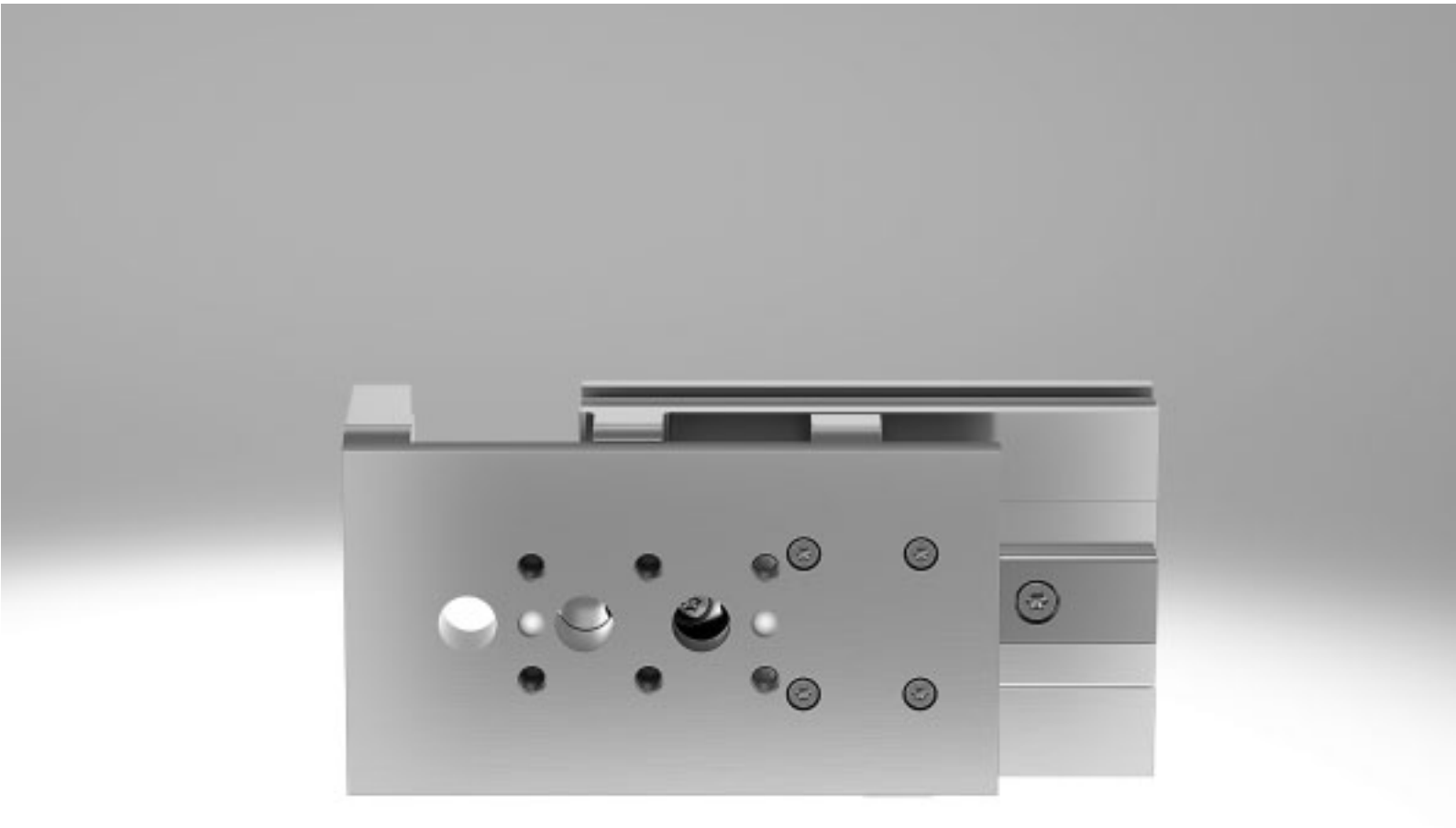
Mini slides DGST

FESTO



New

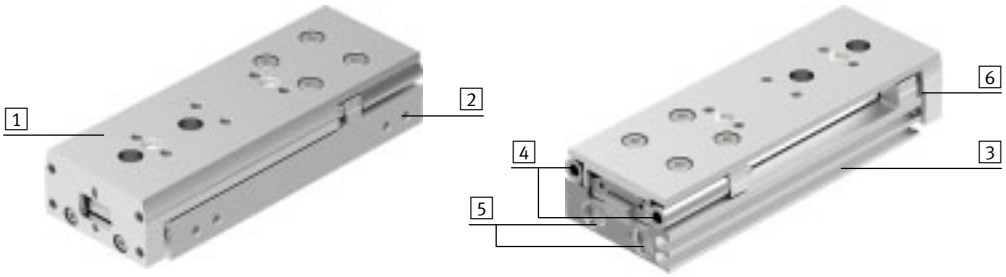
Mini slides DGST

Key features

At a glance

- Compact mini slide
- Slide and yoke plate as a single component
- Excellent price/performance ratio
- High feed forces
- Symmetrical mounting interfaces
- Precise and resilient roller bearing guide
- Simple design with symmetrical mounting interfaces
- Can be operated without additional cushioning components

The technology in detail

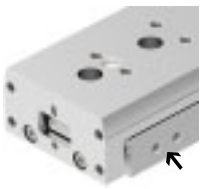


1 Slide and yoke plate



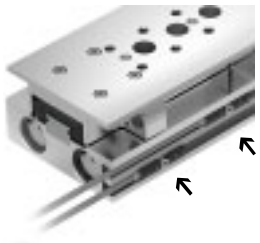
- Slide and yoke plate as a single component, ensuring very high rigidity, precision and angular alignment

2 Supply ports



- All connections on one side

3 Sensor slots for sensing the slide position



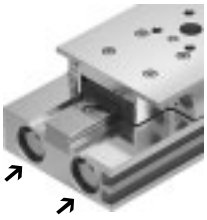
- Proximity sensors can be integrated, so there are no projecting parts
- Both end positions can be sensed from one side
- Two sensor slots for sensing

4 Cushioning and precision end-position adjustment



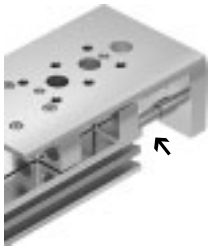
- Choice of three cushioning types:
  - Elastic cushioning at both ends, without end-position adjustment (E1)
  - Elastic cushioning at both ends, non-adjustable, with end-position adjustment (P)
  - Shock absorber at both ends, self-adjusting, with end-position adjustment (Y12)
- Precision end-position adjustment is possible from one side

5 Twin-piston drive



- Theoretical force at 6 bar: 34 ... 590 N
- Max. payload: 0.7 ... 17 kg

6 Backlash-free piston rod/yoke connection



- Enhanced precision
- Longer service life

Mini slides DGST

Key features

Areas of application

Mainly in industry segments such as:

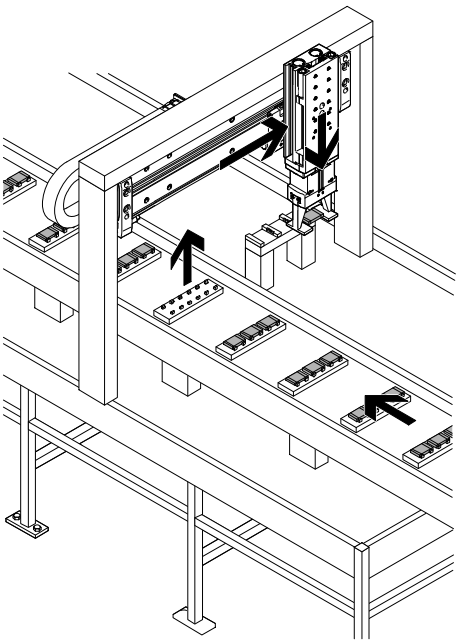
- Electronics and light assembly
- Machine building
- Handling technology

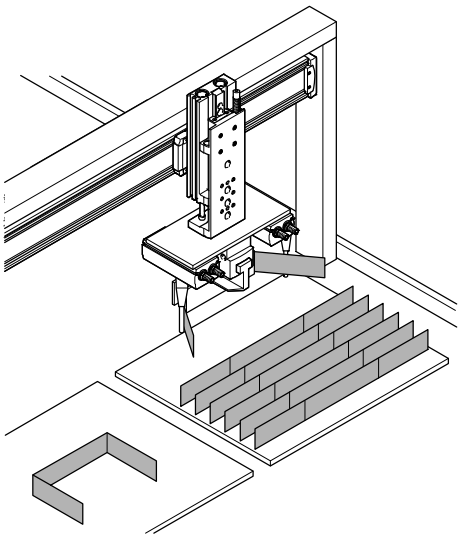
Examples:

- Pick & place handling units
- Piggyback handling units
- Precise positioning
- Precise press-fitting

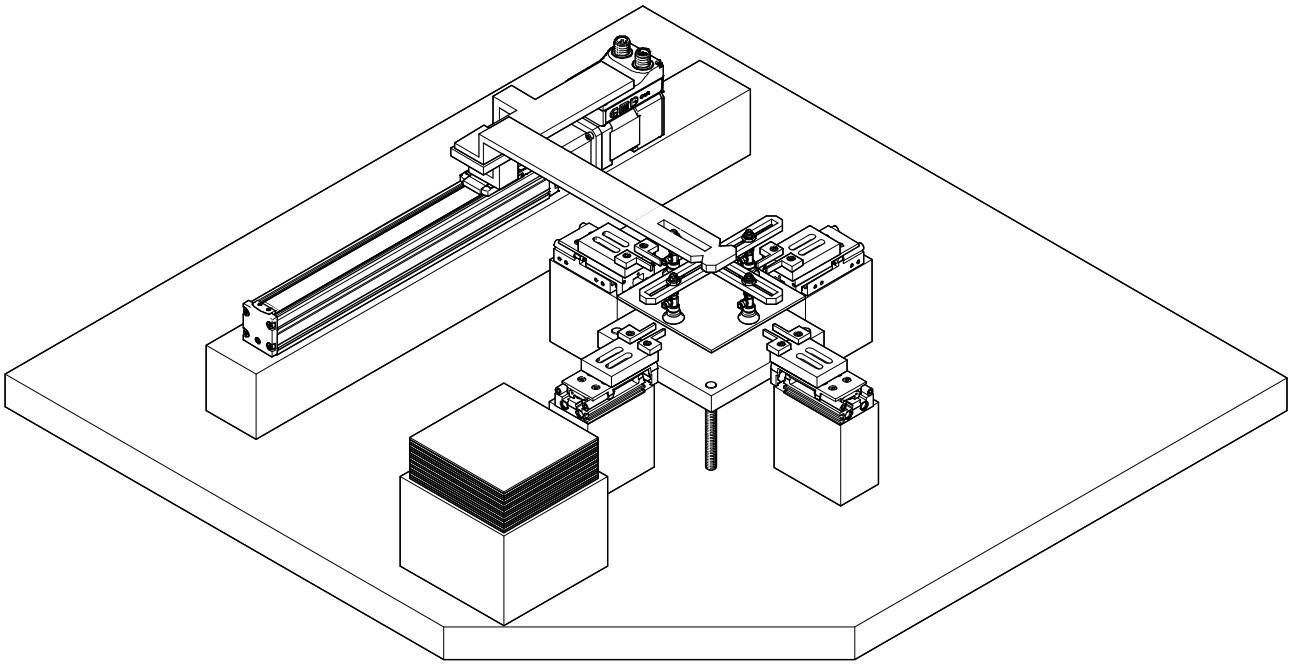
Application examples

Pick & place handling unit





Precise positioning



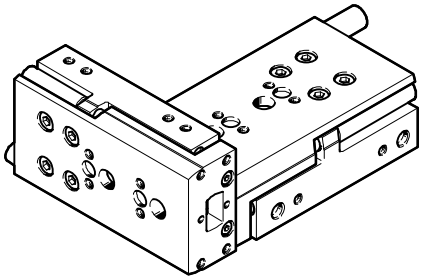
New

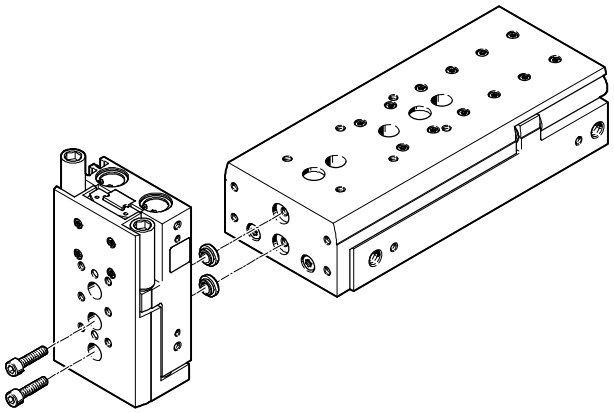
Mini slides DGST

Key features

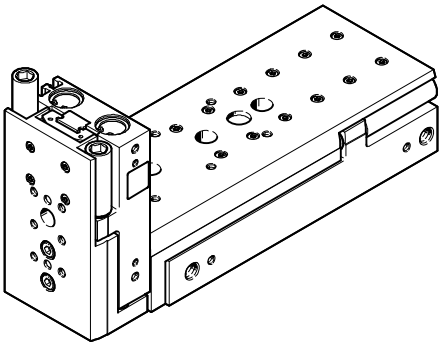
Possible combinations of pick & place applications without adapter plate

Sizes 6 to 8





Other combinations



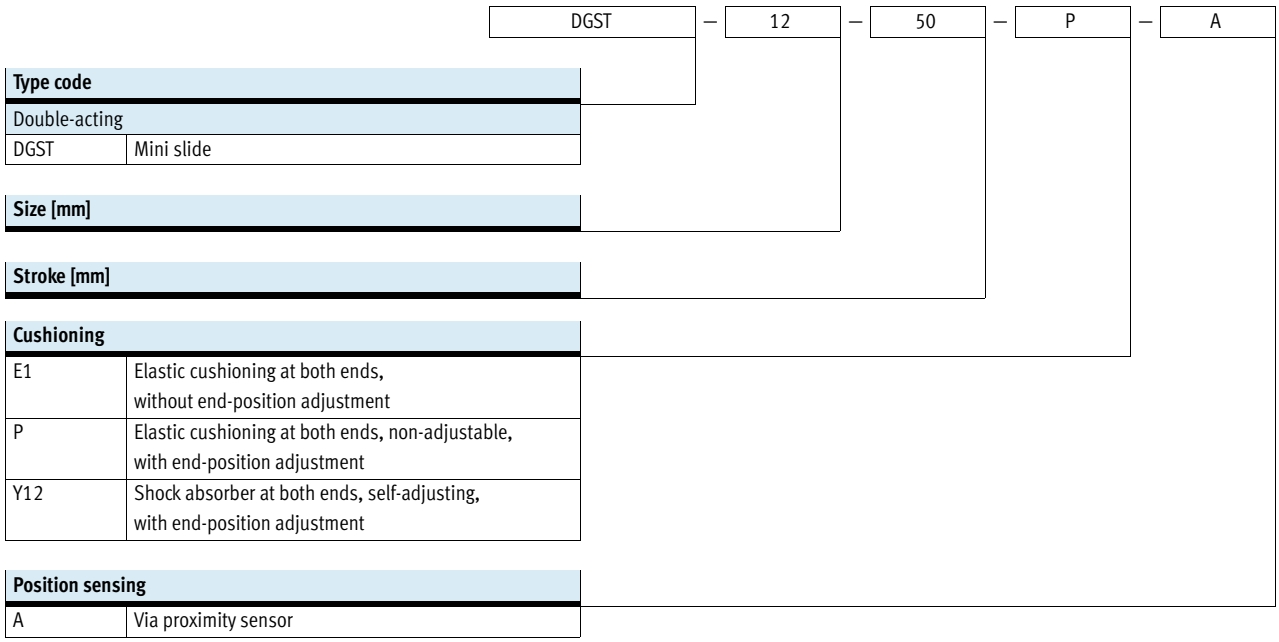
	1 Basic drive							
	Size	6	8	10	12	16	20	25
2 Assembly drive	6	–	2x M3x14 2x ZBH-5	2x M3x14 2x ZBH-5	–	–	–	–
	8	–	–	2x M3x18 2x ZBH-5	–	–	–	–
	10	–	–	–	2x M4x22 2x ZBH-7	2x M4x22 2x ZBH-7	–	–
	12	–	–	–	–	2x M4x27 2x ZBH-7	–	–
	16	–	–	–	–	–	2x M5x30 2x ZBV-12-9	–
	20	–	–	–	–	–	–	2x M6x40 2x ZBH-12

Note

The mounting components are not included in the scope of delivery of the mini slide.

Mini slides DGST

Type code



Type code	
Double-acting	
DGST	Mini slide

Size [mm]

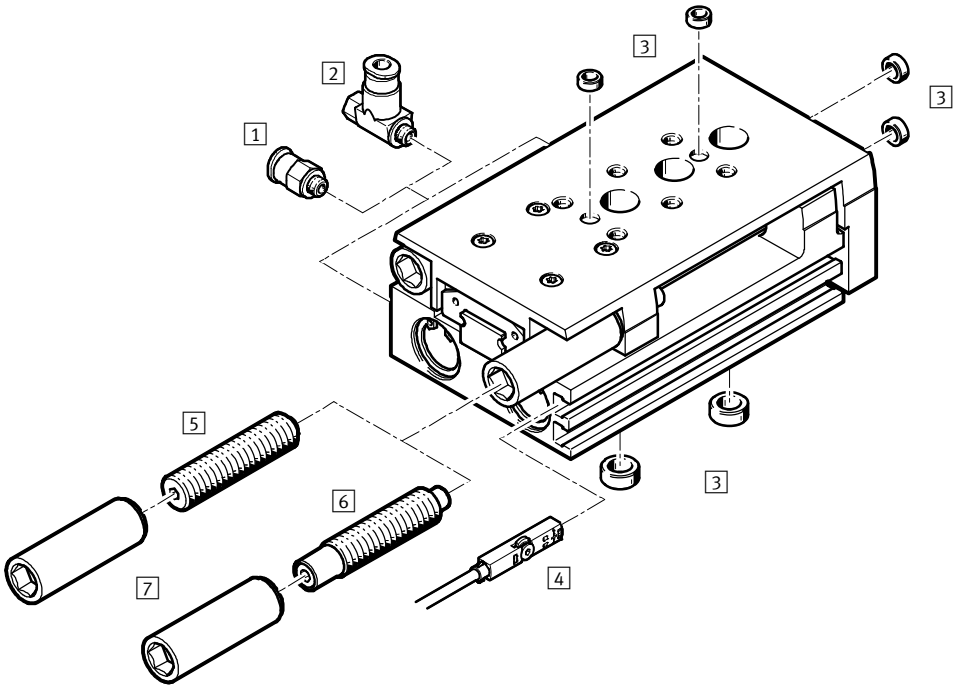
Stroke [mm]

Cushioning	
E1	Elastic cushioning at both ends, without end-position adjustment
P	Elastic cushioning at both ends, non-adjustable, with end-position adjustment
Y12	Shock absorber at both ends, self-adjusting, with end-position adjustment

Position sensing	
A	Via proximity sensor

Mini slides DGST

Peripherals overview

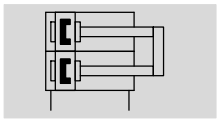


Accessories

		Description	➔ Page/Internet
1	Push-in fitting QSM	For connecting tubing with standard outside diameter	40
2	One-way flow control valve GRLA	For speed regulation	40
3	Centring sleeve ZBH	• For centring loads and attachments • (Centring sleeves not included in the scope of delivery of the mini slide)	40
4	Proximity sensor SMT-10/-8	For position sensing. Can be integrated in the sensor slot, which means there is no projection	41
	Position transmitter SMAT-8M, SDAT	• Analogue position feedback possible • Choice of analogue output: 0 … 10 V, 0 … 20 mA	41
5	Cushioning P	Elastic cushioning at both ends, non-adjustable, with end-position adjustment	40
6	Cushioning Y12	Shock absorber at both ends, self-adjusting, with end-position adjustment	40
7	Threaded sleeve	• For mounting the cushioning components • Included in the scope of delivery of cushioning 5/6	40

Mini slides DGST

Technical data



Size
6 … 25

Stroke length
10 … 200 mm



General technical data								
Size		6	8	10	12	16	20	25
Design		Scotch yoke system						
Guide		Recirculating ball bearing guide					Three-part cage guide	
Mode of operation		Double-acting						
Type of mounting		Via through-hole						
		Via female thread						
Pneumatic connection		M3	M5				G1/8	
Stroke[1]	[mm]	10 … 50	10 … 80	10 … 100	10 … 100	10 … 150	10 … 200	10 … 200
Cushioning								
DGST-…-E1		Elastic cushioning at both ends, without end-position adjustment						
DGST-…-P		Elastic cushioning at both ends, non-adjustable, with end-position adjustment						
DGST-…-Y12		Shock absorber at both ends, self-adjusting, with end-position adjustment						
Max. cushioning length								
DGST-…-E1[2]	[mm]	0.25/0.9	0.5/1.5	0.6/1.6	0.5/1.1	0.6/0.8	0.5/1	0.5/1.2
DGST-…-P	[mm]	0.9	1.8	1.8	2	1.8	2	2
DGST-…-Y12	[mm]	4	4	4	5	5	8	10
Position sensing		For proximity sensor						
Mounting position		Any						
Max. speed								
DGST-…-E1	[m/s]	0.5						
DGST-…-P	[m/s]	0.5	0.8					
DGST-…-Y12	[m/s]	0.5						
Repetition accuracy[3]								
DGST-…-E1	[mm]	≤ 0.3						
DGST-…-P	[mm]	≤ 0.3						
DGST-…-Y12	[mm]	≤ 0.02						

1) For variant DGST-…-E1, the actual stroke is somewhat longer ➔ Page 18
2) Advanced end position/retracted end position
3) In new condition

Operating and environmental conditions								
Size		6	8	10	12	16	20	25
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on the operating medium		Lubricated operation possible (in which case lubricated operation will always be required)						
Operating pressure[1]	[bar]	1.5 … 8		1 … 8				
Ambient temperature	[°C]	–10 … +60						
Corrosion resistance class CRC[2]		1						

1) For sizes 6/8/10/12, the min. operating pressure can be increased slightly after a rest period > 24 h.
2) Corrosion resistance class CRC 1 to Festo standard FN 940070
Low corrosion stress. For dry indoor applications or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Mini slides DGST

Technical data

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Forces and impact energy								
Size		6	8	10	12	16	20	25
Theoretical force at 6 bar, advancing	[N]	34	60	94	136	241	377	589
Theoretical force at 6 bar, retracting	[N]	25	45	79	102	207	317	495
Impact energy in the end positions								
DGST-...-E1	[Nm]	0.005	0.03	0.05	0.07	0.15	0.2	0.3
DGST-...-P	[Nm]	0.018	0.05	0.08	0.12	0.25	0.35	0.45
DGST-...-Y12 per stroke	[Nm]	0.09	0.18	0.28	0.48	0.85	1.9	3.6
Max. operating frequency								
DGST-...-Y12	[cycles/min]	50	80	80	80	70	50	50

For cushioning DGST-...-E1/-P, the following applies:

Permissible impact velocity: $v_{perm.} = \sqrt{\frac{2 \times E_{perm.}}{m_{Intrinsic} + m_{Load}}}$

Maximum permissible load: $m_{Load} = \frac{2 \times E_{perm.}}{v^2} - m_{Intrinsic}$

$v_{perm.}$ Perm. impact velocity
$E_{perm.}$ Max. impact energy
$m_{Intrinsic}$ Moving mass (drive)
m_{Load} Moving payload

- Note

These specifications represent the maximum values that can be achieved. Note the maximum permissible impact energy.

For cushioning DGST-...-Y12, the following applies:

Permissible impact velocity: $v_{perm.} = \sqrt{\frac{2 \times (E_{Vel.} - (F + (m_{Load} + m_{Intrinsic}) \times g \times \sin(\alpha)) \times s)}{m_{Load} + m_{Intrinsic}}}$

Maximum permissible load: $m_{Load} = \frac{E_{Vel.} - F \times s}{\frac{1}{2} \times v^2 + g \times s \times \sin(\alpha)} - m_{Intrinsic}$

$v_{perm.}$ Perm. impact velocity
$E_{Vel.}$ Kinetic impact energy
F Cylinder force minus friction force
m_{Load} Moving payload
$m_{Intrinsic}$ Moving mass (drive)
g Acceleration due to gravity
s Shock absorber stroke
a Impact angle
v Impact velocity

- Note

These specifications represent the maximum values that can be achieved. Note the maximum permissible impact energy.

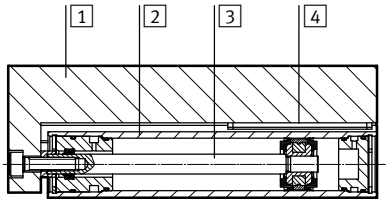
Mini slides DGST

Technical data

Weight [g]								
Size	Stroke [mm]	6	8	10	12	16	20	25
Product weight without cushioning component								
	10	90	129	247	391	454	978	1463
	20	107	154	254	456	526	970	1528
	30	124	176	292	501	510	994	1547
	40	140	200	324	563	629	1055	1743
	50	172	236	359	611	690	1196	1816
	80	–	310	496	776	930	1618	2452
	100	–	–	561	988	1060	1962	2868
	125	–	–	–	–	1294	2346	3507
	150	–	–	–	–	1402	2686	3927
	200	–	–	–	–	–	3275	4803
Moving mass without cushioning component								
	10	49	69	124	195	235	440	714
	20	57	80	134	238	278	456	762
	30	65	92	146	242	277	455	762
	40	73	103	165	284	324	498	877
	50	88	122	177	290	342	549	897
	80	–	155	240	360	462	759	1217
	100	–	–	269	465	515	890	1388
	125	–	–	–	–	637	1068	1703
	150	–	–	–	–	660	1221	1877
	200	–	–	–	–	–	1460	2282
Cushioning components (two cushioning components and two threaded sleeves)								
DGST-...-P		5	8.4	11.7	23	41	72.5	136.5
DGST-...-Y12		3.9	7.8	10.2	16	33	57	105

Materials

Sectional view



Mini slide		
1	Slide	Anodised wrought aluminium alloy
2	Housing	Anodised wrought aluminium alloy
3	Piston rod	High-alloy stainless steel
4	Guide	High-alloy stainless steel, POM, TPE
–	Seals	HNBR
	Note on materials	Free of copper and PTFE
		RoHS-compliant

Mini slides DGST

Technical data

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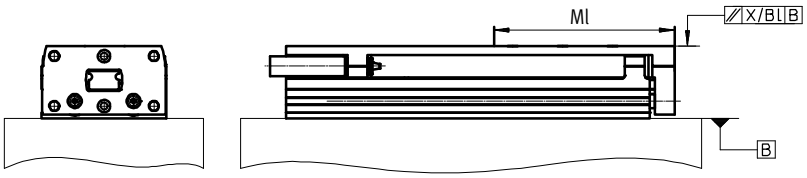
Parallelism

The term parallelism refers to the alignment accuracy between the mounting surface and the slide surface in the longitudinal direction.



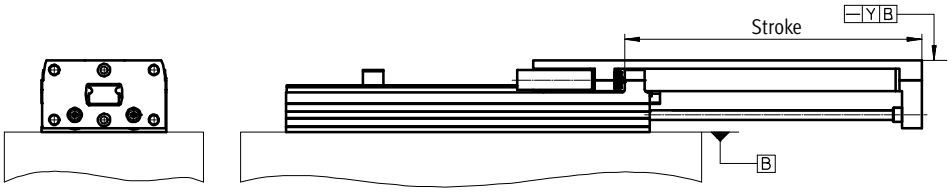
Ml = Mounting length

Size Stroke [mm]	6	8	10	12	16	20	25
10	0.092/43[1)]	0.09/45	0.093/54	0.086/55	0.089/61	0.081/80	0.088/90
20	0.082/43	0.081/45	0.09/54	0.08/55	0.085/61	0.081/80	0.088/90
30	0.079/43	0.078/45	0.084/54	0.076/55	0.081/61	0.081/80	0.082/90
40	0.114/65	0.118/70	0.085/54	0.075/55	0.083/61	0.075/80	0.076/90
50	0.096/65	0.103/70	0.113/76	0.101/77	0.109/85	0.065/80	0.07/90
80	–	0.095/70	0.091/76	0.095/77	0.084/85	0.074/130	0.074/130
100	–	–	0.091/76	0.072/77	0.098/101	0.062/130	0.061/130
125	–	–	–	–	0.081/101	0.063/160	0.063/160
150	–	–	–	–	0.079/101	0.055/160	0.055/160
200	–	–	–	–	–	0.044/160	0.044/160

1) Parallelism/mounting length

Linearity

The term linearity refers to the alignment accuracy between the mounting surface and the slide surface in relation to the stroke.



Size Stroke [mm]	6	8	10	12	16	20	25
10	0.013	0.012	0.011	0.011	0.01	0.009	0.009
20	0.021	0.02	0.018	0.016	0.016	0.014	0.014
30	0.025	0.024	0.023	0.021	0.021	0.02	0.018
40	0.029	0.028	0.026	0.025	0.025	0.022	0.021
50	0.031	0.029	0.029	0.027	0.026	0.024	0.023
80	–	0.034	0.032	0.032	0.03	0.02	0.027
100	–	–	0.035	0.032	0.032	0.027	0.027
125	–	–	–	–	0.033	0.028	0.028
150	–	–	–	–	0.035	0.03	0.03
200	–	–	–	–	–	0.032	0.032

Mini slides DGST

Technical data

Adjustable end-position range

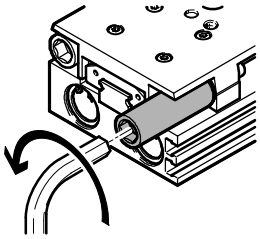
Precision adjustment of the advanced and retracted end position

Precision adjustment of the required stroke reduction is possible using the cushioning components.

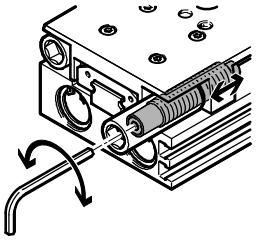
Advantages:

- No readjustment required; position is fully maintained under load
- Stroke reduction down to the next smaller standard stroke is possible
- Fast and simple adjustment using two tools

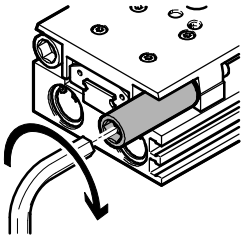
Step 1:
Screw the cushioning component and sleeve into the holder using a hex wrench until the stop is reached



Step 2:
Set the exact end position using a smaller hex wrench



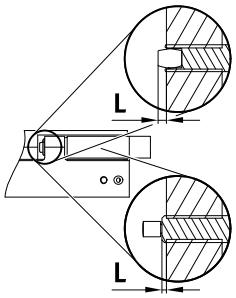
Step 3:
Lock the cushioning component in place by tightening the sleeve



Adjustable end-position range [mm] per end position/stroke reduction								
Size		6	8	10	12	16	20	25
Extended end position								
With cushioning	P	–12.1	–14.3	–15.6	–21.1	–21.7	–32.0	–46.0
	Y12	–10.2	–15.8	–15.1	–15.7	–15.9	–27.0	–31.0
Retracted end position								
With cushioning	P	–12.1	–14.6	–15.8	–21.5	–22.0	–31.5	–46.0
	Y12	–10.2	–16.1	–15.3	–16.1	–16.2	–26.5	–31.0

End-position adjustment

To prevent damage to the mini slide, adjustment length L should not fall below the specified length.
Dimensions:
For DGST-...-P: ➔ Page 35
For DGST-...-Y12: ➔ Page 36



DGST-...-P

DGST-...-Y12

Mini slides DGST

Technical data

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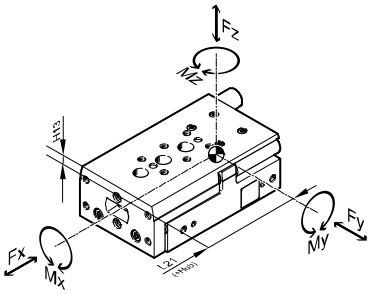
Dynamic characteristic load values

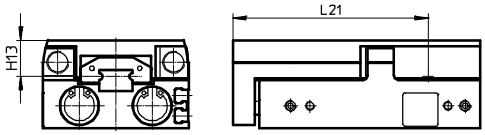
The indicated torques refer to the centre of the guide.
These values must not be exceeded during dynamic operation. Special attention must be paid to the cushioning phase.



If the drive is simultaneously subjected to several of the forces and torques indicated below, the following equation must be satisfied in addition to the indicated maximum loads:

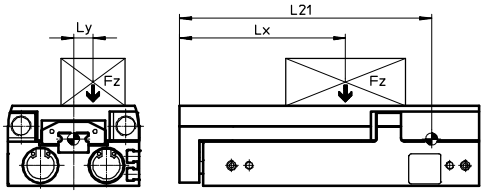
$$\frac{|Fy|}{Fy_{max.}} + \frac{|Fz|}{Fz_{max.}} + \frac{|Mx|}{Mx_{max.}} + \frac{|My|}{My_{max.}} + \frac{|Mz|}{Mz_{max.}} \leq 1$$

Position of the guide centre



Calculation example

Given:



Mini slide	= DGST-10
Stroke length	= 80 mm
Lever arm L_x	= 50 mm
Lever arm L_y	= 30 mm
Mass F_z	= 0.8 kg
Acceleration a	= 0 m/s²

To be calculated:

F_y, F_z, Mx, My, Mz
and
Verification of operation with combined load

Solution:

L21 = 110.2 mm from table

F_y = 0 N

F_z = m x g
= 0.8 kg x 9.81 m/s² = 7.848 N

M_x = m x g x L_y
= 0.8 kg x 9.81 m/s² x 30 mm = 0.236 Nm

M_y = m x g x [(L21+stroke)-L_x]
= 0.8 kg x 9.81 m/s² x [(110.2 mm + 80 mm) – 50 mm] = 1.1 Nm

M_z = 0 Nm

Combined load:

$$\frac{|Fy|}{Fy_{max.}} + \frac{|Fz|}{Fz_{max.}} + \frac{|Mx|}{Mx_{max.}} + \frac{|My|}{My_{max.}} + \frac{|Mz|}{Mz_{max.}} \leq 1$$

$$= 0 + \frac{7.848N}{520N} + \frac{0.236Nm}{6Nm} + \frac{1.1Nm}{5Nm} + 0 = 0.274 \leq 1$$

Permissible forces and torques					Geometric characteristics	
Size	Stroke [mm]	Fy_{max}, Fz_{max} [N]	Mx_{max} [Nm]	My_{max}, Mz_{max} [Nm]	H13 [mm]	L21 [mm]
6						
	10	200	1.1	0.7	9.35	31
	20	220	1.1	1		39.5
	30	240	1.1	1.2		51
	40	260	1.2	1.2		59.5
	50	280	1.4	1.2		73.5
8						
	10	250	2	2	10.75	31
	20	275	2	2		39.5
	30	300	2.8	2		51
	40	325	3	2.5		59.5
	50	350	3.2	3		73.5
	80	375	3.2	3		103.5

Mini slides DGST

Technical data

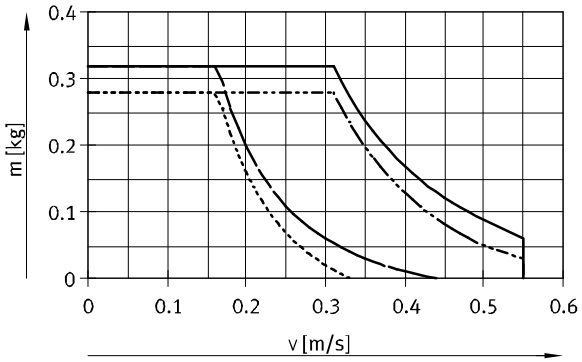
Permissible forces and torques					Geometric characteristics	
Size	Stroke [mm]	Fy_{max}, Fz_{max} [N]	Mx_{max} [Nm]	My_{max}, Mz_{max} [Nm]	H13 [mm]	L21 [mm]
10						
	10	470	3	3	12.25	45.7
	20	480	3	3		45.7
	30	490	3.5	3		58.5
	40	500	4	4.5		65.7
	50	510	5	4.5		78.5
	80	520	6	5		110.2
	100	530	6	6		130.2
12						
	10	500	4.2	4.2	14.5	43
	20	520	4.2	4.2		53
	30	540	4.2	4.2		63
	40	560	5.8	5.8		73
	50	580	7	5.8		83
	80	600	8.9	6.5		113
	100	620	10	6.8		139
16						
	10	820	11.3	7	16.5	48.5
	20	840	11.3	7		55.5
	30	860	11.3	7.5		59.5
	40	880	11.3	8		71.5
	50	900	11.3	8		88.5
	80	920	12	10		119
	100	940	12	10		139
	125	960	14	15		171.5
	150	960	14	16		196.5
20						
	10	1600	16	18	16	70
	20	1270	13	14		70
	30	1110	11	12		71
	40	930	10	11		82
	50	1080	9	10		93.6
	80	1030	14	11		131.4
	100	1160	18	11		160.3
	125	1380	20	17		192.6
	150	1300	20	17		222.8
	200	1170	20	17		279.6
25						
	10	1840	19	21	21	69.2
	20	1460	16	16		69.2
	30	1280	14	14		78.2
	40	1310	13	12		88.2
	50	1080	12	11		98.2
	80	1030	14	11		133.4
	100	1160	18	11		162.8
	125	1380	20	17		194.6
	150	1300	20	17		224.8
	200	1170	20	17		281.6

Mini slides DGST

Technical data

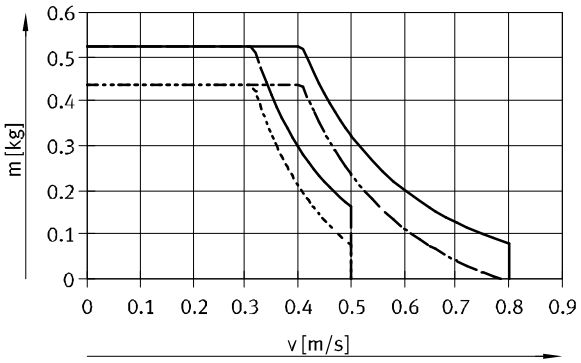
Payload load m as a function of impact velocity v and cushioning P/E1

DGST-6



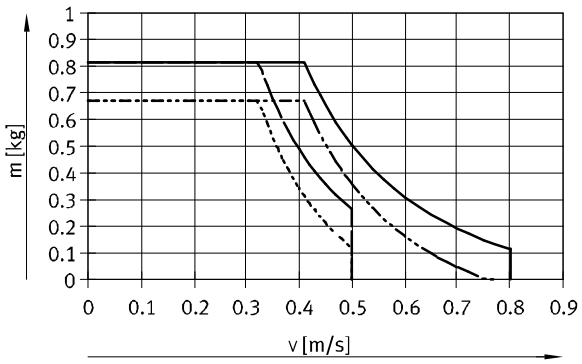
DGST-6-10-P
DGST-6-50-P
DGST-6-10-E1
DGST-6-50-E1

DGST-8



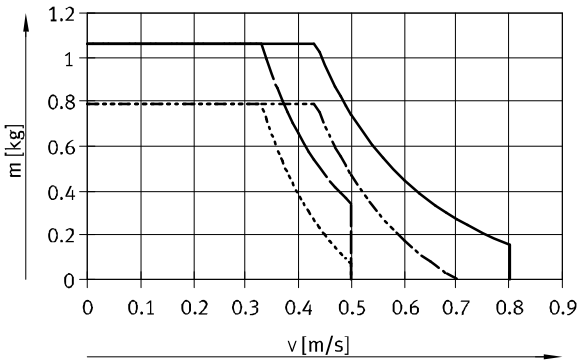
DGST-8-10-P
DGST-8-80-P
DGST-8-10-E1
DGST-8-80-E1

DGST-10



DGST-10-10-P
DGST-10-100-P
DGST-10-10-E1
DGST-10-100-E1

DGST-12



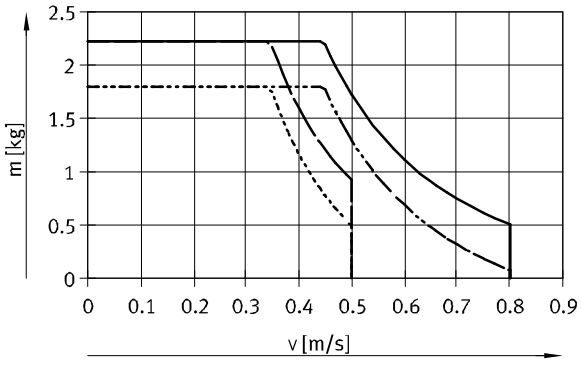
DGST-12-10-P
DGST-12-100-P
DGST-12-10-E1
DGST-12-100-E1

Mini slides DGST

Technical data

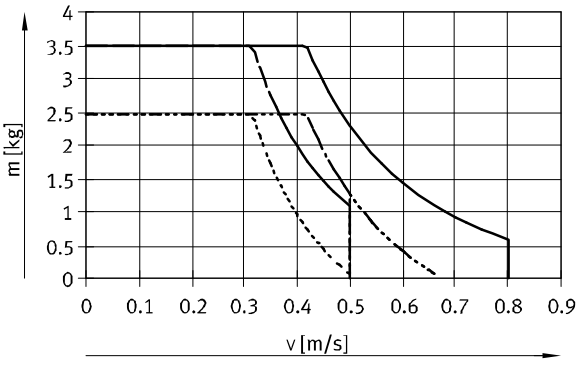
Payload load m as a function of impact velocity v and cushioning P/E1

DGST-16



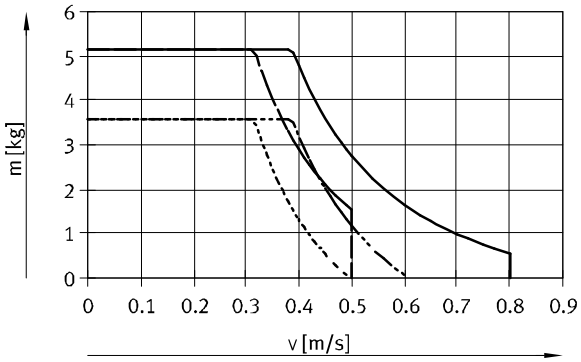
DGST-16-10-P
DGST-16-150-P
DGST-16-10-E1
DGST-16-150-E1

DGST-20



DGST-20-10-P
DGST-20-200-P
DGST-20-10-E1
DGST-20-200-E1

DGST-25



DGST-25-10-P
DGST-25-200-P
DGST-25-10-E1
DGST-25-200-E1

Mini slides DGST

Technical data

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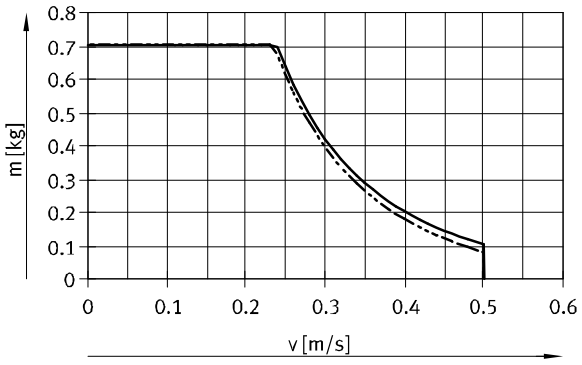
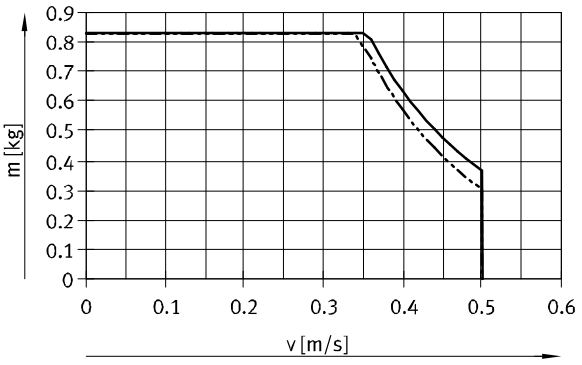
Payload load m as a function of impact velocity v and cushioning Y12

DGST-6



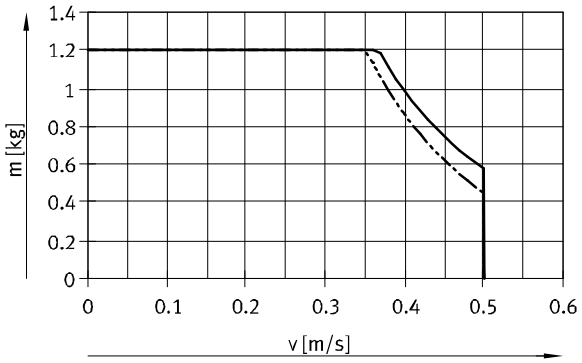
DGST-6-30-Y12
DGST-6-50-Y12

DGST-8



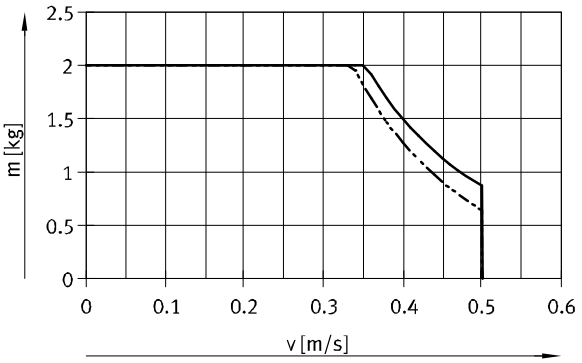
DGST-8-30-Y12
DGST-8-80-Y12

DGST-10



DGST-10-30-Y12
DGST-10-100-Y12

DGST-12



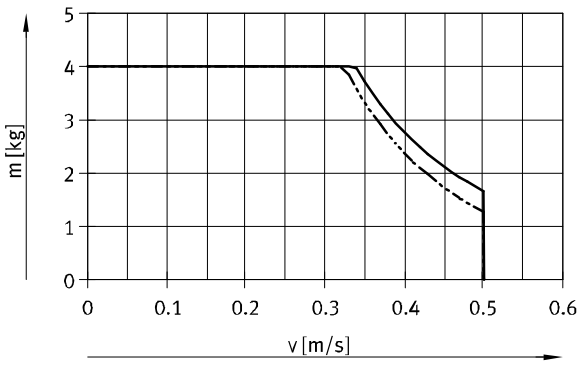
DGST-12-30-Y12
DGST-12-100-Y12

Mini slides DGST

Technical data

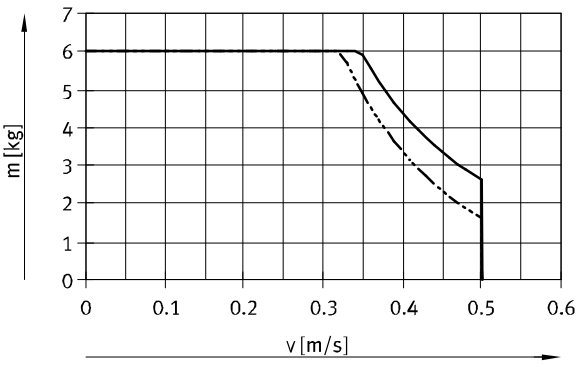
Payload load m as a function of impact velocity v and cushioning Y12

DGST-16



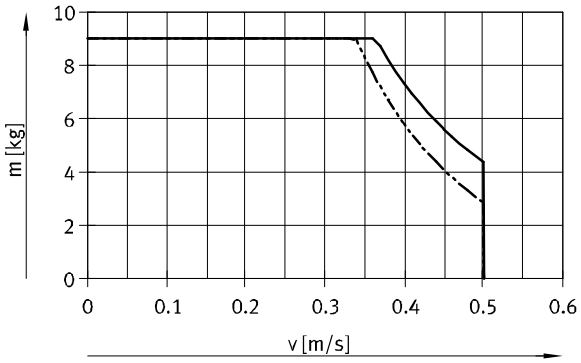
DGST-16-30-Y12
DGST-16-150-Y12

DGST-20



DGST-20-30-Y12
DGST-20-200-Y12

DGST-25



DGST-25-30-Y12
DGST-25-200-Y12

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Technical data

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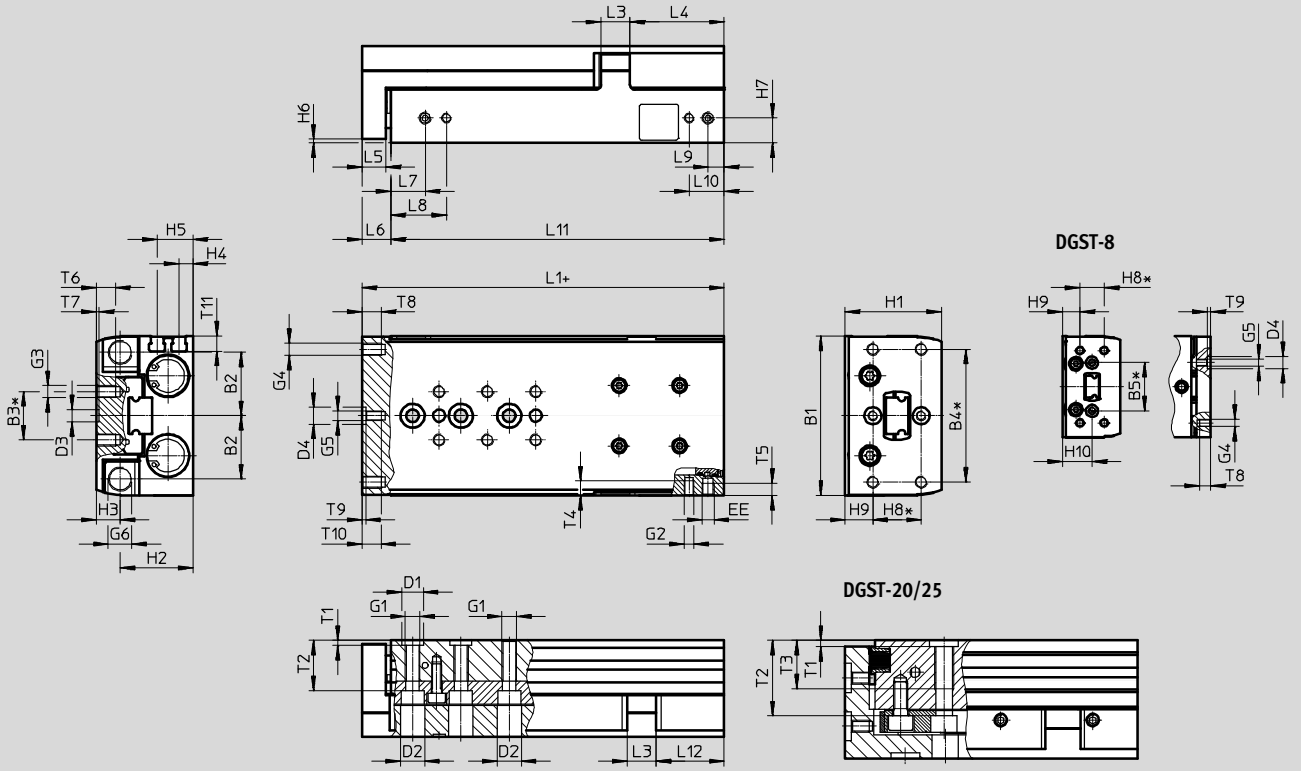

Actual stroke for variant DGST-...-E1 =
Stroke + additional stroke without cushioning + cushioning stroke
(Values ➔ Page 19)

\+ plus stroke length
* ±0.02 mm for the centring
±0.1 mm for the thread

Size	B1	B2	B3 ±0.1	B4 ±0.1	B5	D1 ∅ H7	D2 ∅	D3 ∅ H7	D4 ∅	EE	G1	G2	G3	G4
6	35	14.4	10	30	–	5	6	5	2^{H8}	M3	M4	M3	M3	M3
8	42	17	10	30	20	5	6	5	5^{H7}	M5	M4	M3	M3	M3
10	50	20.8	20	40	–	7	8	5	5^{H7}	M5	M5	M4	M4	M4
12	60	24.5	20	40	–	7	8	5	7^{H7}	M5	M5	M4	M4	M4
16	66	26.3	20	55	–	9	10	5	7^{H7}	M5	M6	M4	M5	M5
20	85	34.5	40	70	–	12	11	12	12^{H7}	G1/8	M8	M5	M5	M5
25	104	42	40	80	–	12	11	12	12^{H7}	G1/8	M8	M6	M6	M6

Size	G5	G6	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	L3	L4
6	–	M4x0.5	20	14.5	5.5	2.5	7	1.5	4.5	10	5	–	5	22
8	M3	M5x0.5	24	17.7	6.3	3.1	8.1	1.5	5.6	10	7.3	12.3	6	30.5
10	M3	M6x0.5	29	21	8	4	10	1.5	7	20	5	–	8	31
12	M4	M8x1	36	26.5	9.5	5.9	11.9	1.5	8.9	20	9.5	–	10	36
16	M4	M10x1	40	30	10	5.8	14.8	1.5	10.3	20	11.6	–	12	39
20	M5	M12x1	49	36.5	12.5	8.7	17.7	2.5	13.2	20	15.5	–	14.5	51
25	M6	M14x1	60	44.5	15.5	11	21	2.5	16	40	10	–	17.5	65

Mini slides DGST

Technical data

Size	L5	L6	L7	L8[1)]	L9	L10[1)]	T1	T2	T3 max.	T4 max.	T5 max.
6	6	8	8.5	15.4	5.8	12.7	$1.3^{+0.1}$	8.9	–	4	4
8	6	8	8.5	16.5	5.5	13.5	$1.3^{+0.1}$	11.5	–	5	4.5
10	8	10	8.9	17.9	6.6	15.6	$1.6^{+0.1}$	14.5	–	6.2	5
12	8	10	10.7	19.5	7	15.8	$1.6^{+0.1}$	19.8	–	7	5.5
16	10	12	14.2	23	6.7	15.5	$2.1^{+0.1}$	20.8	–	6	5
20	10	12.5	16.5	30.5	8	22	$2.6^{+0.3}$	31.2	20	8	8.5
25	12	14.5	16.5	31.5	10.5	25.5	$2.6^{+0.3}$	37.2	20	9.5	8

Size	T7	T8 max.	T9	T10 max.	T11	Additional stroke without cushioning for variant DGST-...-E1		Max. cushioning stroke in the end positions for variant DGST-...-E1	
						min.	max.	Advanced	Retracted
6	$1.3^{+0.1}$	4.5	–	–	4.6	0.65	1.3	0.25	0.9
8	$1.3^{+0.1}$	4.5	$1.3^{+0.1}$	–	5	0	0.7	0.5	1.6
10	$1.3^{+0.1}$	6.5	$1.3^{+0.1}$	6.5	5.9	0	0.7	0.6	1.6
12	$1.3^{+0.1}$	6.5	$1.6^{+0.1}$	8	7	0.4	1.1	0.5	1.1
16	$1.3^{+0.1}$	8	$1.6^{+0.1}$	8	6.3	0.65	1.4	0.6	0.65
20	$2.6^{+0.3}$	8	$2.6^{+0.3}$	10	9.1	0.4	1.1	0.5	1
25	$2.6^{+0.3}$	10	$2.6^{+0.3}$	13	8.8	0.5	1.2	0.5	1.2

1) Not available with sizes 6 and 8 with stroke of 10 mm.
For size 16 with stroke of 80 ... 150 mm, the measurement is 14.5 mm

Stroke [mm] Size	10	20	30	40	50	80	100	125	150	200
	L1									
6	48	58	68	78	95	–	–	–	–	–
8	51	61	71	81	95	126	–	–	–	–
10	66	68	78	88	98	136	156	–	–	–
12	66	76	86	96	106	136	169.5	–	–	–
16	73	80	87	97	112	150	170	210	235	–
20	97	97	97	107	121	166	204.5	244	279	343
25	102	102	108	118	128	168	207	246	281	345
	L11									
6	40	50	60	70	87	–	–	–	–	–
8	43	53	63	73	87	118	–	–	–	–
10	56	58	68	78	88	126	146	–	–	–
12	56	66	76	86	96	126	159.5	–	–	–
16	61	68	75	85	100	138	158	198	223	–
20	84.5	84.5	84.5	94.5	108.5	153.5	192	231.5	266.5	330.5
25	87.5	87.5	93.5	103.5	113.5	153.5	192.5	231.5	266.5	330.5
	L12									
6	16	16	16	16	22	–	–	–	–	–
8	15.7	15.7	15.7	15.7	19.7	20.7	–	–	–	–
10	24.6	16.6	16.6	16.6	16.6	24.6	24.6	–	–	–
12	20.6	20.6	20.6	20.6	20.6	20.6	34.1	–	–	–
16	21.2	18.2	15.2	15.2	20.2	28.2	28.2	39	39	–
20	39.5	29.5	19.5	19.5	23.5	38.5	51	51	51	51
25	36.5	26.5	22.5	22.5	22.5	32.5	51.5	65	65	65
	T6 (max.)									
6	4	4	4	4	4	–	–	–	–	–
8	5.5	5.5	5.5	5.5	5.5	5.5	–	–	–	–
10	4.5	4.5	4.5	4.5	4.5	7.5	7.5	–	–	–
12	5.2	5.2	5.2	5.2	5.2	8	8	–	–	–
16	7.2	7.2	7.2	7.2	7.2	8	8	8	8	–
20	8	8	8	8	8	8	8	8	8	8
25	11	11	11	11	11	11	11	11	11	11

Mini slides DGST

Technical data

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Hole pattern for mounting threads and centring holes

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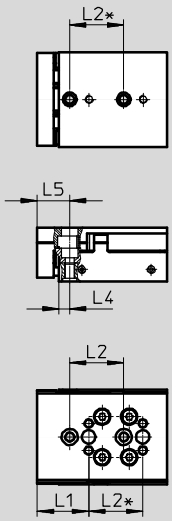
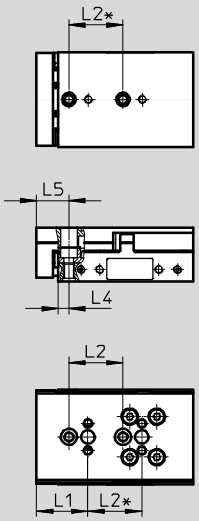
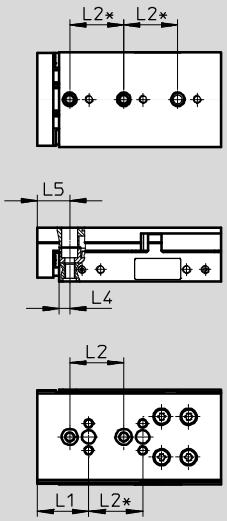
DGST-6-10



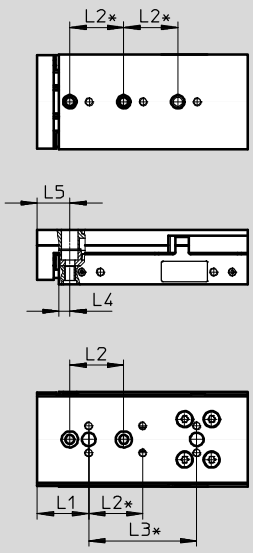
DGST-6-20



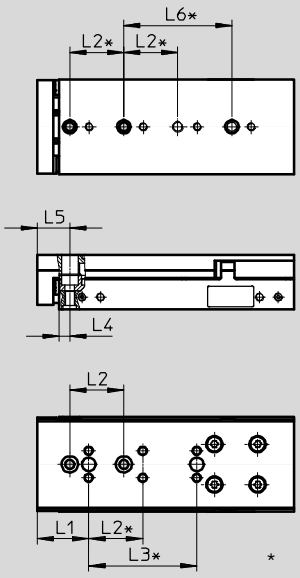
DGST-6-30



DGST-6-40



DGST-6-50



* ±0.02 mm for the centring
±0.1 mm for the thread

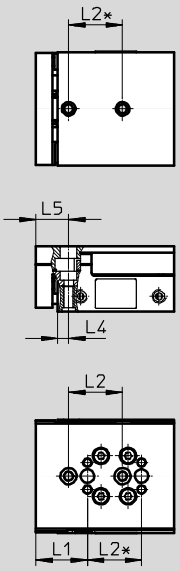
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6
6	10	19	20	–	4	12	–
	20			–			–
	30			–			–
	40			40			–
	50			40			40

Mini slides DGST

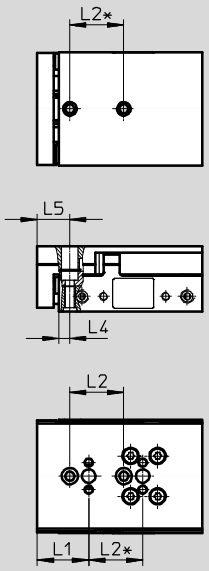
Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

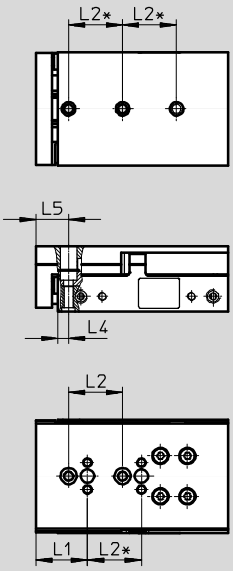
DGST-8-10



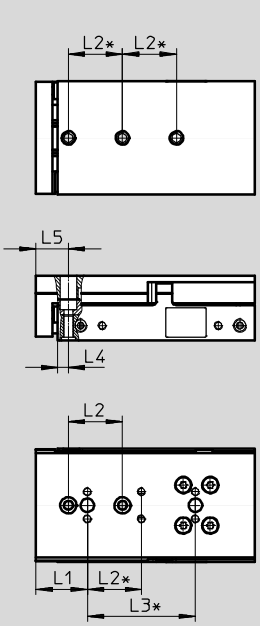
DGST-8-20



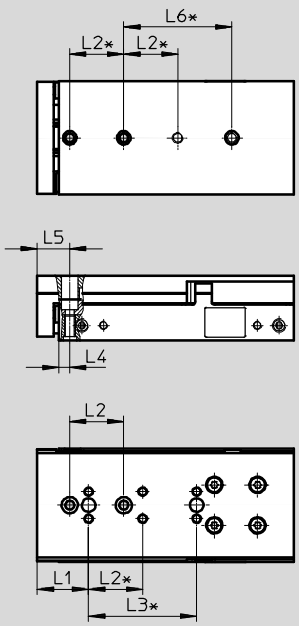
DGST-8-30



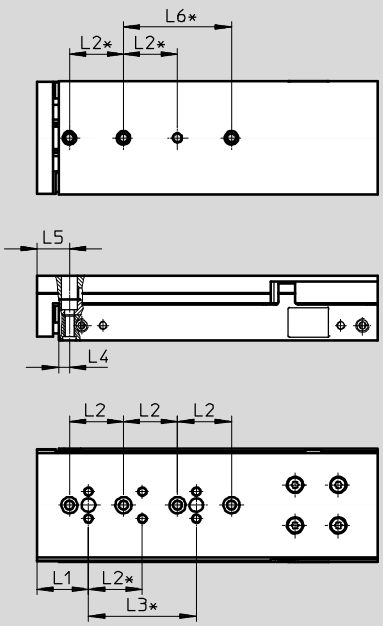
DGST-8-40



DGST-8-50



DGST-8-80



* ±0.02 mm for the centring
±0.1 mm for the thread

Size	Stroke [mm]	L1	L2	L3	L4	L5	L6
8	10	19	20	–	4	12	–
	20			–			–
	30			–			–
	40			40			–
	50			40			40
	80			40			40

Mini slides DGST

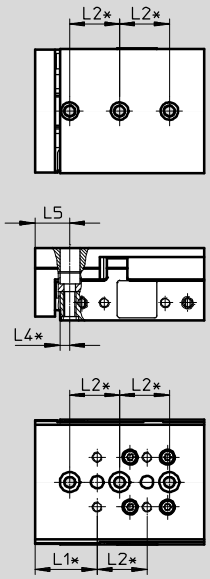
Technical data

FESTO

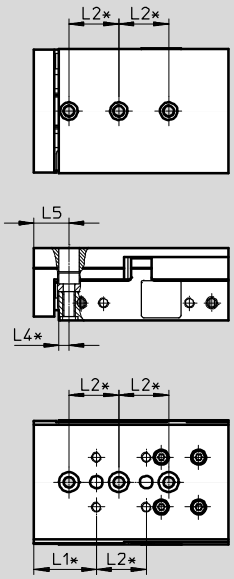
Hole pattern for mounting threads and centring holes

Download CAD data ➔ **www.festo.com**

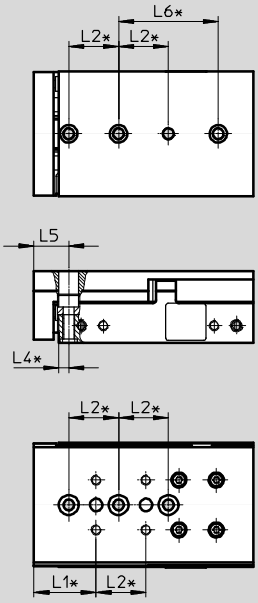
DGST-10-10/20



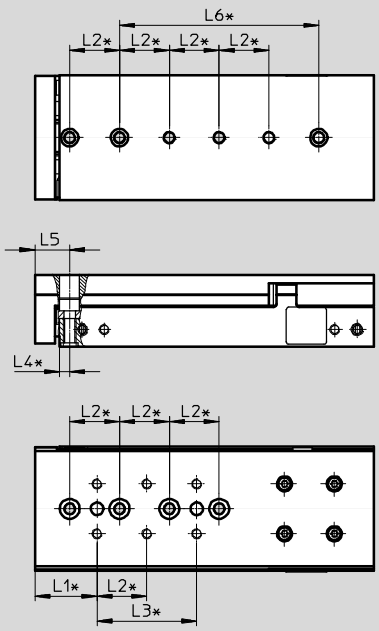
DGST-10-30



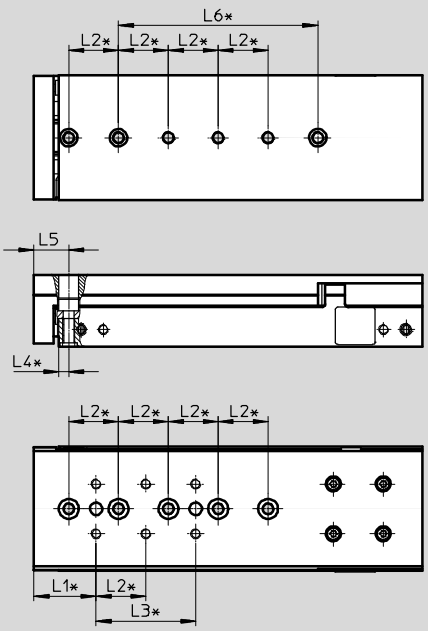
DGST-10-40/50



DGST-10-80



DGST-10-100



* ±0.02 mm for the centring
±0.1 mm for the thread

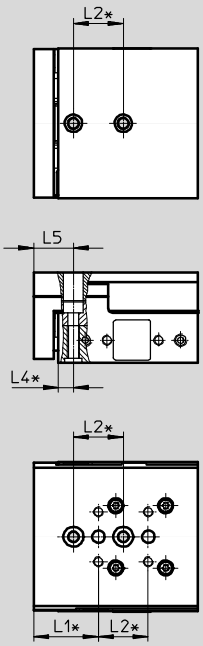
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6
10	10, 20	25	20	–	4	14	–
	30			–			–
	40, 50			–			40
	80			40			80
	100			40			80

Mini slides DGST

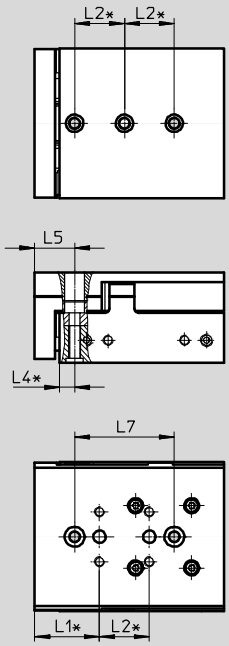
Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

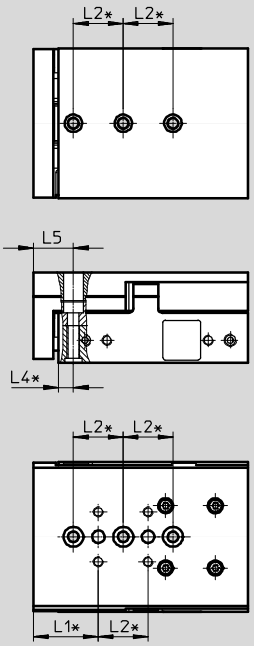
DGST-12-10



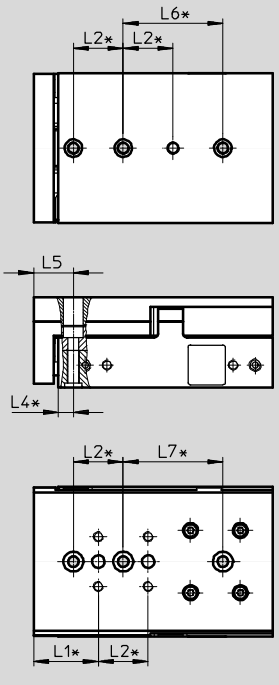
DGST-12-20



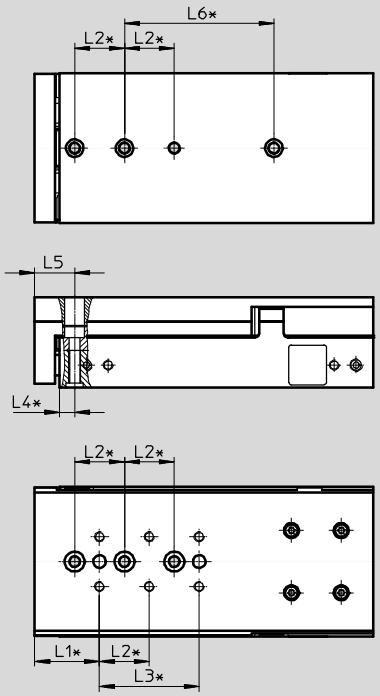
DGST-12-30



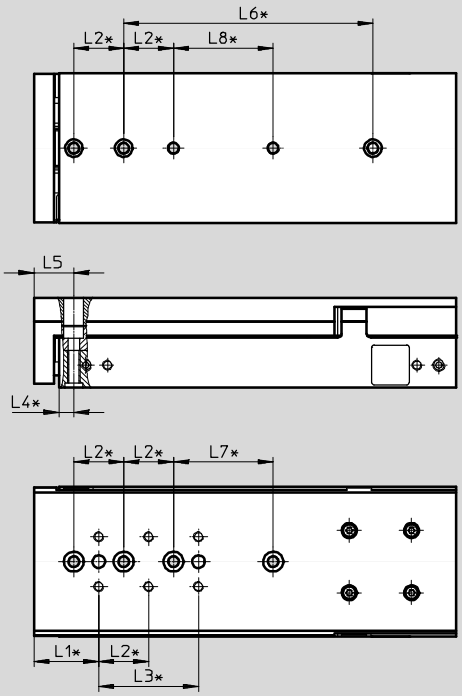
DGST-12-40



DGST-12-50/80



DGST-12-100



* ±0.02 mm for the centring
±0.1 mm for the thread

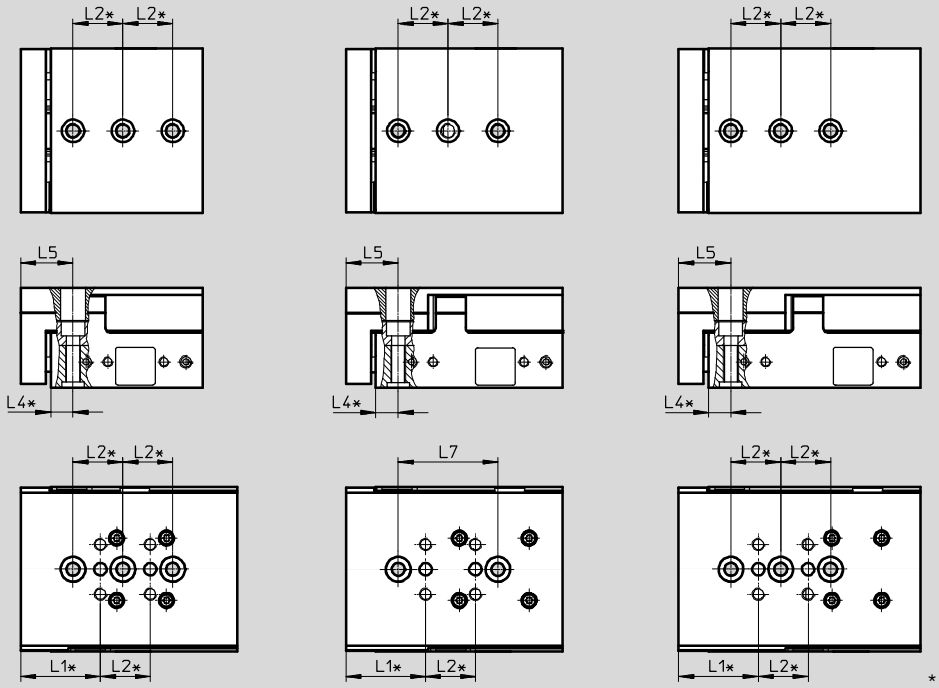
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7	L8
12	10	26	20	–	6	16	–	–	–
	20			–			–	40	–
	30			–			–	–	–
	40			–			40	40	–
	50, 80			40			40, 60	–	–
	100			40			100	40	40

Mini slides DGST

Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-16-10 DGST-16-20/30 DGST-16-40



* ±0.02 mm for the centring
±0.1 mm for the thread

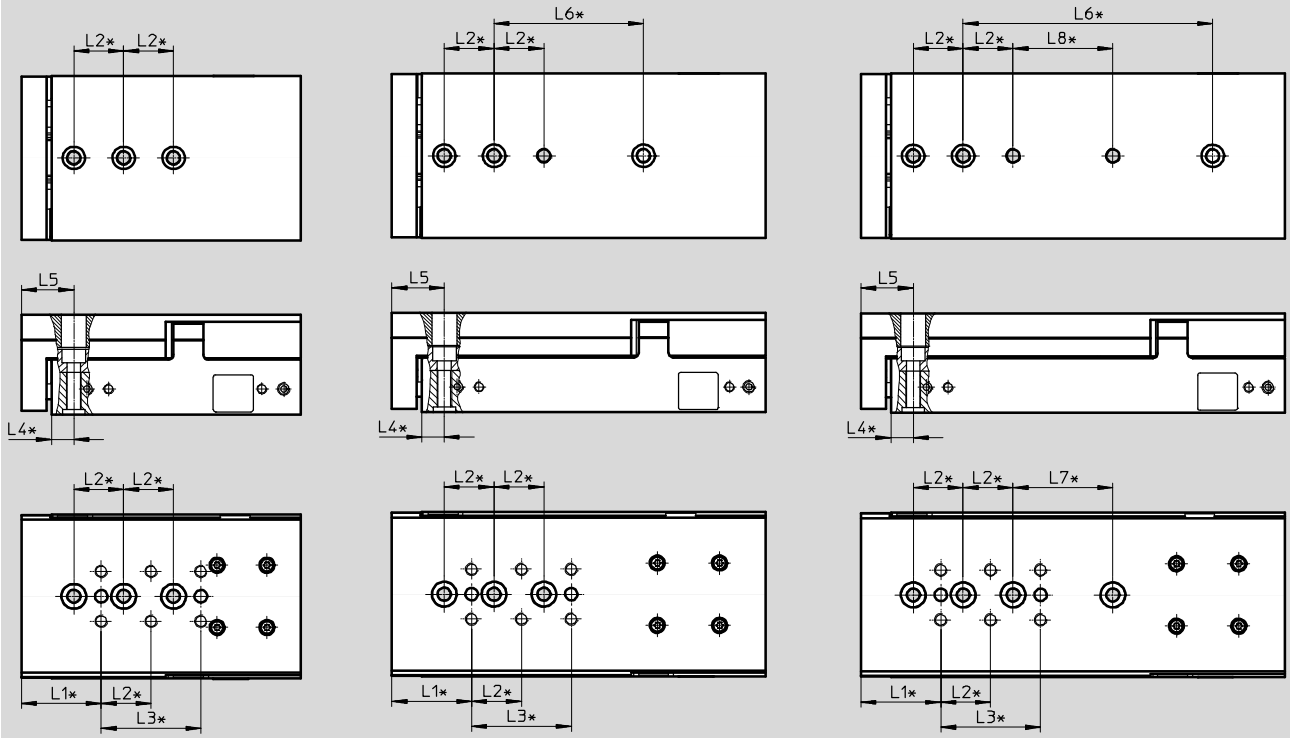
Size	Stroke [mm]	L1	L2	L4	L5	L7
16	10	32	20	9	21	–
	20					40
	30					40
	40					–

Mini slides DGST

Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-16-50 DGST-16-80 DGST-16-100



* ±0.02 mm for the centring
±0.1 mm for the thread

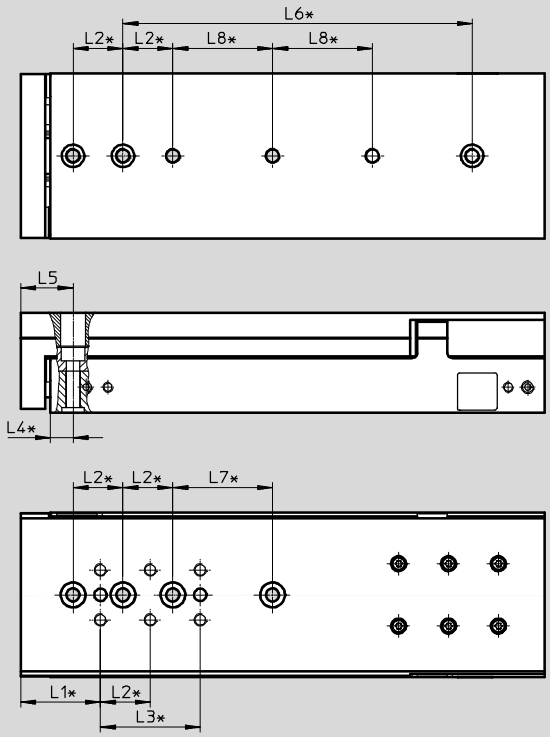
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7	L8
16	50	32	20	40	9	21	–	–	–
	80						60	–	–
	100						100	40	40

Mini slides DGST

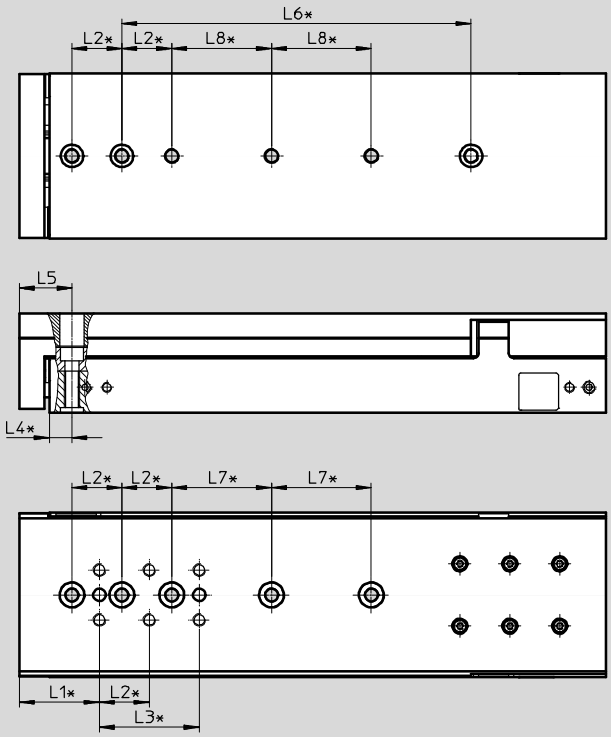
Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-16-125



DGST-16-150



* ±0.02 mm for the centring
±0.1 mm for the thread

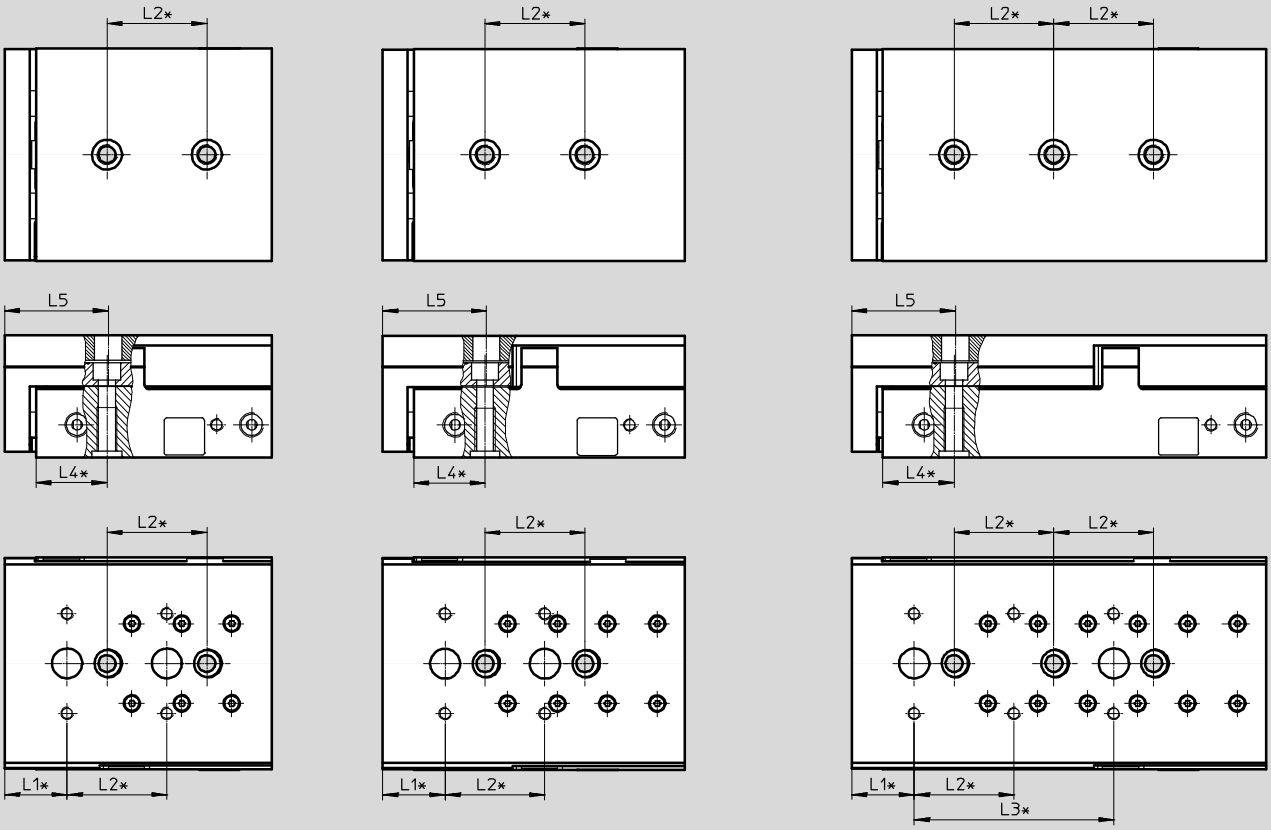
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7	L8
16	125	32	20	40	9	21	140	40	40
	150								

Mini slides DGST

Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-20-10/20/30/40 DGST-20-50 DGST-20-80



* ±0.02 mm for the centring
±0.1 mm for the thread

Size	Stroke [mm]	L1	L2	L3	L4	L5
20	10	25	40	–	28.5	41.5
	20			–		
	30			–		
	40			–		
	50			–		
	80			80		

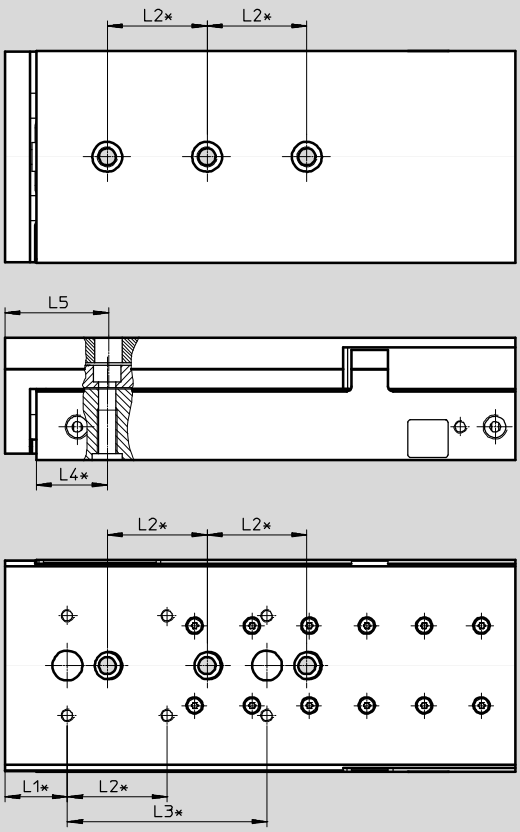
Mini slides DGST

Technical data

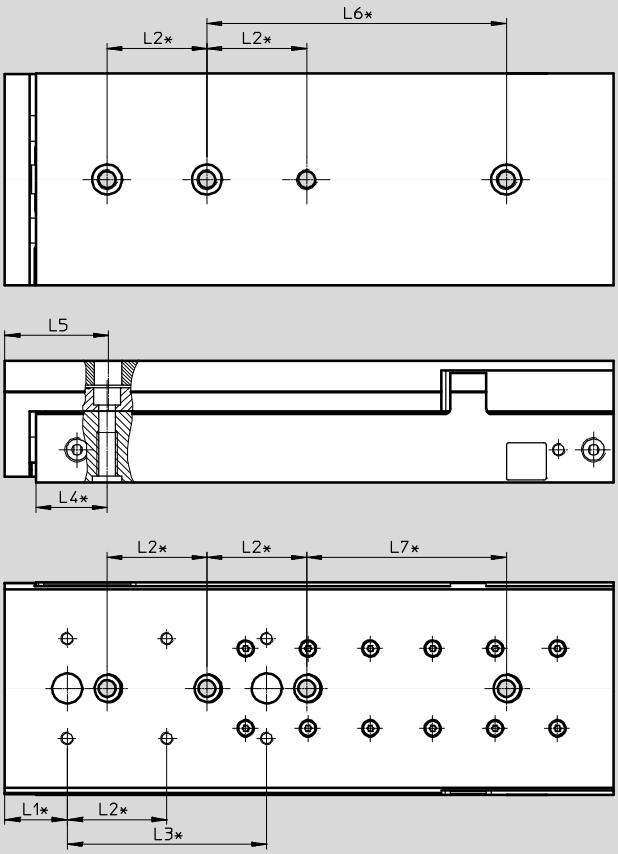
FESTO

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-20-100



DGST-20-125



* ±0.02 mm for the centring
±0.1 mm for the thread

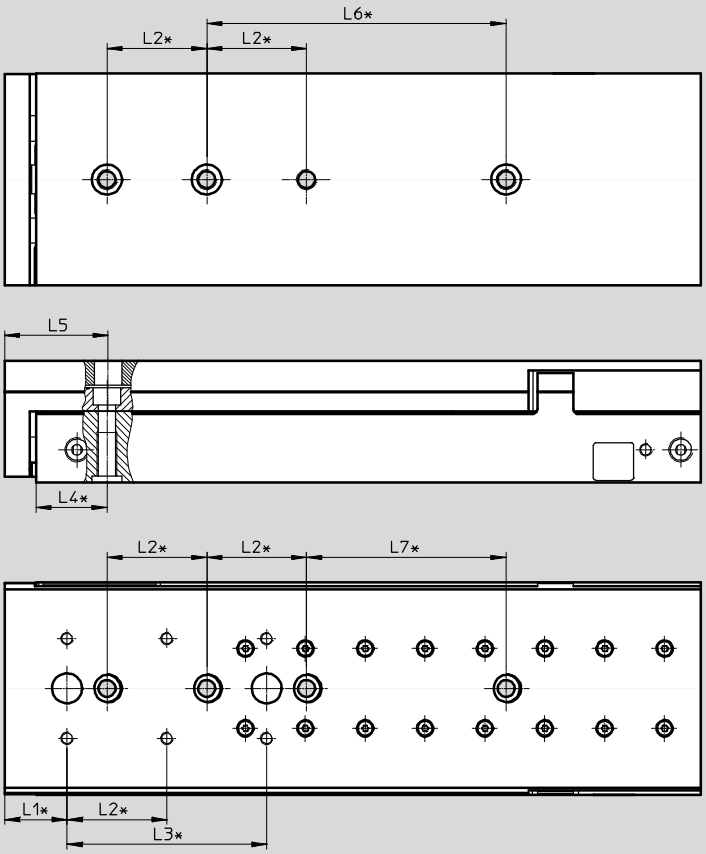
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7
20	100	25	40	80	28.5	41.5	–	80
	125						120	

Mini slides DGST

Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-20-150



* ±0.02 mm for the centring
±0.1 mm for the thread

Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7
20	150	25	40	80	28.5	41.5	120	80

Mini slides DGST

Technical data

FESTO

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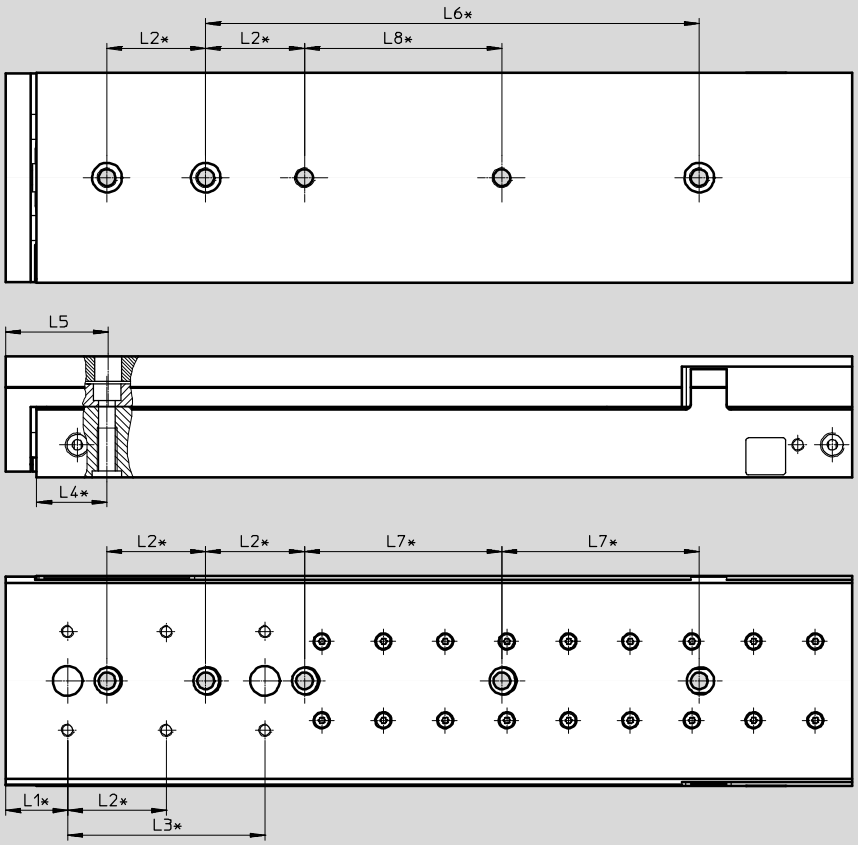
DGST-20-200



* ±0.02 mm for the centring
±0.1 mm for the thread

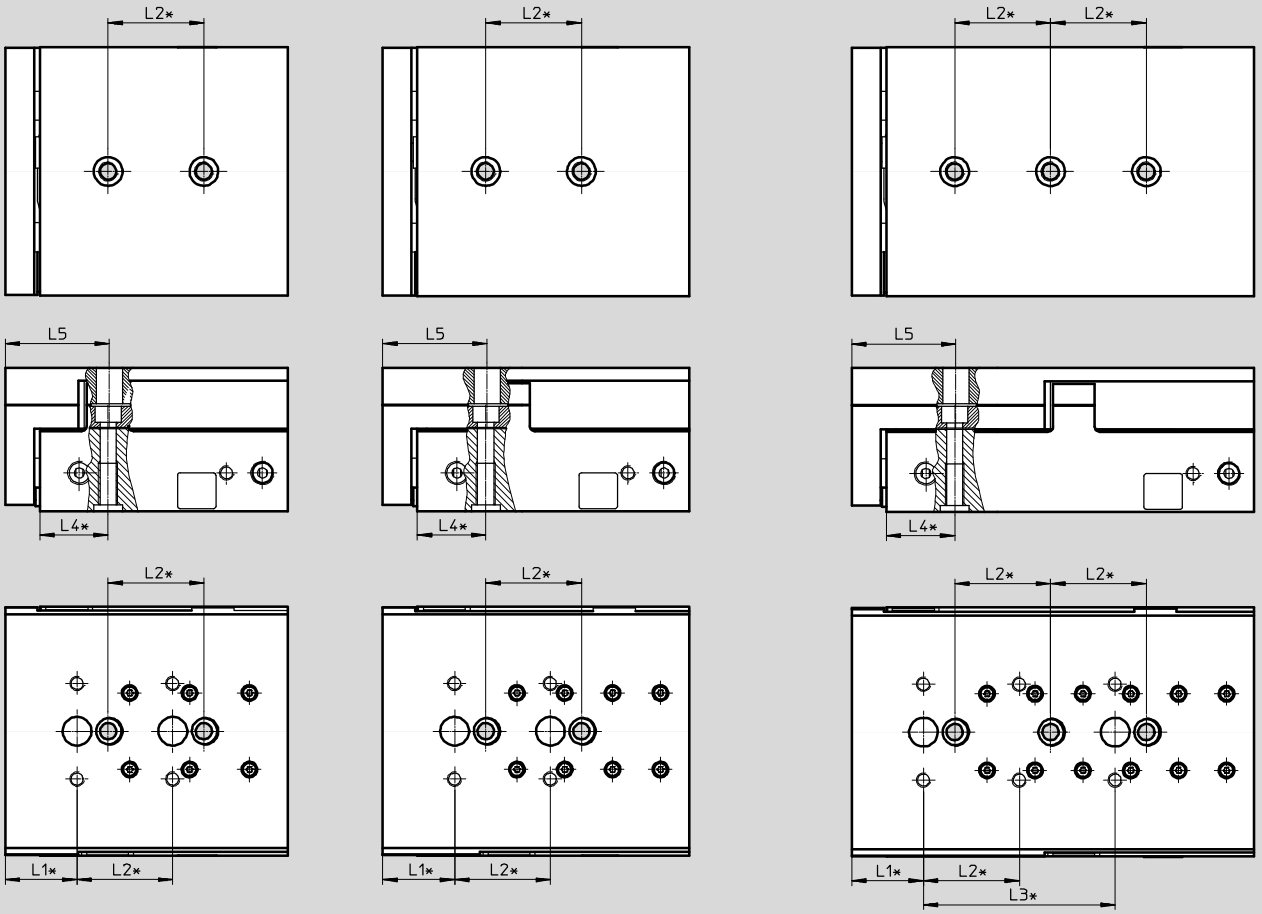
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7	L8
20	200	25	40	80	28.5	41.5	200	80	80

Mini slides DGST

Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-25-10/20/30/40 DGST-25-50 DGST-25-80



* ±0.02 mm for the centring
±0.1 mm for the thread

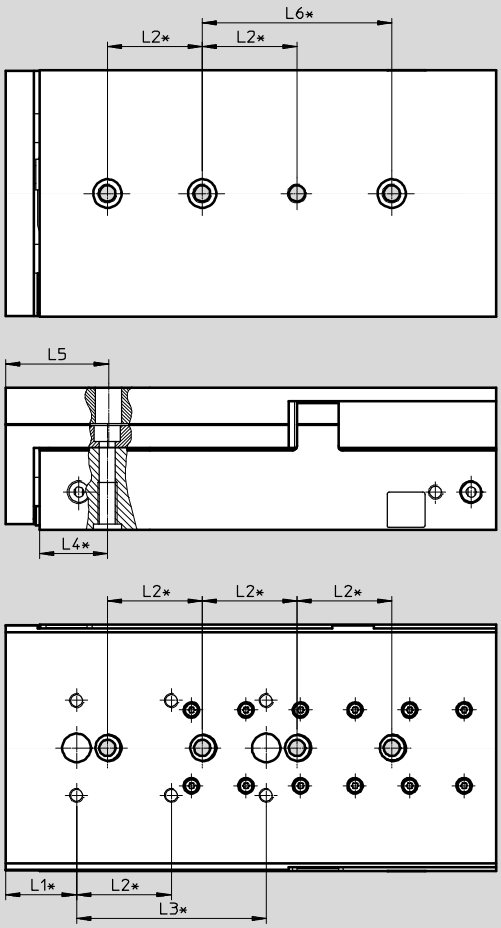
Size	Stroke [mm]	L1	L2	L3	L4	L5
25	10	30	40	–	28.5	43.5
	20			–		
	30			–		
	40			–		
	50			–		
	80			80		

Mini slides DGST

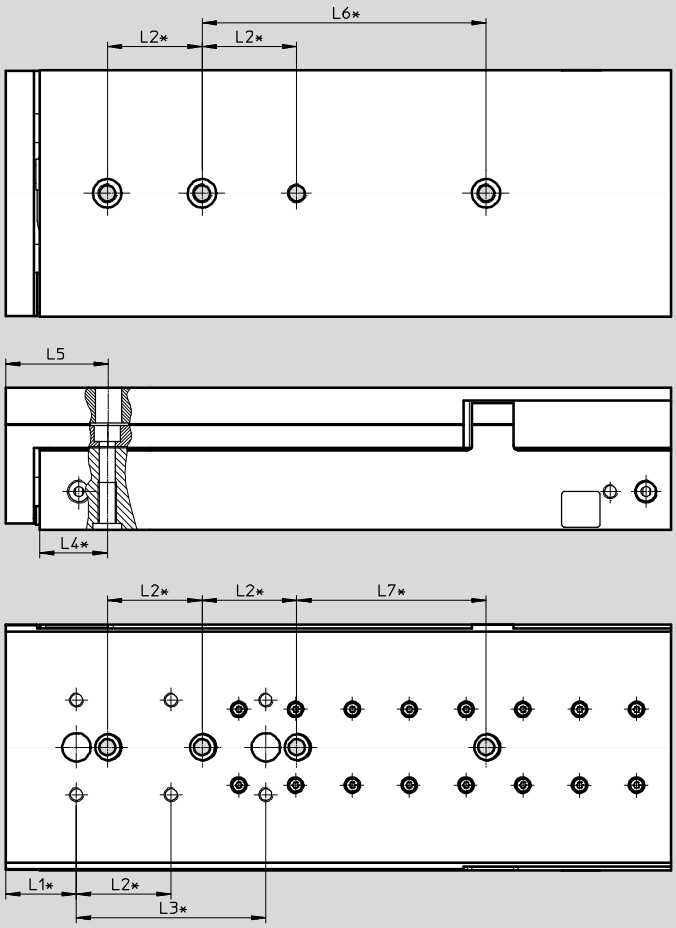
Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-25-100



DGST-25-125



* ±0.02 mm for the centring
±0.1 mm for the thread

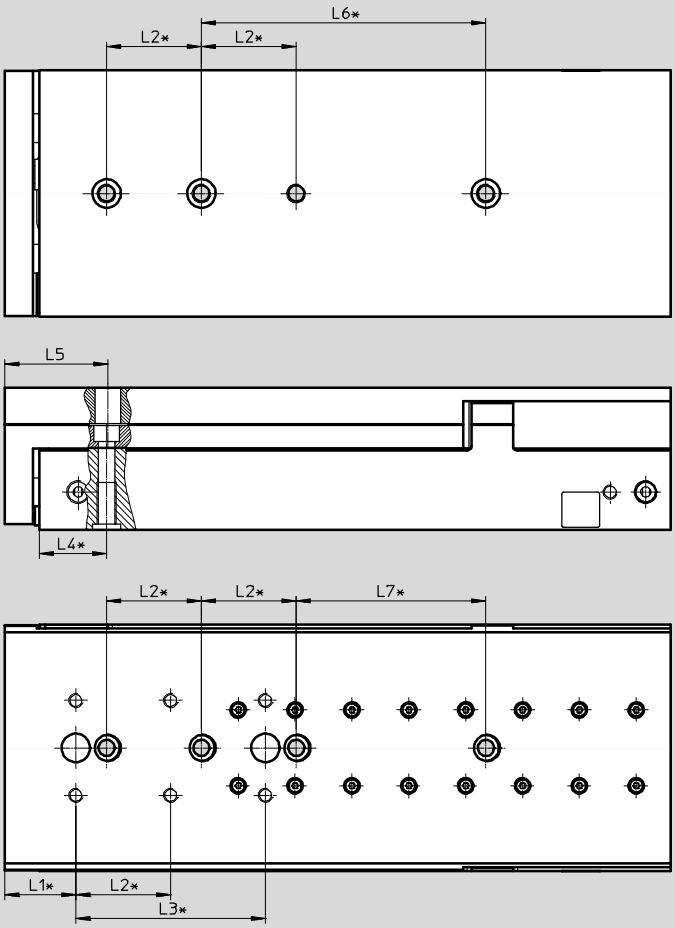
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7
25	100	30	40	80	28.5	43.5	80	80
	125						120	

Mini slides DGST

Technical data

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-25-150



* ±0.02 mm for the centring
±0.1 mm for the thread

Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7
25	150	30	40	80	28.5	43.5	120	80

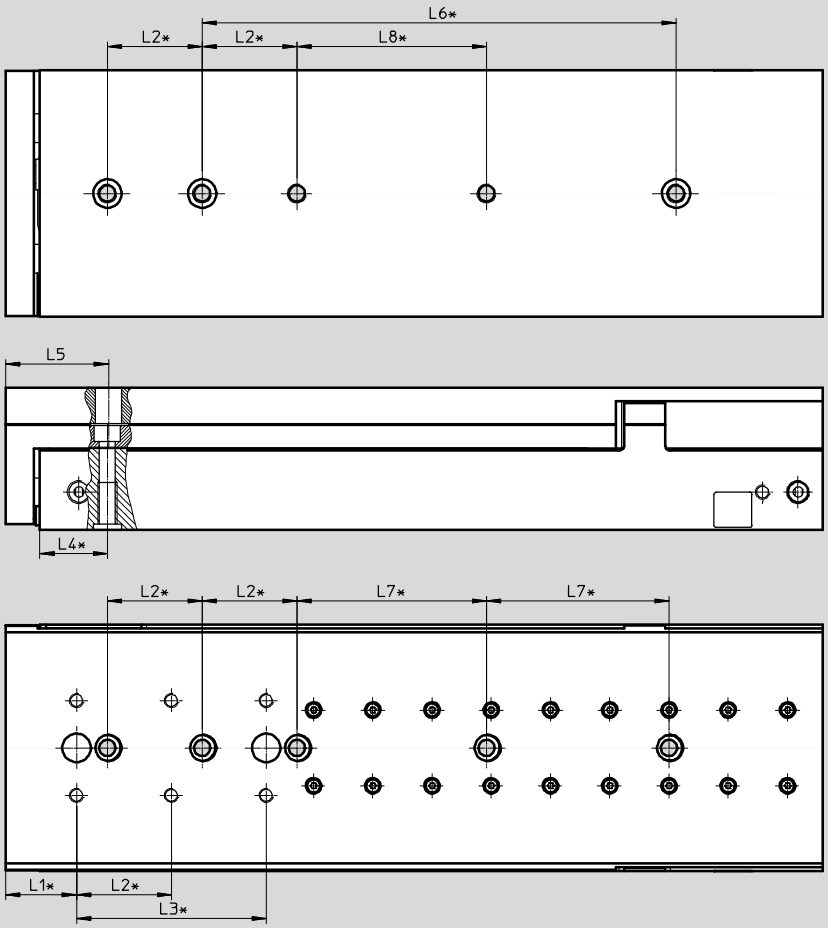
Mini slides DGST

Technical data

FESTO

Hole pattern for mounting threads and centring holes Download CAD data ➔ **www.festo.com**

DGST-25-200



* ±0.02 mm for the centring
±0.1 mm for the thread

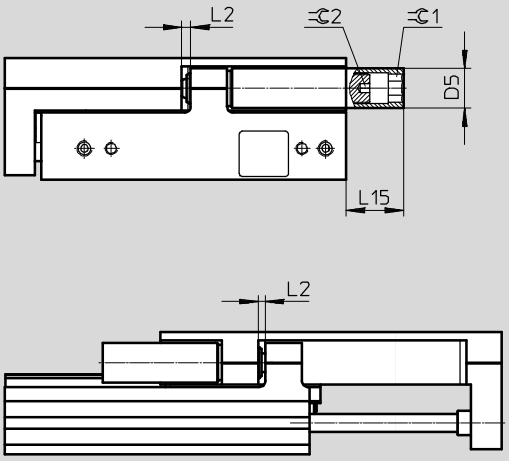
Size	Stroke [mm]	L1	L2	L3	L4	L5	L6	L7	L8
25	200	30	40	80	28.5	43.5	200	80	80

Mini slides DGST

Technical data

Dimensions Download CAD data ➔ **www.festo.com**

DGST-...-P: Adjustment length and projection in the end positions



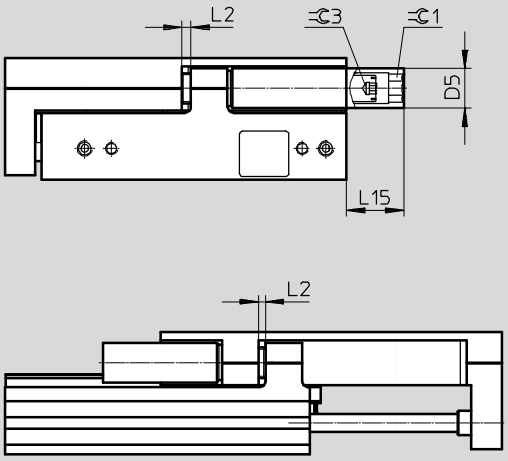
Size	Stroke [mm]	D5 ∅	L2 Retracted min.	L2 Retracted max.	L2 Advanced min.	L2 Advanced max.	L15	=C1	=C3
6	10, 20, 30, 40	6	2.5	15	1.5	15	6	3	1.3
	50						0		
8	10, 20, 30, 40	7	3	18.5	2.3	18.5	14.8	4	1.5
	50						10.8		
	80						9.8		
10	10	8	3	19.5	2.4	19.5	6.4	5	2
	20, 30, 40, 50						13.9		
	80, 100						5.9		
12	10, 20, 30, 40, 50, 80	10	3	25	2.4	25	15.4	6	2.5
	100						1.9		
16	10	13	3	26	2.35	26	17.85	8	3
	20						20.85		
	30, 40						23.85		
	50						18.85		
	80, 100						10.85		
	125, 150						0		
20	10	15	3.5	36	2.25	36	11.5	10	4
	20						21.5		
	30, 40						31.5		
	50						27.5		
	80						12.5		
	100, 125, 150, 200						0		
25	10	18	3.5	50	2.5	50	28.5	10	4
	20						38.5		
	30, 40, 50						42.5		
	80						32.5		
	100						13.5		
	125, 150, 200						0		

Mini slides DGST

Technical data

Dimensions Download CAD data ➔ **www.festo.com**

DGST-...-Y12: Adjustment length and projection in the end positions



Size	Stroke [mm]	D5 ∅	L2 Retracted min.	L2 Retracted max.	L2 Advanced min.	L2 Advanced max.	L15	⌯1	⌯3
6	30, 40	6	2.5	13	1.5	13	6	3	–[1]
	50						0		
8	30, 40	7	3	19.5	2.3	19.5	14.8	4	2
	50						10.8		
	80						9.8		
10	30, 40, 50	8	3	19	2.4	19	13.9	5	2
	80, 100						5.9		
12	30, 40, 50, 80	10	3	19.5	2.4	19.5	15.4	6	2.5
	100						1.9		
16	30, 40	13	3	19.5	2.35	19.5	23.85	8	3
	50						18.85		
	80, 100						10.85		
	125, 150						0		
20	30, 40	15	3.5	30.5	2.25	30.5	31.5	10	4
	50						27.5		
	80						12.5		
	100, 125, 150, 200						0		
25	30, 40, 50	18	3.5	35	2.5	35	42.5	10	4
	80						32.5		
	100						13.5		
	125, 150, 200						0		

1) There is a slit in the shock absorber so it can be screwed in.

Mini slides DGST

Technical data

FESTO

Ordering data

Size	Stroke [mm]	Part no.	Type code
With cushioning E1			
6	10	**8078828**	**DGST-6-10-E1A**
	20	**8078829**	**DGST-6-20-E1A**
	30	**8078830**	**DGST-6-30-E1A**
	40	**8078831**	**DGST-6-40-E1A**
	50	**8078832**	**DGST-6-50-E1A**
8	10	**8078833**	**DGST-8-10-E1A**
	20	**8078834**	**DGST-8-20-E1A**
	30	**8078835**	**DGST-8-30-E1A**
	40	**8078836**	**DGST-8-40-E1A**
	50	**8078837**	**DGST-8-50-E1A**
	80	**8078838**	**DGST-8-80-E1A**
10	10	**8078839**	**DGST-10-10-E1A**
	20	**8078840**	**DGST-10-20-E1A**
	30	**8078841**	**DGST-10-30-E1A**
	40	**8078842**	**DGST-10-40-E1A**
	50	**8078843**	**DGST-10-50-E1A**
	80	**8078844**	**DGST-10-80-E1A**
	100	**8078845**	**DGST-10-100-E1A**
12	10	**8078846**	**DGST-12-10-E1A**
	20	**8078847**	**DGST-12-20-E1A**
	30	**8078848**	**DGST-12-30-E1A**
	40	**8078849**	**DGST-12-40-E1A**
	50	**8078850**	**DGST-12-50-E1A**
	80	**8078851**	**DGST-12-80-E1A**
	100	**8078852**	**DGST-12-100-E1A**
16	10	**8078853**	**DGST-16-10-E1A**
	20	**8078854**	**DGST-16-20-E1A**
	30	**8078855**	**DGST-16-30-E1A**
	40	**8078856**	**DGST-16-40-E1A**
	50	**8078857**	**DGST-16-50-E1A**
	80	**8078858**	**DGST-16-80-E1A**
	100	**8078859**	**DGST-16-100-E1A**
	125	**8078860**	**DGST-16-125-E1A**
	150	**8078861**	**DGST-16-150-E1A**

Size	Stroke [mm]	Part no.	Type code
With cushioning P			
6	10	**8085105**	**DGST-6-10-PA**
	20	**8085106**	**DGST-6-20-PA**
	30	**8085107**	**DGST-6-30-PA**
	40	**8085108**	**DGST-6-40-PA**
	50	**8085109**	**DGST-6-50-PA**
8	10	**8085110**	**DGST-8-10-PA**
	20	**8085111**	**DGST-8-20-PA**
	30	**8085112**	**DGST-8-30-PA**
	40	**8085113**	**DGST-8-40-PA**
	50	**8085114**	**DGST-8-50-PA**
	80	**8085115**	**DGST-8-80-PA**
10	10	**8085116**	**DGST-10-10-PA**
	20	**8085117**	**DGST-10-20-PA**
	30	**8085118**	**DGST-10-30-PA**
	40	**8085119**	**DGST-10-40-PA**
	50	**8085120**	**DGST-10-50-PA**
	80	**8085121**	**DGST-10-80-PA**
	100	**8085122**	**DGST-10-100-PA**
12	10	**8085123**	**DGST-12-10-PA**
	20	**8085124**	**DGST-12-20-PA**
	30	**8085125**	**DGST-12-30-PA**
	40	**8085126**	**DGST-12-40-PA**
	50	**8085127**	**DGST-12-50-PA**
	80	**8085128**	**DGST-12-80-PA**
	100	**8085129**	**DGST-12-100-PA**
16	10	**8085130**	**DGST-16-10-PA**
	20	**8085131**	**DGST-16-20-PA**
	30	**8085132**	**DGST-16-30-PA**
	40	**8085133**	**DGST-16-40-PA**
	50	**8085134**	**DGST-16-50-PA**
	80	**8085135**	**DGST-16-80-PA**
	100	**8085136**	**DGST-16-100-PA**
	125	**8085137**	**DGST-16-125-PA**
	150	**8085138**	**DGST-16-150-PA**

Mini slides DGST

Technical data

FESTO

Ordering data							
Size	Stroke [mm]	Part no.	Type code	Size	Stroke [mm]	Part no.	Type code
With cushioning E1				With cushioning P			
20	10	**8078862**	**DGST-20-10-E1A**	20	10	**8085139**	**DGST-20-10-PA**
	20	**8078863**	**DGST-20-20-E1A**		20	**8085140**	**DGST-20-20-PA**
	30	**8078864**	**DGST-20-30-E1A**		30	**8085141**	**DGST-20-30-PA**
	40	**8078865**	**DGST-20-40-E1A**		40	**8085142**	**DGST-20-40-PA**
	50	**8078866**	**DGST-20-50-E1A**		50	**8085143**	**DGST-20-50-PA**
	80	**8078867**	**DGST-20-80-E1A**		80	**8085144**	**DGST-20-80-PA**
	100	**8078868**	**DGST-20-100-E1A**		100	**8085145**	**DGST-20-100-PA**
	125	**8078869**	**DGST-20-125-E1A**		125	**8085146**	**DGST-20-125-PA**
	150	**8078870**	**DGST-20-150-E1A**		150	**8085147**	**DGST-20-150-PA**
	200	**8078871**	**DGST-20-200-E1A**		200	**8085148**	**DGST-20-200-PA**
25	10	**8078872**	**DGST-25-10-E1A**	25	10	**8085149**	**DGST-25-10-PA**
	20	**8078873**	**DGST-25-20-E1A**		20	**8085150**	**DGST-25-20-PA**
	30	**8078874**	**DGST-25-30-E1A**		30	**8085151**	**DGST-25-30-PA**
	40	**8078875**	**DGST-25-40-E1A**		40	**8085152**	**DGST-25-40-PA**
	50	**8078876**	**DGST-25-50-E1A**		50	**8085153**	**DGST-25-50-PA**
	80	**8078877**	**DGST-25-80-E1A**		80	**8085154**	**DGST-25-80-PA**
	100	**8078878**	**DGST-25-100-E1A**		100	**8085155**	**DGST-25-100-PA**
	125	**8078879**	**DGST-25-125-E1A**		125	**8085156**	**DGST-25-125-PA**
	150	**8078880**	**DGST-25-150-E1A**		150	**8085157**	**DGST-25-150-PA**
	200	**8078881**	**DGST-25-200-E1A**		200	**8085158**	**DGST-25-200-PA**

Mini slides DGST

Technical data

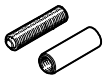
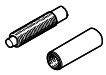
FESTO

Ordering data			
Size	Stroke [mm]	Part no.	Type code
With cushioning Y12			
6	30	**8085159**	**DGST-6-30-Y12A**
	40	**8085160**	**DGST-6-40-Y12A**
	50	**8085161**	**DGST-6-50-Y12A**
8	30	**8085162**	**DGST-8-30-Y12A**
	40	**8085163**	**DGST-8-40-Y12A**
	50	**8085164**	**DGST-8-50-Y12A**
	80	**8085165**	**DGST-8-80-Y12A**
10	30	**8085166**	**DGST-10-30-Y12A**
	40	**8085167**	**DGST-10-40-Y12A**
	50	**8085168**	**DGST-10-50-Y12A**
	80	**8085169**	**DGST-10-80-Y12A**
	100	**8085170**	**DGST-10-100-Y12A**
12	30	**8085171**	**DGST-12-30-Y12A**
	40	**8085172**	**DGST-12-40-Y12A**
	50	**8085173**	**DGST-12-50-Y12A**
	80	**8085174**	**DGST-12-80-Y12A**
	100	**8085175**	**DGST-12-100-Y12A**
16	30	**8085176**	**DGST-16-30-Y12A**
	40	**8085177**	**DGST-16-40-Y12A**
	50	**8085178**	**DGST-16-50-Y12A**
	80	**8085179**	**DGST-16-80-Y12A**
	100	**8085180**	**DGST-16-100-Y12A**
	125	**8085181**	**DGST-16-125-Y12A**
	150	**8085182**	**DGST-16-150-Y12A**
20	30	**8085183**	**DGST-20-30-Y12A**
	40	**8085184**	**DGST-20-40-Y12A**
	50	**8085185**	**DGST-20-50-Y12A**
	80	**8085186**	**DGST-20-80-Y12A**
	100	**8085187**	**DGST-20-100-Y12A**
	125	**8085188**	**DGST-20-125-Y12A**
	150	**8085189**	**DGST-20-150-Y12A**
	200	**8085190**	**DGST-20-200-Y12A**
25	30	**8085191**	**DGST-25-30-Y12A**
	40	**8085192**	**DGST-25-40-Y12A**
	50	**8085193**	**DGST-25-50-Y12A**
	80	**8085194**	**DGST-25-80-Y12A**
	100	**8085195**	**DGST-25-100-Y12A**
	125	**8085196**	**DGST-25-125-Y12A**
	150	**8085197**	**DGST-25-150-Y12A**
	200	**8085198**	**DGST-25-200-Y12A**

Mini slides DGST

Accessories

FESTO

Ordering data – Shock absorber				
	For size	Description	Part no.	Type code
For DGST-...-P				Technical data ➔ Internet: dyef
	6	• Elastic cushioning at both ends, self-adjusting, with end-position adjustment • Scope of delivery: 1 cushioning component and 1 threaded sleeve	**8073902**	**DYEF-G8-M4-Y1**
	8		**8073903**	**DYEF-G8-M5-Y1**
	10		**8073904**	**DYEF-G8-M6-Y1**
	12		**8073905**	**DYEF-G8-M8-Y1**
	16		**8073906**	**DYEF-G8-M10-Y1**
	20		**8073907**	**DYEF-G8-M12-Y1**
	25		**8073908**	**DYEF-G8-M14-Y1**
For DGST-...-Y12				Technical data ➔ Internet: dyss
	6	• Shock absorber at both ends, self-adjusting, with end-position adjustment • Scope of delivery: 1 cushioning component and 1 threaded sleeve	**8073911**	**DYSS-G8-2-4-Y1F**
	8		**8073912**	**DYSS-G8-3-4-Y1F**
	10		**8073913**	**DYSS-G8-4-4-Y1F**
	12		**8073914**	**DYSS-G8-5-5-Y1F**
	16		**8073915**	**DYSS-G8-7-5-Y1F**
	20		**8073916**	**DYSS-G8-8-8-Y1F**
	25		**8073917**	**DYSS-G8-10-10-Y1F**

Ordering data					
	For size	Description	Part no.	Type code	PU[1]
Centring sleeve/centring pin ZBH, ZBS				Technical data ➔ Internet: zbh	
	6, 8, 10, 12, 16	For centring loads and attachments on the slide	**189652**	**ZBH-5**	10
	20, 25		**189653**	**ZBH-12**	
	6	For centring loads and attachments on the yoke plate	**525273**	**ZBS-2**	
	8, 10		**189652**	**ZBH-5**	
	12, 16		**186717**	**ZBH-7**	
	20, 25		**189653**	**ZBH-12**	
	6, 8	For centring the mini slide during mounting	**189652**	**ZBH-5**	
	10, 12		**186717**	**ZBH-7**	
	16		**150927**	**ZBH-9**	
	20, 25		**189653**	**ZBH-12**	
Connector sleeve ZBV				Technical data ➔ Internet: zbv	
	20	For centring loads and attachments on the yoke plate	**548806**	**ZBV-12-9**	10
One-way flow control valve GRLA				Technical data ➔ Internet: grla	
	6	For speed regulation	**175041**	**GRLA-M3-QS-3**	1
	8, 10, 12, 16		**193139**	**GRLA-M5-QS-6-D**	
	20, 25		**193145**	**GRLA-1/8-QS-8-D**	
Push-in fitting QSM				Technical data ➔ Internet: qs	
	6	For connecting tubing with standard outside diameter	**153303**	**QSM-M3-4**	10
	8, 10, 12, 16		**153304**	**QSM-M5-4**	
	20, 25		**153307**	**QSM-1/8-6**	

1) Packaging unit

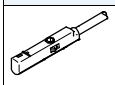
Mini slides DGST

Accessories

FESTO

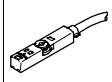
Proximity sensors for size 6 … 12

Ordering data – Proximity sensors for C-slot, magnetoresistive — Technical data ➔ Internet: smt

	Type of mounting	Switching output	Electrical connection, connection outlet direction	Cable length [m]	Part no.	Type code
N/O contact						
	Insertable in the slot from above	PNP	Cable, 3-wire, lengthwise	2.5	**551373**	**SMT-10M-PS-24V-E-2,5-L-OE**
			Plug M8x1, 3-pin, lengthwise	0.3	**551375**	**SMT-10M-PS-24V-E-0,3-L-M8D**
			Plug M8x1, 3-pin, crosswise	0.3	**551376**	**SMT-10M-PS-24V-E-0,3-Q-M8D**

Proximity sensor for size 16 … 25

Ordering data – Proximity sensors for T-slot, magnetoresistive — Technical data ➔ Internet: smt

	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part no.	Type code
N/O contact						
	Inserted in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-wire	2.5	**574335**	**SMT-8M-A-PS-24V-E-2,5-OE**
			Plug connector M8x1, 3-pin	0.3	**574334**	**SMT-8M-A-PS-24V-E-0,3-M8D**
		NPN	Cable, 3-wire	2.5	**574338**	**SMT-8M-A-NS-24V-E-2,5-OE**
			Plug connector M8x1, 3-pin	0.3	**574339**	**SMT-8M-A-NS-24V-E-0,3-M8D**

Ordering data – Connecting cables — Technical data ➔ Internet: nebu

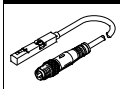
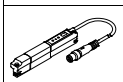
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Type code
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	**541333**	**NEBU-M8G3-K-2.5-LE3**
			5	**541334**	**NEBU-M8G3-K-5-LE3**
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	**541338**	**NEBU-M8W3-K-2.5-LE3**
			5	**541341**	**NEBU-M8W3-K-5-LE3**

Position transmitter

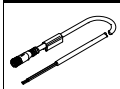
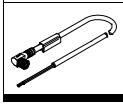
The position transmitter continuously senses the position of the piston.

It has an analogue output with an output signal in proportion to the piston position.

Ordering data – Position transmitter for T-slot — Technical data ➔ Internet: position transmitter

	For ∅	Position measuring range	Analogue output [V]	Analogue output [mA]	Type of mounting	Electrical connection	Cable length [m]	Part no.	Type code
	16 … 25	0 … 40	0 … 10	–	Insertable in the slot from above	Plug M8x1, 4-pin, lengthwise	0.3	**553744**	**SMAT-8M-U-E-0,3-M8D**
	16 … 25	0 … 50	–	4 … 20	Insertable in the slot from above	Plug M8x1, 4-pin, lengthwise	0.3	**1531265**	**SDAT-MHS-M50-1L-SA-E-0.3-M8**
		0 … 80						**1531266**	**SDAT-MHS-M80-1L-SA-E-0.3-M8**
		0 … 100						**1531267**	**SDAT-MHS-M100-1L-SA-E-0.3-M8**
		0 … 125						**1531268**	**SDAT-MHS-M125-1L-SA-E-0.3-M8**
		0 … 160						**1531269**	**SDAT-MHS-M160-1L-SA-E-0.3-M8**

Ordering data – Connecting cables — Technical data ➔ Internet: nebu

	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Type code
	Straight socket, M8x1, 4-pin	Cable, open end, 4-wire	2.5	**541342**	**NEBU-M8G4-K-2.5-LE4**
			5	**541343**	**NEBU-M8G4-K-5-LE4**
	Angled socket, M8x1, 4-pin	Cable, open end, 4-wire	2.5	**541344**	**NEBU-M8W4-K-2.5-LE4**
			5	**541345**	**NEBU-M8W4-K-5-LE4**