

GUIDE LIFTERS · LIFTER PIN SETS

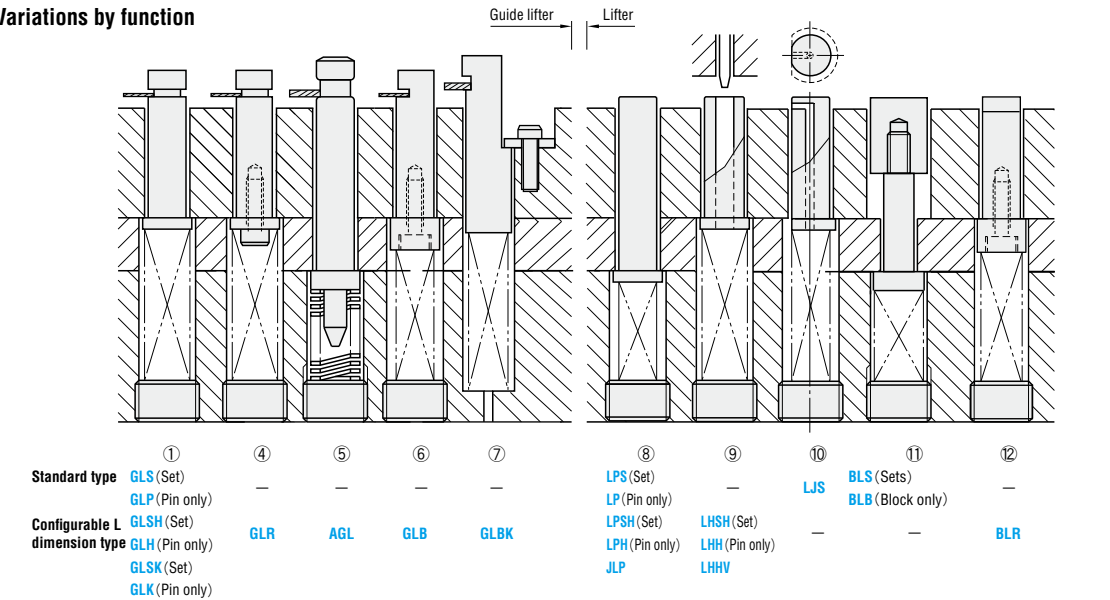
—GUIDE—

Variations of guide lifters and lifter pins

Standard and configurable types are available.

The full length can be specified in 0.1mm increments (except for lifter pins with air holes) according to the height of the feeding line or the lower die. The material guide width and material thickness can also be specified in 0.1mm increments. Standardized stock parts are available for the sizes that are most frequently used. Guide lifters and lifter pin sets, and lifter pin sets with pilot punch relief holes, are sets which include a spring and screw plug, however the pins can also be ordered individually.

Variations by function

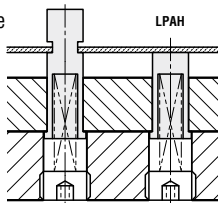


1 Guide lifter set P.851

This is the most popular type of guide lifter. With the configurable L dimension type, the guide width can also be specified in 0.1mm increments according to the thickness of the material.

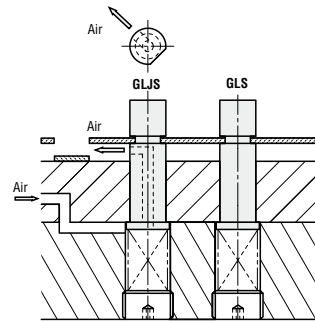
2 Guide lifter — Spring hole type — P.854

- The stroke length can be extended by inserting a spring into the guide lifter counterbore.
- This makes it possible to reduce the die height.



3 Guide lifters with air holes P.857

- Use a guide lifter with air hole to resolve problems arising from lack of space.
- A reliable jet of air can be blown from a short distance away.



4 Guide lifters — Detachable type — P.853

Detachable type guide lifters are ideal for mass-production dies which require frequent regrinding and extra grinding allowance. Because the guide lifter is fixed by a washer instead of a flange, it can be detached easily.

5 Guide lifters — Heavy-load type — P.853

- Part A is rounded, preventing trouble such as scratching and scraping of materials.
- The flange thickness of 5 mm is thicker than the conventional type, making breakage of the flange less likely.
- Chamfering of part B makes it less likely that breakage will occur due to collisions with the stripper plate on one side.

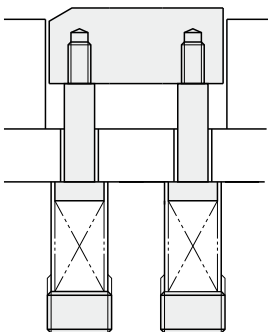


10 Lifter pins with air hole P.857

These pins combine the lift function with an air-blow function. They are effective in blowing away products that have been cut off.

11 Block lifter sets P.858

- This product can be used when there is a gap hole where round lifter pins would get stuck, or when a side cut is removed at an intermediate process.



6 Block guide lifters — Detachable type — P.856

Because block guide lifters can lift a larger surface area of the material, they are more suitable than round guide lifters for precision dies, particularly when the material is thin.

7 Block guide lifter — Fixing-key type — P.856

This lifter is fixed in place from the top by means of a key, making it easy to detach for maintenance.

8 Lifter pin sets P.859

This is the most popular type of lifter pin. With the configurable L dimension type, the full length can be specified in 0.1mm increments.

9 Lifter pin sets — Pilot punch relief hole type — P.861

When there is no space for installing the lifter pin, the space problem can be resolved by positioning the pin in the pilot punch relief hole. This results in more compact dies and conservation of material width, as well as a reduction in machining man-hours.

12 Block lifters — Detachable type — P.858

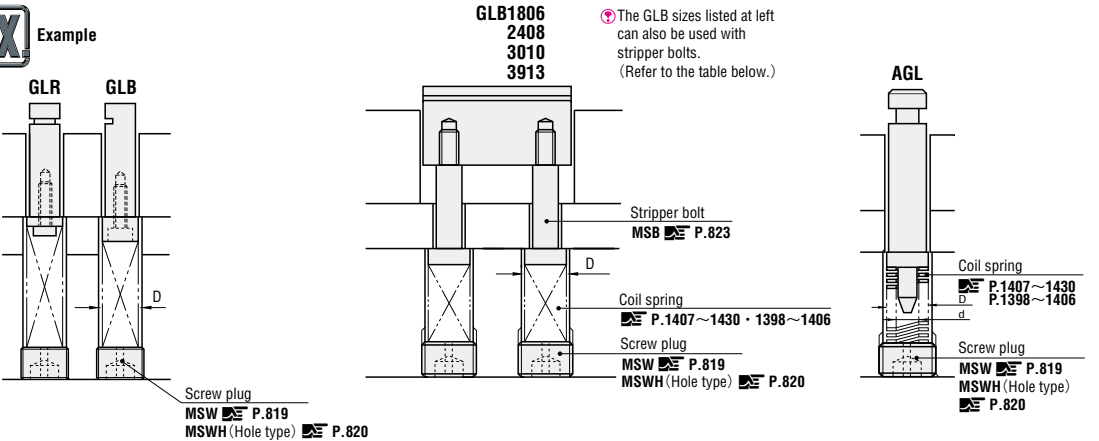
These products are ideal for mass-production dies which require frequent regrinding and extra grinding allowance. Because the guide lifter is fixed by a washer instead of a flange, it can be detached easily.

13 Block lifters — Fixing-key type — P.863

This type can be removed easily when regrinding of the die plate is performed, and does not require lift adjustment.



Example



Recommended coil springs and screw plugs

| Guide lifter |                      | Coil spring |    | Screw plug |
|--------------|----------------------|-------------|----|------------|
|              |                      | Type        | D  |            |
| GLR6         | —                    | WR          | 8  | MSW10      |
| GLR8         | GLB 0505<br>GLB 0606 | WF          | 10 | MSW12      |
| GLR10        | GLB 0808             | WL          | 13 | MSW16      |
| GLR13        | GLB 1010             | WT          | 16 | MSW20      |
| —            | GLB 1313<br>3913     | WM<br>WH    | 18 | MSW20      |

Recommended coil springs, screw plugs, and stripper bolts

| Guide lifter | Stripper bolt | Coil spring |    | Screw plug |
|--------------|---------------|-------------|----|------------|
|              |               | Type        | D  |            |
| GLB1806      | MSB4.5        | —           | 8  | MSW10      |
| GLB2408      | MSB5.5        | —           | 10 | MSW12      |
| GLB3010      | MSB6          | —           | 10 | MSW12      |
| GLB3913      | MSB6.5        | —           | 10 | MSW12      |

Recommended coil springs and screw plugs

| Guide lifter | Type              | Coil spring |      | Screw plug |
|--------------|-------------------|-------------|------|------------|
|              |                   | D           | d    |            |
| AGL13        | SWU<br>SWR<br>SWS | 14.5        | 8.5  | MSW20      |
| AGL16        |                   | 17          | 10.5 | MSW22      |
| AGL20        |                   | 21          | 13.5 | MSW27      |
| AGL25        |                   | 26          | 16.5 | MSW33      |