Pneumatic mini-slide DGSL

Precise

DGSL – the new slide series! Unique in its precision, resilience, compact design and ease of installation.

**Highlights**
- Simple and direct
- Keeping everything under control
- More precise

**Precision**
Designed for high-precision linear movement, even with high mechanical loads. The key to unbelievable precision: an innovative guide unit with a repetition accuracy of 0.01 mm and linearity and parallelism within the 1/100 mm range.

**Functionality**
Combining two DGSLs, as pick & place or piggy-backed, is simple and uncomplicated; no adapter is necessary. The optionally available clamping unit and the end-position locking prevent the load from falling onto the work-piece carrier in an uncontrolled way in the event of a pressure drop and provide protection in emergency stop situations. Precision interfaces with Festo’s modular system for handling and assembly are included.

**Flexibility**
From mini to maxi: a comprehensive series with 8 sizes ranging from 4–25 and strokes of up to 200 mm meets all conceivable requirements. Five different cushioning variants provide the technically and economically optimal solution for every application.
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In action: mini slide DGSL as a precise pick & place application in the automotive industry

1 Choice of five cushioning types
- Elastic cushioning with and without metal end position (P / P1 / E)
- Shock absorber (Y3 / Y11),
- Without cushioning (N)

2 Cover
- The cover stops foreign parts or dirt getting into the guide
- Various lengths, can be shortened to any length

3 Coarse adjustment of the stroke
- The end stop for the advanced end position can be adjusted mechanically, for example to shorten the stroke

4 Clamping unit
- Mechanical clamping, for fixing the slide in any position; frictional locking (C)

5 End-position locking
- Mechanical locking when the end position is reached, for fixing the slide in the unpressurised, retracted state; positive locking (E3)

6 Innovative guide unit
- Wide roller track, providing extremely high rigidity, high load capacity, high precision
- Housing and steel slide form a guide, there are no accumulative tolerances

7 Position sensing
- Proximity sensors can be integrated so there are no projecting parts
- Two slots for mounting
- Clearly visible from the side and from above

8 Supply ports
- Choice of two sides:
  - On the front face
  - At the side

<table>
<thead>
<tr>
<th>Size</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>16</th>
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<tbody>
<tr>
<td>Stroke</td>
<td>10-30</td>
<td>10-50</td>
<td>10-80</td>
<td>10-100</td>
<td>10-150</td>
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<tr>
<td>Pneumatic port</td>
<td>M3</td>
<td>M5</td>
<td>G3/8</td>
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<tr>
<td>Cushioning</td>
<td>P</td>
<td>Elastic cushioning without metal end position, at both ends</td>
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<td></td>
<td>E</td>
<td>Elastic cushioning without metal end position, at both ends, short design</td>
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<td>P1</td>
<td>P1 elastic cushioning with metal end position, at both ends, adjustable</td>
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<td>Y3</td>
<td>Progressive shock absorber, at both ends</td>
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<td>Y11</td>
<td>Progressive shock absorber with reducing sleeve, at both ends, short design</td>
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<td>N</td>
<td>No cushioning</td>
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<td>Position sensing</td>
<td>Via proximity sensor</td>
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<td>Mounting position</td>
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<td>Repetition accuracy P1/Y3 [mm]</td>
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<td>Repetition accuracy P (mm)</td>
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