

■ STRUCTURE

SRIM120/121/122 BALL RETAINER IS WITH COPPER OR ALUMINIUM OR POM AS ITS RETAINER ON WHICH THE STEEL BALLS ARE ARRANGED ORDERLY IN CERTAIN ANGLE AND DENSITY BASED ON THE PRINCIPLE OF STEEL ROLLING. THE STEEL BALL ARRAY IS MAINLY DEVIDED INTO TWO CATEGORIES: SPIRAL ARRAY AND STRAIGHT LINE ARRAY.

■ CHARACTERISTICS

- 1.LOW COEF FRICTION
- 2.LONG LIFE SPAN
- 3.HIGH MOVEMENT ACCURACY
- 4.BE PROPER FOR STRAIGHT LINE AND SPIRAL MOVEMENT
- 5.FAST MOVEMENT

■ MECHANICAL AND PHYSICAL PROPERTIES

MAX LOAD CAPACITY	30N/mm ²
SHRINK FIT	0.01mm~0.02mm
MAX SLIDING SPEED	6m/s
COEF FRICTION	0.01~0.08 μ
ROLLING DIAMETER DEVIATION	<0.002mm

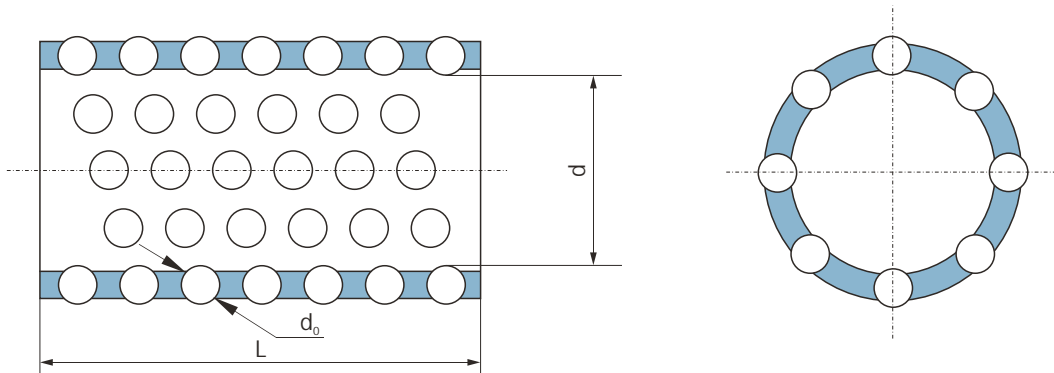
■ APPLICATION

SRIM120/121/122 BALL RETAINER IS A NEW GENERATION REPLACEMENT OF GUIDE PIN BUSH WITH HIGH SPEED MOVEMENT WHICH IS MAINLY USED IN HIGH PRECISION PUNCHING TOOL, HIGH PRECISION MACHINE TOOL ETC.

■ MATCHING MATERIAL

1. GUIDE TUBE MATERIAL: GCR15 HARDNESS: HRC 62-66
MEASUREMENT: USING TRADITIONAL MEASUREMENT METHOD (O.D.MICROMETER CALIPER, I.D. MICROMETER CALIPER) TO MEASURE HOUSING BORE Dh, SHAFT DIAMETER AND STEEL BALL DIAMETER d_0 , REQUESTING $df + 2d_0 - Dh = 0.01 - 0.02mm$.
- 2.SHAFT MATERIAL: GCr 15 HARDNESS: HRC 62-66 SHAFT DIAMETER TOLERANCE: h5.
- 3.STEEL BALL MATERIAL: GCr 15 HARDNESS: HRC 62-66 STEEL BALL OUTSIDE DIAMETER TOLERANCE: +0.001/-0.001mm

SPIRAL ARRAY BALL RETAINER



Unit: mm

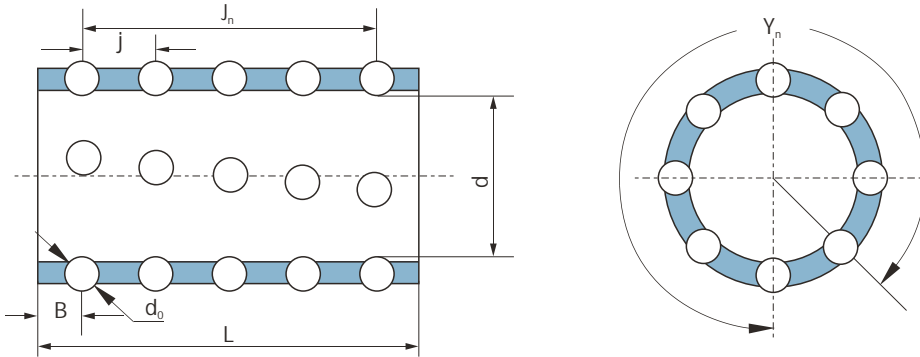
TYPE	d_0	d	L	n
SRIM x x x A 2.5 1040	2.5	10	40	72
SRIM x x x A 3 1843			43	74
SRIM x x x A 3 1850		18	50	90
SRIM x x x A 3 1855			55	100
SRIM x x x A 3 1860			60	112
SRIM x x x A 3 1864			64	120
SRIM x x x A 3 1876			76	146
SRIM x x x A 3 1943			43	74
SRIM x x x A 3 1950			19	50
SRIM x x x A 3 1955		55		100
SRIM x x x A 3 1960		60		112
SRIM x x x A 3 2043		20	43	74
SRIM x x x A 3 2050			50	90
SRIM x x x A 3 2055			55	100
SRIM x x x A 3 2060			60	112
SRIM x x x A 3 2064			64	120
SRIM x x x A 3 2075			75	144
SRIM x x x A 3 2143			43	74
SRIM x x x A 3 2150		21	50	90
SRIM x x x A 3 2155			55	100
SRIM x x x A 3 2160			60	112
SRIM x x x A 3 2165			65	122
SRIM x x x A 3 2250		22	50	90
SRIM x x x A 3 2255			55	100
SRIM x x x A 3 2260			60	112
SRIM x x x A 3 2264			64	120
SRIM x x x A 3 2270			70	132
SRIM x x x A 3 2360			60	112
SRIM x x x A 3 2460			24	60
SRIM x x x A 3 2465		65		122
SRIM x x x A 3 2470		70		132
SRIM x x x A 3 2475		75		144
SRIM x x x A 3 2480		80		154
SRIM x x x A 3 2548		25	48	86
SRIM x x x A 3 2550			50	90
SRIM x x x A 3 2555			55	100
SRIM x x x A 3 2560			60	112
SRIM x x x A 3 2564			64	120
SRIM x x x A 3 2575			75	144
SRIM x x x A 3 2576			76	146
SRIM x x x A 3 2580			80	154
SRIM x x x A 3 2585		85	164	
SRIM x x x A 3 2660		26	60	112
SRIM x x x A 3 2665			65	122

TYPE	d ₀	d	L	n	
SRIM x x x A 3 2670	3	26	70	132	
SRIM x x x A 3 2680			80	154	
SRIM x x x A 3 2685			85	164	
SRIM x x x A 3 2775	4	27	75	144	
SRIM x x x A 4 2860		28	60	108	
SRIM x x x A 4 2864			64	118	
SRIM x x x A 4 2875			75	142	
SRIM x x x A 4 2876			76	144	
SRIM x x x A 4 2884			84	160	
SRIM x x x A 4 2890			90	174	
SRIM x x x A 4 3053		30	53	94	
SRIM x x x A 4 3060			60	108	
SRIM x x x A 4 3065			65	120	
SRIM x x x A 4 3070			70	130	
SRIM x x x A 4 3075			75	140	
SRIM x x x A 4 3080			80	152	
SRIM x x x A 4 3085		31	85	162	
SRIM x x x A 4 3140			40	66	
SRIM x x x A 4 3150			50	88	
SRIM x x x A 4 3160			60	108	
SRIM x x x A 4 3175			75	142	
SRIM x x x A 4 3185			85	162	
SRIM x x x A 4 3250		32	50	88	
SRIM x x x A 4 3253			53	94	
SRIM x x x A 4 3260			60	108	
SRIM x x x A 4 3270			70	130	
SRIM x x x A 4 3275			75	140	
SRIM x x x A 4 3276			76	142	
SRIM x x x A 4 3284			84	160	
SRIM x x x A 4 3285			85	162	
SRIM x x x A 4 3290			90	174	
SRIM x x x A 4 3295			95	184	
SRIM x x x A 4 3470			34	70	130
SRIM x x x A 4 3475				75	142
SRIM x x x A 4 3480		80		152	
SRIM x x x A 4 3490		90		174	
SRIM x x x A 4 3495		95		184	
SRIM x x x A 4 3570		35		70	130
SRIM x x x A 4 3576			76	144	
SRIM x x x A 4 3584	84		160		
SRIM x x x A 4 3590	90		174		
SRIM x x x A 4 3595	95		184		
SRIM x x x A 4 3680	36		80	152	
SRIM x x x A 4 3685		85	162		
SRIM x x x A 4 3690		90	174		
SRIM x x x A 5 3795	5	37	95	182	
SRIM x x x A 5 3868		38	68	124	
SRIM x x x A 5 3870			70	128	
SRIM x x x A 5 3875			75	138	
SRIM x x x A 5 3880			80	150	
SRIM x x x A 5 3885			85	160	
SRIM x x x A 5 3890			90	172	
SRIM x x x A 5 3895		95	182		
SRIM x x x A 5 4068		40	68	124	
SRIM x x x A 5 4075			75	138	
SRIM x x x A 5 4080			80	150	
SRIM x x x A 5 4085			85	160	
SRIM x x x A 5 4090			90	172	
SRIM x x x A 5 4095			95	182	

TYPE	d ₀	d	L	n
SRIM x x x A 5 4270	5	42	70	128
SRIM x x x A 5 4275			75	138
SRIM x x x A 5 4280			80	150
SRIM x x x A 5 4285			85	160
SRIM x x x A 5 4290			90	172
SRIM x x x A 5 4295			95	182
SRIM x x x A 5 4573			45	73
SRIM x x x A 5 4580		80		150
SRIM x x x A 5 4585		85		160
SRIM x x x A 5 4590		90		172
SRIM x x x A 5 4595		95		182
SRIM x x x A 5 45100		100		192
SRIM x x x A 5 45110		110		214
SRIM x x x A 5 4870		48	70	128
SRIM x x x A 5 4880			80	150
SRIM x x x A 5 4890			90	172
SRIM x x x A 5 4895			95	182
SRIM x x x A 5 5070			50	70
SRIM x x x A 5 5080		80		150
SRIM x x x A 5 5090		90		172
SRIM x x x A 5 5095		95		182
SRIM x x x A 5 50100		100		192
SRIM x x x A 5 50110		110		214
SRIM x x x A 5 5270		52		70
SRIM x x x A 5 5280			80	150
SRIM x x x A 5 5290			90	172
SRIM x x x A 5 5295			95	182
SRIM x x x A 5 5580		55	80	150
SRIM x x x A 5 5590			90	172
SRIM x x x A 5 55100			100	192
SRIM x x x A 5 56106		56	106	206
SRIM x x x A 5 5880		58	80	150
SRIM x x x A 5 5890			90	172
SRIM x x x A 5 58100			100	192
SRIM x x x A 5 6080		60	80	150
SRIM x x x A 5 6090			90	172
SRIM x x x A 5 60100			100	192
SRIM x x x A 5 60110			110	214
SRIM x x x A 5 7090		70	90	170
SRIM x x x A 5 7095			95	182
SRIM x x x A 5 70100			100	192
SRIM x x x A 5 70110			110	214
SRIM x x x A 5 7590	75	90	172	
SRIM x x x A 5 7595		95	182	
SRIM x x x A 5 75100		100	192	
SRIM x x x A 5 75110		110	214	
SRIM x x x A 5 8090	80	90	172	
SRIM x x x A 5 80100		100	192	
SRIM x x x A 5 80110		110	214	
SRIM x x x A 5 80120		120	236	
SRIM x x x A 5 80125		125	246	
SRIM x x x A 5 80130		130	258	
SRIM x x x A 5 8590	85	90	172	
SRIM x x x A 5 85100		100	192	
SRIM x x x A 5 85110		110	214	
SRIM x x x A 5 85120		120	236	
SRIM x x x A 5 90100	90	100	192	
SRIM x x x A 5 90110		110	214	
SRIM x x x A 5 90120		120	236	

TYPE	d_0	d	L	n
SRIM x x x A 5 90130	5	90	130	258
SRIM x x x A 5 90140			140	278
SRIM x x x A 5 95120		95	120	236
SRIM x x x A 5 100100			100	192
SRIM x x x A 5 100110		100	110	214
SRIM x x x A 5 100120			120	236
SRIM x x x A 5 100130			130	258
SRIM x x x A 5 100140			140	278
SRIM x x x A 5 100150			150	290

STRAIGHT LINE ARRAY BALL RETAINER



Unit: mm

TYPE	d_0	d	L	Y_n	J_n	n	j	B	
SRIM x x x B 3 1950	3	19	50	12	8	96	5.5	5.75	
SRIM x x x B 3 1960			60		10	120		5.25	
SRIM x x x B 3 2050		20	50		8	96		5.75	
SRIM x x x B 3 2060			60		10	120		5.25	
SRIM x x x B 3 2250		22	50	14	8	112	5.75	5.75	
SRIM x x x B 3 2260			60		10	140			
SRIM x x x B 3 2360		23	60	14	10	140	5.25	5.25	
SRIM x x x B 3 2475			24		75	13			208
SRIM x x x B 3 2550		25	50	16	8	128	5.5	5.75	
SRIM x x x B 3 2560					10	160		5.25	
SRIM x x x B 3 2575			75		13	208	5.45	4.8	
SRIM x x x B 3 2775						13		208	
SRIM x x x B 4 2860		4	28	60	14	8	112	6.5	7.25
SRIM x x x B 4 2875				75		11	154		5.0
SRIM x x x B 4 3060			30	60		8	112		7.25
SRIM x x x B 4 3075				75		11	154		5.0
SRIM x x x B 4 3260	32		60	16	8	128	6.5	7.25	
SRIM x x x B 4 3275			75		11	176		5.0	
SRIM x x x B 4 3290			90		13	208		6.0	
SRIM x x x B 4 3685	36		85	16	12	192	8.0	6.75	
SRIM x x x B 4 3690			90		13	208		6.0	
SRIM x x x B 5 3870	5		38	70	18	8	128	7.9	7.0
SRIM x x x B 5 3890				90		11	176		5.5
SRIM x x x B 5 4090			40	90		11	176		7.9
SRIM x x x B 5 4590		90		11		198	7.9		
SRIM x x x B 5 45110		45	110	20	13	234	8.0	7.0	
SRIM x x x B 5 5090			90		11	220		5.5	
SRIM x x x B 5 50110		50	110	20	13	260	8.0	7.0	
SRIM x x x B 5 6090			90		22	11		242	5.5
SRIM x x x B 5 60110		60	110	13		286	8.0	7.0	
SRIM x x x B 5 80130			80	130	28	15		420	9.0