

STRIPPER GUIDE BUSHINGS — FOR BALL CAGES —



Printed in Red

BALL BEARING CAGES / SPRINGS FOR BALL CAGE



Printed in Red

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

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All price & lead time are to be quoted.

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 | SGBBW | 13 | 30 35 | Quotation |
| 20 | 28 | | 16 | 35 40 | |
| 26 | 34 | | 20 | 40 45 50 | |
| 31 | 40 | | 25 | 45 50 60 | |

| d | D _{H4} | Catalog No. | | L | U/Price Q'ty: 1~9 |
|----|-----------------|--------------|-------|-------------|----------------------|
| | | Type | PD | | |
| 14 | 18 | SGBBS | 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 _{H4} | Catalog No. | | L | U/Price Q'ty: 1~9 |
|----|-----------------|--------------|-------|-------------|----------------------|
| | | Type | PD | | |
| 14 | 18 | SGBBH | 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 | | |

Quantity 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.

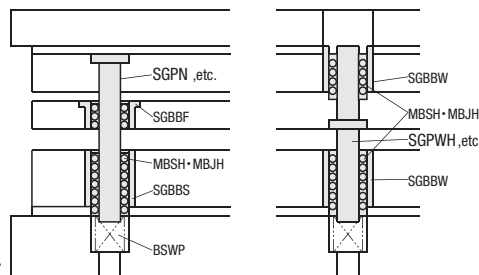
Alteration Catalog No. — L(LC)
SGBBH 16 — LC25.5
5 Days Express T Express A
☎ For area out of Singapore please refer to P.i.

| Alteration Code | Changes dimension L (full length) | | Machines grooves for Loctite. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|------------------|-------------------------------|------------------|---|----|------|--------|---|----|------|--------|---|----|------|--------|---|----|------|--------|---|---|----|----|------------------|---|----|------|--------|---|----|------|--------|---|----|------|--------|---|----|------|--------|---|----|------|--------|---|---|
| | LC | LC | DL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spec. | <p>• SGBBW</p> <table border="1"> <thead> <tr> <th>PD</th> <th>LC</th> <th>0.1mm increments</th> <th>0</th> </tr> </thead> <tbody> <tr> <td>13</td> <td>25.0</td> <td>LC < L</td> <td>0</td> </tr> <tr> <td>16</td> <td>30.0</td> <td>LC < L</td> <td>0</td> </tr> <tr> <td>20</td> <td>35.0</td> <td>LC < L</td> <td>0</td> </tr> <tr> <td>25</td> <td>40.0</td> <td>LC < L</td> <td>0</td> </tr> </tbody> </table> | PD | LC | 0.1mm increments | 0 | 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>• SGBBS • SGBBH</p> <table border="1"> <thead> <tr> <th>PD</th> <th>LC</th> <th>0.1mm increments</th> <th>0</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>15.0</td> <td>LC < L</td> <td>0</td> </tr> <tr> <td>13</td> <td>15.0</td> <td>LC < L</td> <td>0</td> </tr> <tr> <td>16</td> <td>20.0</td> <td>LC < L</td> <td>0</td> </tr> <tr> <td>20</td> <td>20.0</td> <td>LC < L</td> <td>0</td> </tr> <tr> <td>25</td> <td>30.0</td> <td>LC < L</td> <td>0</td> </tr> </tbody> </table> | PD | LC | 0.1mm increments | 0 | 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> |
| | PD | LC | 0.1mm increments | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 25.0 | LC < L | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 30.0 | LC < L | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 35.0 | LC < L | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 40.0 | LC < L | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PD | LC | 0.1mm increments | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Price | Quotation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

EX Example

Features

- SGBBW**: Thick wall results in a higher level of rigidity.
- SGBBS**: All stripper guide pins can be coupled with. (Same in SGBBW.)
- SGBBH**



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 ₁ | Diameter of ball d | Catalog No. | | L | U/Price Q'ty: 1~9 | |
|------|----------------|--------------------|---------------------------|------------------------|-------------|-------------------|-------------|
| | | | Type | PD | | MBSH | MBJH |
| 13.7 | 10.3 | 2 | MBSH (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 | | MBJH (Resin) | 20 | | 30 35 40 45 |
| 30.5 | 25.5 | 3 | 25 | | 35 40 45 50 | | |

Order Catalog No. — L
MBJH 20 — 45

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

Delivery SGP Stock **3** Days
☎ For area out of Singapore please refer to P.i.

Quantity discount rate

| Quantity | 1~9 | 10~19 | 20~29 | 30~50 |
|----------|-----|-------|-------|-------|
| Rate | — | 5% | 10% | 15% |

| 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 ₁ | d | P | Catalog No. | | FL | U/Price Q'ty: 1~9 |
|------|----------------|-----|----|--------------------------------|-------|-------|----------------------|
| | | | | Type | PD | | |
| 11.7 | 10.5 | 0.6 | 5 | BSWP (For Ball cage) | 10 | 30~80 | Quotation |
| 14.9 | 13.5 | 0.7 | 6 | | 13 | 30~80 | |
| 18.3 | 16.5 | 0.8 | 12 | | 16 | 30~90 | |
| 22.5 | 20.5 | 1.0 | 14 | | 20 | 35~90 | |
| 27.9 | 25.5 | 1.2 | 14 | 25 | 40~90 | | |

| | | Spring solid height (mm) / Spring constant (g/mm) | | | | | | | | | | | | | |
|------|----|---|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|
| Type | PD | 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 | — |
| | 32 | — | — | — | 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

Order Catalog No. — FL
BSWP 20 — 80

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

Quantity discount rate

| Quantity | 1~9 | 10~20 |
|----------|-----|-------|
| Rate | — | 5% |

Quantity discount rate

| Quantity | 1~9 | 10~20 |
|----------|-----|-------|
| Rate | — | 5% |

Stocks Availability Subjected to Prior Sales.