

Flat Washers / Flat & Helical Lockwashers

Inch

Rondelles plates / Rondelles freins plates et hélicoïdales

Pouce

ASSORTMENT ASSORTIMENT B-558C

STEEL FLAT WASHERS

Zinc Plated
17 SIZES
1190 PIECES



REGULAR SIZE welded Steel grey enamel
Drawer has hinged lid and "scooped" Bins.
Drawer fits the Slide Racks shown on Page A2

Shipping Weight - **8.16 kg** (18 lbs.)

Compatible Bolt Size	Spaenaur No.	Inner Diameter	Outer Diameter	Thickness	Qty.	Page
#8	656-B54-1T	11/64"	3/4"	0.031"	100	D3
	656-B37-2Y	3/16"	7/16"	0.036" - 0.065"	200	D2
	656-B32-1W		1/2"	0.055" - 0.065"		
#14	656-B35-1A	1/4"	5/8"	0.044" - 0.052"	150	D4
3/16"	656-B46-1X		9/16"	0.036" - 0.065"		D2
1/4"	656-B01-1Y	5/16"	3/4"	0.051" - 0.080"	100	
5/16"	656-B34-1Y	11/32"	1-1/4"	0.065"	50	D3
	656-B19-1M		1-1/2"	0.083"	40	
	656-B72-1X	3/8"	7/8"	0.064" - 0.104"	50	D2
3/8"	656-B66-1T	25/64"	1-1/2"	0.083"	40	D3
	92-SN-ZP	7/16"	1"	0.064" - 0.104"		D2
	656-B28-1E		1-3/4"	0.078"		D3
7/16"	656-B68-1W	1/2"	1-1/4"	0.064" - 0.104"	25	D2
1/2"	656-B57-1M	9/16"	1-3/8"	0.086" - 0.132"		
9/16"	B-927-ZP	5/8"	1-1/2"			
5/8"	95-SN-ZP	11/16"	1-3/4"	0.108" - 0.160"	10	
3/4"	105-SN-ZP	13/16"	2"	0.122" - 0.177"		

ASSORTMENT ASSORTIMENT 805-520

FLAT WASHERS
18-8 Stainless Steel

16 SIZES
967 PIECES



REGULAR SIZE Steel, grey enamel Drawer
will fit Slide Racks shown on page A2.

Shipping Weight **4.31 kg** (9-1/2 lbs.)

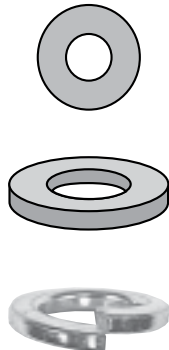
Spaenaur No.	Compatible Bolt Size	Inner Diameter	Outer Diameter	Thickness	Qty.	Page
W-2009	#2	0.0937"	1/4"	0.012" - 0.022"	100	D6
658-B06-2T	#4	0.1250"	5/16"	0.022" - 0.041"		D6
658-B05-1N	#6	0.1470"	3/8"			E33
658-B04-1C	#8	0.1710"				D6
658-B02-2P	#10	0.2000"	7/16"			D6
W-2037	#12	0.2430"	1/2"	0.045" - 0.075"	50	D6
658-015	1/4"	0.2810"	5/8"	0.034" - 0.068"		
658-B26-1P	5/16"	0.3430"	3/4"			
W-2039	3/8"	0.3910"	1"	0.040" - 0.075"		
658-B22-1W	7/16"	0.5000"	1-1/8"	0.045" - 0.075"		
658-B21-1K	1/2"	0.5620"	1-1/4"	0.056" - 0.112"		
658-B16-1C	5/8"	0.6870"	1-1/2"			
658-B20-1T	3/4"	0.8120"	1-7/8"	0.075" - 0.155"		
658-B29-1N	7/8"	0.9370"	2-1/4"			
658-B25-1A	1"	1.0625"	2-1/2"	5		
W-2072	1-1/4"	1.3120"	2-3/4"	0.109" - 0.140"	2	

PLASTIKIT «PLASTIKIT» 804-081

14 SIZES
270 PIECES

FLAT AND HELICAL LOCKWASHERS
STEEL, Zinc Plated

Put up in a clear durable plastic container with hinged lid.
Size: 1" x 2-3/4" x 4-1/2"



Name	Spaenaur No.	Compatible Bolt Size	Thickness	Qty.	Page
Steel Flat Washer Zinc Plated	656-B48-1P	#6	0.036" - 0.065"	20	D2
	656-B55-1X	#8	0.044" - 0.052"		D4
	656-B07-1M	#10	0.036" - 0.065"		E33
	656-B33-1M	1/4"	0.051" - 0.080"	10	D2
	656-B47-1A	5/16"			
	656-B02-1Z	3/8"			
W-177	1/2"	0.098" - 0.112"	D5		
Helical Lockwasher Zinc Plated	W-311	#6	0.031"	20	D22
	663-W03-1M	#8	0.040"		
	663-W05-1A	#10	0.047"		
	16-SN	1/4"	0.062"		
	17-SN	5/16"	0.078"		
	663-W06-1P	3/8"	0.094"		
20-SN	1/2"	0.125"			

Inch and Metric

Flat Washers / Fibre Washers / Flat & Helical Lockwashers

Pouce et Métrique

Rondelles plates / Rondelles de fibres / Rondelles freins plates et hélicoïdales

ASSORTMENT
ASSORTIMENT **805-519**

BRASS FLAT WASHERS
16 SIZES - 1315 PIECES

REGULAR SIZE Steel, grey enamel Drawer will fit Slide Racks shown on page A2

Shipping Weight:
3.18 kg (7 lbs.)



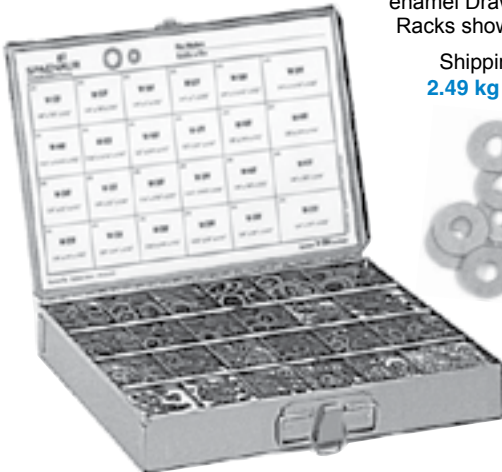
Spenaaur No.	Compatible Screw Size	Compatible Bolt Size	Inner Diameter	Outer Diameter	Thickness	Qty.	Page
649-B01-2C	#2		0.092"	3/16"	0.018"	200	D8
W-501	#3		0.105"	1/4"	0.020"		
649-B20-1M	#4		0.119"	9/32"	0.025"	100	
W-528	#5	1/8"	0.133"		0.028"		
649-B21-1X	#6		0.147"	5/16"	0.032"		
649-B14-1N	#8	5/32"	0.172"	3/8"	0.036"		
649-B13-1C	#10	3/16"	0.200"	7/16"	0.040"		
649-B19-1X	#12	7/32"	0.227"	1/2"			
649-B09-1P	#14	1/4"	0.260"	9/16"	0.051"	25	
649-B15-1T	#18		0.310"	1 1/16"			
649-B18-1M	#20	5/16"	0.337"	3/4"	0.064"	10	
W-540		3/8"	0.390"	0.682"	0.050"		
649-B17-1W	#30	7/16"	1/2"	1-1/8"	0.081"	10	
649-B12-1Y	#34	1/2"	9/16"	1-1/4"	0.091"		
W-519		5/8"	1 1/16"	1-1/2"	0.102"		
649-B03-1M		3/4"	1 3/16"	1-7/8"	0.114"		

ASSORTMENT
ASSORTIMENT **B-584A**

FIBRE WASHERS of Red, Vulcanized Fibre
24 SIZES — 1000 PIECES

REGULAR SIZE Steel, grey enamel Drawer will fit Slide Racks shown on page A2

Shipping Weight:
2.49 kg (5-1/2 lbs.)



Name	Spenaaur No.	Inner Diameter	Outer Diameter	Qty.	Page
Flat Washer 1/32" Thickness	638-C01-1C	1/8"	1/4"	50	D11
	W-28F	3/16"	3/8"		
	W-30F	1/4"			
	638-C03-1T	5/16"	9/16"		
	W-38F	3/8"	5/8"		
	W-40F	7/16"	1 1/16"		
	W-44F	1/2"	3/4"		
	W-46F	5/8"		7/8"	
	W-48F	3/4"	1"	25	
	W-52F		1-1/16"		
Flat Washer 1/16" Thickness	W-56F	1/8"	1/4"	50	
	W-58F	3/16"	3/8"		
	W-23F	1/4"	1/2"		
	W-29F	5/16"	9/16"		
	638-C05-1W	3/8"	5/8"		
	638-C09-1P	7/16"	1 1/16"		
	W-39F	1/2"	3/4"	25	
	W-41F	5/8"	7/8"		
	W-45F		1"		
	W-47F		1-1/16"		

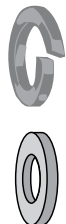
PLASTIKIT
«PLASTIKIT» **804-082**

DIN 125

Metric FLAT and HELICAL LOCKWASHERS

Steel, Zinc Plated
14 SIZES – 280 PIECES

Put up in a clear durable plastic container with hinged lid. Size: 1" x 2-3/4" x 4-1/2".



Name	Spenaaur No.	Compatible Bolt Size	Inner Diameter	Outer Diameter	Thickness	Qty.	Page
Split Lockwashers	664-C07-1P	M4	4.1mm	7.6mm	0.9mm	20	D25
	664-007ZP	M5	5.1mm	9.2mm	1.2mm		
	664-008ZP	M6	6.1mm	11.8mm	1.6mm		
	664-009ZP	M7	7.1mm	12.8mm			
	664-C10-1Y	M8	8.1mm	14.8mm	2.0mm		
	664-011ZP	M10	10.2mm	18.1mm	2.2mm		
Flat Washers	664-012ZP	M12	12.2mm	21.1mm	2.5mm	20	D12
	657-W03-1M	M4	4.3mm	9.0mm	0.8mm		
	657-008ZP	M5	5.3mm	10.0mm	1.0mm		
	657-W04-1Y	M6	6.4mm	12.0mm	1.6mm		
	657-010ZP	M7	7.4mm	14.0mm			
	657-011ZP	M8	8.4mm	16.0mm			
	657-012ZP	M10	10.5mm	20.0mm			
657-013ZP	M12	13.0mm	24.0mm	2.5mm			

Inch and Metric

Flat Washers / Split Lockwashers

Pouce et Métrique

Rondelles plates/freins fendues

ASSORTMENT **805-411**

~DIN 125

This Standard has been replaced. Please see Catalog Page R21 for more information.

Metric

FLAT WASHERS

Steel, Plated & Plain

21 SIZES - 943 PIECES

All drawers shown above are REGULAR SIZE, welded steel, have hinged lids and finished in grey enamel. Drawers will fit Slide Racks shown on A2



Shipping Weight: **3.52 kg** (7-1/4 lbs.)



Spenaaur No.	Compatible Bolt Size	Inner Diameter	Outer Diameter	Thickness	Qty.	Page	
657-001ZP	M1.7	1.8mm	4.5mm	0.3mm	100	D12	
657-002ZP	M2	2.2mm	5.0mm				
657-003ZP	M2.3	2.5mm	6.0mm	0.5mm			
657-004ZP	M2.6	2.8mm	7.0mm				
657-W02-1W	M3	3.2mm	7.0mm				
657-006ZP	M3.5	3.7mm	8.0mm	0.8mm			50
657-W03-1M	M4	4.3mm	9.0mm				80
657-008ZP	M5	5.3mm	10.0mm	1.0mm			70
657-W04-1Y	M6	6.4mm	12.0mm	1.6mm			60
657-010ZP	M7	7.4mm	14.0mm				50
657-011ZP	M8	8.4mm	16.0mm	2.0mm	40		
657-012ZP	M10	10.5mm	20.0mm		25		
657-013ZP	M12	13.0mm	24.0mm	2.5mm	20		
657-014ZP	M14	15.0mm	28.0mm		15		
657-015ZP	M16	17.0mm	30.0mm	3.0mm	10		
657-016ZP	M18	19.0mm	34.0mm		6		
657-017	M20	21.0mm	37.0mm		5		
657-018	M22	23.0mm	39.0mm	4.0mm	4		
657-W20-1P	M24	25.0mm	44.0mm		3		
657-020ZP	M27	28.0mm	50.0mm	4.0mm	3		
657-W07-1Y	M30	31.0mm	56.0mm		2		

ASSORTMENT **A-203**

Inch Sizes

SPLIT LOCKWASHERS

Steel, Plated



Helical, "Regular" and "Light" Styles

14 SIZES
582 PIECES

Regular Size Drawer Size: 13-3/8" x 9-1/4" x 2"

See page A2 for Storage Slide Rack

Shipping Weight: **2.95 kg** (6-1/2 lbs.)



Style	Spenaaur No.	Bolt Size	Width	Thickness	Qty.	Page
Light	B-488	#4	0.035"	0.020"	50	D24
	B-489	#6	0.040"	0.025"		
	B-490	#8	0.047"	0.031"		
	663-W01-1K	#10	0.055"	0.040"		
	B-492	#12	0.062"	0.047"		
Regular	663-W05-1A	#10	0.062"	0.047"	75	D22
	16-SN	1/4"	0.109"	0.062"	50	
	17-SN	5/16"	0.125"	0.078"	35	
	663-W06-1P	3/8"	0.141"	0.094"	20	
	19-SN	7/16"	0.156"	0.109"	15	
	20-SN	1/2"	0.171"	0.125"	20	
	21-SN	9/16"	0.188"	0.141"	20	
	22-SN	5/8"	0.203"	0.156"	12	
	23-SN	3/4"	0.234"	0.188"		

ASSORTMENT **805-528**

Inch Sizes

SPLIT LOCKWASHERS

(18-8) Stainless Steel
Helical, "Regular" Styles

16 SIZES - 1000 PIECES

Regular Drawer Size: 13-3/8" x 9-1/4" x 2" See page A2 for Storage Slide Racks.

Shipping Wt. **3.62 kg** (8 lbs.)



Spenaaur No.	Bolt Size	Width	Thickness	Qty.	Page
667-P08-2N	#2	0.035"	0.020"	100	D23
W-2022	#3	0.040"	0.025"		
667-P03-2X	#4	0.047"	0.031"		
667-P04-2A	#6	0.055"	0.040"		
667-P16-1A	#8	0.062"	0.047"		
667-P02-2M	#10	0.070"	0.056"	50	D23
667-P12-1K	#12	0.070"	0.056"		
667-P06-1W	1/4"	0.109"	0.062"	25	D23
667-P24-1K	5/16"	0.125"	0.078"		
667-P01-2W	3/8"	0.141"	0.094"	15	D23
W-2031	7/16"	0.156"	0.109"		
667-P11-1T	1/2"	0.171"	0.125"	10	D23
W-2033	5/8"	0.203"	0.156"		
W-2034	3/4"	0.234"	0.188"		
W-2035	7/8"	0.266"	0.219"		
667-P23-1T	1"	0.297"	0.250"		

Split Lockwashers

Rondelles freins fendues

Metric

Métrique

ASSORTMENT **805-449** **DIN 127B**
ASSORTIMENT

Metric SPLIT LOCKWASHERS
A2 STAINLESS STEEL
 Helical - Plain Ends
20 SIZES, 950 PIECES



Spaenaur No.	Bolt Size	Inner Diameter	Outer Diameter	Thickness	Qty.	Page
668-001	M2	2.1mm	4.4mm	0.5mm	100	D25
668-002	M2.3	2.4mm	4.9mm	0.6mm		
668-003	M2.6	2.7mm	5.2mm	0.8mm		
668-A01-1P	M3	3.1mm	6.2mm	0.9mm		
668-005	M3.5	3.6mm	6.7mm	1.2mm	80	
668-006	M4	4.1mm	7.6mm	1.6mm	60	
668-007	M5	5.1mm	9.2mm	2.0mm	50	
668-008	M6	6.1mm	11.8mm	2.2mm	40	
668-009	M7	7.1mm	12.8mm	2.5mm	30	
668-010	M8	8.1mm	14.8mm	3.0mm	15	
668-011	M10	10.2mm	18.1mm	3.5mm	10	
668-012	M12	12.2mm	21.1mm	4.0mm	8	
668-013	M14	14.2mm	24.1mm	5.0mm	6	
668-014	M16	16.2mm	27.4mm	6.0mm	5	
668-015	M18	18.2mm	29.4mm		4	
668-016	M20	20.2mm	33.6mm			
668-017	M22	22.5mm	35.9mm			
668-018	M24	24.5mm	40.0mm			
668-A06-1K	M27	27.5mm	43.0mm			
668-020	M30	30.5mm	48.2mm			

Regular Size grey enamel Steel Drawer will fit Slide Racks on page A2
 Shipping Wt. **3.4 kg** (7-1/2 lbs.)

ASSORTMENT **805-413**
ASSORTIMENT

DIN 127B for use with Hex Head Cap Screws (DIN 931/933)
DIN 7980 for use with Socket Head Cap Screws (DIN 912)

Metric SPLIT LOCKWASHERS
STEEL, ZINC PLATED
 Helical - Plain Ends
24 SIZES - 1381 PIECES



Spaenaur No.	Bolt Size	Inner Diameter	Outer Diameter	Thickness	Qty.	Page	
DIN 127B							
664-001ZP	M2	2.1mm	4.4mm	0.5mm	100	D25	
664-002ZP	M2.3	2.4mm	4.9mm	0.6mm			
664-003ZP	M2.6	2.7mm	5.2mm	0.8mm			
664-004ZP	M3	3.1mm	6.2mm	0.9mm			
664-C13-1T	M3.5	3.6mm	6.7mm	1.2mm	80		
664-C07-1P	M4	4.1mm	7.6mm	1.6mm	60		
664-007ZP	M5	5.1mm	9.2mm	2.0mm	50		
664-008ZP	M6	6.1mm	11.8mm	2.2mm	40		
664-009ZP	M7	7.1mm	12.8mm	2.5mm	30		
664-C10-1Y	M8	8.1mm	14.8mm	3.0mm	15		
664-011ZP	M10	10.2mm	18.1mm	3.5mm	10		
664-012ZP	M12	12.2mm	21.1mm	4.0mm	8		
664-013ZP	M14	14.2mm	24.1mm	5.0mm	6		
664-014ZP	M16	16.2mm	27.4mm				
664-015ZP	M18	18.2mm	29.4mm				
664-016ZP	M20	20.2mm	33.6mm				
664-017ZP	M22	22.5mm	35.9mm				
664-018ZP	M24	24.5mm	40.0mm				
DIN 7980							
664-050ZP	M3	3.1mm	5.6mm	1.0mm	100		D27
664-C02-1K	M4	4.1mm	7.0mm	1.2mm			
664-052ZP	M5	5.1mm	8.8mm	1.6mm	80		
664-053ZP	M6	6.1mm	9.9mm	2.0mm	70		
664-054ZP	M8	8.1mm	12.7mm	2.5mm	50		
664-055ZP	M10	10.2mm	16.0mm		40		

Regular Size grey enamel Steel Drawer will fit Slide Racks on page A2
 Shipping Wt. **3.4 kg** (7-1/2 lbs.)