

Pneumatic mini-slide DGSL

FESTO



Robust
Compact
Precise

Precise

Highlights

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

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

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

Size	4	6	8	10	12	16	20	25
Stroke	10-30	10-50	10-80	10-100	10-150	10-150	10-200	10-200
Pneumatic port	M3			M5		G $\frac{1}{8}$		
Cushioning	Elastic cushioning without metal end position, at both ends							
	Elastic cushioning without metal end position, at both ends, short design							
	P1 elastic cushioning with metal end position, at both ends, adjustable							
	Y3		Progressive shock absorber, at both ends					
	Y11			Progressive shock absorber with reducing sleeve, at both ends, short design				
	N			No cushioning				
Position sensing	Via proximity sensor							
Mounting position	Any							
Max. advancing speed [m/s]	0.5		0.8					
Max. retracting speed [m/s]	0.5		0.8					
Repetition accuracy P1/Y3 [mm]	± 0.01							
Repetition accuracy P (mm)	0.3							

