

STRIPPER GUIDE BUSHINGS

— OIL-FREE TYPE —



Printed in Red

STRIPPER GUIDE BUSHINGS

— BALL CAGE INTEGRATED TYPE —



Printed in Red

Copper alloy oil-free type Use the stripper guide bushings at room temperatures (40°C or less). The quantity discount rate is also applicable to alteration cost. All price & lead time are to be quoted.

RoHS **SGCZ** (Loctite adhesive type)

① SUJ2 + Copper alloy
MoS₂ (embedded)
② 45HRC

D _{h4}	Catalog No.		L	U/Price Q'ty: 1~9
	Type	d		
16 ⁰ _{-0.005}	SGCZ	10	10 13 16 20 22 25	Quotation
20		13	13 16 20 22 25 30	
24 ⁰ _{-0.006}		16	16 20 22 25 30 35	
28		20	16 20 22 25 30 35	
34 ⁰ _{-0.007}		25	20 22 25 30 35	

* MoS₂ is a special solid lubricant which provides outstanding wear resistance.
* SUJ2 and copper alloy are coupled by sintering.

RoHS **SGFZ** (Loctite adhesive type)

① SUJ2 + Copper alloy
MoS₂ (embedded)
② 45HRC

D _{h4}	Catalog No.		L	U/Price Q'ty: 1~9
	Type	d		
16 ⁰ _{-0.005}	SGFZ	10	10 13 16 20 22 25	Quotation
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24 ⁰ _{-0.006}		16	16 20 22 25 30 35	
28		20	16 20 22 25 30 35	
34 ⁰ _{-0.007}		25	20 22 25 30 35	

* MoS₂ is a special solid lubricant which provides outstanding wear resistance.
* SUJ2 and copper alloy are coupled by sintering.

Sintered alloy (Dispersed Solid lubricant) oil-free type

RoHS **SGBM** (Loctite adhesive type)

① Special sintered alloy

D _{h4}	Catalog No.		L	U/Price Q'ty: 1~9
	Type	d		
16 ⁰ _{-0.005}	SGBM	10	10 13 16 20 22 25	Quotation
20		13	13 16 20 22 25 30	
24 ⁰ _{-0.006}		16	16 20 22 25 30 35	
28		20	20 22 25 30 35	
34 ⁰ _{-0.007}		25	20 22 25 30 35	

RoHS **SGHM** (Loctite adhesive type)

① Special sintered alloy

D _{h4}	Catalog No.		L	U/Price Q'ty: 1~9
	Type	d		
16 ⁰ _{-0.005}	SGHM	10	10 13 16 20 22 25	Quotation
20		13	13 16 20 22 25 30	
24 ⁰ _{-0.006}		16	16 20 22 25 30 35	
28		20	20 22 25 30 35	
34 ⁰ _{-0.007}		25	20 22 25 30 35	

Product data P.2

D _{h4}	Catalog No.		L	U/Price Q'ty: 1~9
	Type	d		
16 ⁰ _{-0.005}	SGBM	10	10 13 16 20 22 25	Quotation
20		13	13 16 20 22 25 30	
24 ⁰ _{-0.006}		16	16 20 22 25 30 35	
28		20	20 22 25 30 35	
34 ⁰ _{-0.007}		25	20 22 25 30 35	

D _{h4}	Catalog No.		L	U/Price Q'ty: 1~9
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16 ⁰ _{-0.005}	SGHM	10	10 13 16 20 22 25	Quotation
20		13	13 16 20 22 25 30	
24 ⁰ _{-0.006}		16	16 20 22 25 30 35	
28		20	20 22 25 30 35	
34 ⁰ _{-0.007}		25	20 22 25 30 35	

Quantity discount rate

Quantity	1~9	10~49	50~99	100~200
Rate	—	5%	10%	15%

Order Catalog No. — L
SGFZ 10 — 16
 • Printed in Red • Printed in Blue

Delivery SGP Stock **3** Days

For area out of Singapore please refer to P.i.

Alteration Catalog No. — L(LC)
SGFZ 16 — LC18.0
 5 Days Express T Express A
 For area out of Singapore please refer to P.i.

Alteration Code	Changes dimension L (full length)				Machines grooves for Loctite.																																					
	LC				DLC																																					
Spec.	<p>• SGCZ</p> <p>For SGCZ and SGFZ, R may become large depending on the position of the solid lubricant.</p> <table border="1"> <thead> <tr> <th>d</th> <th>LC</th> <th>Δ</th> </tr> </thead> <tbody> <tr><td>10</td><td>8.0 ≤ LC < L</td><td>0</td></tr> <tr><td>13</td><td>10.0 ≤ LC < L</td><td>0</td></tr> <tr><td>16</td><td>13.0 ≤ LC < L</td><td>-0.2</td></tr> <tr><td>20</td><td>16.0 ≤ LC < L</td><td>-0.2</td></tr> <tr><td>25</td><td>20.0 ≤ LC < L</td><td>-0.2</td></tr> </tbody> </table>	d	LC	Δ	10	8.0 ≤ LC < L	0	13	10.0 ≤ LC < L	0	16	13.0 ≤ LC < L	-0.2	20	16.0 ≤ LC < L	-0.2	25	20.0 ≤ LC < L	-0.2	<p>• SGFZ</p>	<p>• SGBM</p> <p>Depending on the position of the solid lubricant, R may become large.</p> <table border="1"> <thead> <tr> <th>d</th> <th>LC</th> <th>Δ</th> </tr> </thead> <tbody> <tr><td>10</td><td>8.0 ≤ LC < L</td><td>0</td></tr> <tr><td>13</td><td>10.0 ≤ LC < L</td><td>0</td></tr> <tr><td>16</td><td>13.0 ≤ LC < L</td><td>-0.2</td></tr> <tr><td>20</td><td>16.0 ≤ LC < L</td><td>-0.2</td></tr> <tr><td>25</td><td>20.0 ≤ LC < L</td><td>-0.2</td></tr> </tbody> </table>	d	LC	Δ	10	8.0 ≤ LC < L	0	13	10.0 ≤ LC < L	0	16	13.0 ≤ LC < L	-0.2	20	16.0 ≤ LC < L	-0.2	25	20.0 ≤ LC < L	-0.2	<p>• SGHM</p>	<p>Grooves for Loctite are machined on the outside diameter of bushing.</p> <p>Straight type/Head type * Number of grooves on the outer diameter. 8.0 ≤ L (LC) ≤ 15.9 → 1 16.0 ≤ L (LC) ≤ 24.9 → 2 25.0 ≤ L (LC) ≤ 35.0 → 3</p>	
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Price	Quotation																																									

Stocks Availability Subjected to Prior Sales.

Ball cage integrated type

The quantity discount rate is also applicable to alteration cost. All price & lead time are to be quoted.

RoHS **SGBB** (Press fit type)

① SUJ2
② A5052S
③ 58HRC~

Since both ends of SGBB are fastened with snap rings, the ball cage does not come off from the main body.

D _{h5}	L	N Number of rows	n Number of balls	S	Maximum stroke	Catalog No.		U/Price Q'ty: 1~9
						Type	d	
16 ^{+0.020} _{+0.012}	24	5	55	7.8	15.6	SGBB (Press fit type)	8	Quotation
20	30						10	
25 ^{+0.024} _{+0.015}	35	66	9.25	18.5	13			
28	37	6	78	10.15	20.3		16	
32 ^{+0.028} _{+0.017}	45	96	12.75	25.5	20			
38	50	7	112	14.0	28.0	25		

RoHS **SGBBL** (Loctite adhesive type)

① SUJ2
② A5052S
③ 58HRC~

Since both ends of SGBBL are fastened with snap rings, the ball cage does not come off from the main body.

D _{h4}	N Number of rows	n Number of balls	S	Maximum stroke	Catalog No.		U/Price Q'ty: 1~9
					Type	d	
16 ⁰ _{-0.005}	5	35	10	10	SGBBL (Loctite adhesive type)	8	Quotation
						20	
						25	
20 ⁰ _{-0.006}	8	48	7.5	15		10	
						13	
					16		
25 ⁰ _{-0.006}	8	80	7.5	15	13		
					20		
					25		
32 ⁰ _{-0.007}	4	44	7.5	15	30		
					35		
					40		
38 ⁰ _{-0.007}	8	112	7.5	15	35		
					40		

RoHS **SGBBF** (Loctite adhesive type)

① SUJ2
② A5052S
③ 58HRC~

Since both ends of SGBBF are fastened with snap rings, the ball cage does not come off from the main body.

D _{h4}	N Number of rows	n Number of balls	S	Maximum stroke	Catalog No.		U/Price Q'ty: 1~9
					Type	d	
16 ⁰ _{-0.005}	5	35	10	10	SGBBF (Loctite adhesive type)	8	Quotation
						20	
						25	
20 ⁰ _{-0.006}	8	48	7.5	15		10	
						13	
					16		
25 ⁰ _{-0.006}	8	80	7.5	15	13		
					20		
					25		
32 ⁰ _{-0.007}	4	44	7.5	15	30		
					35		
					40		
38 ⁰ _{-0.007}	8	112	7.5	15	35		
					40		

SGBB 8	.....	Diameter of ball φ 1.588mm (1/16in.)
SGBB 10	.....	Diameter of ball φ 2.381mm (3/32in.)
SGBB 13~25	.....	Diameter of ball φ 3.175mm (1/8in.)
SGBBL/F 8	.....	Diameter of ball φ 1.5mm
SGBBL/F 10~16	.....	Diameter of ball φ 2.0mm
SGBBL/F 20 · 25	.....	Diameter of ball φ 3.0mm

Order Catalog No. — L
SGBB 20
SGBBL 20 — 35
 • Printed in Red • Printed in Blue

Delivery SGP Stock **3** Days

For area out of Singapore please refer to P.i.

Alteration Catalog No. — L(LC)
SGBB 16.0 — LC29.5
SGBBF 13 — LC22.5
 5 Days Express T Express A P.i.
 For area out of Singapore please refer to P.i.

Example

① Insert the pin in the bushing fixed in the stripper plate.
 ② ③ Push the pin down to the bottom dead center as the pin and the bushing are interference fit of 2μm to 20μm.

Maximum stroke = S × 2

Quantity discount rate

Quantity	1~9	10~49	50~99	100~200
Rate	—	5%	10%	15%

Alteration Code	Changes dimension L (full length)																																													
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