**BALL GUIDE BUSHINGS FOR LOWER DIE SETS**

- **Features of ball guide bushings for lower die sets**
  - Stable guide. The distance between punch and die blades and the guide post end are always maintained to a high degree of precision. (A: B = 1.6:1)
  - Easy regrinding of punch & die. Due to the short distance between the punch/die blade and guide post end, it is possible to perform regrinding without detaching the guide post.

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### TABLE 1: Bushing reference

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Type</th>
<th>Material</th>
<th>Price</th>
<th>Order</th>
<th>Catalog No.</th>
<th>L</th>
<th>Base unit price 1~9 pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBSH, MBJH</td>
<td>(1)</td>
<td>Aluminum</td>
<td></td>
<td></td>
<td>MBJ</td>
<td>L</td>
<td></td>
</tr>
<tr>
<td>MBJS, MBJ</td>
<td>(2)</td>
<td>Resin</td>
<td></td>
<td></td>
<td>MBJ</td>
<td>L</td>
<td></td>
</tr>
<tr>
<td>MBJS, MBJ</td>
<td>(3)</td>
<td>Aluminum</td>
<td></td>
<td></td>
<td>MBJ</td>
<td>L</td>
<td></td>
</tr>
</tbody>
</table>

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### TABLE 2: Spring solid height

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Type</th>
<th>FL</th>
<th>L</th>
<th>Base unit price 1~9 pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBJ50</td>
<td>L</td>
<td>L</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

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**BALL CAGES FOR DIE SETS**

- **Stable guide.** Guide post end, it is possible to perform regrinding without detaching the guide post.

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**Features of ball cages for die sets**

- **Compared with conventional ball cages**
  - MBJS, MBJ: These products contain 1.6 times more balls.

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**Spring solid height**

- **Note:** SWP is a spring specially designed for LBBS/bushing reference.
  - For post-reference springs (SWP, SWPL), refer to P.330.