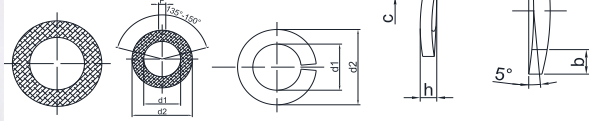


STAMPING FASTENERS SERIES

Pitted surface spring washer



Main Material: 65MN, SK5, SK7, SUS304, 316(A2, A4) and other special customized material
 Form* JX-VSK = Artikel 88130
 JX-VSK-Z = Artikel 88131
 JX-VSK-D = Artikel 88130

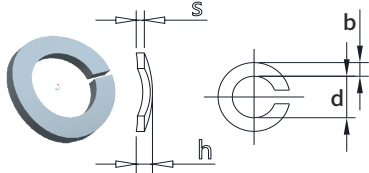
Surface Treatment: stainless steel curing polished original color or spring steel in black, mechanical galvanizing, nickel plating, Dacromet coating treatment

Unit:mm

Size	P/N		d ₁		d ₂		b		s		r	7.85kg/dm ³ (1000pcs/kg)	7.85kg/dm ³ (1000pcs/kg)	unload height
	Stainless Steel (JX-SN60727-VSKD)	Carbon Steel (JX-SN60727-VSK)	d ₁	Tol	Max.	min.	b	Tol	s	Tol				
2.5	JX-SN60727-VSKD-2.5-5.1-SS	JX-SN60727-VSK-2.5-5.1-ST	2.6		5.1	1	1		0.6		0.1	0.05		
3	JX-SN60727-VSKD-3-6.2-SS	JX-SN60727-VSK-3-6.2-ST	3.1	+0.3	6.2	1.3	1.3	±0.1	0.8		0.1	0.11	0.95	
4	JX-SN60727-VSKD-4-7.6-SS	JX-SN60727-VSK-4-7.6-ST	4.1		7.6	1.4	1.5		0.9	±0.1	0.2	0.18	1.05	
5	JX-SN60727-VSKD-5-9.2-SS	JX-SN60727-VSK-5-9.2-ST	5.1		9.2	1.8	1.8		1.2		0.2	0.36	1.35	
6	JX-SN60727-VSKD-6-11.8-SS	JX-SN60727-VSK-6-11.8-ST	6.1	+0.4	11.8	2.4	2.5	±0.15	1.6		0.3	0.83	1.8	
8	JX-SN60727-VSKD-8-14.8-SS	JX-SN60727-VSK-8-14.8-ST	8.1		14.8	3	3		2		0.5	1.6	2.28	
10	JX-SN60727-VSKD-10-18-SS	JX-SN60727-VSK-10-18-ST	10.1	+0.5	18.0	3.4	3.5		2.2	±0.15	0.5	2.5	2.6	
12	JX-SN60727-VSKD-12-21-SS	JX-SN60727-VSK-12-21-ST	12.1		21.0	3.9	4	±0.2	2.5		1	3.8	3.0	
16	JX-SN60727-VSKD-16-27-3-SS	JX-SN60727-VSK-16-27-3-ST	16.1	+0.8	27.3	5.5	5		3.5		1	8.9	4.2	
20	JX-SN60727-VSKD-20-33.6-SS	JX-SN60727-VSK-20-33.6-ST	20.2		33.6	6.3	6	±0.2	4		1	15.2	4.8	
24	JX-SN60727-VSKD-24-40-SS	JX-SN60727-VSK-24-40-ST	24.5	+1	40.0	6.3	7	±0.25	5		1.6	26.2	4.8	

Form VSK-Z = für Zylinderschrauben Fkl.8.8/8 Artikel 88130 VSK-Z = for cheese head and hex. socket cap screws Fkl.8.8/8
 Form VSK-D = Standard-Ausführung, wst, 1.4310 Artikel 88130 VSK-D = for hex. head screws and nuts A2/A4
 fur Sechskantschrauban/mutter A2/A4

GB/T7245 Curved and wave spring Lock washers



Surface Treatment: stainless steel curing polished original color or spring steel in black, mechanical galvanizing, nickel plating, Dacromet coating treatment

GB/T 7245 Saddle spring washer
 GB/T 7246 wave spring washer

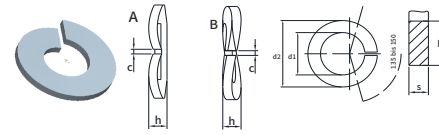
Unit:mm

Size	P/N			d		h		s		b			Weight of 1000pcs in kg	
	65Mn	Sk5	Stainless steel	Min	Max	Nom	min	max	Nom	Min	Max			
M3	JX-GB7245-M3-65Mn	JX-GB7245-M3-SK5	JX-GB7245-M3-SS	3.1	3.4	1.1	1.3	0.6	0.52	0.68	1	0.9	1.1	0.06
M4	JX-GB7245-M4-65Mn	JX-GB7245-M4-SK5	JX-GB7245-M4-SS	4.1	4.4	1.2	1.4	0.8	0.4	0.9	1.2	1.1	1.3	0.12
M5	JX-GB7245-M5-65Mn	JX-GB7245-M5-SK5	JX-GB7245-M5-SS	5.1	5.4	1.5	1.7	1.1	1	1.2	1.5	1.4	1.6	0.25
M6	JX-GB7245-M6-65Mn	JX-GB7245-M6-SK5	JX-GB7245-M6-SS	6.1	6.68	2	2.2	1.3	1.2	1.4	2	1.9	2.1	0.49
M8	JX-GB7245-M8-65Mn	JX-GB7245-M8-SK5	JX-GB7245-M8-SS	8.1	8.68	2.45	2.75	1.6	1.5	1.7	2.5	2.35	2.65	0.99
M10	JX-GB7245-M10-65Mn	JX-GB7245-M10-SK5	JX-GB7245-M10-SS	10.2	10.9	2.85	3.15	2	1.9	2.1	3	2.85	3.15	1.85
M12	JX-GB7245-M12-65Mn	JX-GB7245-M12-SK5	JX-GB7245-M12-SS	12.2	12.9	3.35	3.65	2.5	2.35	2.65	3.5	3.3	3.7	3.21
M14	JX-GB7245-M14-65Mn	JX-GB7245-M14-SK5	JX-GB7245-M14-SS	14.2	14.9	3.9	4.3	3	2.85	3.15	4	3.8	4.2	5.09
M16	JX-GB7245-M16-65Mn	JX-GB7245-M16-SK5	JX-GB7245-M16-SS	16.2	16.9	4.5	5.1	3.2	3	3.4	4.5	4.3	4.7	6.97
M18	JX-GB7245-M18-65Mn	JX-GB7245-M18-SK5	JX-GB7245-M18-SS	18.2	19.04	4.5	5.1	3.6	3.4	3.8	5	4.8	5.2	9.76
M20	JX-GB7245-M20-65Mn	JX-GB7245-M20-SK5	JX-GB7245-M20-SS	20.2	20.04	5.1	5.9	4	3.8	4.2	5.5	5.3	5.7	13.2
M22	JX-GB7245-M22-65Mn	JX-GB7245-M22-SK5	JX-GB7245-M22-SS	22.5	23.34	5.1	5.9	4.5	4.3	4.7	6	5.8	6.2	17.5
M24	JX-GB7245-M24-65Mn	JX-GB7245-M24-SK5	JX-GB7245-M24-SS	24.2	25.5	6.5	7.5	5	4.8	5.2	7	6.7	7.3	25.71
M27	JX-GB7245-M27-65Mn	JX-GB7245-M27-SK5	JX-GB7245-M27-SS	27.5	28.5	6.5	7.5	5.5	5.3	5.7	8	7.7	8.3	36.46
M30	JX-GB7245-M30-65Mn	JX-GB7245-M30-SK5	JX-GB7245-M30-SS	30.5	31.5	9.5	10.5	10.5	5.8	6.2	9	8.1	9.3	49.82

Remark: We only show part of the specifications, we can also produce various sizes according to the customer's requirements

STAMPING FASTENERS SERIES

DIN128A, B type saddle-wave spring washer



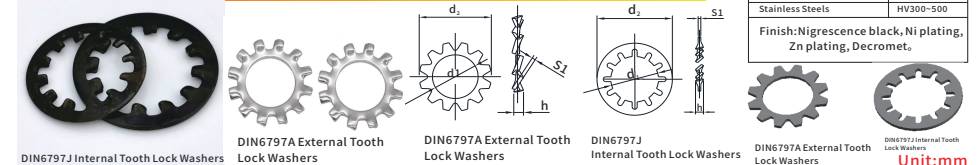
Main Material: 65MN, SK5, SK7, SUS304, 316(A2, A4) and other special customized material

Surface Treatment: stainless steel curing polished original color or spring steel in black, mechanical galvanizing, nickel plating, Dacromet coating treatment

Unit:mm

Size	P/N (JX-DIN128A)		P/N (JX-DIN128B)		d ₁		d ₂		b		s		h		r	Mass (1.85kg/dm ³) per 1000 units in kg	For thread size
	65Mn	65Mn	min	max	Max	b	Tol	s	Tol	min	max						
M2	JX-DIN128A-M2-65Mn	JX-DIN128B-M2-65Mn	2.1	2.4	4.4	0.9	±0.1	0.5	±0.1	0.7	0.9	0.1	0.035	2			
M2.5	JX-DIN128A-M2.5-65Mn	JX-DIN128B-M2.5-65Mn	2.6	2.9	5.1	1	±0.1	0.6	±0.1	0.9	1.1	0.1	0.055	2.5			
M3	JX-DIN128A-M3-65Mn	JX-DIN128B-M3-65Mn	3.1	3.4	6.2	1.3	±0.1	0.7	±0.1	1.1	1.3	0.1	0.09	3			
M3.5	JX-DIN128A-M3.5-65Mn	JX-DIN128B-M3.5-65Mn	3.6	3.9	6.7	1.3	±0.1	0.7	±0.1	1.1	1.3	0.1	0.1	3.5			
M4	JX-DIN128A-M4-65Mn	JX-DIN128B-M4-65Mn	4.1	4.4	7.6	1.5	±0.1	0.8	±0.1	1.2	1.4	0.2	0.15	4			
M4.5	JX-DIN128A-M4.5-65Mn	JX-DIN128B-M4.5-65Mn	5.1	5.4	9.2	1.8	±0.1	1	±0.1	1.5	1.7	0.2	0.3	5			
M6	JX-DIN128A-M6-65Mn	JX-DIN128B-M6-65Mn	6.1	6.5	11.8	2.5	±0.1	1.3	±0.1	2	2.2	0.3	0.7	6			
M7	JX-DIN128A-M7-65Mn	JX-DIN128B-M7-65Mn	7.1	7.5	12.8	2.5	±0.15	1.3	±0.1	2	2.2	0.3	0.75	7			
M8	JX-DIN128A-M8-65Mn	JX-DIN128B-M8-65Mn	8.1	8.5	14.8	3	±0.15	1.6	±0.1	2.45	2.75	0.5	1.3	8			
M10	JX-DIN128A-M10-65Mn	JX-DIN128B-M10-65Mn	10.2	10.7	18.1	3.5	±0.2	1.8	±0.1	2.85	3.15	0.5	2.1	10			
M12	JX-DIN128A-M12-65Mn	JX-DIN128B-M12-65Mn	12.2	12.7	21.1	4	±0.2	2.1	±0.15	3.35	3.65	1	3.2	12			
M14	JX-DIN128A-M14-65Mn	JX-DIN128B-M14-65Mn	14.2	14.7	24.1	4.9	±0.2	2.4	±0.15	3.9	4.3	1	4.8	14			
M16	JX-DIN128A-M16-65Mn	JX-DIN128B-M16-65Mn	16.2	17	27.4	5	±0.2	2.8	±0.15	4.5	5.1	1	7	16			
M18	JX-DIN128A-M18-65Mn	JX-DIN128B-M18-65Mn	18.2	19	29.4	5	±0.2	2.8	±0.15	4.5	5.1	1	7.8	18			
M20	JX-DIN128A-M20-65Mn	JX-DIN128B-M20-65Mn	20.2	21.2	33.6	6	±0.2	3.2	±0.2	5.1	5.9	1	12.2	20			
M22	JX-DIN128A-M22-65Mn	JX-DIN128B-M22-65Mn	22.5	23.5	35.9	6	±0.2	3.2	±0.2	5.1	5.9	1	13.3	22			
M24	JX-DIN128A-M24-65Mn	JX-DIN128B-M24-65Mn	24.5	25.5	40	7	±0.25	4	±0.2	6.5	7.5	1.6	21.5	24			
M27	JX-DIN128A-M27-65Mn	JX-DIN128B-M27-65Mn	27.5	28.5	43	7	±0.25	4	±0.2	6.5	7.5	1.6	23.7	27			
M30	JX-DIN128A-M30-65Mn	JX-DIN128B-M30-65Mn	30.5	31.7	48.2	8	±0.25	6	±0.2	9.5	10.5	1.6	42.5	30			
M36	JX-DIN128A-M36-65Mn	JX-DIN128B-M36-65Mn	36.5	37.7	58.2	10	±0.25	6	±0.2	10.3	11.3	1.6	58	36			
M42	JX-DIN128A-M42-65Mn	JX-DIN128B-M42-65Mn	42.5	43.7	68.2	12	±0.25	7	±0.25	12	13	2	111	42			

DIN6797A External Tooth Lock Washers/DIN6797J Internal Tooth Lock Washers



Material	Hardness
Carbon Spring Steels	HRC44-53
Stainless Steels	HV300-500
Finish: Nigrescence black, Ni plating, Zn plating, Dacromet.	

Size	P/N (DIN6797J)		P/N (DIN6797A)		d ₁		d ₂		s ₁	Number the teeth	1000 PCS/Kg weights
	Spring steel	Stainless steel	Min	Max	Max	min					
M1.6	JX-DIN6797J-M1.6-3-6-SST	JX-DIN6797A-M1.6-3-6-SS	1.7	1.84	3.6	3.3	0.3	6	0.01		
M2	JX-DIN6797J-M2-4-5-SST	JX-DIN6797A-M2-4-5-SS	2.2	2.34	4.5	4.2	0.3	6	0.025		
M2.5	JX-DIN6797J-M2.5-5-5-SST	JX-DIN6797A-M2.5-5-5-SS	2.7	2.84	5.5	5.2	0.4	6	0.04		
M3	JX-DIN6797J-M3-6-SST	JX-DIN6797A-M3-6-SS	3.2	3.38	6	5.7	0.4	6	0.045		
M3.5	JX-DIN6797J-M3.5-7-SST	JX-DIN6797A-M3.5-7-SS	3.7	3.88	7	6.64	0.5	6	0.075		
M4	JX-DIN6797J-M4-8-SST	JX-DIN6797A-M4-8-SS	4.3	4.48	8	7.64	0.5	6	0.095		
M5	JX-DIN6797J-M5-10-SST	JX-DIN6797A-M5-10-SS	5.3	5.48	10	9.64	0.6	8	0.18		
M6	JX-DIN6797J-M6-11-SST	JX-DIN6797A-M6-11-SS	6.4	6.62	11	10.57	0.7	8	0.22		
M7	JX-DIN6797J-M7-12.5-SST	JX-DIN6797A-M7-12.5-SS	7.4	7.62	12.5	12.07	0.8	8	0.3		
M8	JX-DIN6797J-M8-15-SST	JX-DIN6797A-M8-15-SS	8.4	8.62	15	14.57	0.8	8	0.45		
M10	JX-DIN6797J-M10-18-SST	JX-DIN6797A-M10-18-SS	10.5	10.77	18	17.57	0.9	9	0.8		
M12	JX-DIN6797J-M12-20.5-SST	JX-DIN6797A-M12-20.5-SS	13	13.27	20.5	19.98	1	10	1.0		
M14	JX-DIN6797J-M14-24										