

# STRIPPER GUIDE BUSHINGS — FOR BALL BEARING —



Printed in Red

# BALL BEARING CAGES / SPRINGS FOR BALL CAGE



Printed in Red

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

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**RoHS**

**SGBBW** (Thick Wall, Loctite adhesive type)

**RoHS**

**SGBBS** (Loctite adhesive type)

**RoHS**

**SGBBH** (Loctite adhesive type)

d	D	Catalog No.		L	U/Price Q'ty: 1~9
		Type	PD		
17	24	<b>SGBBW</b>	13	30 35	Quotation
20	28		16	35 40	
26	34		20	40 45 50	
31	40		25	45 50 60	

d	D <sub>H4</sub>	Catalog No.		L	U/Price Q'ty: 1~9
		Type	PD		
14	18	<b>SGBBS</b>	10	20 25 30	Quotation
17	22		13	20 25 30	
20	26		16	25 30 35	
26	31		20	25 30 35 40	
31	37	25	35 40		

d	D <sub>H4</sub>	Catalog No.		L	U/Price Q'ty: 1~9
		Type	PD		
14	18	<b>SGBBH</b>	10	20 25 30	Quotation
17	22		13	20 25 30	
20	26		16	25 30 35	
26	31		20	25 30 35 40	
31	37	25	35 40		

**Volume discount rate**

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

**Order** Catalog No. — L  
**SGBBW 16 — 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)  
**SGBBH 16 — LC25.5**  
5 Days Express T Express A  
☎ For area out of Singapore please refer to P.i.

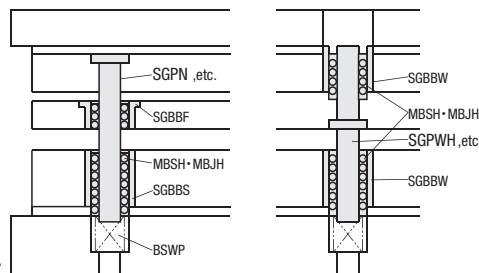
Alteration Code	Changes dimension L (full length)		Machines grooves for Loctite.																																												
	LC	LC	DL																																												
Spec.	<p>• <b>SGBBW</b></p> <table border="1"> <thead> <tr> <th>PD</th> <th>LC</th> <th>0.1mm increments</th> <th>Symbol</th> </tr> </thead> <tbody> <tr> <td>13</td> <td>25.0 ≤ LC &lt; L</td> <td>0</td> <td>☐</td> </tr> <tr> <td>16</td> <td>30.0 ≤ LC &lt; L</td> <td>0</td> <td>☐</td> </tr> <tr> <td>20</td> <td>35.0 ≤ LC &lt; L</td> <td>0</td> <td>☐</td> </tr> <tr> <td>25</td> <td>40.0 ≤ LC &lt; L</td> <td>0</td> <td>☐</td> </tr> </tbody> </table>	PD	LC	0.1mm increments	Symbol	13	25.0 ≤ LC < L	0	☐	16	30.0 ≤ LC < L	0	☐	20	35.0 ≤ LC < L	0	☐	25	40.0 ≤ LC < L	0	☐	<p>• <b>SGBBS</b> • <b>SGBBH</b></p> <table border="1"> <thead> <tr> <th>PD</th> <th>LC</th> <th>0.1mm increments</th> <th>Symbol</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>15.0 ≤ LC &lt; L</td> <td>0</td> <td>☐</td> </tr> <tr> <td>13</td> <td>15.0 ≤ LC &lt; L</td> <td>0</td> <td>☐</td> </tr> <tr> <td>16</td> <td>20.0 ≤ LC &lt; L</td> <td>0</td> <td>☐</td> </tr> <tr> <td>20</td> <td>20.0 ≤ LC &lt; L</td> <td>0</td> <td>☐</td> </tr> <tr> <td>25</td> <td>30.0 ≤ LC &lt; L</td> <td>0</td> <td>☐</td> </tr> </tbody> </table>	PD	LC	0.1mm increments	Symbol	10	15.0 ≤ LC < L	0	☐	13	15.0 ≤ LC < L	0	☐	16	20.0 ≤ LC < L	0	☐	20	20.0 ≤ LC < L	0	☐	25	30.0 ≤ LC < L	0	☐	<p>Grooves for Loctite are made on the outside diameter of bushing.</p> <p>* Number of outer diameter grooves 8.0 ≤ L (LC) ≤ 15.9 → 1 16.0 ≤ L (LC) ≤ 24.9 → 2 25.0 ≤ L (LC) ≤ 35.0 → 3</p> <p>☒ Not applicable to SGBBW and SGBBS.</p>
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Price	Quotation																																														



Example

**Features**

<b>SGBBW</b>	Thick wall results in a higher level of rigidity.
<b>SGBBS</b> <b>SGBBH</b>	All stripper guide pins can be coupled with. (Same in SGBBW.)



Stocks Availability Subjected to Prior Sales.

**RoHS**

① **MBSH** (High rigidity aluminum ball cage)  
② **MBJH** (High rigidity resin ball cage)

☐ ① A5052S (Aluminum)  
☐ ② POM (Polyacetal resin)  
☐ ③ SUJ2 Sphericity pressure 0.25 μm  
☐ ④ 62~67HRC

D	D <sub>1</sub>	Diameter of ball d	Catalog No.		L	U/Price Q'ty: 1~9	
			Type	PD		MBSH	MBJH
13.7	10.3	2	<b>MBSH</b> (Aluminum)	10	25 30 35	Quotation	
16.7	13.3	2			13 25 30 35		
19.7	16.3	2			16 30 35 40		
25.5	20.5	3			20 30 35 40 45		
30.5	25.5	3	<b>MBJH</b> (Resin)	25	35 40 45 50		

**Order** Catalog No. — L  
**MBJH 20 — 45**

**Delivery** SGP Stock **3** Days

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

**Alteration** Catalog No. — L(LC)  
**MBJH 20 — LC 42**  
5 Days Express A  
☎ For area out of Singapore please refer to P.i.

Alteration Code	Code	Spec.	Price
	LC	Changes dimension L (full length) 1mm increments 20 ≤ LC < L ☒ Ball holes may remain on the cut surface.	Quotation

**RoHS**

**BSWP** (Springs for ball cage)

☐ SWP-B

D	D <sub>1</sub>	d	P	Catalog No.		FL	U/Price Q'ty: 1~9
				Type	PD		
11.7	10.5	0.6	5	<b>BSWP</b> (For Ball cage)	10	30~80	Quotation
14.9	13.5	0.7	6			30~80	
18.3	16.5	0.8	12			30~90	
22.5	20.5	1.0	14			35~90	
27.9	25.5	1.2	14	25	40~90		

**Order** Catalog No. — FL  
**BSWP 20 — 80**

**Delivery** 5 Days  
Express T Express A  
☎ For area out of Singapore please refer to P.i.

Type	PD	Spring solid height (mm) / Spring constant (g/mm)																	
		FL (Free length)																	
		30	35	40	45	50	55	60	65	70	75	80	85	90					
BSWP	10	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	—	—	—	—	—	—	
	13	4.9	5.4	6.1	6.6	7.2	7.8	8.4	8.9	9.6	10.1	10.7	—	—	—	—	—	—	
BSWP	16	3.2	3.4	3.7	4.0	4.2	4.5	4.8	5.0	5.3	5.6	5.8	6.1	6.4	—	—	—	—	
	20	—	4.7	5.0	5.3	5.6	5.8	6.0	6.5	7.0	7.4	7.7	8.1	8.5	—	—	—	—	
BSWP	25	—	—	6.0	6.3	6.6	7.0	7.4	7.9	8.4	8.7	9.0	9.3	9.6	—	—	—	—	
	30	—	—	—	3.8	3.4	3.0	2.8	2.5	2.4	2.2	2.0	1.9	1.8	1.7	—	—	—	—

Upper row : Solid height  
Lower row : Spring constant

**Volume discount rate**

Quantity	1~9	10~20
Rate	—	5%

Stocks Availability Subjected to Prior Sales.