

S型-軸用止輪扣環

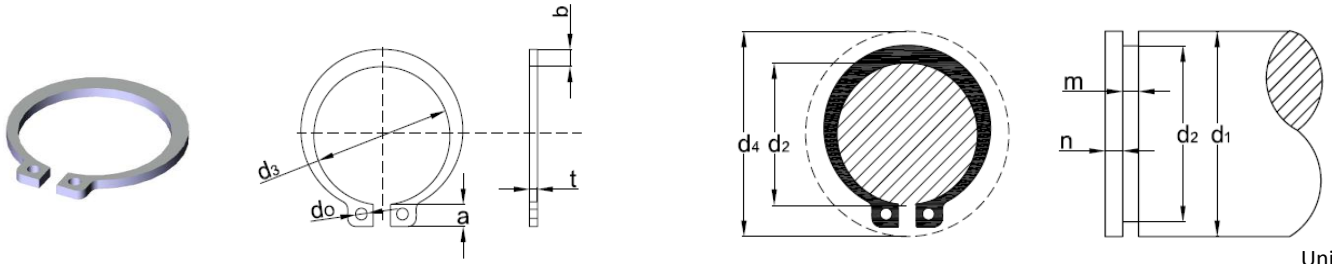
S SERIES EXTERNAL RETAINING RINGS (SHAFT)



華志彈簧五金有限公司

HJ Spring Co., Ltd.

TEL:886-2-29919909 FAX:886-2-29945768



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 | do | | d ₄ | d ₁ | d ₂ | m | n | |
| Ring No. | 基本尺寸 Free Dia. | 公差 Tol. | 基本尺寸 Thickness | 公差 Tol. | 約 App. | 約 App. | 最小 Min. | Clearance Dia. | 基本尺寸 Shaft Dia. | 基本尺寸 Groove Dia. | 公差 Tol. | 基本尺寸 Width | 公差 Tol. | 最小 Min. |
| S- 3 | 2.7 | +0.04 -0.15 | 0.25 | ±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 | | |
| 5 | 4.7 | | 0.6 | ±0.04 | 1.1 | 2.4 | 1 | 10.5 | 5 | 4.8 | | 0.7 | | |
| 6 | 5.6 | 0.7 | 1.3 | | 2.8 | 12 | | 6 | 5.7 | 0.8 | | | | |
| 7 | 6.5 | +0.1 -0.2 | 0.8 | | 1.4 | 3 | | 14 | 7 | 6.7 | +0 | 0.9 | | |
| 8 | 7.4 | | | | 1.6 | 3 | | 15 | 8 | 7.6 | -0.06 | | | |
| 9 | 8.4 | ±0.15 | 1 | | 1.8 | 3.2 | 1.5 | 16 | 9 | 8.6 | +0 | 1.15 | +0.14 -0 | 1.5 |
| 10 | 9.3 | | | | 1.8 | 3 | | 17 | 10 | 9.6 | -0.09 | | | |
| 11 | 10.2 | ±0.18 | 1 | | 2 | 3.1 | 1.7 | 18 | 11 | 10.5 | +0 -0.11 | | | |
| 12 | 11.1 | | | | 2.1 | 3.2 | | 19 | 12 | 11.5 | | | | |
| 13 | 12 | | | | 2.1 | 3.3 | | 20 | 13 | 12.4 | | | | |
| 14 | 12.9 | | | | 2.2 | 3.4 | | 22 | 14 | 13.4 | | | | |
| 15 | 13.8 | | | 2.2 | 3.5 | 23 | | 15 | 14.3 | -0.11 | | | | |
| 16 | 14.7 | | | 2.2 | 3.6 | 24 | | 16 | 15.2 | +0 -0.21 | | | | |
| 17 | 15.7 | | | 2.2 | 3.7 | 25 | | 17 | 16.2 | | | | | |
| 18 | 16.5 | | | ±0.2 | 1.2 | 2.6 | | 3.8 | 2 | 26 | | | | |
| 19 | 17.5 | 2.7 | 3.8 | | | 27 | 19 | 18 | | | | | | |
| 20 | 18.5 | 2.7 | 3.9 | | | 28 | 20 | 19 | | | | | | |
| 21 | 19.5 | 2.7 | 4 | | | 30 | 21 | 20 | | | | | | |
| 22 | 20.5 | 2.7 | 4.1 | | | 31 | 22 | 21 | | | | | | |
| 23 | 21.4 | 2.9 | 4.5 | | | 32.5 | 23 | 22 | | | | | | |
| 24 | 22.2 | 3.1 | 4.2 | | | 33 | 24 | 22.9 | | +0 | | | | |
| 25 | 23.2 | 3.1 | 4.3 | | | 34 | 25 | 23.9 | | -0.21 | | | | |
| 26 | 24.2 | 3.1 | 4.4 | | | 35 | 26 | 24.9 | | +0 -0.25 | | | | |
| 27 | 25 | 3.3 | 4.5 | | | 36 | 27 | 25.8 | | | | | | |
| 28 | 25.9 | 3.1 | 4.6 | 38 | 28 | 26.6 | | | | | | | | |
| 29 | 26.9 | 3.5 | 4.7 | 39 | 29 | 27.6 | | | | | | | | |
| 30 | 27.9 | 3.5 | 4.8 | 40 | 30 | 28.6 | | | | | | | | |
| 31 | 28.9 | 3.5 | 4.8 | 41 | 31 | 29.6 | | | | | | | | |
| 32 | 29.6 | 3.5 | 5 | 43 | 32 | 30.3 | | | | | | | | |
| 33 | 30.6 | 3.8 | 5 | 44 | 33 | 31.3 | | | | | | | | |
| 34 | 31.5 | 4 | 5.3 | 45 | 34 | 32.3 | | | | | | | | |
| 35 | 32.2 | 4 | 5.4 | 46 | 35 | 33 | | | | | | | | |
| 36 | 33.2 | ±0.25 | 1.5 | 4 | 5.4 | 2.5 | 47 | 36 | 34 | +0 | 1.65 | +0.14 -0 | 2 | |
| 37 | 34.2 | | | 4.3 | 5.4 | | 48 | 37 | 35 | -0.25 | | | | |
| 38 | 35.2 | | | 4.5 | 5.6 | | 50 | 38 | 36 | | | | | |
| 40 | 37 | ±0.4 | 1.8 (1.75) | 4.5 | 5.8 | 53 | 40 | 38 | +0 -0.25 | | | | | |
| 42 | 38.5 | | | 4.5 | 6.2 | 55 | 42 | 39.5 | | | | | | |
| 45 | 41.5 | | | 4.8 | 6.3 | 58 | 45 | 42.5 | | | | | | |

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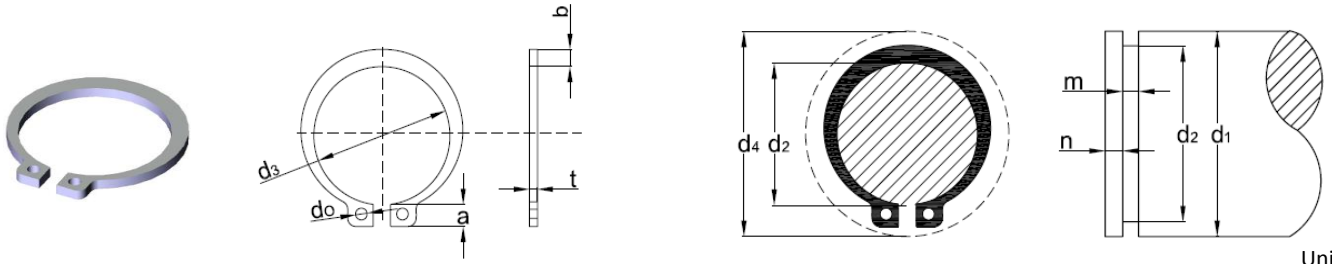
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Unit : mm

| 品號 | 止輪尺寸 Ring Dimension | | | | | | | 適用軸尺寸 Shaft Dimension (Reference Only) | | | | | | |
|----------|---------------------|----------------|-------------------|------------|-----------|-----------|------------|----------------------------------------|--------------------|---------------------|----------------|---------------|-------------|------------|
| | d ₃ | | t | | b | a | do | | d ₄ | d ₁ | d ₂ | m | n | |
| Ring No. | 基本尺寸 Free Dia. | 公差 Tol. | 基本尺寸 Thickness | 公差 Tol. | 約 App. | 約 App. | 最小 Min. | Clearance Dia. | 基本尺寸 Shaft Dia. | 基本尺寸 Groove Dia. | 公差 Tol. | 基本尺寸 Width | 公差 Tol. | 最小 Min. |
| S- 46 | 42.5 | ±0.4 | 1.8 (1.75) | ±0.06 | 5 | 6.3 | 2.5 | 60 | 46 | 43.5 | +0 -0.25 | 1.9 | | |
| 47 | 43.4 | | | | 5 | 6.6 | | 61 | 47 | 44.5 | | | | |
| 48 | 44.5 | | | | 4.8 | 6.5 | | 62 | 48 | 45.5 | | | | |
| 50 | 45.8 | ±0.45 | 2.0 | ±0.06 | 5 | 6.7 | 3.0 | 64 | 50 | 47 | +0 -0.35 | 2.2 | | 2 |
| 52 | 47.8 | | | | 5 | 6.8 | | 66 | 52 | 49 | | | | |
| 55 | 50.8 | | | | 5 | 7 | | 70 | 55 | 52 | | | | |
| 56 | 51.8 | | | | 5 | 7 | | 71 | 56 | 53 | | | | |
| 58 | 53.8 | | | | 5.5 | 7.1 | | 73 | 58 | 55 | | | | |
| 60 | 55.8 | | | | 5.5 | 7.2 | | 75 | 60 | 57 | | | | |
| 62 | 57.8 | | | | 5.5 | 7.2 | | 77 | 62 | 59 | | | | |
| 63 | 58.8 | | | | 5.5 | 7.3 | | 78 | 63 | 60 | | | | |
| 65 | 60.8 | | | | 6.4 | 7.4 | | 81 | 65 | 62 | | | | |
| 68 | 63.5 | | | | 6.4 | 7.8 | | 84 | 68 | 65 | | | | |
| 70 | 65.5 | ±0.55 | 2.5 | ±0.07 | 6.4 | 7.8 | 3.5 | 86 | 70 | 67 | +0 -0.54 | 2.7 | | 2.5 |
| 72 | 67.5 | | | | 7 | 7.9 | | 88 | 72 | 69 | | | | |
| 75 | 70.5 | | | | 7 | 7.9 | | 92 | 75 | 72 | | | | |
| 78 | 73.5 | | | | 7.4 | 8.1 | | 95 | 78 | 75 | | | | |
| 80 | 74.5 | | | | 7.4 | 8.2 | | 97 | 80 | 76.5 | | | | |
| 82 | 76.5 | | | | 7.4 | 8.3 | | 99 | 82 | 78.5 | | | | |
| 85 | 79.5 | | | | 8 | 8.4 | | 103 | 85 | 81.5 | | | | |
| 88 | 82.5 | | | | 8 | 8.6 | | 106 | 88 | 84.5 | | | | |
| 90 | 84.5 | ±0.63 -1.26 | 3.0 | ±0.07 | 8 | 8.7 | 4.0 | 108 | 90 | 86.5 | +0 -0.63 | 3.2 | +0.18 -0 | 3 |
| 95 | 89.5 | | | | 8.6 | 9.1 | | 114 | 95 | 91.5 | | | | |
| 100 | 94.5 | | | | 9 | 9.5 | | 119 | 100 | 96.5 | | | | |
| 105 | 98 | | | | 9.5 | 9.8 | | 125 | 105 | 101 | | | | |
| 110 | 103 | | | | 9.5 | 10 | | 131 | 110 | 106 | | | | |
| 115 | 108 | ±0.72 -1.44 | 4.0 | ±0.09 | 9.5 | 10.5 | 4.0 | 137 | 115 | 111 | +0 -0.2 | 4.2 | | 4 |
| 120 | 113 | | | | 10.3 | 10.9 | | 143 | 120 | 116 | | | | |
| 125 | 118 | | | | 10.3 | 11.3 | | 148 | 125 | 121 | | | | |
| 130 | 123 | | | | 11 | 11.5 | | 154 | 130 | 126 | | | | |
| 135 | 128 | | | | 11 | 11.5 | | 159 | 135 | 131 | | | | |
| 140 | 133 | | | | 11 | 11.8 | | 164 | 140 | 136 | | | | |
| 145 | 138 | | | | 11.6 | 11.8 | | 170 | 145 | 141 | | | | |
| 150 | 142 | | | | 11.6 | 12.3 | | 175 | 150 | 145 | | | | |
| 155 | 146 | | | | 12.2 | 12.7 | | 181 | 155 | 150 | | | | |
| 160 | 151 | | | | 12.2 | 12.9 | | 186 | 160 | 155 | | | | |
| 165 | 155.5 | 12.9 | 13.1 | 192 | 165 | 160 | | | | | | | | |
| 170 | 160.5 | 12.9 | - | 197 | 170 | 165 | | | | | | | | |
| 175 | 165.5 | 12.9 | - | 202 | 175 | 170 | | | | | | | | |

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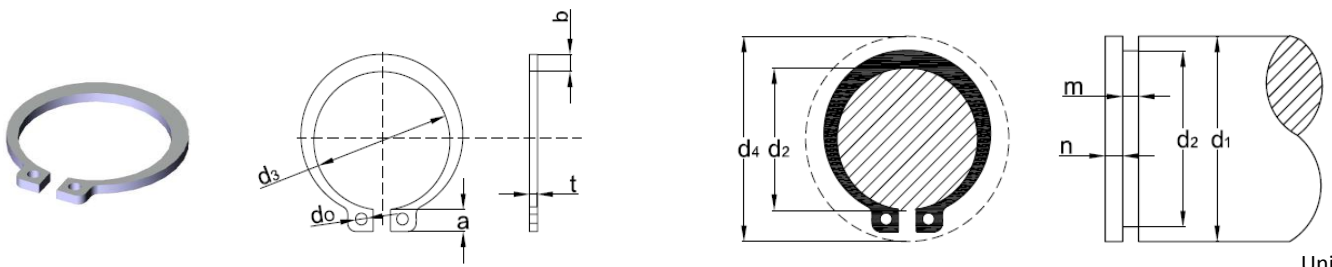
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Unit : mm

| 品號 | 止輪尺寸 Ring Dimension | | | | | | | 適用軸尺寸 Shaft Dimension (Reference Only) | | | | | | | | | | | |
|---------------|---------------------|----------------|-------------------|------------|----------------|-----------|------------|----------------------------------------|--------------------|---------------------|----------------|---------------|------------|------------|-----|-----|-----|-------------|---|
| | d ₃ | | t | | b | a | do | | d ₄ | d ₁ | d ₂ | m | n | | | | | | |
| Ring No. | 基本尺寸 Free Dia. | 公差 Tol. | 基本尺寸 Thickness | 公差 Tol. | 約 App. | 約 App. | 最小 Min. | Clearance Dia. | 基本尺寸 Shaft Dia. | 基本尺寸 Groove Dia. | 公差 Tol. | 基本尺寸 Width | 公差 Tol. | 最小 Min. | | | | | |
| S- 180 | 170.5 | +0.72 -1.44 | 4.0 | ±0.09 | 13.5 | - | 4.0 | 208 | 180 | 175 | -0.63 | 4.2 | +0.2 -0 | 7.5 | | | | | |
| 185 | 175.5 | | | | 13.5 | - | | 213 | 185 | 180 | | | | | | | | | |
| 190 | 180.5 | | | | 14 | - | | 219 | 190 | 185 | | | | | | | | | |
| 195 | 185.5 | | | | 14 | - | | 224 | 195 | 190 | | | | | | | | | |
| 200 | 190.5 | | | | 14 | - | | 229 | 200 | 195 | | | | | | | | | |
| 210 | 198.5 | | | | 14 | - | | 239 | 210 | 204 | | | | | | | | | |
| 220 | 208 | | | | 14 | - | | 249 | 220 | 214 | +0 | | | | | | | | |
| 230 | 218 | | | | 14 | - | | 259 | 230 | 224 | -0.72 | | | | | | | | |
| 240 | 228 | | | | +0.81 -1.62 | 5.0 | | ±0.15 | 14 | - | 269 | | | | 240 | 234 | 5.2 | +0.25 -0 | 9 |
| 250 | 238 | | | | | | | | 14 | - | 279 | | | | 250 | 244 | | | |
| 260 | 245 | 16 | - | 293 | | | 260 | | 252 | | | | | | | | | | |
| 270 | 255 | 16 | - | 303 | | | 270 | | 262 | +0 | | | | | | | | | |
| 280 | 265 | 16 | - | 313 | | | 280 | | 272 | -0.81 | | | | | | | | | |
| 290 | 275 | 16 | - | 323 | | | 290 | | 282 | | | | | | | | | | |
| 300 | 285 | 16 | - | 333 | | | 300 | | 292 | | | | | | | | | | |

*未顯示於表格之規格歡迎來電洽詢

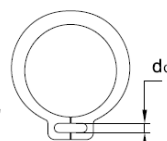
*Other sizes may be available upon request

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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

◎ 材質&硬度(參考) Material & Hardness Ranges (Rockwell scale)

彈簧鋼 · 硬度HRC 44-53 Carbon Spring Steel SAE1050~SAE1090, HRC44~HRC53

不鏽鋼SUS420 · 硬度HRC 36-44 Stainless Steel Type 420, HRC36~HRC44 (Not all sizes in Stainless in stock)

◎ 表面 Finish

染黑 Black Oxide

◎ 包裝方式 Packaging

散裝 Bulk

條裝 Stacked

收縮塑膠膜 Plastic Shrink Wrapped

(Not all sizes in Stacked and Plastic Shrink Wrapped in stock)