Rack
CONSTRUCTION SCREWS - YELLOW ZINC			
537-312	8 x 1-1/4	700	4
537-313	8 x 1-1/2	600	4
537-314	8 x 1-3/4	500	4
537-315	8 x 2	400	4
537-316	8 x 2-1/2	250	4
537-317	8 x 3	200	4
537-318	10 x 3-1/2	125	4
DECK SCREWS - 305 STAINLESS STEEL			
537-319	8 x 1-1/2	600	2
537-320	8 x 1-3/4	500	2
537-321	8 x 2	400	2
537-322	8 x 2-1/2	250	4
537-323	8 x 3	200	4

Display and contents not exactly as shown.

paulin FAST-FILL MERCHANDISERS

022-184 ANCHOR & SCREW MERCHANDISER

Part #	Size	Jar Qty	Jars Per Rack
PLASTIC CONICAL ANCHORS			
537-340	#6-8 x 3/4	900	4
537-341	#8-10 x 7/8	900	4
537-342	#10-12 x 1	500	4
537-343	#14-16 x 1-3/8	250	2
PLASTIC WALL PLUGS			
537-345	#6-8 x 3/4	850	4
537-346	#8-12 x 1	450	6
537-347	#12-14 x 1-1/2	250	4
SCREW ANCHORS			
537-355	#6 Nylon	200	4
537-356	#8 Nylon	150	6
537-357	#8 Zinc	150	4



Part #	Size	Jar Qty	Jars Per Rack
WOOD SCREWS			
536-996	4 x 1/2	1000	3
536-999	4 x 3/4	1000	6
537-001	5 x 5/8	1000	3
537-002	5 x 3/4	900	3
537-003	5 x 1	1000	2
537-005	6 x 1/2	1000	3
537-006	6 x 5/8	900	3
537-007	6 x 3/4	800	3
537-008	6 x 1	900	2
537-009	6 x 1-1/4	700	2
537-010	6 x 1-1/2	500	2
537-012	6 x 2	600	2
537-020	8 x 1/2	800	3
537-021	8 x 5/8	700	3
537-022	8 x 3/4	1000	2
537-023	8 x 1	750	2
537-024	8 x 1-1/4	600	4
537-051	10 x 4	150	2

Part #	Size	Jar Qty	Jars Per Rack
WOOD SCREWS			
537-024	8 x 1-1/4	600	4
537-025	8 x 1-1/2	600	4
537-026	8 x 1-3/4	500	2
537-027	8 x 2	400	2
537-028	8 x 2-1/2	250	4
537-029	8 x 3	150	2
537-030	8 x 3-1/2	150	2
537-032	8 x 2-1/4	350	2
537-042	10 x 3/4	850	2
537-043	10 x 1	900	2
537-044	10 x 1-1/4	600	2
537-045	10 x 1-1/2	450	2
537-046	10 x 1-3/4	400	2
537-047	10 x 2	400	2
537-049	10 x 2-1/2	250	2
537-050	10 x 3	150	2
537-051	10 x 4	150	2

Display and contents not exactly as shown.

paulin® FAST-FILL MERCHANDISERS

022-184 ANCHOR & SCREW MERCHANDISER

Part #	Size	Jar Qty	Jars Per Rack
FLAT HEAD SOCKET PARTICLE BOARD SCREWS			
537-078	8 x 1	750	2
537-080	8 x 1-1/4	600	2
537-081	8 x 1-1/2	600	2
537-082	8 x 1-3/4	500	2
537-083	8 x 2	400	2
537-084	8 x 2-1/2	250	2
537-085	8 x 3	150	2
RD HD WASHER SOCKET PARTICLE BOARD SCREWS			
537-450	8 x 1	500	2
537-452	8 x 1-1/4	400	2
537-453	8 x 1-1/2	300	2
536-454	8 x 1-3/4	200	2
536-455	8 x 2	300	2
537-457	8 x 2-1/2	175	2
537-459	8 x 3	125	2
PAN HEAD SOCKET METAL SCREWS			
537-102	6 x 3/4	1000	2
537-103	6 x 1	750	2
537-104	6 x 1-1/4	700	2
537-105	6 x 1-1/2	500	2
537-122	8 x 1/2	1000	2
537-123	8 x 5/8	1000	2
537-124	8 x 3/4	1000	2
537-125	8 x 1	700	2
537-126	8 x 1-1/4	500	2
537-127	8 x 1-1/2	500	2
537-142	10 x 3/4	750	2
537-143	10 x 1	500	2
537-144	10 x 1-1/4	500	2
537-145	10 x 1-1/2	400	2



Display and contents not exactly as shown.

paulin BOLT BIN ASSORTMENTS

These assortments include a set of bolt bin stock labels with space for inventory control or price tags. You can also purchase 'Papco®' bolt bins empty and make up your own custom assortments. As your requirements grow, you can add more bolt bins to store other fasteners and supplies.

022-021

PLATED GRADE 5 CAP SCREWS AND NUTS



72 Popular Sizes - Over 4,740 Pieces.

UNC Cap Screws		
Part #	Size	Qty
075-307	1/4 x 3/4	100
075-309	1/4 x 1	100
075-313	1/4 x 1-1/2	100
075-442	5/16 x 3/4	100
075-444	5/16 x 1	100
075-448	5/16 x 1-1/2	100
075-451	5/16 x 2	100
075-489	3/8 x 1	100
075-493	3/8 x 1-1/2	100
075-496	3/8 x 2	100
075-498	3/8 x 2-1/2	100
075-500	3/8 x 3	100
075-538	7/16 x 1-1/2	50
075-541	7/16 x 2	50
075-545	7/16 x 3	50
075-579	1/2 x 1	50
075-583	1/2 x 1-1/2	50
075-586	1/2 x 2	50
075-588	1/2 x 2-1/2	50
075-590	1/2 x 3	50
075-594	1/2 x 4	50
075-630	9/16 x 2	25
075-675	5/8 x 2	25
075-677	5/8 x 2-1/2	25
075-679	5/8 x 3	25
075-683	5/8 x 4	25
075-685	5/8 x 5	25

UNC Cap Screws		
Part #	Size	Qty
075-719	3/4 x 2-1/2	20
075-722	3/4 x 3-1/4	20
075-725	3/4 x 4	20
075-727	3/4 x 5	20
075-730	3/4 x 6	20
075-764	7/8 x 2-1/2	20
075-766	7/8 x 3	20
075-770	7/8 x 4	20
075-807	1 x 3	20
075-811	1 x 4	10

UNF Cap Screws		
Part #	Size	Qty
076-309	1/4 x 1	100
076-313	1/4 x 1-1/2	100
076-444	5/16 x 1	100
076-448	5/16 x 1-1/2	100
076-451	5/16 x 2	100
076-489	3/8 x 1	100
076-496	3/8 x 2	100
076-538*	7/16 x 1-1/2	50
076-586	1/2 x 2	50
076-590*	1/2 x 3	50
076-594*	1/2 x 4	50
076-630*	9/16 x 2	25
076-675*	5/8 x 2	25
076-679	5/8 x 3	25
076-683*	5/8 x 4	25
076-725	3/4 x 4	20

UNC Hex Nuts		
Part #	Size	Qty
087-014	1/4 - 20	300
087-016	5/16 - 18	200
087-018	3/8 - 16	200
087-020	7/16 - 14	50
087-022	1/2 - 13	50
087-023	9/16 - 12	25
087-024	5/8 - 11	25
087-026	3/4 - 10	20
087-028	7/8 - 9	20
087-030	1 - 8	20

UNF Hex Nuts		
Part #	Size	Qty
088-014	1/4 - 28	200
088-016	5/16 - 24	200
088-018	3/8 - 24	200
088-020	7/16 - 20	100
088-022	1/2 - 20	50
088-023*	9/16 - 18	25
088-024	5/8 - 18	25
088-026	3/4 - 16	20



022-021

Size: 36" W x 42" H x 12" D
Doors and Base are optional extras

022-022

GRADE 5 UNC CAP/SCREWS AND NUTS – ZINC PLATED



40 Popular Sizes - Over 4,000 Pieces.

UNC Cap Screws		
Part #	Size	Qty
075-307	1/4 x 3/4	100
075-309	1/4 x 1	100
075-313	1/4 x 1-1/2	100
075-442	5/16 x 3/4	100
075-444	5/16 x 1	100
075-448	5/16 x 1-1/2	100
075-489	3/8 x 1	200
075-493	3/8 x 1-1/2	200
075-496	3/8 x 2	200
075-538	7/16 x 1-1/2	100
075-583	1/2 x 1-1/2	100
075-586	1/2 x 2	100
075-588	1/2 x 2-1/2	100
075-627	9/16 x 1-1/2	25
075-630	9/16 x 2	25

UNC Cap Screws		
Part #	Size	Qty
075-675	5/8 x 2	25
075-679	5/8 x 3	25

UNF Cap Screws		
Part #	Size	Qty
076-309	1/4 x 1	100
076-313	1/4 x 1-1/2	100
076-442	5/16 x 3/4	100
076-444	5/16 x 1	200
076-448	5/16 x 1-1/2	100
076-489	3/8 x 1	100
076-493	3/8 x 1-1/2	100
076-496	3/8 x 2	100
076-538*	7/16 x 1-1/2	100
076-586	1/2 x 2	50
076-588*	1/2 x 2-1/2	50



022-022

Size: 36" W x 24" H x 12" D
Doors and base are optional extras

UNC Hex Nuts		
Part #	Size	Qty
087-014	1/4 - 20	200
087-016	5/16 - 18	100
087-018	3/8 - 16	100
087-020	7/16 - 14	100
087-022	1/2 - 13	100
087-023	9/16 - 12	50
087-024	5/8 - 11	25

UNF Hex Nuts		
Part #	Size	Qty
088-014	1/4 - 28	200
088-016	5/16 - 24	100
088-018	3/8 - 24	100
088-020	7/16 - 20	100
088-022	1/2 - 20	100

Display and contents not exactly as shown.

*Limited stock available. Subject to change without notification.

paulin AUTO-TECH STARTER ASSORTMENTS

022-600 **GRADE 5 BOLT ASSORTMENT** **– ZINC PLATED**

- 2380 pieces
- Bin included
- 1/4" - 1/2" Dia.



Hex Head Cap Screws GR 5 UNC		
Part #	Size	Qty
075-307	1/4 x 3/4	100
075-309	1/4 x 1	100
075-311	1/4 x 1-1/4	100
075-313	1/4 x 1-1/2	50
075-316	1/4 x 2	50
075-442	5/16 x 3/4	100
075-444	5/16 x 1	100
075-446	5/16 x 1-1/4	100
075-448	5/16 x 1-1/2	50
075-451	5/16 x 2	50
075-487	3/8 x 3/4	50
075-489	3/8 x 1	50
075-493	3/8 x 1-1/2	50
075-496	3/8 x 2	50
075-498	3/8 x 2-1/2	50
075-534	7/16 x 1	25
075-538	7/16 x 1-1/2	25
075-541	7/16 x 2	10
075-543	7/16 x 2-1/2	10
075-545	7/16 x 3	10
075-583	1/2 x 1-1/2	10
075-586	1/2 x 2	10
075-588	1/2 x 2-1/2	10
075-590	1/2 x 3	10
075-594	1/2 x 4	10

Finished Hex Nuts GR 5 UNC		
Part #	Size	Qty
087-014	1/4 - 20	100
087-016	5/16 - 18	100
087-018	3/8 - 16	100
087-020	7/16 - 14	50
087-022	1/2 - 13	50

B.S.S.A.E. Steel Washers		
Part #	Size	Qty
154-014	1/4	100
154-016	5/16	100
154-018	3/8	100
154-020	7/16	50
154-022	1/2	50

Spring Lock Washers		
Part #	Size	Qty
157-014	1/4	100
157-016	5/16	100
157-018	3/8	100
157-020	7/16	50
157-022	1/2	50

40 Compartment Bolt Bin w/Labels		
022-017	-	1

022-602 **GRADE 8.8 METRIC BOLT** **ASSORTMENT - ZINC PLATED**

- 2150 pieces
- Bin included
- 5 mm - 12 mm Dia.



8.8 Metric Hex Head Cap Screws		
Part #	Size	Qty
608-198	M5 x 12	50
608-201	M5 x 16	50
608-203	M5 x 20	50
608-205	M5 x 25	50
608-267	M6 x 12	50
608-270	M6 x 16	50
608-272	M6 x 20	50
608-274	M6 x 25	50
608-276	M6 x 30	50
608-314	M8 x 16	50
608-316	M8 x 20	50
608-318	M8 x 25	50
608-320	M8 x 30	50
608-322	M8 x 40	50
608-366	M10 x 20	25
608-368	M10 x 25	25
608-370	M10 x 30	25
608-372	M10 x 40	25
608-374	M10 x 50	25
608-412	M12 x 25	25
608-414	M12 x 30	25
608-415	M12 x 35	25
608-416	M12 x 40	25
608-418	M12 x 50	25

8 Metric Hex Nuts (Coarse)		
Part #	Size	Qty
670-005	M5 - 0.80	100
670-006	M6 - 1.00	100
670-008	M8 - 1.25	100
670-010	M10 - 1.50	50
670-012	M12 - 1.75	50

8 Metric Flat Washers		
Part #	Size	Qty
730-005	5 mm	100
730-006	6 mm	100
730-008	8 mm	100
730-010	10 mm	50
730-012	12 mm	50

8 Metric Lock Washers		
Part #	Size	Qty
740-005	5 mm	100
740-006	6 mm	100
740-008	8 mm	100
740-010	10 mm	50
740-012	12 mm	50

40 Compartment Bolt Bin w/Labels		
022-017	-	1

PRODUCT REFILL ASSORTMENTS

- Includes stock & labels
- Bins not included

022-600R

022-602R

Display and contents not exactly as shown.

022KIT-01



**GRADE 5 UNC PLATED
FARM PACK ASSORTMENT**

Size	Qty	Size	Qty	Size	Qty	Size	Qty
1/4 x 1/2	25	5/16 x 2-1/2	25	1/2 x 1	10	5/8 x 2-1/2	10
1/4 x 1	25	3/8 x 3/4	25	1/2 x 1-1/2	10	5/8 x 3	10
1/4 x 1-1/2	25	3/8 x 1	25	1/2 x 2	10	5/8 x 4	10
1/4 x 2	25	3/8 x 1-1/2	25	1/2 x 2-1/2	10	3/4 x 1-1/2	5
5/16 x 3/4	25	3/8 x 2	25	1/2 x 3	10	3/4 x 2	5
5/16 x 1	25	3/8 x 2-1/2	25	1/2 x 4	10	3/4 x 2-1/2	5
5/16 x 1-1/2	25	3/8 x 3	25	5/8 x 1-1/2	10	3/8 x 3	5
5/16 x 2	25	3/8 x 4	25	5/8 x 2	10	3/8 x 4	5

Size	Qty	Nuts	Qty	Lockwashers	Qty	Flat Washers
1/4	200		200		200	
5/16	200		200		200	
3/8	200		200		200	
1/2	50		50		50	
5/8	25		25		25	
3/4	20		20		20	



022KIT-01
Contains 2,620 pcs.
42" H x 36" W x 12" D
Base not included

022KIT-02



**METRIC 8.8 BOLT & NUT
ASSORTMENT – ZINC PLATED**

Size	Qty	Size	Qty	Size	Qty	Size	Qty
M6 x 12	100	M8 x 60	25	M12 x 25	25	M16 x 60	10
M6 x 25	100	M10 x 20	25	M12 x 35	25	M16 x 70	10
M6 x 35	25	M10 x 25	50	M12 x 50	25	M16 x 100	10
M6 x 50	25	M10 x 35	50	M12 x 60	25	M20 x 40	5
M8 x 20	100	M10 x 50	25	M12 x 70	25	M20 x 50	5
M8 x 25	100	M10 x 60	25	M12 x 100	10	M20 x 60	5
M8 x 35	25	M10 x 70	25	M16 x 35	10	M20 x 70	5
M8 x 50	100	M10 x 100	10	M16 x 50	10	M20 x 100	5

Size	Qty	Nuts	Qty	Lockwashers	Qty	Flat Washers
M6	200		200		200	
M8	300		200		200	
M10	200		200		200	
M12	50		100		100	
M16	25		25		25	
M20	20		25		25	



022KIT-02
Contains 3,315 pcs.
42" H x 36" W x 12" D
Base not included

PRODUCT REFILL ASSORTMENTS

- Includes stock & labels
- Bins not included

022KIT-01R

022KIT-02R

022KIT-03R

022KIT-08R

Display and contents not exactly as shown.

papco BRAKE / FUEL LINE REPAIR CENTER

022-550

THE EVOLUTION OF FUEL LINE REPAIR

Our 'No Tools Required' Fuel Line Repair system now enables the installer to utilize their most valuable tools: their hands.

A comprehensive application manual will be included with the Brake/Fuel Line Repair Center.



Features & Benefits



Innovative

'Posi-Hold' bead end design enables the installer to connect fittings by hand. No costly installation tools are required and the nylon tubing does not require pre-heating.

Connections

It meet or exceed the 200 p.s.i. rating of Nylon 12 tubing when used in conjunction with the appropriate size tubing and 360° seal clamps.

Replace

For the damaged sections, fabricate complete fuel lines, repair main feed, return and vent fuel lines in the time it takes to set up most installation tools.

POLY-V Coated Brake Lines

Included in the Brake/Fuel Line Repair Center, Papcoflex **POLY-V** coated brake lines feature a durable polyvinyl fluoride finish that resists corrosion and abrasions from road debris, offering up to 30 times the protection over our standard steel brake line.

To complement this premium brake line, all related brake line fittings, adaptors, unions, and bleeder screws will be offered in the Brake/Fuel line Repair Center providing one destination point for your customers. POP signage will also outline the correct size, thread type and the correct adaptors/unions for each brake line diameter.



Please contact your sales representative for details.

Display and contents not exactly as shown.

papco® EMPTY CABINETS AND STORAGE

Papco® Stax-Six Cabinet holds six Master Assortments in its own rigid drawer slide. Made of heavy gauge steel with a baked-on enamel finish.

Size: 15-1/2" H x 11-3/4" D.

022-091 STAX-SIX CABINET (EMPTY)

- Heavy gauge steel construction
- Baked black enamel finish
- Rigid drawer slide
- No spill feature
- Holds six Master Assortments
- Build as you buy
- Designed for efficient stacking one on top of another side by side. (Not illustrated)



Assortments or
Assortment Drawers
NOT included.

Perfect for Dealers, Jobbers and large users. These popular assortments have a wide range of carefully selected items in balanced quantities.

022-093 STAX-FOUR CABINET (EMPTY)

- Easy Papco® Stax-Four Cabinet holds four Super-Service Assortments
- Welded steel construction
- Rigid drawer slide
- Baked black enamel finish
- Holds six Master Assortments
- No-spill safety feature
- Size: 20" W x 14-1/2" H x 15-3/4" D



Assortments or
Assortment Drawers
NOT included.

Display and contents not exactly as shown.

papco BOLT-N-NUT CABINET

022-086*

BOLT-N-NUT CABINET (EMPTY)

The Papco® Bolt-n-Nut Cabinet was developed for Service Stations, Garages, Car Dealers, Body Shops and many other fastener users. Each compact space-saving cabinet features:

- All steel construction
- 18 man-size, no-spill drawers (11-1/4" L x 5-15/32" W x 3-3/16" D)
- Colour-coded labels for ease of identification
- Full width handles
- Multi-divisible drawers for future additions
- Optional steel drawer dividers No. 022-088. Standard package contains 12 dividers
- Can be mounted on bench or placed in a standard three foot shelf



Size: 33-13/16" W x 12-5/16" H x 10-7/8" D

papco EMPTY BRAKE LINE RACKS

- For 3/16" and 1/4" Dia. Brake Lines

022-077MA

METRIC BRAKE AND FUEL LINE DOMESTIC/EUROPEAN

022-077MT

METRIC BRAKE AND FUEL LINE TOYOTA/GM

022-077AL

BRAKE LINE ADAPTOR LINES (STANDARD AND METRIC)

022-077

BRAKE LINE RACK (EMPTY)



*Limited stock available. Subject to change without notification.

papeo™ PLASTIC ASSORTMENT KITS

- Sealed cover molded with the base to prevent part migration
- Temperature resistant nylon
- Two-part handle to prevent accidental opening
- Coin-bottom compartments for easy access
- Product Identification chart available inside the case

021-599* ASSORTMENT BOX (EMPTY)



021-605* WOOD SCREW ORGANIZER

- 530 / PK
- #6-10



021-610* BOLT-N-NUT ORGANIZER

- 529 / PK
- 1/4-3/8



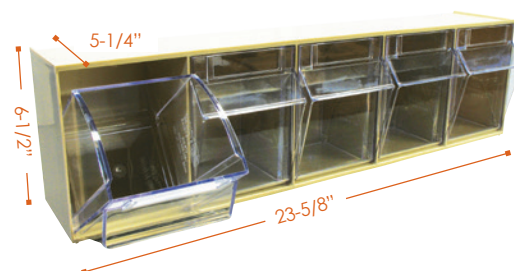
papeo™ STORAGE TILT BINS

Clear, plastic tilt-out bins in a stackable plastic cabinet.

ORDER BY STOCK NUMBER

Part #	Description	W	D	H
022-253*	3 Compartment Tilt-Bin	23-5/8	7-3/4	9-1/2
022-254	4 Compartment Tilt-Bin	23-5/8	6-5/8	8-1/8
022-255	5 Compartment Tilt-Bin	23-5/8	5-1/4	6-1/2
022-256	6 Compartment Tilt-Bin	23-5/8	3-5/8	4-1/2
022-259	9 Compartment Tilt-Bin	23-5/8	2-1/2	3-5/16

022-255



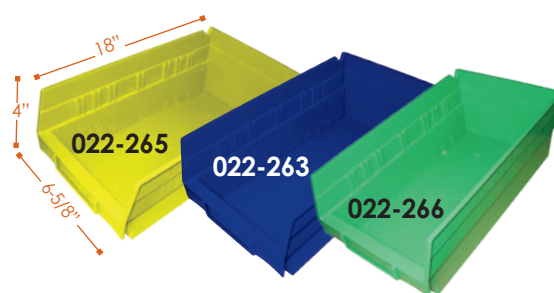
papeo™ STORAGE BULK BINS

Durable Polypropylene, coloured bins are stackable and can be divided to hold more than one part.

ORDER BY STOCK NUMBER

Standard Package 12 Bins

Part #	Colour	W	D	H
022-263	Blue	6-5/8	18	4
022-264	Red	6-5/8	18	4
022-265	Yellow	6-5/8	18	4
022-266*	Green	6-5/8	18	4
022-267	Orange	6-5/8	18	4
022-268	Blue	6-5/8	11-5/8	4
022-269	Red	6-5/8	11-5/8	4
022-270*	Yellow	6-5/8	11-5/8	4
022-271	Black	Bin dividers		



Display and contents not exactly as shown.

*Limited stock available. Subject to change without notification.

paulin® THREAD DETECTIVE® - IMPERIAL/METRIC

022-185

- This Thread Detective is an easy and precise thread identifier for both nuts and bolts, consisting of gliding gauges conveniently assembled onto a wire lanyard
- It is well suited for distinguishing between similar inch and metric threads
- Thread sizes are stamped onto each gauge and are coated with a PVC shrink tubing ensuring numbers will never rub off
- Thread Detective® is equipped with a 3-3/8" (85 mm) ruler for measuring stud lengths
- It is convenient extra long rope for those hard to reach places, as well as loops on each end for hanging

Inch identifiers consist of nut and bolt sizes

6-32, 8-32, 10-24, 10-32, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13 and 1/2-20.

Metric identifiers consist of nut and bolt sizes

M4 x 0.7, M5 x 0.8, M6 x 1.0, M8 x 1.0, M8 x 1.25, M10 x 1.0, M10 x 1.25, M10 x 1.5, M12 x 1.25, M12 x 1.5 and M12 x 1.75.



Display and contents not exactly as shown.

HANDY-PAKS®

Papco® Handy-Paks are the most modern method of stocking fasteners. They contain the most popular sizes of Bolts, Nuts, Screws and Washers as well as the best sizes of replacement parts to give maximum coverage.

022-069 MERCHANDISER RACK (EMPTY)

Uniform Priced Packages of Fast-Moving Hardware Items

- All Bright Plated Material
- No Broken Boxes
- Good For Regular Stock
- Ideal For Assortment Refills
- Best Value
- Fully Illustrated, Colour-Coded Labels



Display and contents not exactly as shown.

papco® HANDY-PAKS® MERCHANDISERS

HANDY-PAKS®

- Sturdy, Heavy gauge, reinforced steel
- Use on work bench or hang on wall
- Colourful - durable - Efficient
- Handy bolt measuring gauge included

Note: Empty Metal Merchandiser Rack No. 022-070 available to make up your own Merchandiser of any 35 Papco® Handy-Paks®.



18-1/2" W x 14-3/4" H

022-061 PLATED FASTENERS MERCHANDISER

ORDER BY STOCK NUMBER

Part #		Size	Part #		Size	Part #		Size	Part #		Size
Plated Grade 5 Cap Screws			Hex Nuts			Lock Washers			Cotter Pins		
UNC	UNF		UNC	UNF							
023-003	023-103	1/4 x 3/4	023-201	023-221	1/4	023-343	1/4		023-709	3/32 x 1	
023-005	023-105	1/4 x 1	023-202	023-222	5/16	023-344	5/16		023-716	1/8 x 2	
023-007	023-107	1/4 x 1-1/2	023-203	023-223	3/8	023-345	3/8		-	-	
023-016	023-116	5/16 x 3/4	-	-	-	S.A.E. Washers			R.H. Stove Bolts		
023-020	023-120	5/16 x 1-1/2	-	-	-	023-323	1/4		023-503	3/16 x 1	
023-031	023-131	3/8 x 1	-	-	-	023-324	5/16		023-511	1/4 x 3/4	
023-033	023-133	3/8 x 1-1/2	-	-	-	023-325	3/8		023-512	1/4 x 1	
023-035	023-135	3/8 x 2	-	-	-	-	-		-	-	

022-063 PLATED BODY SHOP FASTENERS MERCHANDISER

ORDER BY STOCK NUMBER

Part #	Size	Part #	Size	Part #	Size	Part #	Size	Part #	Size
Tapping Screws Pan Head		Tapping Screws Oval Head		Tapping Screws Oval Phillips Head		Machine Screws Round Head		Hex Nuts	
023-604*	6 x 3/8	023-635*	6 x 1/2	023-696*	6 x 3/4	023-412*	8-32 x 1	023-460*	6-32
023-605	6 x 1/2	023-644*	8 x 3/4	023-687*	8 x 3/4	023-419*	10-32 x 1	023-461*	8-32
023-612	8 x 1/2	023-649*	10 x 3/4	023-692*	8 x 1-1/2	Machine Screws Oval Head		023-462*	10-32
023-614	8 x 3/4	-	-	023-694*	10 x 1	023-433	6-32 x 1/2	-	-
023-618	10 x 1/2	Tapping Screws Hex Head		Machine Screws Round Head		023-440	8-32 x 1/2	-	-
023-619	10 x 3/4	023-665	8 x 1/2	023-403*	6-32 x 1/2	023-442	8-32 x 1	-	-
023-621	10 x 1	023-668	10 x 5/8	023-405*	6-32 x 1	023-449	10-32 x 1	Fender Washers	
023-629*	14 x 1	023-673	14 x 3/4	023-410*	8-32 x 1/2	-	-	023-395*	1/4
-	-	023-675	14 x 1	-	-	-	-	023-396*	5/16
-	-	023-677	5/16 x 1	-	-	-	-	023-397*	5/16L

022-064 PLATED CAP SCREWS AND NUTS MERCHANDISER

ORDER BY STOCK NUMBER

Part #		Size	Part #		Size	Part #		Size
Plated Grade 5 Cap Screws			Plated Grade 5 Cap Screws			Hex Nuts		
UNC	UNF		UNC	UNF		UNC	UNF	
023-003	023-103	1/4 x 3/4	023-035	023-135	3/8 x 2	023-201	023-221	1/4
023-005	023-105	1/4 x 1	023-044	023-144	7/16 x 1-1/2	023-202	023-222	5/16
023-007	023-107	1/4 x 1-1/2	023-055	023-155	1/2 x 1-1/2	023-203	023-223	3/8
023-016	023-116	5/16 x 3/4	023-057	023-157	1/2 x 2	023-204	023-224	7/16
023-018	023-118	5/16 x 1	023-059	023-159	1/2 x 2-1/2	023-205	023-225	1/2
023-020	023-120	5/16 x 1-1/2	-	-	-	-	-	-
023-031	023-131	3/8 x 1	-	-	-	-	-	-
023-033	023-133	3/8 x 1-1/2	-	-	-	-	-	-

*Limited stock available. Subject to change without notification.

Display and contents not exactly as shown.

HANDY-PAKS®

022-067

Contains 792 Handy-Paks®, rack and sign, 132 sizes of Cap Screws, Nuts, Washers, Cotter Pins, Stove Bolts, etc.

Uniform Priced Packages of Fast-Moving Hardware Items

- All Bright Plated Material
- No Broken Boxes
- Good for Regular Stock
- Ideal for Assortment Refills
- Best Value
- Fully Illustrated, Colour-Coded Labels

Papco® Handy-Paks are the most modern method of stocking fasteners. They contain the most popular sizes of Bolts, Nuts, Screws and Washers as well as the best sizes of replacement parts to give maximum coverage.



MERCHANDISER CONTENTS

ORDER BY STOCK NUMBER

Part #	Size	Qty.	Part #	Size	Qty.	Part #	Size	Qty.	Part #	Size	Qty.
UNF Grade 5 Cap Screws			UNC Grade 5 Cap Screws			UNC Hex Nuts			023-307		
023-101	1/4 x 1/2	6	023-018	5/16 x 1	12	023-203	3/8	12	023-309	5/8	6
023-103	1/4 x 3/4	6	023-019	5/16 x 1-1/4	6	023-204	7/16	12	Cotter Pins		
023-105	1/4 x 1	6	023-020	5/16 x 1-1/2	12	023-205	1/2	6	023-703	1/16 x 1	6
023-107	1/4 x 1-1/2	6	023-022	5/16 x 2	6	023-207	5/8	6	023-705	1/16 x 1-1/2	6
023-109	1/4 x 2	6	023-029	3/8 x 3/4	6	Round Head Stove Bolts			023-709	3/32 x 1	6
023-116	5/16 x 3/4	6	023-031	3/8 x 1	12	023-502*	3/16 x 3/4	6	023-710	3/32 x 1-1/4	6
023-118	5/16 x 1	12	023-032	3/8 x 1-1/4	12	023-503	3/16 x 1	6	023-711	3/32 x 1-1/2	6
023-119	5/16 x 1-1/4	6	023-033	3/8 x 1-1/2	12	023-505	3/16 x 1-1/2	6	023-715	1/8 x 1	6
023-120	5/16 x 1-1/2	6	023-035	3/8 x 2	12	023-511	1/4 x 3/4	6	023-716	1/8 x 1-1/4	6
023-122	5/16 x 2	6	023-037	3/8 x 2-1/2	6	023-512	1/4 x 1	6	023-717	1/8 x 1-1/2	12
023-131	3/8 x 1	6	023-042	7/16 x 1	6	Lock Washers			023-718	1/8 x 2	12
023-132	3/8 x 1-1/4	6	023-043	7/16 x 1-1/4	6	023-342	3/16	6	023-722	5/32 x 1-1/2	6
023-133	3/8 x 1-1/2	6	023-044	7/16 x 1-1/2	6	023-343	1/4	6	023-723	5/32 x 2	6
023-135	3/8 x 2	6	023-046	7/16 x 2	6	023-344	5/16	12	Hex Machine Screw Nuts		
023-137	3/8 x 2-1/2	6	023-048	7/16 x 2-1/2	6	023-345	3/8	12	023-462*	10-32	6
023-144	7/16 x 1-1/2	6	023-053	1/2 x 1	6	023-346	7/16	6	Pan Head Sheet Metal Screws		
023-146	7/16 x 2	6	023-054	1/2 x 1-1/4	6	023-347	1/2	6	023-605	6 x 1/2	6
023-153	1/2 x 1	6	023-055	1/2 x 1-1/2	6	023-349	5/8	6	023-612	8 x 1/2	6
023-155	1/2 x 1-1/2	6	023-057	1/2 x 2	6	S.A.E. Washers			023-614	8 x 3/4	6
023-157	1/2 x 2	6	023-059	1/2 x 2-1/2	6	023-323	1/4	12	023-616	8 x 1	6
023-159	1/2 x 2-1/2	6	UNF Hex Nuts			023-324	5/16	12	023-618	10 x 1/2	6
UNC Grade 5 Cap Screws			023-221	1/4	12	023-325	3/8	12	023-619	10 x 3/4	6
023-001	1/4 x 1/2	6	023-222	5/16	12	023-326	7/16	6	023-621	10 x 1	6
023-003	1/4 x 3/4	12	023-223	3/8	12	023-327	1/2	6	023-628*	14 x 3/4	6
023-005	1/4 x 1	6	023-224	7/16	6	Plain Steel Washers			023-629*	14 x 1	6
023-006	1/4 x 1-1/4	6	023-225	1/2	6	023-302	3/16	6	Oval Head Sheet Metal Screws		
023-007	1/4 x 1-1/2	6	023-227	5/8	6	023-303	1/4	6	023-651*	10 x 1	6
023-009	1/4 x 2	6	UNC Hex Nuts			023-304	5/16	6	Hex Head Sheet Metal Screws		
023-014	5/16 x 1/2	6	023-201	1/4	12	023-305	3/8	6	023-673	14 x 3/4	6
023-016	5/16 x 3/4	12	023-202	5/16	12	023-306	7/16	6	023-677	5/16 x 1	6

Display and contents not exactly as shown.

*Limited stock available. Subject to change without notification.

023
Series

papco

HANDY-PAKS®

Papco® Handy-Paks® contain Grade 5 Medium Carbon Heat Treated Cap Screws. The higher strength and toughness of these fasteners is needed in vehicle repair work. All Handy-Paks® are bright plated for improved rust resistance and longer life.

ORDER BY STOCK NUMBER

Grade 5 Hexagon Head Cap Screws						Double Heat Treated		
Coarse Thread	Fine Thread	Size	Coarse Thread	Fine Thread	Size	Coarse Thread	Fine Thread	Size
023-001	023-101	1/4 x 1/2	023-022	023-122	5/16 x 2	023-045	023-145	7/16 x 1-3/4
023-003	023-103	1/4 x 3/4	023-024	023-124	5/16 x 2-1/2	023-046	023-146	7/16 x 2
023-005	023-105	1/4 x 1	023-025	023-125	5/16 x 3	023-048	023-148	7/16 x 2-1/2
023-006	023-106	1/4 x 1-1/4	023-029	023-129	3/8 x 3/4	023-049	023-149	7/16 x 3
023-007	023-107	1/4 x 1-1/2	023-031	023-131	3/8 x 1	023-053	023-153	1/2 x 1
023-008	023-108	1/4 x 1-3/4	023-032	023-132	3/8 x 1-1/4	023-054	023-154	1/2 x 1-1/4
023-009	023-109	1/4 x 2	023-033	023-133	3/8 x 1-1/2	023-055	023-155	1/2 x 1-1/2
023-011	023-111	1/4 x 2-1/2	023-034	023-134	3/8 x 1-3/4	023-056	023-156	1/2 x 1-3/4
023-012	023-112	1/4 x 3	023-035	023-135	3/8 x 2	023-057	023-157	1/2 x 2
023-014	023-114	5/16 x 1/2	023-037	023-137	3/8 x 2-1/2	023-059	023-159	1/2 x 2-1/2
023-016	023-116	5/16 x 3/4	023-038	023-138	3/8 x 3	023-060	023-160	1/2 x 3
023-018	023-118	5/16 x 1	023-042	023-142	7/16 x 1	023-074	023-174	5/8 x 1-1/2
023-019	023-119	5/16 x 1-1/4	023-043	023-143	7/16 x 1-1/4	023-076	023-176	5/8 x 2
023-020	023-120	5/16 x 1-1/2	023-044	023-144	7/16 x 1-1/2	023-078	-	-
023-021	023-121	5/16 x 1-3/4	-	-	-	-	-	-

ORDER BY STOCK NUMBER

Hexagon Nuts			Pozi-Lok® Stop			Wing Nuts	
Finished			UNC Coarse Thread			UNC Coarse Thread	
Coarse Thread	Fine Thread	Size	Coarse Thread	Fine Thread	Size	Part #	Size
023-201	023-221	1/4	023-244	023-254	1/4	023-265	5/16-18
023-202	023-222	5/16	023-245	023-255	5/16	023-266	3/8-16
023-203	023-223	3/8	023-246	023-256	3/8	-	-
023-204	023-224	7/16	023-247	023-257	7/16	-	-
023-205	023-225	1/2	023-248	023-258	1/2	-	-
023-206	023-226	9/16	-	-	-	-	-
023-207	023-227	5/8	-	-	-	-	-
023-208	023-228	3/4	-	-	-	-	-

ORDER BY STOCK NUMBER

Plain Steel Washers					
Part #	Size	Part #	Size	Part #	Size
023-302	3/16	023-305	3/8	023-308	9/16
023-303	1/4	023-306	7/16	023-309	5/8
023-304	5/16	023-307	1/2	023-310	3/4
S. A. E. Washers					
023-322	3/16	023-325	3/8	023-328	9/16
023-323	1/4	023-326	7/16	023-329	5/8
023-324	5/16	023-327	1/2	023-330	3/4
Spring Lock Washers					
023-342	3/16	023-345	3/8	023-349	5/8
023-343	1/4	023-346	7/16	023-350	3/4
023-344	5/16	023-347	1/2	-	-
Countersunk Finishing Washers					
023-381*	#6	023-385*	#8	023-389*	1/4
023-383*	#8	-	-	-	-
Fender Washers					
023-395*	1/4 x 1-1/4 O.D.	023-397*	5/16 x 1-1/4	023-398*	3/8 x 1-1/2
023-396*	5/16 x 1	-	-	-	-

Note: Handy-Paks® contents are based on Dealer Prices currently in effect and are subject to change.

*Limited stock available. Subject to change without notification.

ORDER BY STOCK NUMBER

Machine Screws and Nuts								
Round	Oval	Size	Round	Oval	Size	Round	Oval	Size
023-403*	023-433*	6-32 x 1/2	023-412*	023-422	8-32 x 1	023-424	-	1/4-20 x 3/4
023-404*	-	6-32 x 3/4	023-414*	023-444*	8-32 x 1-1/2	023-425	023-455	1/4-20 x 1
023-405*	023-435*	6-32 x 1	023-417*	023-447*	10-32 x 1/2			
023-406*	-	6-32 x 1-1/4	023-418*	023-448*	10-32 x 3/4			
023-407*	-	6-32 x 1-1/2	023-419*	023-449*	10-32 x 1	Part No.		Size
023-409*	023-439*	8-32 x 3/8	023-420*	-	10-32 x 1-1/4	023-460*		6-32
023-410*	023-440*	8-32 x 1/2	023-421*	023-451*	10-32 x 1-1/2	023-461*		8-32
023-411*	023-441*	8-32 x 3/4	-	-	-	023-462		10-32
						023-463*		1/4-20

Round Head Stove Bolts					
Part #	Size	Part #	Size	Part #	Size
023-501*	3/16 x 1/2	023-505*	3/16 x 1-1/2	023-512	1/4 x 1
023-502*	3/16 x 3/4	023-507*	3/16 x 2	023-513*	1/4 x 1-1/4
023-503	3/16 x 1	023-510*	1/4 x 1/2	023-514*	1/4 x 1-1/2
023-504*	3/16 x 1-1/4	023-511	1/4 x 3/4	023-516*	1/4 x 2

Sheet Metal Screws							
Pan	Oval	Size	Pan	Oval	Size	Hex	Size
023-602*	-	4 x 1/2	023-616	023-646*	8 x 1	023-665	8 x 1/2
023-604*	-	6 x 3/8	023-618	023-648*	10 x 1/2	023-667	10 x 1/2
023-605	023-635*	6 x 1/2	023-619	023-649*	10 x 3/4	023-668	10 x 5/8
023-607*	023-637*	6 x 3/4	023-621	023-651*	10 x 1	023-669	10 x 3/4
023-609*	023-639*	6 x 1	023-622*	023-652*	10 x 1-1/4	023-671	14 x 1/2
023-611*	-	8 x 3/8	023-628*	023-658*	14 x 3/4	023-673	14 x 3/4
023-612	023-642*	8 x 1/2	023-629*	023-659*	14 x 1	023-675	14 x 1
023-614	023-644*	8 x 3/4	-	-	-	023-677	5/16 x 1
-	-	-	-	-	-	023-679	3/8 x 1
Oval Phillips Small		Size	Oval Phillips Small		Size	Oval Phillips Regular	Size
023-685		8 x 1/2	023-692		8 x 1-1/2	023-696*	6 x 3/4
023-687		8 x 3/4	023-694		10 x 1	023-698*	8 x 3/4
023-689		8 x 1	-		-	-	-

Cotter Pins					
Part #	Size	Part #	Size	Part #	Size
023-702	1/16 x 3/4	023-709	3/32 x 1	023-717	1/8 x 1-1/2
023-703	1/16 x 1	023-710	3/32 x 1-1/4	023-718	1/8 x 2
023-705	1/16 x 1-1/2	023-711	3/32 x 1-1/2	023-722	5/32 x 1-1/2
023-707	3/32 x 1/2	023-715	1/8 x 1	023-723	5/32 x 2
023-708	3/32 x 3/4	023-716	1/8 x 1-1/4	-	-

Note: Handy-Paks® contents are based on Dealer Prices currently in effect and are subject to change.

INVERTED DRAWER BOX

- Upside-down design converts to double strength drawer
- Drawer pull for easy access
- Heavy weight fibreboard



Convenient Six-Pak trays

Display and contents not exactly as shown.

*Limited stock available. Subject to change without notification.

024
Series

paulin® METRIC HANDY-PAKS® MERCHANDISERS

HANDY-PAKS® are uniformed priced packages of fast moving hardware items. They contain the most popular sizes of bolts, nuts, screws and washers as well as the best sizes of replacement parts to give maximum coverage.

HANDY-PAKS®

- All Bright Plated Material
- No Broken Boxes
- Good For Regular Stock
- Ideal For Assortment Refills
- Best Value
- Fully Illustrated, Colour-Coded Labels



022-062

METRIC ISO FINE THREAD MERCHANDISER

35 sizes of Metric Fine and Extra Fine Cap Screws, Nuts and Lock Washers.

CAP SCREWS (FINE THREAD)		
Part #	Size	Qty
024-120	M8 x 20	7
024-122	M8 x 30	7
024-124	M8 x 40	6
024-126	M8 x 50	5
024-130	M10 x 20	4
024-131	M10 x 25	3
024-132	M10 x 30	3
024-134	M10 x 40	3
024-136	M10 x 50	3
024-138	M10 x 60	2
024-144	M12 x 30	3
024-146	M12 x 40	2
024-148	M12 x 50	2

CAP SCREWS (EXTRA FINE THREAD)		
Part #	Size	Qty
024-170	M10 x 20	4
024-171	M10 x 25	3
024-172	M10 x 30	3
024-174	M10 x 40	3
024-176	M10 x 50	3
024-184	M12 x 30	2
024-186	M12 x 40	2
024-188	M12 x 50	2

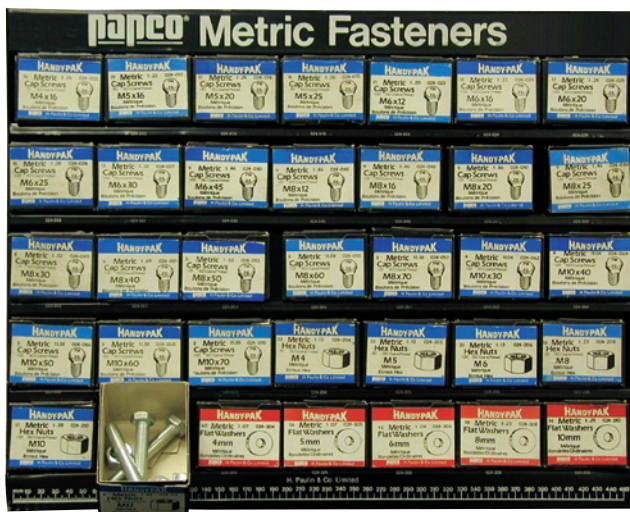
HEX NUTS (FINE THREAD)		
Part #	Size	Qty
024-258	M8 x 1.00	-
024-260	M10 x 1.25	-
024-262	M12 x 1.5	-

NUTS (EXTRA FINE THREAD)		
Part #	Size	Qty
024-270	M10 x 1.00	-
024-272	M12 x 1.25	-

LOCK WASHERS		
Part #	Size	Qty
024-324	4 mm	-
024-325	5 mm	-
024-326	6 mm	-
024-328	8 mm	-
024-330	10 mm	-
024-332	12 mm	-

Contains 436 pcs, includes merchandiser

Display and contents not exactly as shown.



14-3/4" H x 18-1/2" W

HANDY-PAKS® Merchandiser included in:

022-062/022-065

- Sturdy, heavy gauge, reinforced steel cabinet
- Use on work bench or hang on wall

022-065

METRIC ISO COARSE THREAD MERCHANDISER

35 best sizes of Metric Coarse Thread Cap Screws, Nuts and Washers.

CAP SCREWS (ISO COARSE THREAD)		
Part #	Size	Qty
024-002	M4 x 16	16
024-013	M5 x 16	19
024-014	M5 x 20	17
024-015	M5 x 25	16
024-023	M6 x 12	21
024-024	M6 x 16	18
024-025	M6 x 20	17
024-026	M6 x 25	15
024-027	M6 x 30	13
024-030	M6 x 45	9
024-045	M8 x 12	9
024-046	M8 x 16	9
024-047	M8 x 20	9
024-048	M8 x 25	9
024-049	M8 x 30	8
024-051	M8 x 40	6
024-053	M8 x 50	5
024-055	M8 x 60	4
024-057	M8 x 70	3
024-062	M10 x 30	4
024-064	M10 x 40	4
024-066	M10 x 50	3
024-068	M10 x 60	3
024-070	M10 x 70	3

FLAT WASHERS		
Part #	Size	Qty
024-304	4 mm	60
024-305	5 mm	56
024-306	6 mm	45
024-308	8 mm	18
024-310	10 mm	14

HEX NUTS (COARSE THREAD)		
Part #	Size	Qty
024-204	M4	33
024-205	M5	33
024-206	M6	33
024-208	M8	18
024-210	M10	11
024-212	M12	6
Contains 567 pcs, includes merchandiser		

Display and contents not exactly as shown.

paulin® METRIC HANDY-PAKS®

022-068

CAP SCREWS (ISO COARSE)			
Part #	Size	Pcs/Pk	Packs
024-002	M4 x 16	16	2
024-004	M4 x 25	11	2
024-012	M5 x 12	25	2
024-013	M5 x 16	19	2
024-014	M5 x 20	17	2
024-015	M5 x 25	16	2
024-023	M6 x 12	21	2
024-024	M6 x 16	18	4
024-025	M6 x 20	17	8
024-026	M6 x 25	15	8
024-027	M6 x 30	13	4
024-028	M6 x 35	10	4
024-029	M6 x 40	10	4
024-030	M6 x 45	9	2
024-031	M6 x 50	9	2
024-045	M8 x 12	9	2
024-046	M8 x 16	9	4
024-047	M8 x 20	9	8
024-048	M8 x 25	9	8
024-049	M8 x 30	8	4
024-050	M8 x 35	7	4
024-051	M8 x 40	6	4
024-052	M8 x 45	5	2
024-053	M8 x 50	5	4
024-055	M8 x 60	4	2
024-057	M8 x 70	3	2
024-060	M10 x 20	5	4
024-061	M10 x 25	4	8
024-062	M10 x 30	4	8
024-063	M10 x 35	4	4
024-064	M10 x 40	4	4
024-066	M10 x 50	3	4
024-068	M10 x 60	3	2
024-070	M10 x 70	3	2
024-075	M12 x 30	3	3
024-077	M12 x 40	3	3
024-079	M12 x 50	3	3
024-081	M12 x 60	2	2
024-083	M12 x 70	2	2

CAP SCREWS (EXTRA FINE)			
Part #	Size	Pcs/Pk	Packs
024-170	M10 x 20	4	2
024-171	M10 x 25	3	2
024-172	M10 x 30	3	2
024-174	M10 x 40	3	2
024-176	M10 x 50	3	2
024-184	M12 x 30	2	2
024-186	M12 x 40	2	2
024-188	M12 x 50	2	2

- Assortment contains 310 HANDY-PAKS®, 95 sizes of our most popular 8.8 Metric Cap Screws. Coarse, Fine and Extra Fine Thread. Cotter Pins and Machine Screws
- Includes metal merchandiser and signage

CAP SCREWS (FINE)			
Part #	Size	Pcs/Pk	Packs
024-120	M8 x 20	7	2
024-122	M8 x 30	7	2
024-124	M8 x 40	6	2
024-126	M8 x 50	5	2
024-130	M10 x 20	4	2
024-131	M10 x 25	3	2
024-132	M10 x 30	3	2
024-133	M10 x 35	4	2
024-134	M10 x 40	3	2
024-136	M10 x 50	3	2
024-138	M10 x 60	2	2
024-144	M12 x 30	3	2
024-146	M12 x 40	2	2
024-148	M12 x 50	2	2

HEX NUTS (FINE)			
Part #	Size	Pcs/Pk	Packs
024-258	M8 x 1.00	16	2
024-260	M10 x 1.25	12	2
024-262	M12 x 1.5	7	2

HEX NUTS (EXTRA FINE)			
Part #	Size	Pcs/Pk	Packs
024-270	M10 x 1.00	10	2
024-272	M12 x 1.25	7	2

HEX NUTS (ISO COARSE)			
Part #	Size	Pcs/Pk	Packs
024-204	M4	33	3
024-205	M5	33	3
024-206	M6	33	8
024-208	M8	18	8
024-210	M10	11	7
024-212	M12	6	3



MACHINE SCREWS			
Part #	Size	Pcs/Pk	Packs
024-430	M6 x 10	30	2
024-436	M6 x 16	80	2
024-440	M6 x 20	27	2

LOCK NUTS			
Part #	Size	Pcs/Pk	Packs
024-224	M4	10	2
024-226	M6	9	2
024-228	M8	6	2
024-230	M10	5	2

FLAT WASHERS			
Part #	Size	Pcs/Pk	Packs
024-304	4 mm	60	3
024-305	5 mm	56	3
024-306	6 mm	45	6
024-308	8 mm	18	6
024-310	10 mm	14	6
024-312	12 mm	12	3

LOCK WASHERS			
Part #	Size	Pcs/Pk	Packs
024-324	4 mm	80	3
024-325	5 mm	80	3
024-326	6 mm	60	6
024-328	8 mm	40	6
024-330	10 mm	32	6
024-332	12 mm	20	3

Display and contents not exactly as shown.

CLASS 8.8 COARSE HEX HEAD CAP SCREWS					
Part #	Size	Part #	Size	Part #	Size
024-002	M4 x 16*	024-031	M6 x 50	024-062	M10 x 30*
024-004	M4 x 25	024-045	M8 x 12*	024-063	M10 x 35*
024-012	M5 x 12*	024-046	M8 x 16*	024-064	M10 x 40
024-013	M5 x 16*	024-047	M8 x 20*	024-066	M10 x 50
024-014	M5 x 20*	024-048	M8 x 25*	024-068	M10 x 60
024-015	M5 x 25*	024-049	M8 x 30*	024-070	M10 x 70
024-023	M6 x 12*	024-050	M8 x 35	024-075	M12 x 30*
024-024	M6 x 16*	024-051	M8 x 40	024-077	M12 x 40*
024-025	M6 x 20*	024-052	M8 x 45	024-079	M12 x 50
024-026	M6 x 25*	024-053	M8 x 50	024-081	M12 x 60
024-027	M6 x 30	024-055	M8 x 60	024-083	M12 x 70
024-028	M6 x 35	024-057	M8 x 70	Thread Length: Formula is 2D + 6 mm. Items marked * are fully threaded.	
024-029	M6 x 40	024-060	M10 x 20*		
024-030	M6 x 45	024-061	M10 x 25*		

CLASS 8 COARSE HEX NUTS					
Part #	Size	Part #	Size	Part #	Size
024-204	M4	024-206	M6	024-210	M10
024-205	M5	024-208	M8	024-212	M12

CLASS 8 FINE AND EXTRA FINE THREAD HEX NUTS					
Part #	Size	Part #	Size	Part #	Size
024-258	M8 x 1.0	024-270	M10 x 1.0		
024-260	M10 x 1.25	024-272	M12 x 1.25		
024-262	M12 x 1.5	-	-		

LOCK WASHERS					
Part #	Size	Part #	Size	Part #	Size
024-324	4 mm	024-326	6 mm	024-330	10 mm
024-325	5 mm	024-328	8 mm	024-332	12 mm

MACHINE SCREWS PAN PHILLIPS HEAD			
Part #	Size	Part #	Size
024-398	M3-0.5 x 6	024-422	M5-0.8 x 20
024-399	M3-0.5 x 10	024-423	M5-0.8 x 25
024-400	M3-0.5 x 16	024-424	M5-0.8 x 30
024-401	M3-0.5 x 20	024-425	M5-0.8 x 35
024-402	M3-0.5 x 25	024-426	M5-0.8 x 16
024-406	M4-0.7 x 6	024-427	M5-0.8 x 40
024-407	M4-0.7 x 10	024-428	M5-0.8 x 50
024-410	M4-0.7 x 16	024-430	M6-1.0 x 10
024-411	M4-0.7 x 20	024-432	M6-1.0 x 12
024-412	M4-0.7 x 12	024-436	M6-1.0 x 16
024-413	M4-0.7 x 25	024-440	M6-1.0 x 20
024-414	M4-0.7 x 30	024-441	M6-1.0 x 25
024-415	M4-0.7 x 35	024-442	M6-1.0 x 30
024-416	M4-0.7 x 40	024-443	M6-1.0 x 35
024-417	M4-0.7 x 50	024-444	M6-1.0 x 40
024-418	M4-0.7 x 60	024-446	M6-1.0 x 50
024-419	M5-0.8 x 6	024-448	M8-1.25 x 12
024-420	M5-0.8 x 10	024-451	M8-1.25 x 30
024-421	M5-0.8 x 12	024-453	M8-1.25 x 40

MACHINE SCREWS PAN SLOT HEAD					
Part #	Size	Part #	Size	Part #	Size
024-406	M4 x 6	024-420	M5 x 10	024-430	M6 x 10
024-412	M4 x 12	024-426	M5 x 16	024-436	M6 x 16
-	-	-	-	024-440	M6 x 20

CLASS 8.8 FINE THREAD HEX HEAD CAP SCREWS			
Part #	Size	Part #	Size
024-120	M8 x 1.0 x 20*	024-133	M10 x 1.25 x 35*
024-122	M8 x 1.0 x 30*	024-134	M10 x 1.25 x 40*
024-124	M8 x 1.0 x 40*	024-136	M10 x 1.25 x 50*
024-126	M8 x 1.0 x 50*	024-138	M10 x 1.25 x 60
024-130	M10 x 1.25 x 20*	024-144	M12 x 1.5 x 30*
024-131	M10 x 1.25 x 25*	024-146	M12 x 1.5 x 40*
024-132	M10 x 1.25 x 30*	024-148	M12 x 1.5 x 50*

CLASS 8.8 EXTRA FINE THREAD HEX HEAD CAP SCREWS			
Part #	Size	Part #	Size
024-170	M10 x 1.0 x 20*	024-176	M10 x 1.0 x 50*
024-171	M10 x 1.0 x 25*	024-184	M12 x 1.25 x 30*
024-172	M10 x 1.0 x 30*	024-186	M12 x 1.25 x 40*
024-174	M10 x 1.0 x 40*	024-188	M12 x 1.25 x 50*

NYLON COLLAR STOP NUTS 'POZI-LOK'® NUTS					
Part #	Size	Part #	Size	Part #	Size
024-224	M4	024-226	M6	024-230	M10
024-225	M5	024-228	M8	-	-

FLAT WASHERS					
Part #	Size	Part #	Size	Part #	Size
024-304	4 mm	024-306	6 mm	024-310	10 mm
024-305	5 mm	024-308	8 mm	024-312	12 mm

SPRING (WAVE TYPE) WASHERS (PLAIN FINISH)			
Part #	Size	Part #	Size
024-344*	4 mm	024-348	8 mm
024-346	6 mm	024-350	10 mm

COTTER PINS			
Part #	Size	Part #	Size
024-704	M1.5 x 16	024-713	M3 x 40
024-707	M2.0 x 20	024-716	M4 x 50
024-710	M3 x 25	-	-

SLOTTED SPRING PINS (PLAIN FINISH)			
Part #	Size	Part #	Size
024-734*	M2.0 x 16	024-752	M4 x 50
024-740*	M3.0 x 24	024-761	M6 x 22
024-743*	M3.0 x 40	024-764*	M6 x 50
024-746	M4 x 18	-	-

SOCKET SCREWS KEYS (PLAIN FINISH)					
Part #	Size	Part #	Size	Part #	Size
024-904	M4x5	024-916	M6x8	024-926	M8x8
024-907	M4x10	024-919	M6x12	024-930	M8x12
024-910	M5x10	024-922	M6x20	024-934	M8x20
024-913*	M5x16	-	-	-	-

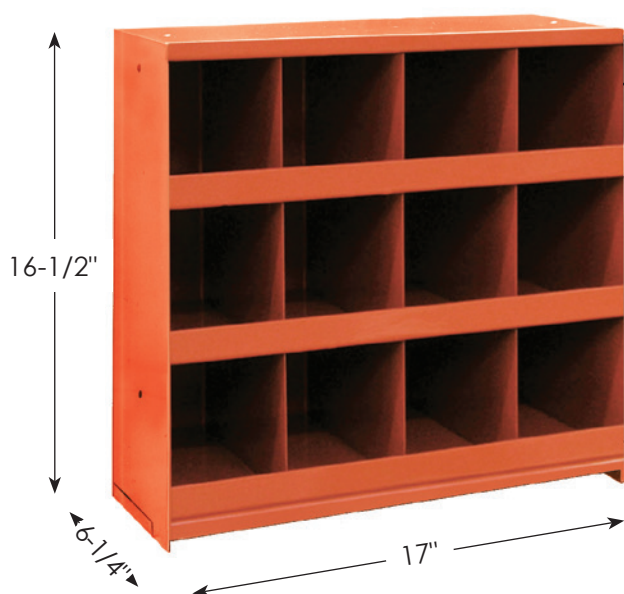
SOCKET SCREWS KEYS (PLAIN FINISH)					
Part #	Size	Part #	Size	Part #	Size
024-980	1.5mm	024-983	3mm	024-986*	6mm
024-981	2.0mm	024-984	4mm	024-988*	8mm
024-982	2.5mm	024-985*	5mm	-	-

*Limited stock available. Subject to change without notification.

paulin[®] METRIC MERCHANDISERS

Store your cap screws, washers, nuts and other fasteners or fittings in these heavy duty, all-steel Papco[®] Bolt Bins. Products will be easy to find – your stock is kept clean, neat and organized.

- Sturdy, heavy gauge, reinforced steel
- Welded construction
- Safety bin lips avoid spillage
- Baked finish
- Use on floor, work bench or hang on the wall depending on size of merchandiser
- Optional steel base: 022-027 Base, 4" high black finish

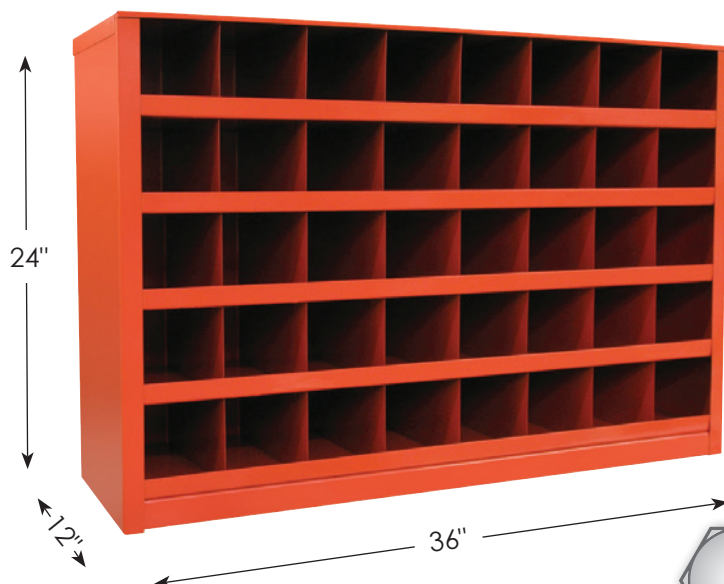


022-020 (Empty)

- 12 Compartments
- Compartment Size: 4-1/4" x 5-1/2" x 6-1/4"
- Overall Dimensions: 17" W x 16-1/2" H x 6-1/4" D
- Shipping Weight: 7 lbs
- The modular design allows you to mount additional bins to the top, bottom or sides



12 Compartments

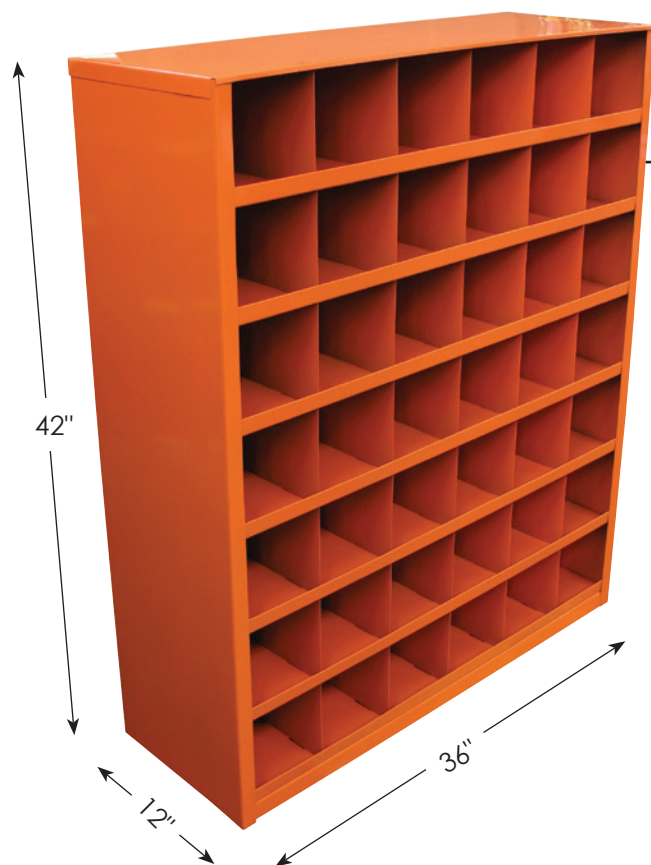


022-017 (Empty)

- 40 Compartments
- Compartment Size: 4-1/2" x 4-1/2" x 12"
- Overall Dimensions: 36" W x 24" H x 12" D
- Shipping Weight: 50 lbs



40 Compartments



○ **022-018** (Empty)

- 42 Compartments
- Compartment Size: 5-3/8" x 5-7/16" x 12"
- Overall Dimensions: 36" W x 42" H x 12" D
- Shipping Weight: 70 lbs



42 Compartments



○ **022-019** (Empty)

- 72 Compartments
- Compartment Size: 4-1/2" x 4-1/2" x 12"
- Overall Dimensions: 36" W x 42" H x 12" D
- Shipping Weight: 80 lbs



72 Compartments

022-027
Base not
included

METRIC CONVERSIONS

FRACTION	INCHES	M/M
$\frac{1}{64}$	.01563	.397
$\frac{1}{32}$	.03125	.794
$\frac{3}{64}$	.04688	1.191
$\frac{1}{16}$	.06250	1.588
$\frac{5}{64}$	.07813	1.984
$\frac{3}{32}$	.09375	2.381
$\frac{7}{64}$	.10938	2.778
$\frac{1}{8}$	.12500	3.175
$\frac{9}{64}$	.14063	3.572
$\frac{5}{32}$	.15625	3.969
$\frac{11}{64}$	.17188	4.366
$\frac{3}{16}$	.18750	4.763
$\frac{13}{64}$	.20313	5.159
$\frac{7}{32}$	.21875	5.556
$\frac{15}{64}$	.23438	5.953
$\frac{1}{4}$	.25000	6.350
$\frac{17}{64}$	.26563	6.747
$\frac{9}{32}$	.28125	7.144
$\frac{19}{64}$	.29688	7.541
$\frac{5}{16}$	.31250	7.938
$\frac{21}{64}$	.32813	8.334
$\frac{11}{32}$	.34375	8.731
$\frac{23}{64}$	.35938	9.128
$\frac{3}{8}$	.37500	9.525
$\frac{25}{64}$	.39063	9.922
$\frac{13}{32}$	.40625	10.319
$\frac{27}{64}$	.42188	10.716
$\frac{7}{16}$	.43750	11.113
$\frac{29}{64}$	.45313	11.509
$\frac{15}{32}$	.46875	11.906
$\frac{31}{64}$	.48438	12.303
$\frac{1}{2}$	.50000	12.700

FRACTION	INCHES	M/M
$\frac{33}{64}$	.51563	13.097
$\frac{17}{32}$	.53125	13.494
$\frac{35}{64}$	.54688	13.891
$\frac{9}{16}$	.56250	14.288
$\frac{37}{64}$	.57813	14.684
$\frac{19}{32}$	.59375	15.081
$\frac{39}{64}$	.60938	15.478
$\frac{5}{8}$	.62500	15.875
$\frac{41}{64}$	.64063	16.272
$\frac{21}{32}$	.65625	16.669
$\frac{43}{64}$	.67188	17.066
$\frac{11}{16}$	.68750	17.463
$\frac{45}{64}$	.70313	17.859
$\frac{23}{32}$	.71875	18.256
$\frac{47}{64}$	.73438	18.653
$\frac{3}{4}$	.75000	19.050
$\frac{49}{64}$	.76563	19.447
$\frac{25}{32}$	.78125	19.844
$\frac{51}{64}$	.79688	20.241
$\frac{13}{16}$	.81250	20.638
$\frac{53}{64}$	.82813	21.034
$\frac{27}{32}$	.84375	21.431
$\frac{55}{64}$	.85938	21.828
$\frac{7}{8}$	.87500	22.225
$\frac{57}{64}$	.89063	22.622
$\frac{29}{32}$	.90625	23.019
$\frac{59}{64}$	.92188	23.416
$\frac{15}{16}$	.93750	23.813
$\frac{61}{64}$	.95313	24.209
$\frac{31}{32}$	.96875	24.606
$\frac{63}{64}$	.98438	25.003
1	1.00000	25.400

SIZE CONVERSIONS

Inches to Millimetres			
Inch	Millimetre	Inch	Millimetre
1	25.40	0.0394	1

Standard and Metric Sizes					
Inch	Millimetre	Inch	Millimetre	Inch	Millimetre
1/8	3.18	5/8	15.88	1-1/4	31.75
5/32	3.97	—	16.00	—	32.00
—	4.00	21/32	16.67	—	33.00
3/16	4.76	—	17.00	1-5/16	33.34
—	5.00	11/16	17.46	—	34.00
13/64	5.16	—	18.00	1-3/8	34.93
7/32	5.56	—	19.00	—	35.00
15/64	6.05	3/4	19.05	—	36.00
—	6.00	25/32	19.84	1-7/16	36.51
1/4	6.35	—	20.00	—	38.00
17/64	6.75	13/16	20.64	1-1/2	38.10
—	7.00	—	21.00	—	39.00
9/32	7.14	—	22.00	1-9/16	39.69
5/16	7.94	7/8	22.23	—	40.00
—	8.00	—	23.00	—	41.00
11/32	8.73	29/32	23.02	1-5/8	41.28
—	9.00	15/16	23.81	1-11/16	42.86
3/8	9.53	—	24.00	1-3/4	44.45
—	10.00	31/32	24.61	—	46.00
—	11.00	—	25.00	1-13/16	46.04
7/16	11.11	1	25.40	1-7/8	47.63
15/32	11.91	—	26.00	1-15/16	49.21
—	12.00	1-1/16	26.99	—	50.00
1/2	12.70	—	27.00	2	50.80
—	13.00	—	28.00	—	51.00
17/32	13.49	1-1/8	28.58	2-1/8	53.96
—	14.00	—	29.00	—	54.00
9/16	14.29	—	30.00	2-1/4	57.15
—	15.00	1-3/16	30.16	2-3/8	60.33
19/32	15.08	—	31.00	2-1/2	63.50

METRIC NUT DIAMETER AND HEIGHT SIZES

Metric Nut Sizes			
Nut Size (mm)	Diameter (mm)	Height (mm)	
		Hex Nut	Jam Nut
2.0	4.0	1.6	1.2
2.5	5.0	2.0	1.6
3.0	5.5	2.4	1.8
4.0	7.0	3.2	2.2
5.0	8.0	4.0	2.7
6.0	10.0	5.0	3.2
7.0	11.0	5.5	3.5
8.0	13.0	6.5	4.0
10.0	17.0	8.0	5.0
12.0	19.0	10.0	6.0
14.0	22.0	11.0	7.0
16.0	24.0	13.0	8.0
18.0	27.0	15.0	9.0
20.0	30.0	16.0	10.0
The Diameter (across the flats) is also the size of wrench to use.			

DRIVE TYPES AND COMMON NAMES / ABBREVIATIONS

SLOTTED	
	Slot
	Cross / Plus / Star
CRUCIFORM	
	Phillips / PH
	Pozidriv / PZ
HEXALOBULAR	
	Torx® 6 Lobe

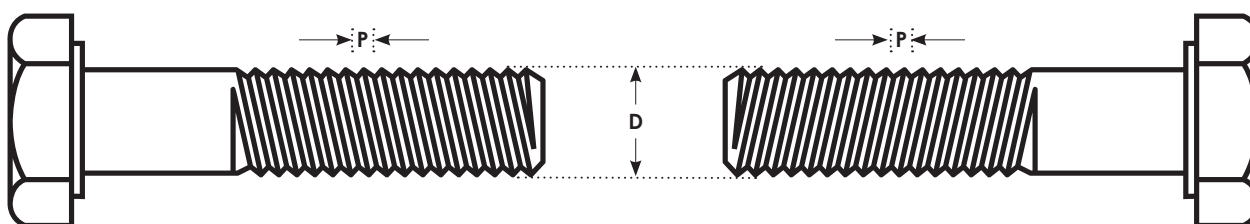
INTERNAL POLYGON	
	Robertson / Square / Socket
	Hex Socket / Allen
EXTERNAL POLYGON	
	Square
	Hex

METRIC BOLT HEAD AND WRENCH SIZES

ISO Metric Threaded Bolt (mm)	Spanner or Wrench Size (mm)			Allen Key (mm)
	DIN	ISO/ANSI	JIS	ISO/ANSI
4	7.00	7.00	7.00	—
5	8.00	8.00	8.00	4.00
6	10.00	10.00	10.00	5.00
7	11.00	—	—	—
8	13.00	13.00	12.00	6.00
10	17.00	15.00, 16.00	14.00	8.00
12	19.00	18.00	17.00	10.00
14	22.00	21.00	19.00	—
16	24.00	24.00	22.00	14.00
18	27.00	—	—	—
20	30.00	30.00	—	17.00
24	—	36.00	—	19.00

METRIC BOLT DIAMETER AND THREAD PITCH SIZES

Bolt Diameter (mm)	Thread Pitch			
	Standard	Fine	Extra or Super Fine	JIS
2	0.40	—	—	0.40
2.5	0.45	—	—	0.45
3	0.50	—	—	0.50
4	0.70	—	—	0.70
5	0.80	—	—	0.80
6	1.00	—	—	1.00
7	1.00	—	—	1.00
8	1.25	1.00	—	1.25
10	1.50	1.25	1.00	1.25
12	1.75	1.50	1.25	1.25
14	2.00	1.50	—	1.50
16	2.00	—	—	1.50
18	2.50	—	—	1.50
20	2.50	—	—	1.50



MECHANICAL REQUIREMENTS FOR THREADED FASTENERS

I.S.O. CLASS (METRIC)	S.A.E & PAPCO IDENT.	BOLT SIZE DIAMETER (INCH or MM)	PROOF LOAD (PSI)	TENSILE STRENGTH MIN (PSI)	HARDNESS	
					ROCKWELL	VICKERS
8.8		M3 to M39	84,000 (580 MPa)	116,000 (800 MPa)	C22-C34	250-335
MATERIAL HEAT TREATMENT	- Carbon steel with additives (e.g. Boron or Mn or Cr) quenched and tempered C: 0.15 to 0.40, P: 0.025 Max., S: 0.025 Max., B: 0.003 Max. Tempering Temperature: Min. 425 °C - In case of plain carbon boron steel with carbon content below 0.25% (cast analysis), the minimum manganese content shall be 0.6% - There shall be a sufficient hardenability to ensure a structure consisting of approximately 90% martensite in the core of threaded sections for fasteners in the "as-hardened" condition before tempering.					
	- Carbon steel quenched and tempered C: 0.25 to 0.55, P: 0.025 Max., S: 0.025 Max., B: 0.003 Max. Tempering Temperature: Min. 425 °C - There shall be a sufficient hardenability to ensure a structure consisting of approximately 90% martensite in the core of threaded sections for fasteners in the "as-hardened" condition before tempering.					
	- Alloy steel quenched and tempered C: 0.20 to 0.55, P: 0.025 Max., S: 0.025 Max., B: 0.003 Max. Tempering Temperature: Min. 425 °C - This alloy steel shall contain at least one of the following elements in the minimum quantity given: Chromium 0.30%, nickel 0.30%, molybdenum 0.20%, vanadium 0.10%. Where elements are specified in combinations of two, three or four and have alloy contents less than those given above, the limit value to be applied for steel class determination is 70% of sum of the individual limit values specified above for two, three or four elements concerned. - There shall be a sufficient hardenability to ensure a structure consisting of approximately 90% martensite in the core of threaded sections for fasteners in the "as-hardened" condition before tempering.					

I.S.O. CLASS (METRIC)	S.A.E & PAPCO IDENT.	BOLT SIZE DIAMETER (INCH or MM)	PROOF LOAD (PSI)	TENSILE STRENGTH MIN (PSI)	HARDNESS	
					ROCKWELL	VICKERS
9.8		M1.6 to M16	95,000 (650 MPa)	131,000 (900 MPa)	C28-C37	290-360
MATERIAL HEAT TREATMENT	- Carbon steel with additives (e.g. Boron or Mn or Cr) quenched and tempered C: 0.15 to 0.40, P: 0.025 Max., S: 0.025 Max., B: 0.003 Max. Tempering Temperature: Min. 425 °C - In case of plain carbon boron steel with carbon content below 0.25% (cast analysis), the minimum manganese content shall be 0.7% - There shall be a sufficient hardenability to ensure a structure consisting of approximately 90% martensite in the core of threaded sections for fasteners in the "as-hardened" condition before tempering.					
	- Carbon steel quenched and tempered C: 0.25 to 0.55, P: 0.025 Max., S: 0.025 Max., B: 0.003 Max. Tempering Temperature: Min. 425 °C - There shall be a sufficient hardenability to ensure a structure consisting of approximately 90% martensite in the core of threaded sections for fasteners in the "as-hardened" condition before tempering.					
	- Alloy steel quenched and tempered C: 0.20 to 0.55, P: 0.025 Max., S: 0.025 Max., B: 0.003 Max. Tempering Temperature: Min. 425 °C - This alloy steel shall contain at least one of the following elements in the minimum quantity given: Chromium 0.30%, nickel 0.30%, molybdenum 0.20%, vanadium 0.10%. Where elements are specified in combinations of two, three or four and have alloy contents less than those given above, the limit value to be applied for steel class determination is 70% of sum of the individual limit values specified above for two, three or four elements concerned. - There shall be a sufficient hardenability to ensure a structure consisting of approximately 90% martensite in the core of threaded sections for fasteners in the "as-hardened" condition before tempering.					

MECHANICAL REQUIREMENTS FOR THREADED FASTENERS

I.S.O. CLASS (METRIC)	S.A.E & PAPCO IDENT.	BOLT SIZE DIAMETER (INCH or MM)	PROOF LOAD (PSI)	TENSILE STRENGTH MIN (PSI)	HARDNESS	
					ROCKWELL	VICKERS
10.9		M3 to M39	120,000 (830 MPa)	151,000 (1040 MPa)	C32-C39	320-380
MATERIAL HEAT TREATMENT	- Carbon steel with additives (e.g. Boron or Mn or Cr) quenched and tempered C: 0.20 to 0.55, P: 0.025 Max., S: 0.025 Max., B: 0.003 Max. Tempering Temperature: Min. 425 °C - In case of plain carbon boron steel with carbon content below 0.25% (cast analysis), the minimum manganese content shall be 0.7% - There shall be sufficient hardenability to ensure a structure consisting of approximately 90% martensite in the core of threaded sections for fasteners in the "as-hardened" condition before tempering.					
	- Carbon steel quenched and tempered C: 0.25 to 0.55, P: 0.025 Max., S: 0.025 Max., B: 0.003 Max. Tempering Temperature: Min. 425 °C - There shall be sufficient hardenability to ensure a structure consisting of approximately 90% martensite in the core of threaded sections for fasteners in the "as-hardened" condition before tempering.					
	- Alloy steel quenched and tempered C: 0.20 to 0.55, P: 0.025 Max., S: 0.025 Max., B: 0.003 Max. Tempering Temperature: Min. 425 °C - This alloy steel shall contain at least one of the following elements in the minimum quantity given: Chromium 0.30%, nickel 0.30%, molybdenum 0.20%, vanadium 0.10%. Where elements are specified in combinations of two, three or four and have alloy contents less than those given above, the limit value to be applied for steel class determination is 70% of sum of the individual limit values specified above for two, three, four elements concerned. - There shall be a sufficient hardenability to ensure a structure consisting of approximately 90% martensite in the core of threaded sections for fasteners in the "as-hardened" condition before tempering.					

IFI – Industrial Fasteners Institute

www.indfast.org

ASTM – American Society for Testing and Materials

www.astm.org

SAE – Society of Automotive Engineers

www.sae.org

AISI – American Iron and Steel Institute

www.steel.org

ASME – American Society of Mechanical Engineers

www.asme.org

JIS – Japanese Industrial Standards

www.jisc.go.jp/eng

ISO – International Organization for Standardization

www.iso.org

DIN – German Institute for Standardization

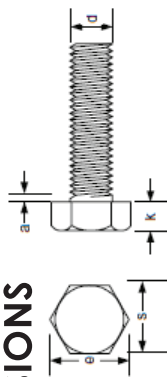
www.din.de

COMPARATIVE STRENGTH OF CAP SCREWS

Minimum Tensile Strength p.s.i. (pounds/sq. inch)		S.A.E. Grades 2, 5, and 8	I.S.O. Metric Property Classes	Minimum Tensile Strength MPa (megapascals)
180,000	 Grade 8		 Class 12.9	1220
170,000			 Class 10.9	1040
160,000			 Class 9.8	900
150,000		830		
140,000	 Grade 5		 Class 8.8	520
130,000				
120,000				
110,000	 Grade 2		 Class 5.8	
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)	

Ref: DIN 933 - 1987

This standard contains specifications for fully threaded hexagon head screws with coarse metric thread for diameters M 1.6 to M 52. Although long-term expectation is for DIN to be superseded by ISO (lower half of page), current MMCC product # 933 is supplied according to DIN dimensions below.



Dimensions in mm.																						
Nom. Thread Diameter (D)	M3	M4	M5	M6	(M7)	M8	M10	M12	M14	M16	(M18)	M20	(M22)	M24	(M27)	M30	(M33)	M36	(M39)	M42	(M45)	M48
THREAD PITCH (COARSE)	0.5	0.7	0.8	1	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5	3.5	4	4	4.5	4.5	5
a max.	1.5	2.1	2.4	3	3	3.75	4.5	5.25	6	6	7.5	7.5	7.5	9	9	10.5	10.5	12	12	13.5	13.5	15
washer min.	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
face max.	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1	1	1	1
e min.	6.01	7.66	8.79	11.05	12.12	14.38	18.9	21.1	24.49	26.75	30.14	33.53	35.72	39.98	45.2	50.85	55.37	60.79	66.44	71.3	76.95	82.60
Nom. Dimensions	2	2.8	3.5	4	4.8	5.3	6.4	7.5	8.8	10	11.5	12.5	14	15	17	18.7	21	22.5	25	26	28	30
min.	1.88	2.68	3.35	3.85	4.65	5.15	6.22	7.32	8.62	9.82	11.28	12.28	13.78	14.78	16.65	18.28	20.58	22.08	24.58	25.58	27.58	29.58
k max.	2.12	2.92	3.65	4.15	4.95	5.45	6.56	7.68	8.98	10.18	11.72	12.72	14.22	15.22	17.35	19.12	21.42	22.92	25.43	26.42	28.42	30.42
Max. = Nom. Dimensions	5.5	7	8	10	11	13	17	19	22	24	27	30	32	36	41	46	50	55	60	65	70	75
s min.	5.32	6.78	7.78	9.78	10.73	12.73	16.73	18.67	21.67	23.67	26.67	29.67	31.61	35.38	40	45	49	53.8	58.8	63.1	68.1	73.1

Ref: ISO 4017 - 1979

This international standard gives specifications for fully threaded hexagon head screws with metric dimensions and thread diameters from 3mm up to and including 36mm.

Comparison chart on **ISO/DIN** standards across flat size differences.

Dimensions in mm.														
	Nom. Thread Diameter (D)	M3	M4	M5	M6	M8	M10	M12	M14	M16	M20	M24	M30	M36
THREAD PITCH (COARSE)		0.50	0.70	0.80	1	1.25	1.50	1.75	2	2	2.50	3	3.50	4
	a	max.	1.50	2.10	2.40	3	3.75	4.50	5.25	6	6	7.5	9	10.5
	min.	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.2	0.2	0.2	0.2	0.20
washer face	max.	0.40	0.40	0.50	0.50	0.60	0.60	0.60	0.60	0.80	0.80	0.80	0.80	0.80
e min.		6.01	7.66	8.79	11.05	14.38	17.77	20.03	23.35	26.75	33.53	39.98	50.85	60.79
	Nom. Dimensions	2	2.80	3.50	4	5.30	6.40	7.50	8.80	10	12.50	15	18.70	22.50
	min.	1.88	2.68	3.35	3.85	5.15	6.22	7.32	8.62	9.82	12.28	14.78	18.28	22.08
k		2.12	2.92	3.65	4.15	5.45	6.58	7.68	8.98	10.18	12.72	15.22	19.12	22.92
	max.	5.50	7	8	10	13	16	18	21	24	30	36	46	55
	s	min.	5.32	6.78	7.78	9.78	12.73	15.73	17.73	20.67	23.67	29.67	35.38	45

*Please note: Diameters shown in () should be avoided for new design.

Thread Diameter	M10		M12		M14	
	Max.	Min.	Max.	Min.	Max.	Min.
ISO mm	16	15.73	18	17.73	21	20.67
DIN mm	17	16.73	19	18.67	22	21.67

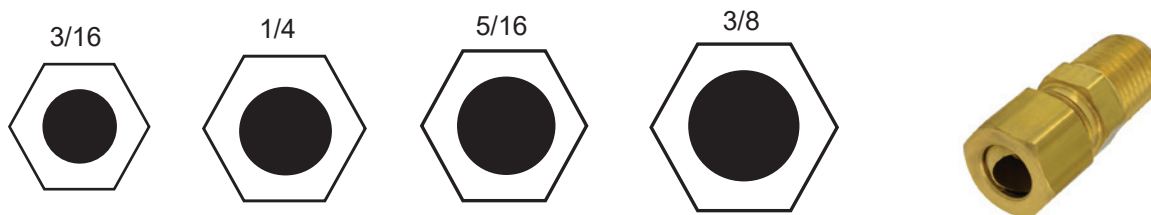
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WOOD SCREWS

Diameter	#4	#5	#6	#7	#8	#9	#10	#12	#14
Decimal Equivalent Dia.	.112	.125	.138	.155	.165	.177	.191	.218	.251
Drill Pilot Hole*	3/64	1/16	1/16	1/16	5/64	5/64	3/32	7/64	7/64
Drill Shank Hole*	7/64	9/64	11/64	5/32	7/64	3/16	3/16	7/32	1/4

*Sizes of holes recommended for average application. Slightly larger or smaller holes may be required for hard or soft woods.

COMPRESSION AND FLARE TUBE FITTINGS



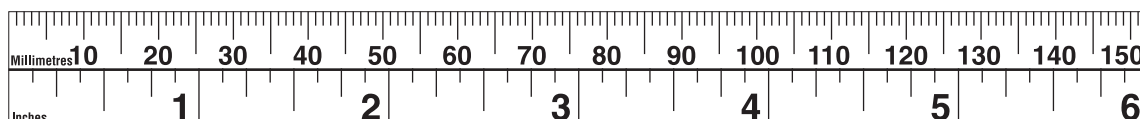
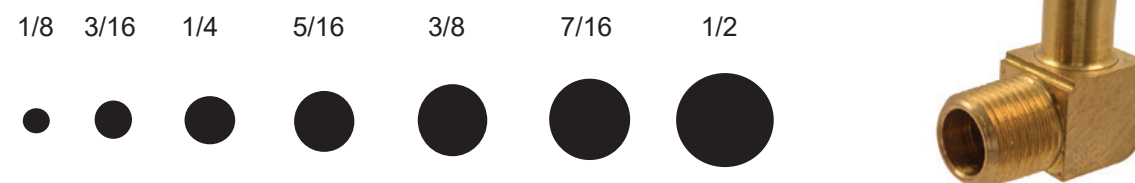
PIPE FITTINGS



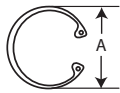
PHILLIPS TAPPING SCREWS



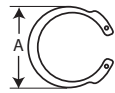
HOSE BARB FITTINGS



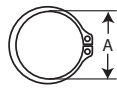
SNAP RINGS



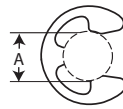
-200 Series
Internal



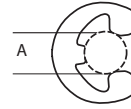
-300 Series
Internal



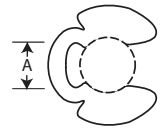
-400 Series
External



-500 Series
External



-600 Series
External



-700 Series
External

ORDER BY STOCK NUMBER

Illustrations Actual Size

268-200 Series	268-400 Series

SNAP RINGS (CONTINUED)

ORDER BY STOCK NUMBER

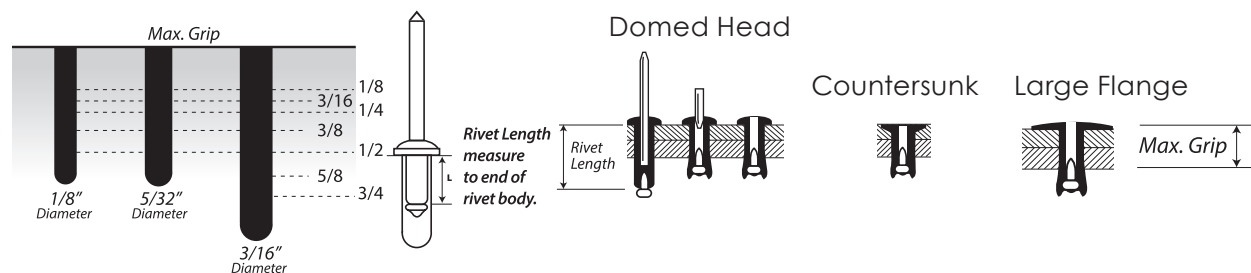
* Example of Stock Number: 268-522

268-300 Series  -329	268-500 Series         
 -330	268-600 Series      
 -332	268-700 Series     

BLIND RIVETS

Rivet Diameter		Drill	
Inch	Metric	Number	Size
3/32	2.4 mm	No. 41	.096 - .100
1/8	3.2 mm	No. 30	.129 - .133
5/32	4.0 mm	No. 20	.160 - .164
3/16	4.8 mm	No. 11	.192 - .196

How to measure rivets:



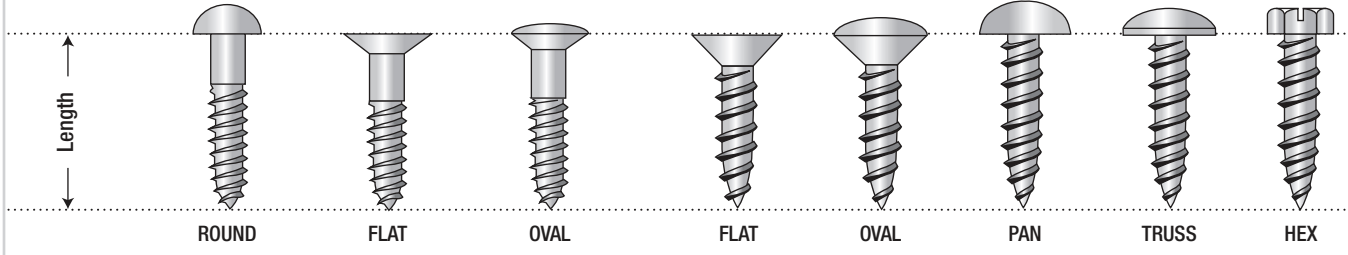
NOTES

NOTES

FASTENER IDENTIFICATION CHART

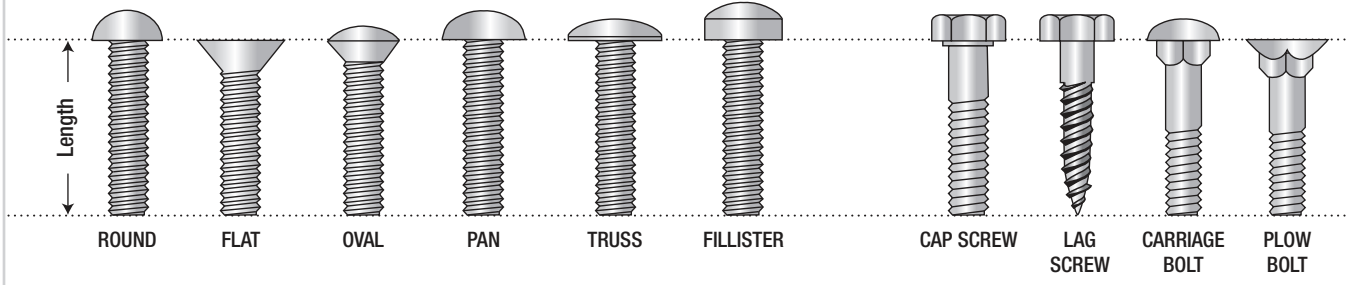
 WOOD SCREWS

 TAPPING SCREWS



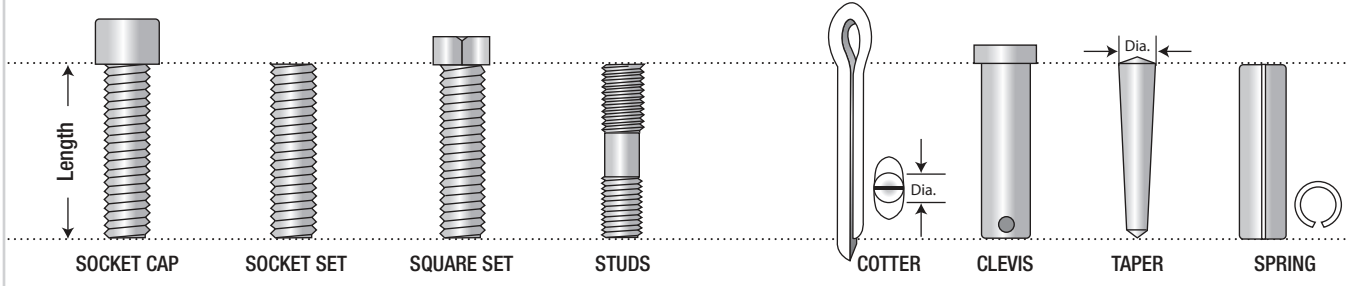
 MACHINE SCREWS

 SCREWS & BOLTS



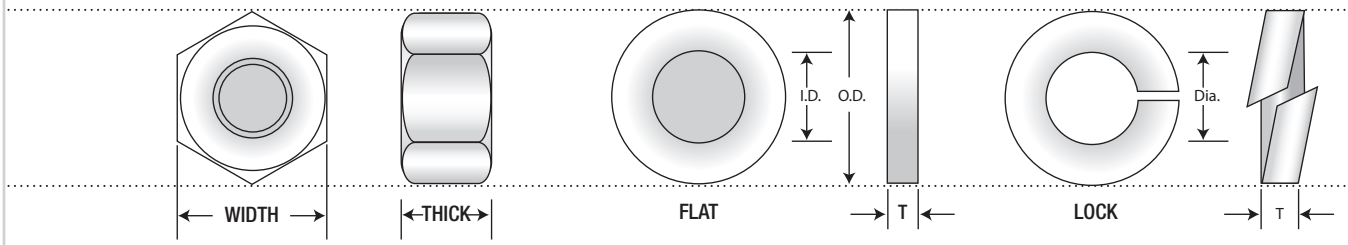
 SET SCREWS & STUDS

STANDARD PINS



HEX NUTS

WASHERS





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