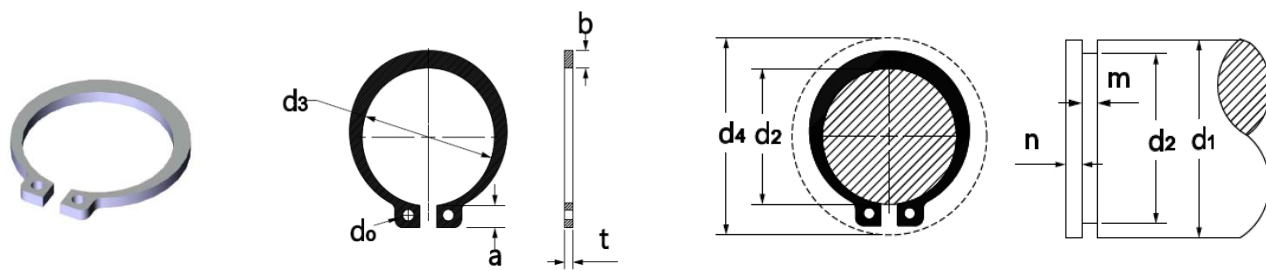


◆ S型-軸用止輪扣環
S Series External Retaining Rings (Shaft)

茂銓企業股份有限公司
MK Spring Co., Ltd.

Tel: +886-2-29901599 | service@mkspring.com.tw



單位Unit : mm

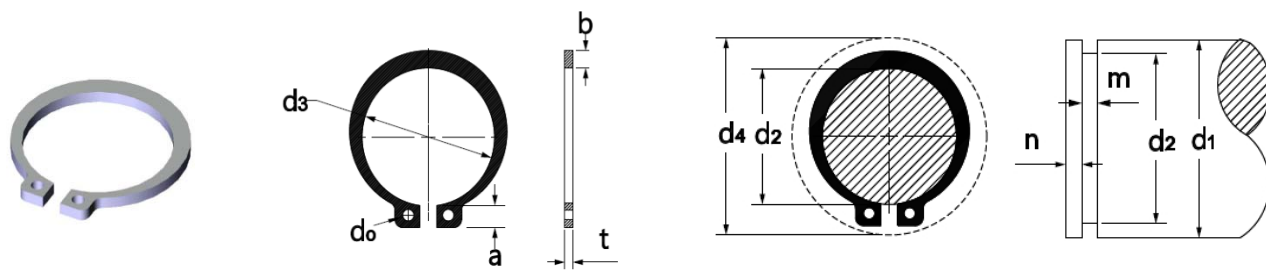
品 號	止 輪 尺 寸 Ring Dimension							適用軸尺寸 Shaft Dimension (Reference Only)	適用軸尺寸 Shaft Dimension (Reference Only)						
	d ₃		t		b	a	d _o		d ₄	d ₁	d ₂		m		n
	扣環直徑 Free Dia.	公差 Tol.	厚度 Thickness	公差 Tol.	寬度(約) App.	凸出(約) App.	孔(最小) Min.			軸直徑 Shaft Dia.	溝槽直徑 Groove Dia.	公差 Tol.	溝槽寬 Width	公差 Tol.	最小 Min.
S- 3	2.7	+0.04 -0.15	0.3	±0.025	0.5	1.7	0.7	7	3	2.85	+0 -0.04	0.35	+0.1 -0	0.3	
4	3.7		0.4	±0.03	0.9	2.2	0.8	9	4	3.8		0.5		0.3	
5	4.7		0.6	±0.04	1.1	2.4	0.8	10.5	5	4.8		0.7		0.3	
6	5.6	+0.06 -0.2	0.7		1.3	2.8	1.0	12	6	5.7	0.8	0.5			
7	6.5		0.8		1.4	3	1.0	14	7	6.7	0.9	0.5			
8	7.4		0.8		1.6	3	1.0	15	8	7.6	0.9	0.6			
9	8.4	±0.15	1.0	±0.05	1.8	3.2	1.0	16	9	8.6	+0/-0.09	1.15	+0.14 -0	0.6	
10	9.3		1.0		1.8	3	1.2	17	10	9.6		1.15		1.5	
11	10.2		1.0		2	3.1	1.2	18	11	10.5	1.15	1.5			
12	11.1	±0.18	1.0		2.1	3.2	1.5	19	12	11.5	1.15	1.5			
13	12		1.0		2.1	3.3	1.5	20	13	12.4	1.15	1.5			
14	12.9		1.0	2.2	3.4	1.7	22	14	13.4	1.15	1.5				
15	13.8	±0.18	1.0	±0.05	2.2	3.5	1.7	23	15	14.3	+0 -0.11	1.15	+0.14 -0	1.5	
16	14.7		1.0		2.2	3.6	1.7	24	16	15.2		1.15		1.5	
17	15.7		1.0		2.2	3.7	1.7	25	17	16.2		1.15		1.5	
18	16.5	±0.18	1.2	±0.05	2.6	3.8	1.7	26	18	17	+0 -0.11	1.35	+0.14 -0	1.5	
19	17.5		1.2		2.7	3.8	2.0	27	19	18		1.35		1.5	
20	18.5		1.2		2.7	3.9	2.0	28	20	19		1.35		1.5	
21	19.5	±0.2	1.2	±0.06	2.7	4	2.0	30	21	20	+0 -0.21	1.35	+0.14 -0	1.5	
22	20.5		1.2		2.7	4.1	2.0	31	22	21		1.35		1.5	
23	21.4		1.2		2.9	4.5	2.0	32.5	23	22		1.35		1.5	
24	22.2	±0.2	1.2	±0.06	3.1	4.2	2.0	33	24	22.9	+0 -0.21	1.35	+0.14 -0	1.7	
25	23.2		1.2		3.1	4.3	2.0	34	25	23.9		1.35		1.7	
26	24.2		1.2		3.1	4.4	2.0	35	26	24.9		1.35		1.7	
27	25	±0.2	1.2	±0.06	3.3	4.5	2.0	36	27	25.8	+0 -0.21	1.35	+0.14 -0	1.8	
28	25.9		1.5		3.1	4.6	2.0	38	28	26.6		1.65		2.1	
29	26.9		1.5		3.5	4.7	2.0	39	29	27.6		1.65		2.1	
30	27.9	±0.2	1.5	±0.06	3.5	4.8	2.0	40	30	28.6	+0 -0.21	1.65	+0.14 -0	2.1	
31	28.9		1.5		3.5	4.8	2.5	41	31	29.6		1.65		2.6	
32	29.6		1.5		3.5	5	2.5	43	32	30.3		1.65		2.6	
33	30.6	±0.25	1.5	±0.07	3.8	5	2.5	44	33	31.3	+0 -0.25	1.65	+0.14 -0	2.6	
34	31.5		1.5		4	5.3	2.5	45	34	32.3		1.65		2.6	
35	32.2		1.5		4	5.4	2.5	46	35	33		1.65		3.0	
36	33.2	±0.25	1.8(1.75)	±0.07	4	5.4	2.5	47	36	34	+0 -0.25	1.9	+0.14 -0	3.0	
37	34.2		1.8(1.75)		4.3	5.4	2.5	48	37	35		1.9		3.0	
38	35.2		1.8(1.75)		4.5	5.6	2.5	50	38	36		1.9		3.0	
40	37	±0.4	1.8(1.75)	±0.07	4.5	5.8	2.5	53	40	38	+0 -0.25	1.9	+0.14 -0	3.8	
42	38.5		1.8(1.75)		4.5	6.2	2.5	55	42	39.5		1.9		3.8	

◆ S型-軸用止輪扣環
S Series External Retaining Rings (Shaft)

茂銓企業股份有限公司

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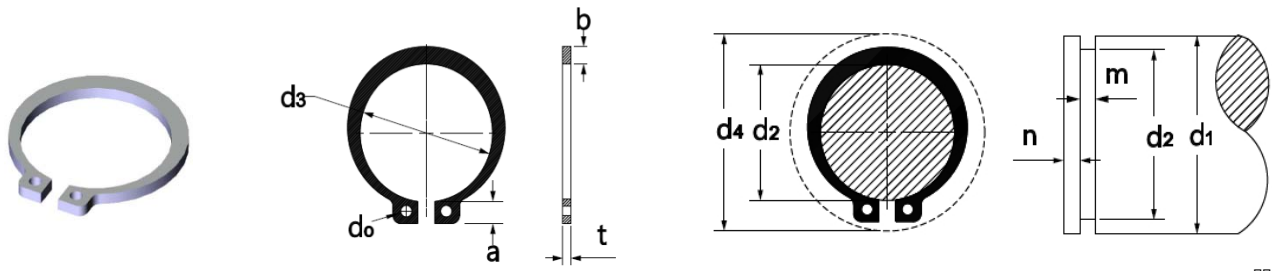


單位Unit : mm

品 號	止 輪 尺 寸 Ring Dimension							適用軸尺寸 Shaft Dimension (Reference Only)							
	d ₃		t		b	a	d _o		d ₄	d ₁	d ₂		m		n
	扣環直徑 Free Dia.	公差 Tol.	厚度 Thickness	公差 Tol.	寬度(約) App.	凸出(約) App.	孔(最小) Min.			Clearance Dia.	軸直徑 Shaft Dia.	溝槽直徑 Groove Dia.	公差 Tol.	溝槽寬 Width	公差 Tol.
S- 45	41.5	±0.4	1.8(1.75)	±0.07	4.8	6.3	2.5	58	45	42.5	+0	1.9	-0.25	3.8	
46	42.5		1.8(1.75)		5	6.3	2.5	60	46	43.5		1.9		3.8	
47	43.4		1.8(1.75)		5	6.6	2.5	61	47	44.5		1.9		3.8	
48	44.5		1.8(1.75)		4.8	6.5	2.5	62	48	45.5		1.9		3.8	
50	45.8		2.0		5	6.7	2.5	64	50	47		2.2		4.5	
52	47.8	2.0	5	6.8	2.5	66	52	49	2.2	4.5					
55	50.8	±0.45	2.0	±0.08	5	7	2.5	70	55	52	+0	2.2	-0.3	4.5	
56	51.8		2.0		5	7	2.5	71	56	53		2.2		4.5	
58	53.8		2.0		5.5	7.1	2.5	73	58	55		2.2		4.5	
60	55.8		2.0		5.5	7.2	2.5	75	60	57		2.2		4.5	
62	57.8		2.0		5.5	7.2	2.5	77	62	59		2.2		4.5	
63	58.8		2.0		5.5	7.3	2.5	78	63	60		2.2		4.5	
65	60.8		2.5		6.4	7.4	2.5	81	65	62		2.7		4.5	
68	63.5		2.5		6.4	7.8	2.5	84	68	65		2.7		4.5	
70	65.5		2.5		6.4	7.8	2.5	86	70	67		2.7		4.5	
72	67.5		2.5		7	7.9	2.5	88	72	69		2.7		4.5	
75	70.5	2.5	7	7.9	2.5	92	75	72	2.7	4.5					
78	73.5	2.5	7.4	8.1	2.5	95	78	75	2.7	4.5					
80	74.5	2.5	7.4	8.2	2.5	97	80	76.5	2.7	5.3					
82	76.5	2.5	7.4	8.3	3.0	99	82	78.5	2.7	5.3					
85	79.5	3.0	8	8.4	3.0	103	85	81.5	3.2	5.3					
88	82.5	±0.55	3.0	±0.09	8	8.6	3.0	106	88	84.5	+0	3.2	-0.35	5.3	
90	84.5		3.0		8	8.7	3.0	108	90	86.5		3.2		5.3	
95	89.5		3.0		8.6	9.1	3.0	114	95	91.5		3.2		5.3	
100	94.5		3.0		9	9.5	3.0	119	100	96.5		3.2		5.3	
105	98		4.0		9.5	9.8	3.0	125	105	101		4.2		6	
110	103	4.0	9.5	10	3.0	131	110	106	+0	4.2	6				
115	108	4.0	9.5	10.5	3.0	137	115	111		4.2	6				
120	113	4.0	10.3	10.9	3.0	143	120	116		4.2	6				
125	118	4.0	10.3	11.3	3.5	148	125	121		4.2	6				
130	123	4.0	11	11.5	3.5	154	130	126		4.2	6				
135	128	4.0	11	11.5	3.5	159	135	131	4.2	6					
140	133	+0.63 -1.26	4.0	±0.09	11	11.8	3.5	164	140	136	+0	4.2	-0.63	6	
145	138		4.0		11.6	11.8	3.5	170	145	141		4.2		6	
150	142		4.0		11.6	12.3	3.5	175	150	145		4.2		7.5	
155	146		4.0		12.2	12.7	3.5	181	155	150		4.2		7.5	
160	151		4.0		12.2	12.9	3.5	186	160	155		4.2		7.5	
165	155.5		4.0		12.9	13.1	3.5	192	165	160		4.2		7.5	

◆ S型-軸用止輪扣環

S Series External Retaining Rings (Shaft)



單位Unit : mm

品 號	止 輪 尺 寸 Ring Dimension							d ₄	適用軸尺寸 Shaft Dimension (Reference Only)					
	d ₃		t		b	a	d _o		d ₁	d ₂		m		n
	扣環直徑 Free Dia.	公差 Tol.	厚度 Thickness	公差 Tol.	寬度(約) App.	凸出(約) App.	孔(最小) Min.		軸直徑 Shaft Dia.	溝槽直徑 Groove Dia.	公差 Tol.	溝槽寬 Width	公差 Tol.	最小 Min.
Ring No.								Clearance Dia.						
S- 170	160.5	+0.63 -1.26	4.0	±0.09	12.9	-	4.0	197	170	165	+0 -0.63	4.2	+0.2 -0	7.5
175	165.5		4.0		12.9	-	4.0	202	175	170		4.2		7.5
180	170.5		4.0		13.5	-	4.0	208	180	175		4.2		7.5
185	175.5		4.0		13.5	-	4.0	213	185	180		4.2		7.5
190	180.5		4.0		14	-	4.0	219	190	185	4.2	7.5		
195	185.5		4.0		14	-	4.0	224	195	190	4.2	7.5		
200	190.5		4.0		14	-	4.0	229	200	195	4.2	7.5		
210	198.5	+0.72 -1.44	5.0	±0.15	14	-	4.0	239	210	204	+0 -0.72	5.2	+0.25 -0	9
220	208		5.0		14	-	4.0	249	220	214		5.2		9
230	218		5.0		14	-	4.0	259	230	224		5.2		9
240	228		5.0		14	-	4.0	269	240	234		5.2		9
250	238		5.0		14	-	4.0	279	250	244	5.2	9		
260	245		5.0		16	-	4.0	293	260	252	5.2	12		
270	255		+0.81 -1.62		5.0	16	-	4.0	303	270	262	+0 -0.81		5.2
280	265	5.0		16	-	4.0	313	280	272	5.2	12			
290	275	5.0		16	-	4.0	323	290	282	5.2	12			
300	285	5.0		16	-	4.0	333	300	292	5.2	12			

*未顯示於表格之規格歡迎來電洽詢

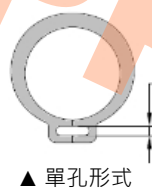
*Other sizes may be available upon request

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✓ 小尺寸規格 Alternative Design

S-7以下僅有單孔, S-8、S-9單雙孔皆有, S-10以上僅有雙孔
Special Lug for ring sizes S-3 thru S-9



▲ 單孔形式

✓ 規格標準 Standard Reference

日本工業規格 JIS B 2804

約略德國工業規格 Similar to DIN 471

✓ 材質、硬度 & 表面處理 Material, Hardness Ranges & Finish

材質 Material	硬度 Hardness Ranges	表面 Finish
彈簧鋼 SAE1050~SAE1090 Carbon Spring Steel	HRC 44-53 (Rockwell scale)	染黑 Black Oxide
		磷酸鹽 Black Phosphate (ACP)
不鏽鋼 SUS420 Stainless Steel Type 420	HRC 44-52 (Rockwell scale)	原色 Plain

✓ 包裝方式 Packaging

散裝 Bulk

條裝 Stacked

收縮塑膠膜 Plastic Shrink Wrapped

*條裝&收縮塑膠膜包裝僅接受訂購 · 暫無現貨供應 Not all sizes in stacked and plastic shrink wrapped in stock