



PLAIN STEEL WASHERS RONDELLES ORDINAIRES

- 143**
1 Lb.
Bare
- 144**
5 Lbs.
Bare
- 145**
100's
Bare
- 146**
1 Lb.
Plated
- 148**
100's
Plated

(U.S.S. Wrought Washers)

Papco® Flat Washers are free from burrs and have smooth, flat surfaces.



ORDER BY STOCK NUMBER

Standard Package: as indicated

Stock No.					100's Std. Pkg.	Bolt Size	Hole Dia.	Outside Dia.	Thickness	Approx. No. Per lb.
1 lb. Bare (454 g)	5 lbs. Bare (2.2 Kg)	100's Bare	1 lb Plated (454 g)	100's Plated						
143-010	144-010	145-010	146-010	148-010	100	3/16	1/4	9/16	3/64	294
143-014	144-014	145-014	146-014	148-014	100	1/4	5/16	3/4	1/16	162
143-016	144-016	145-016	146-016	148-016	100	5/16	3/8	7/8	1/16	96
143-018	144-018	145-018	146-018	148-018	100	3/8	7/16	1	5/64	75
143-020	144-020	145-020	146-020	148-020	50	7/16	1/2	1-1/4	3/32	38
143-022	144-022	145-022	146-022	148-022	50	1/2	9/16	1-3/8	7/64	27
143-023	144-023	145-023	146-023	148-023	25	9/16	5/8	1-1/2	7/64	23
143-024	144-024	145-024	146-024	148-024	25	5/8	11/16	1-3/4	9/64	13
143-026	144-026	145-026	146-026	148-026	20	3/4	13/16	2	9/64	9
143-028	144-028	145-028	146-028	148-028	20	7/8	15/16	2-1/4	5/32	7
143-030	144-030	145-030	146-030	148-030	20	1	1-1/16	2-1/2	5/32	6
	144-032					1-1/8	1-3/16	2-3/4	5/32	5
	144-034					1-1/4	1-5/16	2-3/4	5/32	5
	144-037					1-1/2	1-9/16	3-1/4	11/64	3

UTILITY ASSORTMENT

No. 020-352

Contains 5.5 lbs of Plain Steel Washers in bolt sizes from 3/16" to 5/8". Each size in an individual compartment. Packed in a sturdy fibreboard container. All bright plated.

020-352



MASTER ASSORTMENT

No. 020-620

Contains over 1615 Plain Steel Washers 10 sizes from 1/8" to 3/4". Packed in a metal divided box with hinged lid, carrying handle, positive lock and illustrated label showing retail price codes. All bright plated.

020-620



For Super Service Assortment No. 020-804 of Plain Steel, S.A.E. and Lock Washers see page 95.

S.A.E. WASHERS RONDELLES S.A.E.



S.A.E. Steel Washers are made from strip steel; have bright, smooth, flat surfaces; are highly polished and are free from burrs.

ORDER BY STOCK NUMBER

Standard Package: as indicated

Stock No.			100's Std. Pkg.	Bolt Size	Inside Dia.	Outside Dia.	Thickness	Approx. No. Per lb.
1 lb. Bare (454 g)	100's Bare	100's Plated						
149-008		154-006	100	# (1/8)	5/32	3/8	3/64	800
149-010		154-008	100	# 8	3/16	7/16	3/64	550
149-014	151-010	154-010	100	# 10 (3/16)	7/32	1/2	1/16	350
149-016	151-014	154-014	100	1/4	9/32	5/8	1/16	225
149-018	151-016	154-016	100	5/16	11/32	11/16	1/16	200
149-018	151-018	154-018	100	3/8	13/32	13/16	1/16	140
149-020	151-020	154-020	50	7/16	15/32	59/64	1/16	105
149-022	151-022	154-022	50	1/2	17/32	1-1/16	3/32	55
149-023	151-023	154-023	25	9/16	19/32	1-3/16	3/32	45
149-024	151-024	154-024	25	5/8	21/32	1-5/16	3/32	36
149-026	151-026	154-026	20	3/4	13/16	1-1/2	1/8	22
149-028	151-028	154-028	20	7/8	15/16	1-3/4	1/8	16
149-030	151-030	154-030	20	1	1-1/16	2	1/8	12

SMALL SIZE S.A.E. WASHERS GARAGE ASSORTMENT

No. 020-031

Contains 400 pieces, 6 sizes no. 2 to 1/4" dia. For Electrical, Radio and Electronic use. Packed in a transparent plastic box.

020-031



PLATED UTILITY ASSORTMENT

No. 020-341

Contains 370 S.A.E. Washers in sizes from 3/16" to 5/8". Each size is in an individual compartment in a sturdy fibreboard container.

020-341



PLATED MASTER ASSORTMENT

No. 020-619

Contains 1200 S.A.E. Washers, 12 sizes from 1/8" to 1". Packed in a metal, divided box with hinged lid, carrying handle, positive lock and illustrated lid label showing retail price codes.

020-619



For Super Service Assortment No. 020-804 of Plain Steel, S.A.E. and Lock Washers see page 95.

Size:
9-3/4" W x 13-3/4" L x 2" D

SPRING LOCK WASHERS RONDELLES RESSORT

High Carbon Spring Steel - Plain Type - Non-Linking

REGULAR LOCK WASHERS RONDELLES À RESSORT ORDINAIRES



Papco® Lock Washers provide a locking spring action against the tendency of threaded assemblies loosening due to vibration. They are made to specifications of the Society of Automotive Engineers (S.A.E.) and the current ANSI B27.1 standard. They are supplied in Regular, for Grade 2 bolts and low load applications; Extra Duty for Grade 5 or 8 bolts and high load applications; and Hi-Collar for Socket Head Cap Screws.

Standard Package: 100's - up to 1 - 100; 1-1/8 - 1-1/4 - 50; 1-1/2 - 25.
1000's - up to - 7/16 - 1000; 1/2 to 5/8 - 500; 3/4 - 250.

ORDER BY STOCK NUMBER

Stock No.			Bolt Size	Steel Section W x T	Stock No.			Bolt Size	Steel Section W x T
100's Bare	1000's Bare	100's Plated			100's Bare	1000's Bare	100's Plated		
155-006	156-006		No. 6 (1/8)	.047 x .031	155-023	156-023	157-023	9/16	.188 x .141
155-008	156-008		No. 8 (5/32)	.055 x .040	155-024	156-024	157-024	5/8	.203 x .156
155-010	156-010	157-010	No. 10 (3/16)	.062 x .047	155-026	156-026	157-026	3/4	.234 x .188
155-012	156-012	157-012	No. 12 (7/32)	.070 x .056	155-028		157-028	7/8	.266 x .219
155-014	156-014	157-014	1/4	.109 x .062	155-030		157-030	1"	.297 x .250
155-016	156-016	157-016	5/16	.125 x .078	155-032			1-1/8	.328 x .281
155-018	156-018	157-018	3/8	.141 x .094	155-034			1-1/4	.359 x .312
155-020	156-020	157-020	7/16	.156 x .109	155-036			1-3/8	.391 x .344
155-022	156-022	157-022	1/2	.171 x .125	155-038			1-1/2	.422 x .375

EXTRA DUTY LOCK WASHERS RONDELLES À RESSORT ROBUSTE

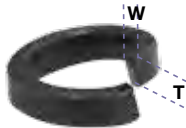


Extra Duty, 4037 High Alloy Steel. For use with Grade 5 or 8 bolts and for high load applications. Mechanical Gold Zinc Dichromate Plated.

ORDER BY STOCK NUMBER

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

HI-COLLAR LOCK WASHERS RONDELLES À RESSORT HAUTE



High Carbon Spring Steel. For use with Socket Head Cap Screws.

ORDER BY STOCK NUMBER

Stock No.	Bolt Size	Standard Package	Steel Section W x T	Stock No.	Bolt Size	Standard Package	Steel Section W x T
159-014	1/4	100	.047 x .078	159-020	7/16	100	.090 x .140
159-016	5/16	100	.062 x .093	159-022	1/2	50	.103 x .172
159-018	3/8	100	.076 x .125	159-024	5/8	50	.125 x .203

SPRING LOCK WASHER ASSORTMENTS ASSORTIMENTS DE RONDELLES À RESSORT



020-047

GARAGE ASSORTMENT

No. 020-047

Contains 235 Regular Lock Washers Plated in sizes 3/16" to 1/2". Packed in a transparent plastic box.

ASSORTMENT

No. 020-886

This popular Assortment contains 39 Lock Washers in sizes 3/16" to 1/2". Standard package contains 24 individual assortments.

All Bright Plated.



020-886

UTILITY ASSORTMENT

No. 020-339

This Assortment contains 505 Regular Lock Washers Plated in nine sizes from 3/16" to 3/4". Packed in a sturdy, fibreboard container with moulded compartments.



020-339



020-621

MASTER ASSORTMENT

No. 020-621

Contains 1257 Regular Lock Washers Plated in thirteen sizes from 1/8" to 1". Packed in a metal box with moulded plastic compartments. Hinged lid, positive lock carrying handle and illustrated lid label that shows retail price codes.

Size: 9-3/4" W x 13-3/4" L x 2" D.

PLAIN STEEL, S.A.E. AND LOCK WASHER SUPER SERVICE ASSORTMENT

No. 020-804

Contains 3020 Flat, Lock and Tooth Lock Washers in thirty two sizes. Large size metal box with high-strength moulded plastic compartments. For more details see page 10.

All Bright Plated.

Size: 12" W x 18" L x 3" D.



020-804

**PLATED TOOTH LOCK WASHERS
RONDELLES ANTI-VIBRATION PLAQUÉ**

**161
Series**

Bright Zinc Plated High Carbon Spring Steel



External Type



Countersunk Type



Internal Type

ORDER BY STOCK NUMBER

Standard Package: 100 Pieces

Stock No.	Bolt or screw size	Outside Diameter	Thickness	Stock No.	Bolt or screw size	Outside Diameter	Thickness	Stock No.	Bolt or screw size	Outside Diameter	Thickness
External Type				External Countersunk Type				Internal Type			
161-106	6 (1/8)	5/16	.018	161-306	6 (1/8)	19/64	.018	161-206	6 (1/8)	9/32	.018
161-108	8 (5/32)	3/8	.020	161-308	8 (5/32)	11/32	.018	161-208	8 (5/32)	21/64	.020
161-110	10 (3/16)	13/32	.022	161-310	10 (3/16)	3/8	.022	161-210	10 (3/16)	3/8	.022
161-114	1/4	1/2	.025	161-314	1/4	15/32	.022	161-214	1/4	15/32	.025
161-118	5/16	19/32	.030	161-318	5/16	5/8	.025	161-218	5/16	19/32	.030
161-122	7/16	25/32	.035					161-222	7/16	25/32	.035
161-124	1/2	7/8	.040					161-224	1/2	7/8	.040
161-126	9/16	31/32	.040					161-226	9/16	31/32	.040
161-128	5/8	1-1/16	.045					161-228	5/8	1-1/16	.045
161-132	3/4	1-1/4	.050					161-232	3/4	1-1/4	.050
161-134	7/8	1-7/16	.055					161-234	7/8	1-3/8	.055
161-136	1	1-5/8	.062					161-236	1"	1-5/8	.062

GARAGE ASSORTMENT INTERNAL TYPE

No. 020-034

Contains 225 Internal Type Tooth Lock Washers in six sizes from 3/16" to 1/2".



GARAGE ASSORTMENT EXTERNAL TYPE

No. 020-035

Contains 225 External Type Tooth Lock Washers in six sizes from 3/16" to 1/2".



WORK-SAVER® KIT FLAT AND LOCK WASHER ASSORTMENT

No. 020-207

Contains 576 pieces. Assorted sizes of Zinc Plated Flat and Lock Washers.



UTILITY ASSORTMENT

No. 020-340

Contains 900 Internal and External Tooth Lock Washers 16 sizes from No. 6 to 1/2" in both types.

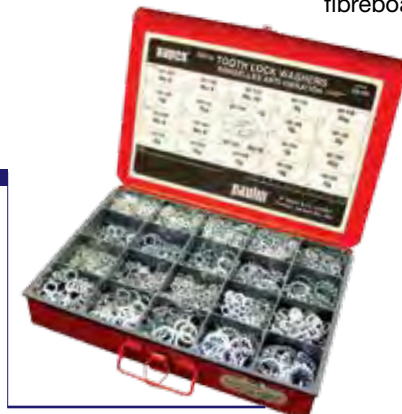
Packed in a sturdy fibreboard container.



MASTER ASSORTMENT

No. 020-625

Contains 1370 Internal and External Washers. 10 external sizes from No. 6 to 3/4"; 10 internal sizes from No. 6 to 3/4". Packed in a metal container with hinged lid, carrying handle and lock.



**FIBRE WASHERS
RONDELLES FIBREUSES**

**162
Series**

1/32" - TWO THICKNESSES - 1/16"



Papco[®] Fibre Washers are made from vulcanized fibre. They are suitable for generator, carburetor or fuel pump work and wherever an insulating washer or gasket is required.

ORDER BY STOCK NUMBER

Standard Package: 100 Pieces

Stock No.		Inside Dia.	Outside Dia.	Stock No.		Inside Dia.	Outside Dia.	Stock No.		Inside Dia.	Outside Dia.	Stock No.		Inside Dia.	Outside Dia.
1/32 Thick	1/16 Thick			1/32 Thick	1/16 Thick			1/32 Thick	1/16 Thick			1/32 Thick	1/16 Thick		
162-201	162-251	3/32	3/16	162-207	162-257	1/4	3/8	162-213	162-263	1/2	5/8	162-220	162-270	11/16	15/16
162-202	162-252	3/32	1/4	162-208	162-258	5/16	7/16	162-214	162-264	7/16	11/16	162-221	162-271	3/4	1"
162-203	162-253	1/8	1/4	162-209	162-259	1/4	1/2	162-215	162-265	1/2	3/4	162-223	162-273	3/4	1-1/16
162-204	162-254	1/8	5/16	162-210	162-260	3/8	1/2	162-216	162-266	5/8	3/4	162-224	162-274	13/16	1-1/8
162-205	162-255	3/16	5/16	162-211	162-261	5/16	9/16	162-218	162-268	9/16	13/16	162-225	162-275	15/16	1-1/4
162-206	162-256	3/16	3/8	162-212	162-262	3/8	5/8	162-219	162-269	5/8	7/8	162-226	162-276	7/8	1-3/16
												162-227	162-277	1"	1-5/16

For Fibre Drain Plug Gaskets see page 169



020-857

ASSORTMENT

No. 020-857

- Contains 360 Fibre Washers.
- 18 Sizes 1/16" and 1/32" thick
162-203, 206, 209, 211, 212, 214, 215, 219, 221
162-253, 256, 259, 261, 262, 264, 265, 269, 271.
- Plastic container with moulded compartments.
- Illustrated label shows sizes etc.
- Refills available in standard packages.

GARAGE ASSORTMENT

No. 020-059

This Assortment contains 130 Fibre Washers in sizes from 1/8" to 3/4".

Packed in clear, plastic box with hinged lid.



020-059

FLAT FENDER WASHERS RONDELLES DE PROTECTION

162
Series

Used for Fender and Body work. Also two washers can be bolted together and used for Heater Hose Hole plugs.



ORDER BY STOCK NUMBER

Standard Package: 100 Pieces

Stock No.	Bolt Size	Outside Dia.	Inside Dia.	Thickness	Stock No.	Bolt Size	Outside Dia.	Inside Dia.	Thickness
162-393	3/16	1"	13/64	3/64	162-397	5/16	1-1/4	11/32	1/16
162-394	3/16	3/4	13/64	3/64	162-398	3/8	1-1/2	13/32	1/16
162-395	1/4	1-1/4	9/32	1/16	162-399	5/16	1-1/2	11/32	1/16
162-396	5/16	1"	11/32	1/16	162-400	1/2	2"	17/32	1/16

GARAGE ASSORTMENT

No. 020-057

Contains 71 Bright Plated Fender Washers for 1/4", 5/16" and 3/8" Bolts. Packed in rigid, transparent plastic container.

020-057



MACHINERY BUSHINGS BAGUES DE MACHINERIE

162
Series

These steel repair bushings are used on Agricultural Machinery, Road Machines, Mine and Mill Equipment, Automobiles, Trucks, etc.



ORDER BY STOCK NUMBER

Standard Package: 25 Pieces

Stock No.	Shaft Dia.	Outside Dia.	Gauge	Weight Per 100 pcs.	Stock No.	Shaft Dia.	Outside Dia.	Gauge	Weight Per 100 pcs.
162-610	5/8	1-1/8	18	0.9	162-626	1-1/4	1-7/8	14	3.4
162-611			14	1.5	162-627			10	6.1
162-613	3/4	1-1/4	18	1.0	162-631	1-3/8	2-1/8	18	2.7
162-614			14	1.7	163-632			14	4.6
162-615			10	3.1	162-633			10	8.2
162-616	7/8	1-3/8	18	1.2	162-635	1-1/2	2-1/4	14	4.8
162-617			14	2.0	162-636			10	8.6
162-619	1	1-1/2	18	1.3	162-640	1-3/4	2-1/2	18	3.3
162-620			14	2.2	162-641			14	5.6
162-621			10	4.0	162-642			10	10.0
162-622	1-1/8	1-3/4	18	1.9	162-650	1-7/8	2-7/8	14	8.3
162-623			14	3.1	162-653	2	3	14	8.6
162-624			10	5.6	162-654			10	15.0
162-625	1-1/4	1-7/8	18	2.0	162-657	2-1/8	3-1/8	10	16.3

18 Ga.=.050"; 14 Ga.=.083"; 10 Ga.=.134"

ASSORTMENT

No. 020-875

This assortment is made up of 174 Machinery Bushings selected by popularity. Twenty eight sizes for complete coverage. The 020-875 Assortment includes a 3-colour display board and 13 screw hooks. Ideal for Implement and Machinery dealers.

020-875



BRASS WASHERS RONDELLES EN LAITON

162
Series



Papco[®] Brass Washers are free from burrs and have bright, smooth, flat surfaces. Small or large patterns available from No. 6 to 3/8".

ORDER BY STOCK NUMBER

Stock No.	Score or Bolt Size	I.D.	O.D.	Thickness	Standard Package	Stock No.	Score or Bolt Size	I.D.	O.D.	Thickness	Standard Package
162-802	No. 2	.092	7/32	.018	100	162-815	1/4	.260	11/16	.051	100
162-803	No. 3	.105	1/4	.020	100	162-816	5/16	.337	3/4	.064	100
162-804	No. 4	.119	9/32	.025	100	162-817	5/16	.337	7/8	.064	100
162-805	No. 5	.133	9/32	.025	100	162-818	3/8	.391	7/8	.064	100
162-806	No. 6	.147	5/16	.028	100	162-819	3/8	.391	1	.081	100
162-807	No. 6	.147	3/8	.032	100	162-820	7/16	1/2	1-1/8	.081	50
162-808	No. 8	.172	3/8	.032	100	162-822	1/2	9/16	1-1/4	.091	50
162-809	No. 8	.172	7/16	.036	100	162-823	9/16	5/8	1-1/2	.091	25
162-810	No. 10	.200	7/16	.036	100	162-824	5/8	11/16	1-1/2	.102	25
162-811	No. 10	.200	1/2	.040	100	162-826	3/4	13/16	1-7/8	.114	20
162-812	No. 12	.227	1/2	.040	100	162-828	7/8	15/16	2-1/4	.128	20
162-813	No. 12	.227	9/16	.040	100	162-830	1	1-1/16	2-1/2	.144	20
162-814	1/4	.260	9/16	.040	100						

Small or large patterns available from No. 6 to 3/8.

GARAGE ASSORTMENT

No. 020-056

Contains 100 Brass Washers in popular sizes from No. 10 to 1/2". Packed in a clear plastic box with hinged lid.

020-056



COPPER WASHERS RONDELLES DE CUIVRE

162
Series



Papco[®] Soft Copper Washers are used as gaskets and have bright, smooth, flat surfaces.

ORDER BY STOCK NUMBER

Stock No.	Screw or Bolt Size	I.D.	O.D.	Thickness	Standard Package	Stock No.	Screw or Bolt Size	I.D.	O.D.	Thickness	Standard Package
162-860	No. 10	7/32	1/2	1/16	100	162-868	3/8	13/32	13/16	1/16	100
162-864	1/4	9/32	5/8	1/16	100	162-870	7/16	15/32	59/64	1/16	50
162-866	5/16	11/32	11/16	1/16	100	162-872	1/2	17/32	1-1/16	3/32	50

For Copper Drain Plug Gaskets see page 169

GARAGE ASSORTMENT

No. 020-083

Contains 100 Copper Washers in six sizes from No. 10 to 1/2". Packed in a transparent plastic box with hinged lid.

020-083



SPACER WASHERS RONDELLES D'ESPACEMENT



162
Series

Papco® Steel Spacer Washers are made from Cold Rolled Steel. All Spacer Washers are 1/32" thick.

ORDER BY STOCK NUMBER

Stock No.	Hole Size	O.D.	Std. Pkg.	Stock No.	Hole Size	O.D.	Std. Pkg.	Stock No.	Hole Size	O.D.	Std. Pkg.
162-910	3/16	1/2	100	162-925	11/16	1-1/16	100	162-936	1-3/8	2	50
162-914	1/4	9/16	100	162-926	3/4	1-1/8	100	162-938	1-1/2	2-1/4	50
162-916	5/16	5/8	100	162-927	13/16	1-1/4	100	162-940	1-5/8	2-3/8	25
162-918	3/8	3/4	100	162-928	7/8	1-3/8	100	162-942	1-3/4	2-1/2	25
162-920	7/16	13/16	100	162-930	1"	1-1/2	50	162-944	2"	2-3/4	25
162-922	1/2	7/8	100	162-932	1-1/8	1-5/8	50	162-946	2-1/8	3"	25
162-923	9/16	1"	100	162-934	1-1/4	1-7/8	50	162-948	2-1/4	3-1/4	25
162-924	5/8	1"	100								

GARAGE ASSORTMENT

No. 020-058

Contains 125 Steel Spacer Washers all 1/32" thick in sizes from 1/4" to 1-1/2". Packed in a transparent, plastic box.

020-058




TENSION WASHERS RONDELLES À TENSION

These heat treated spring steel washers are used to eliminate rattles in rods and connecting levers and to take up side play and lost motion in carburetor linkage, clevis yokes, brake shoe pins and gear shift rods etc.

ORDER BY STOCK NUMBER

Standard Package: 100 Pieces

Stock No.	Shaft Dia.
162-963	3/16
162-964	1/4
162-965	5/16
162-966	3/8
162-967	7/16
162-968	1/2



UTILITY ASSORTMENT

No. 020-351

Contains 210 Tension Washers. 35 each of six sizes in a sturdy, fibreboard container with individual compartments.

020-351



**STANDARD COUNTERSUNK FINISHING WASHERS
RONDELLES DE FINITION FRAISÉES RÉGULIÈRES**

**162
Series**

Papco[®] Countersunk Finishing Washers are made from sheet brass and nickel Plated. Used in body trim work with countersunk head screws and bolts. Standard package 100 Washers.



Standard Type

ORDER BY STOCK NUMBER

Stock No.	Screw Size	Inside Dia.	Outside Dia.
Countersunk Standard Type			
162-971	No. 6	.167	7/16
162-973	No. 8	.193	1/2
162-975	No. 10	.228	19/32
162-977	No. 12	.291	11/16
162-979	1/4	.318	25/32

GARAGE ASSORTMENT

No. 020-030

Contains 200 Nickel Plated Finishing Washers used with Countersunk Head Screws. Sizes from No. 6 to 1/4". Packed in a sturdy, clear plastic container.

