

Mini slides SLTE, electric



Mini slides SLTE, electric

Key features

FESTO

Range of applications

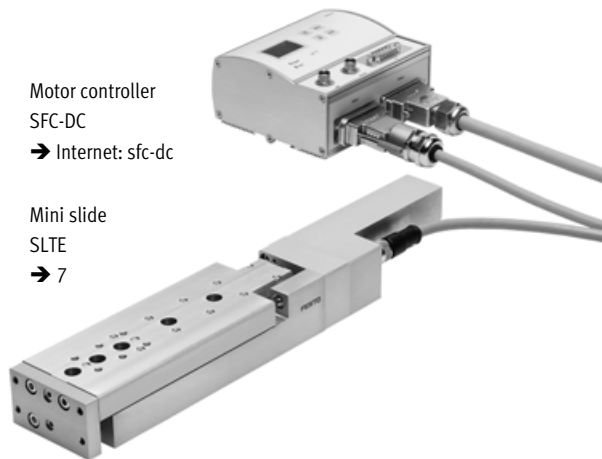
The electric mini slide SLTE is ideal for use in automation applications where controlled end-position cushioning (gentle stopping), constant travel speed and positioning capability are important factors.

The SLTE has the same interfaces on the yoke, slide and underneath the housing as the pneumatic SLT. It is also fully compatible with the modular handling and assembly system and SLT adapter kits.

Special features

- Precise and rigid guide
- Freely positionable
- Fast positioning times
- Through-holes from above and below
- Sensors can be integrated
- Gentle starting and stopping
- Working loads up to 4 kg
- Constant travel speeds of 2 ... 200 mm/s

Everything from a single source

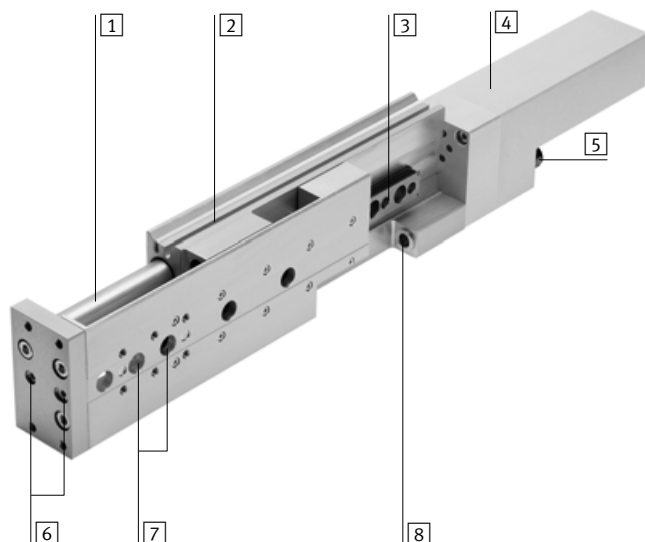


The mini slide SLTE and motor controller SFC form one unit.

- Thanks to the protection class IP54, the SFC can be mounted close to the SLTE, either:
 - with centre supports
 - on an H-rail
 - Only one cable required between SLTE and SFC
 - Motor controller SFC available with or without control panel
 - Easy control with
 - I/O interface
 - Profibus
 - CANopen
 - DeviceNet
- Parameterisation possible via
- Control panel:
 - Suitable for simple position sequences
 - Configuration package FCT (Festo configuration tool):
 - Parameterisation via RS 232 interface
 - Windows-based PC user interface (Festo configuration tool)



The technology in detail



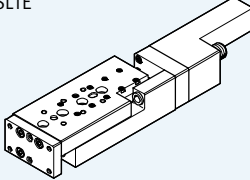
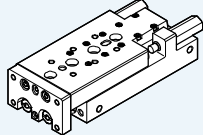
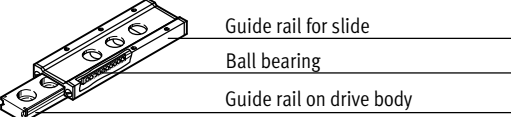
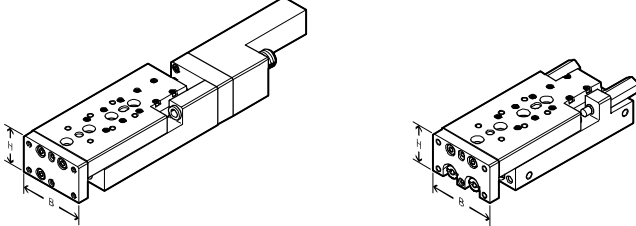
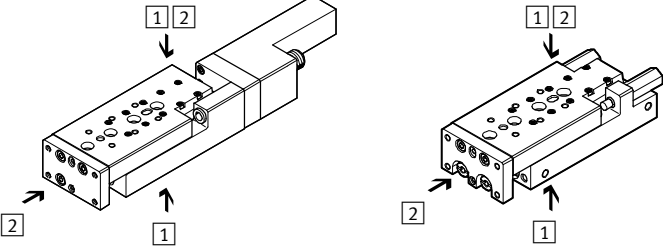
- 1 Drive rod
- 2 Slot for reference switch
- 3 Roller bearing guide
- 4 Drive assembly consisting of DC motor with displacement encoder
- 5 Electrical connection
- 6 Threaded holes and through-holes with centring hole for attaching the working load
- 7 Threaded holes and through-holes with centring hole for attaching the SLTE
- 8 Fixed stop with integrated rubber buffer

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Key features

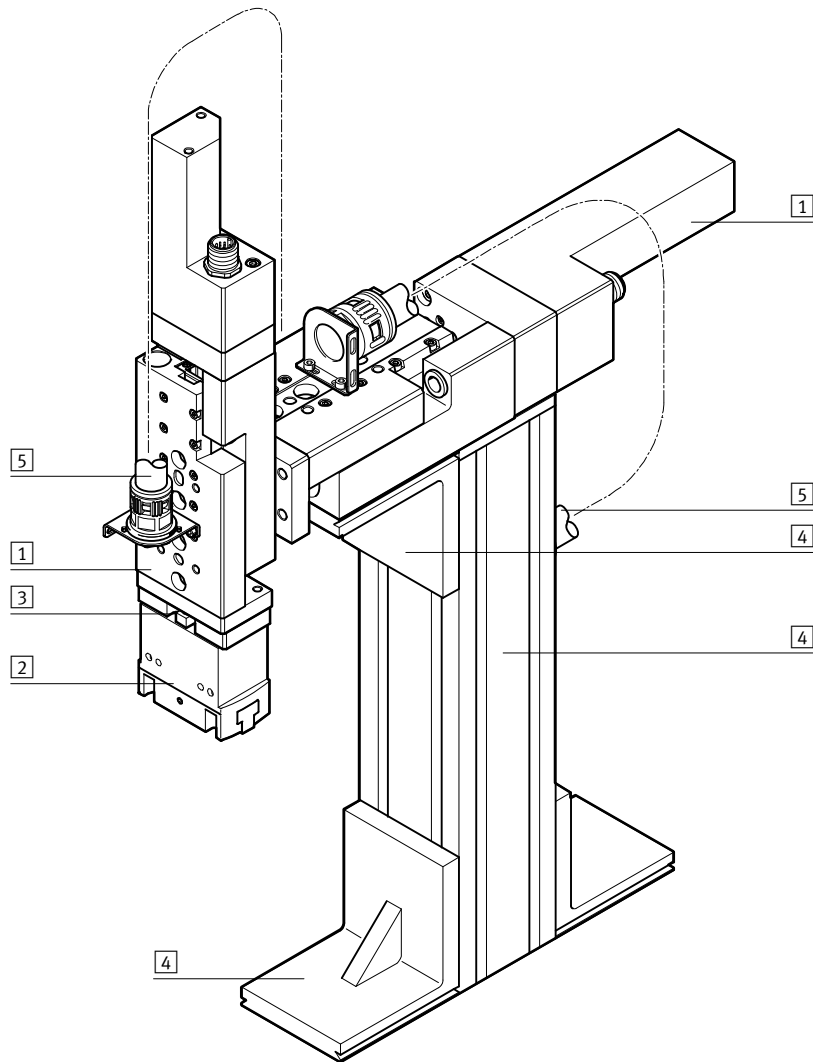
Comparison between electric mini slide SLTE and pneumatic mini slide SLT

| | <p>Electrical: SLTE</p>  | <p>Pneumatic: SLT</p>  | | | | | | | | | | | | |
|--|--|--|------------|------------|-----------|----|---|-------|-----------|----|---|-------|--|--|
| <p>Advantages</p> | | | | | | | | | | | | | | |
| | <ul style="list-style-type: none"> • Gentle starting and stopping • Constant and precise speed (2 ... 200 mm/s) • Flexible positioning without mechanical devices • Programmable drive profile | <ul style="list-style-type: none"> • High feed force • High speed • Fast positioning time • Compact length | | | | | | | | | | | | |
| <p>Guide</p> | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Preloaded, backlash-free, precise and rigid ball bearing cage guide • High torque and load absorption |  <p>Guide rail for slide</p> <p>Ball bearing</p> <p>Guide rail on drive body</p> | | | | | | | | | | | | | |
| <p>Dimensions</p> | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Identical width and height dimensions <table border="1"> <thead> <tr> <th>Type</th> <th>Width (W)</th> <th>x</th> <th>Height (H)</th> </tr> </thead> <tbody> <tr> <td>SLT(E)-10</td> <td>50</td> <td>x</td> <td>30 mm</td> </tr> <tr> <td>SLT(E)-16</td> <td>66</td> <td>x</td> <td>40 mm</td> </tr> </tbody> </table> | Type | Width (W) | x | Height (H) | SLT(E)-10 | 50 | x | 30 mm | SLT(E)-16 | 66 | x | 40 mm |  | |
| Type | Width (W) | x | Height (H) | | | | | | | | | | | |
| SLT(E)-10 | 50 | x | 30 mm | | | | | | | | | | | |
| SLT(E)-16 | 66 | x | 40 mm | | | | | | | | | | | |
| <p>Interfaces</p> | | | | | | | | | | | | | | |
| <ul style="list-style-type: none"> • Identical mounting and attachment options <p>1 Attachment surfaces: Direct mounting using threaded holes and through-holes</p> <p>2 Mounting surfaces: Direct mounting of loads and devices (e.g. SLT: semi-rotary drives and grippers) via threaded holes in the slide and the yoke plate</p> |  | | | | | | | | | | | | | |
| <p>Technical data</p> | | | | | | | | | | | | | | |
| <p>Piston Ø</p> | <p>[mm] 10, 16</p> | <p>6 ... 25</p> | | | | | | | | | | | | |
| <p>Stroke</p> | <p>[mm] 50 ... 150</p> | <p>10 ... 200</p> | | | | | | | | | | | | |
| <p>Max. speed</p> | <p>[m/s] 0.2</p> | <p>0.8</p> | | | | | | | | | | | | |
| <p>Repetition accuracy at end positions</p> | <p>[mm] ±0.1</p> | <p>±0.02</p> | | | | | | | | | | | | |
| <p>Intermediate positions</p> | <p>Any</p> | <p>None</p> | | | | | | | | | | | | |

Mini slides SLTE, electric

Key features

System product for handling and assembly technology



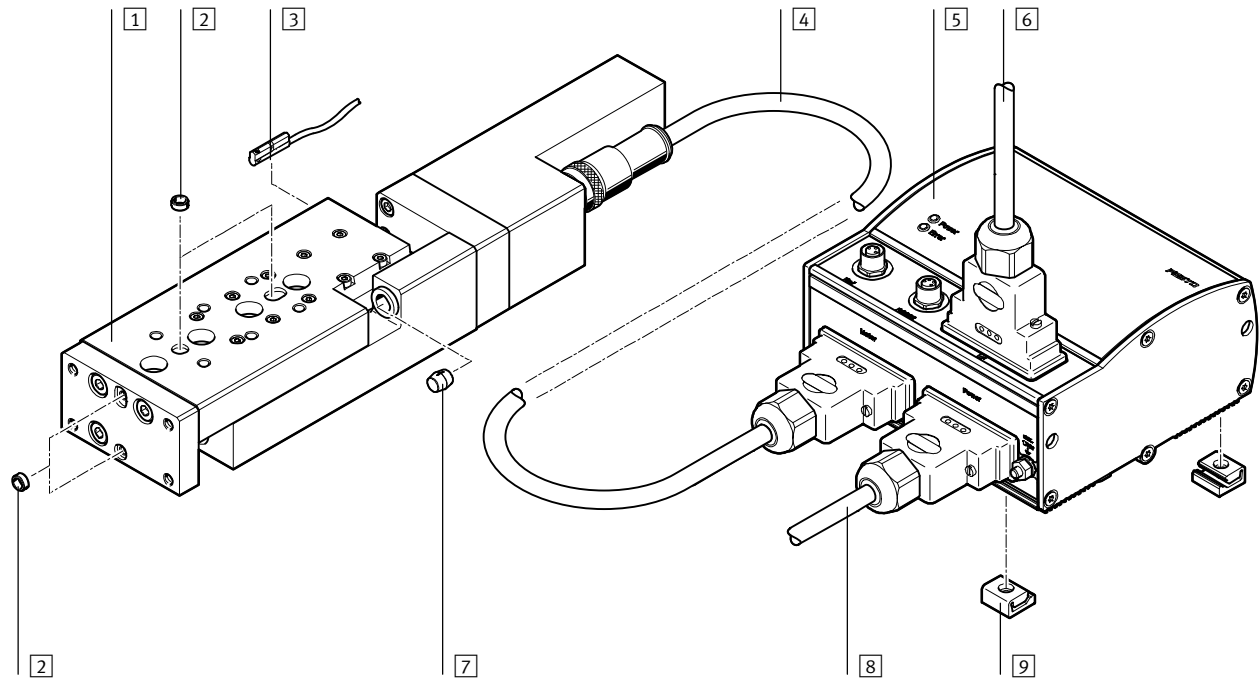
| System elements and accessories | | |
|---------------------------------|---------------------------|--|
| | Description | → Page/Internet |
| 1 | Axes | Wide range of combinations possible within handling and assembly technology axes |
| 2 | Grippers | Wide range of variations possible within handling and assembly technology gripper |
| 3 | Adapters | For drive/drive and drive/gripper combinations adapter kit |
| 4 | Basic mounting components | Profiles and profile connectors as well as profile/drive connectors basic component |
| 5 | Installation components | For manageable and secure guidance of electrical cables and tubing installation component |
| - | Drive units | Wide range of combinations possible within handling and assembly technology drive |

Mini slides SLTE, electric

Peripherals overview

FESTO

Size 10/16



| Accessories | | Description | → Page/Internet |
|-------------|--------------------------------|--|-----------------|
| 1 | Mini slide SLTE | Electromechanical linear axis with lead screw spindle | 7 |
| 2 | Centring pin/sleeve ZBS/ZBH | – For centring loads and attachment components – Centring sleeves included in scope of delivery | 15 |
| 3 | Proximity sensor SME/SMT-10 | For referencing mini slide or for sensing slide position | 15 |
| 4 | Motor cable KMTR | Connecting cable between motor and motor controller | kmtr |
| 5 | Motor controller SFC | For parameterising and positioning mini slide | sfc-dc |
| 6 | Control cable KES | For I/O connection to any controller | kes |
| 6 | Plug FBS, FBA | For fieldbus interface | plug |
| 7 | Buffer | Buffer included in scope of delivery | – |
| 8 | Supply cable KPWR | Power supply cable; load and logic power supplies are isolated | kpwr |
| 9 | Centre supports MUP | – For mounting motor controller – Motor controller can also be mounted on H-rail | mup |

Mini slides SLTE, electric

Type codes

SLTE – 16 – 80 – LS – G04

Type

| | |
|------|------------|
| SLTE | Mini slide |
|------|------------|

Size

Stroke [mm]

Drive spindle/pitch

| | |
|----|------------|
| LS | Lead screw |
|----|------------|

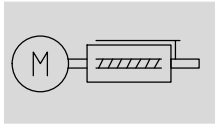
Gearing type

| | |
|-----|---------------------------|
| G04 | Gear unit ratio $i = 4,4$ |
|-----|---------------------------|

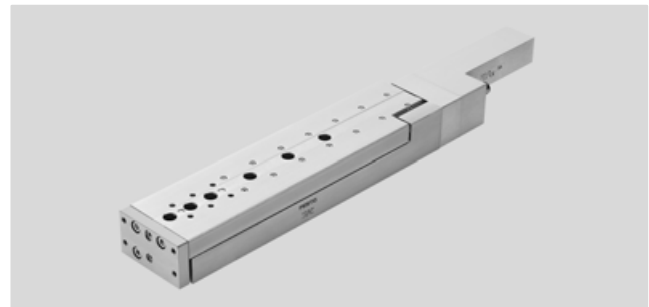
Mini slides SLTE, electric

Technical data

Function



- - Size
10 and 16
- - Stroke length
50 ... 150 mm



| General technical data | | |
|---|---|------------------|
| Size | 10 | 16 |
| Constructional design | Electromechanical linear axis with lead screw | |
| Guide | With ball bearings | |
| Type of mounting | Via through-holes | |
| | Via female thread | |
| | Via female thread and centring sleeve | |
| Stroke [mm] | 50, 80 | 50, 80, 100, 150 |
| Stroke reserve with rubber buffer at both ends [mm] | 0.5 | 0.6 |
| position with rubber buffer at one end [mm] | 1.2 | 1.25 |
| Assembly position | Any | |
| Lead screw pitch [mm] | 5 | 7.5 |
| Min. travel speed [mm/s] | 2 | |
| Max. acceleration [m/s ²] | 2.5 | |
| Repetition accuracy [mm] | ±0.1 | |
| Reversing backlash [mm] | < 0.1 | |

| Electrical data for motor | | |
|----------------------------------|---------------------------|----------------------------|
| Size | 10 | 16 |
| System resolution of encoder | 512 (pulses per rotation) | 1000 (pulses per rotation) |
| Nominal operating voltage [V DC] | 24 | |
| Output [W] | 4.5 | 18 |

| Operating and environmental conditions | | |
|--|-------------------------------------|------|
| Size | 10 | 16 |
| Ambient temperature [°C] | 0 ... +40 | |
| Protection class | IP40 | |
| Fast transients | To EN61000-4-4 | |
| Max. noise level ¹⁾ [dB A] | < 50 | < 55 |
| CE symbol (declaration of conformity) | In accordance with EU EMC directive | |
| Certification | C-Tick | |

1) At maximum permissible speed

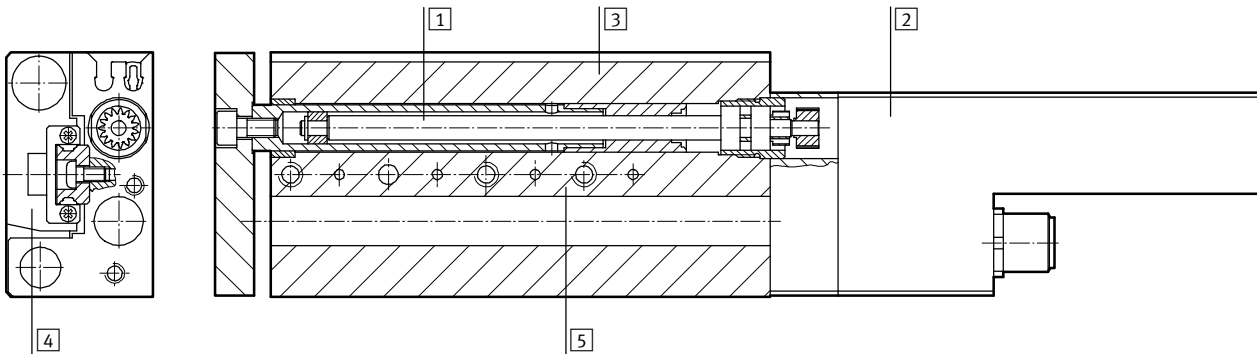
| Weight [g] | | | | | | | |
|----------------|-----|-----|--|------|------|------|------|
| Size | 10 | | | 16 | | | |
| | 50 | 80 | | 50 | 80 | 100 | 150 |
| Product weight | 574 | 737 | | 1185 | 1465 | 1714 | 2196 |
| Moving load | 163 | 235 | | 296 | 415 | 519 | 729 |

Mini slides SLTE, electric

Technical data

Materials

Sectional view



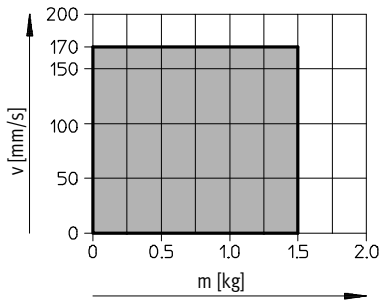
Mini slide

| | | |
|---|---------------|--------------------------------------|
| 1 | Lead screw | High-alloy steel |
| 2 | Motor housing | Wrought aluminium alloy, anodised |
| 3 | Housing | Wrought aluminium alloy, anodised |
| 4 | Slide | Wrought aluminium alloy, anodised |
| 5 | Guide | Tempered steel |
| - | Seals | Thermoplastic rubber, nitrile rubber |

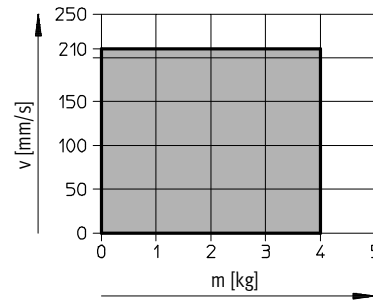
Travel speed v as a function of applied load m

Horizontal mounting position

SLTE-10

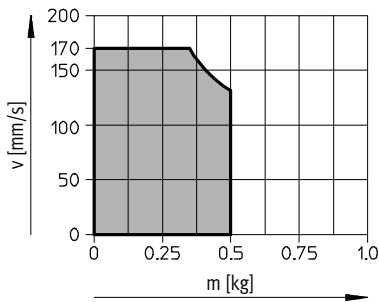


SLTE-16

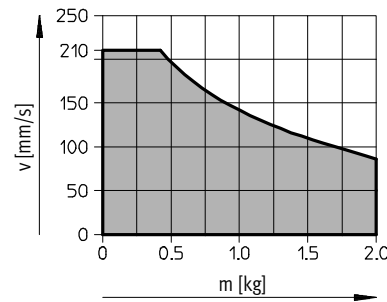


Vertical mounting position

SLTE-10



SLTE-16



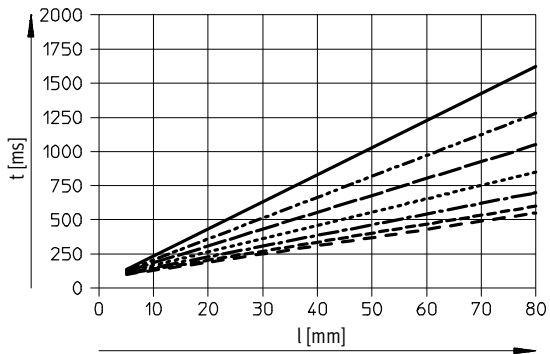
■ Permissible operating range

Mini slides SLTE, electric

Technical data

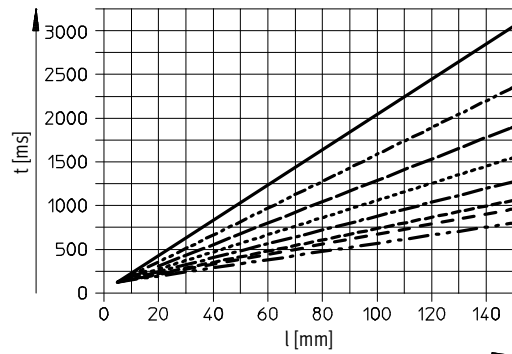
Positioning time t as a function of stroke l

SLTE-10



- $v = 50$ mm/s
- - - $v = 65$ mm/s
- · - $v = 80$ mm/s
- · · $v = 100$ mm/s
- - - $v = 125$ mm/s
- · - $v = 150$ mm/s
- - - $v = 170$ mm/s

SLTE-16

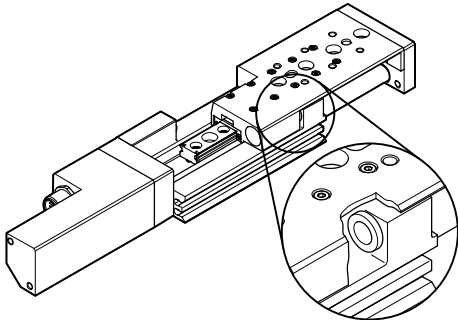


- $v = 50$ mm/s
- - - $v = 65$ mm/s
- · - $v = 80$ mm/s
- · · $v = 100$ mm/s
- - - $v = 125$ mm/s
- · - $v = 150$ mm/s
- - - $v = 170$ mm/s
- · - $v = 210$ mm/s

Reference travel

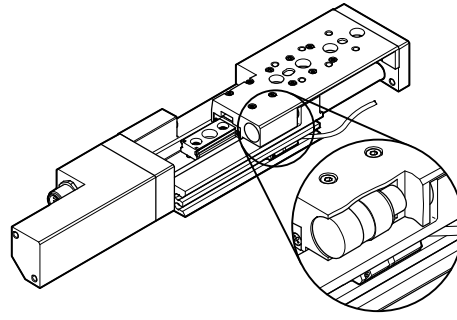
to fixed stop

- Positive fixed stop
 - To front stop bush (extended)
- Negative fixed stop
 - To rear stop bush (retracted)



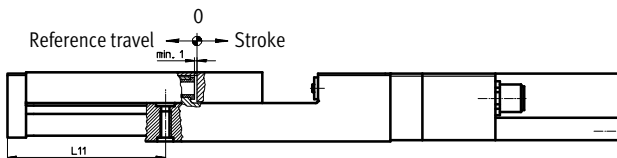
to proximity sensor

- Position freely selectable

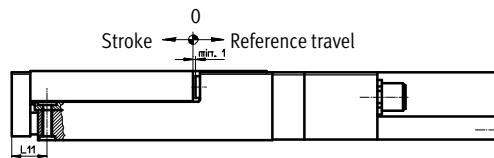


The following applies for reference travel to a fixed stop:

Positive fixed stop



Negative fixed stop



| Size | Stroke | L11 | |
|------|--------|-----------------------|----------------------|
| | | Positive fixed stop | Negative fixed stop |
| 10 | 50 | 67.4 ^{+1.1} | 15.6 ^{-1.1} |
| | 80 | 97.0 ^{+1.1} | 15.2 ^{-1.1} |
| 16 | 50 | 74.9 ^{+1.1} | 23.1 ^{-1.1} |
| | 80 | 104.1 ^{+1.1} | 22.3 ^{-1.1} |
| | 100 | 124.6 ^{+1.1} | 22.8 ^{-1.1} |
| | 150 | 173.3 ^{+1.1} | 21.5 ^{-1.1} |

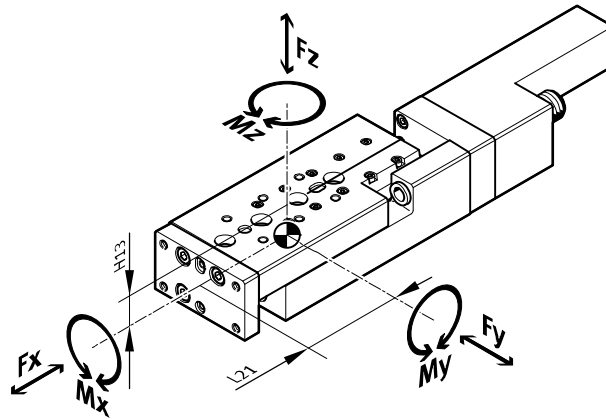
Mini slides SLTE, electric

Technical data



Dynamic characteristic load values

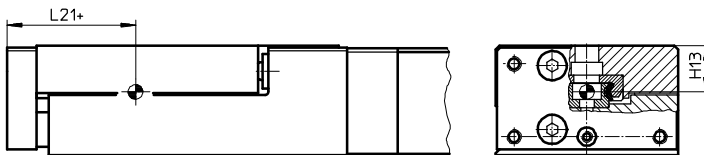
Torques are indicated with reference to the centre of the guide.
They must not be exceeded in the dynamic range. Special attention must be paid to the cushioning phase.



If the drive is subjected to more than two of the indicated forces and torques simultaneously, 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



+ plus stroke length

| Permissible forces and torques | | | | | | Geometric characteristics | |
|--------------------------------|--------|--------------------------|--------------------------|---|---------------------------|---------------------------|-------------|
| Size | Stroke | Fy _{max} [N] | Fz _{max} [N] | Mx _{max} , My _{max} [Nm] | Mz _{max} [Nm] | H13 [mm] | L21 [mm] |
| 10 | | | | | | | |
| | 50 | 390 | 390 | 3.1 | 1.4 | 13 | 33.5 |
| | 80 | 410 | 410 | 4.3 | 1.5 | | 41 |
| 16 | | | | | | | |
| | 50 | 510 | 510 | 4.6 | 2.8 | 16 | 35 |
| | 80 | 520 | 520 | 6.0 | 2.8 | | 41.5 |
| | 100 | 600 | 600 | 9.1 | 3.2 | | 51.5 |
| | 150 | 660 | 960 | 12.6 | 3.5 | | 66.5 |

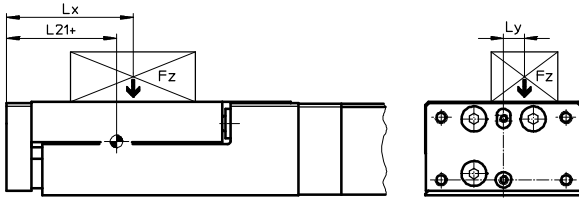
- - Note
Sizing software
PositioningDrives
→ www.festo.com

Mini slides SLTE, electric

Technical data

Calculation example

Given



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

To be found

F_y, F_z, M_x, M_y, M_z
 and verification of function with
 combined load

Solution:

$L_{21} = 41$ mm from table

$F_y = 0$ N

$F_z = m \times g$
 $= 0.8 \text{ kg} \times 9.81 \text{ m/s}^2 = 7.848 \text{ N}$

$M_x = m \times g \times L_y$
 $= 0.8 \text{ kg} \times 9.81 \text{ m/s}^2 \times 30 \text{ mm} = 0.236 \text{ Nm}$

$M_y = m \times g \times [(L_{21} + \text{stroke}) - L_x]$
 $= 0.8 \text{ kg} \times 9.81 \text{ m/s}^2 [(41 \text{ mm} + 80 \text{ mm}) - 50 \text{ mm}] = 0.557 \text{ Nm}$

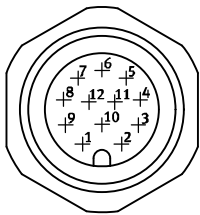
$M_z = 0$ Nm

Combined load:

$$\frac{|F_y|}{F_{y\max.}} + \frac{|F_z|}{F_{z\max.}} + \frac{|M_x|}{M_{x\max.}} + \frac{|M_y|}{M_{y\max.}} + \frac{|M_z|}{M_{z\max.}}$$

$$= 0 + \frac{7.848\text{N}}{410\text{N}} + \frac{0.2366\text{Nm}}{4.3\text{Nm}} + \frac{0.557\text{Nm}}{1.5\text{Nm}} + 0 = 0.445 \leq 1$$

Pin allocation of connection plug



| Plug M12 | | |
|----------|------------|-----------------------|
| Pin | Connection | Function |
| 1 | Motor + | Motor conductor |
| 2 | Motor - | Motor conductor |
| 3 | A | Encoder signal RS 485 |
| 4 | A/ | Encoder signal RS 485 |
| 5 | B | Encoder signal RS 485 |
| 6 | B/ | Encoder signal RS 485 |
| 7 | I | Encoder signal RS 485 |
| 8 | I/ | Encoder signal RS 485 |
| 9 | +5 V DC | Signal supply |
| 10 | 0 V | Signal ground |
| 11 | - | - |
| 12 | - | - |

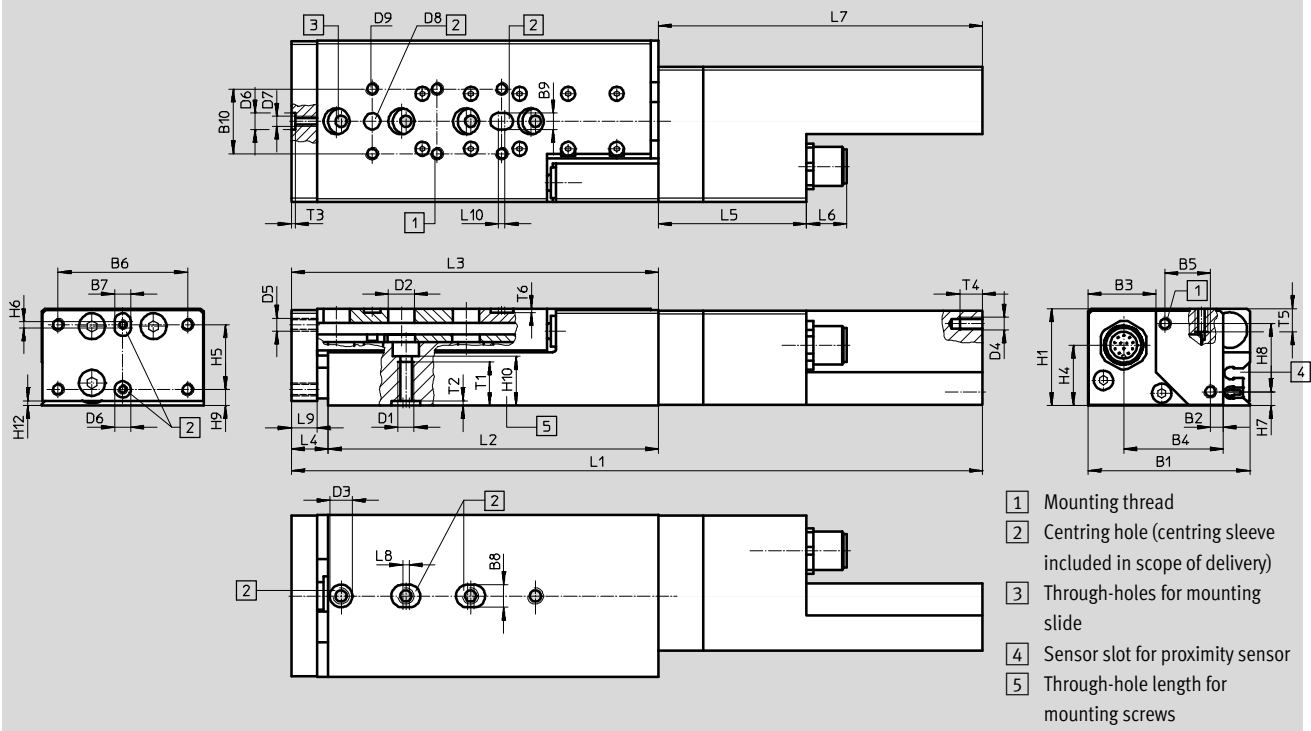
Mini slides SLTE, electric

Technical data

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Dimensions

Download CAD data → www.festo.com



| Size | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B8 | B9 | B10 | D1 | D2 | D3 | D4 |
|------|----|------|------|-----|----|----|----|----|----|-----|----|----|----|----|
| | | ±0.3 | ±0.3 | | | | H7 | H7 | H7 | | | ∅ | ∅ | |
| 10 | 50 | 30.8 | 20.8 | 4 | 14 | 40 | 5 | 5 | 5 | 20 | M5 | 8 | 7 | M4 |
| 16 | 66 | 45.7 | 24.3 | 4.2 | 25 | 55 | 7 | 9 | 5 | 20 | M6 | 10 | 9 | M4 |

| Size | D5 | D6 | D7 | D8 | D9 | H1 | H4 | H5 | H6 | H7 | H8 | H9 | H10 | H12 |
|------|----|----|----|----|----|----|------|----|----|-----|----|----|-----|-----|
| | | ∅ | | ∅ | | | | | | | | | | |
| | | H7 | | H7 | | | | | | | | | | |
| 10 | M4 | 5 | M3 | 5 | M4 | 30 | 18.4 | 20 | 2 | 4 | 21 | 5 | 15 | 1.5 |
| 16 | M5 | 7 | M4 | 5 | M5 | 40 | 25.8 | 20 | 2 | 4.5 | 30 | 13 | 20 | 1.5 |

| Size | Stroke [mm] | L1 ±1.5 | | L2 | L3 ±1 | | L4 ±1 | |
|------|----------------|------------|-------|-----|----------|-------|----------|------|
| | | 1) | 2) | | 1) | 2) | 1) | 2) |
| 10 | 50 | 212 | 213 | 102 | 112 | 113 | 10 | 11.1 |
| | 80 | 262 | 263 | 152 | 162 | 163 | 9.6 | 10.7 |
| 16 | 50 | 262.5 | 263.5 | 100 | 112.5 | 113.5 | 12.5 | 13.5 |
| | 80 | 307.5 | 308.5 | 146 | 158 | 159 | 11.7 | 12.7 |
| | 100 | 349 | 350 | 187 | 199.5 | 200.5 | 12.2 | 13.2 |
| | 150 | 430.5 | 431.5 | 270 | 281 | 282 | 11 | 12 |

| Size | L5 | L6 | L7 | L8 | L9 | L10 | T1 | T2 | T3 | T4 | T5 | T6 |
|------|------|------|-------|----|----|-----|----|-----|-----|----|----|-----|
| | ±0.5 | | | | | | | | | | | |
| 10 | 45.8 | 12.5 | 100 | 2 | 8 | 2 | 12 | 1.5 | 1.2 | 7 | 8 | 1.2 |
| 16 | 56.3 | 12.5 | 149.7 | 2 | 10 | 1 | 16 | 2.1 | 1.5 | 7 | 7 | 1.2 |

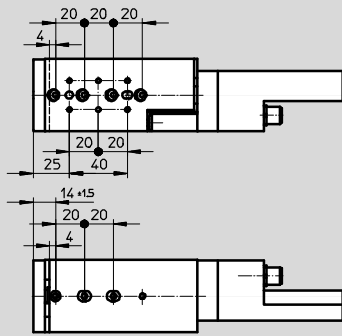
- 1) End position at fixed stop
 2) End position at rubber buffer

Mini slides SLTE, electric

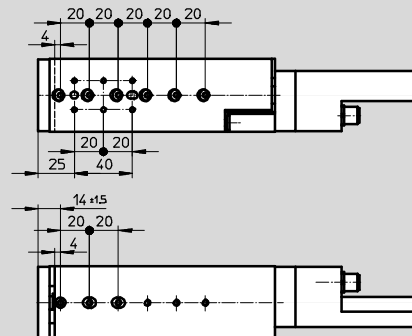
Technical data

Hole pattern for mounting thread and centring holes

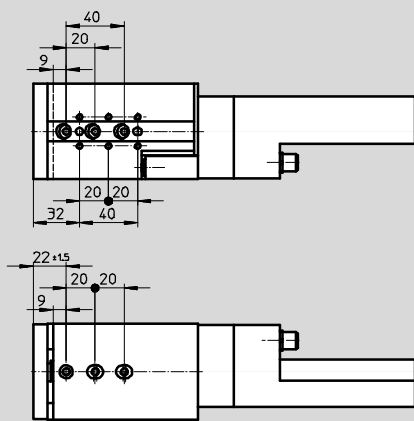
SLTE-10-50



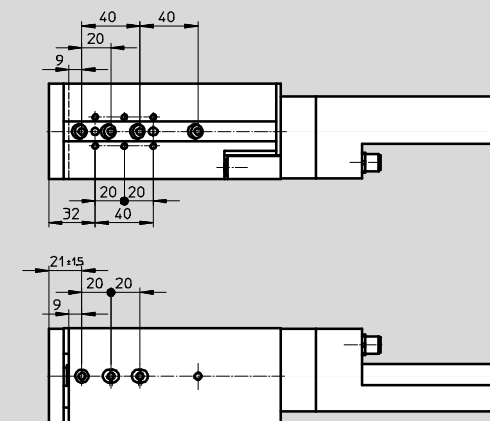
SLTE-10-80



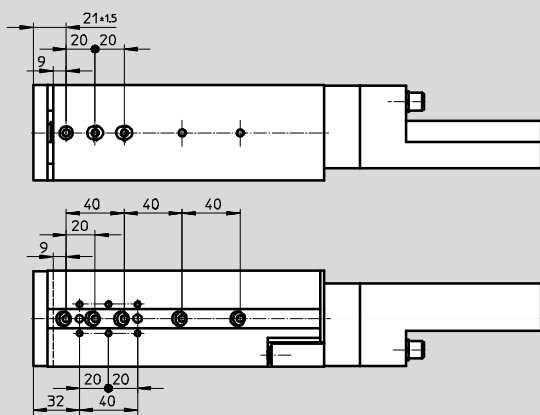
SLTE-16-50



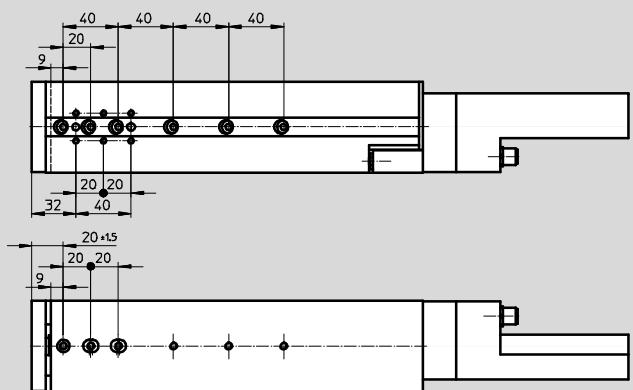
SLTE-16-80



SLTE-16-100

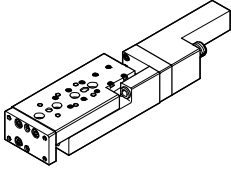
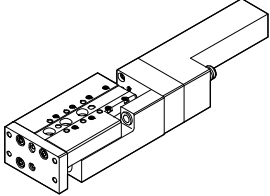


SLTE-16-150



Mini slides SLTE, electric


Technical data

| Ordering data | | | |
|---|-------------------|----------|--------------------|
| Size | Brief description | Part No. | Type |
| 10 | | | |
|  | Mini slide | 537447 | SLTE-10-50-LS-G04 |
| | | 537449 | SLTE-10-80-LS-G04 |
| 16 | | | |
|  | Mini slide | 537459 | SLTE-16-50-LS-G04 |
| | | 537461 | SLTE-16-80-LS-G04 |
| | | 537463 | SLTE-16-100-LS-G04 |
| | | 537465 | SLTE-16-150-LS-G04 |



Mini slides SLTE, electric



Accessories



FESTO

| Ordering data – Centring sleeves ¹⁾ | | | | Technical data → Internet: zbh | |
|---|----------|----------------|--------------|--------------------------------|--------------|
| Size | 10 | | 16 | | |
| | Part No. | Type | Part No. | Type | |
|  | Housing | 186 717 | ZBH-7 | 150 927 | ZBH-9 |
| | Slide | 189 652 | ZBH-5 | 189 652 | ZBH-5 |
| | Yoke | 189 652 | ZBH-5 | 186 717 | ZBH-7 |

1) Scope of delivery: 10 per pack

| Ordering data – Proximity sensors for C-slot, magneto-resistive | | | | | Technical data → Internet: smt | |
|---|-----------------------------------|---------------|---|------------------|--------------------------------|-----------------------------------|
| | Type of mounting | Switch output | Electrical connection, connection direction | Cable length [m] | Part No. | Type |
| N/O contact | | | | | | |
|  | Insertable in the slot from above | PNP | Cable, 3-wire, in-line | 2.5 | 551 373 | SMT-10M-PS-24V-E-2,5-L-OE |
| | | | Plug M8x1, 3-pin, in-line | 0.3 | 551 375 | SMT-10M-PS-24V-E-0,3-L-M8D |
| | | | Plug M8x1, 3-pin, lateral | 0.3 | 551 376 | SMT-10M-PS-24V-E-0,3-Q-M8D |
|  | Insertable in the slot lengthwise | PNP | Plug M8x1, 3-pin, in-line | 0.3 | 173 220 | SMT-10-PS-SL-LED-24 |
| | | | Cable, 3-wire, in-line | 2.5 | 173 218 | SMT-10-PS-KL-LED-24 |

| Ordering data – Proximity sensors for C-slot, magnetic reed | | | | | Technical data → Internet: sme | |
|---|-----------------------------------|---------------|---|------------------|--------------------------------|-----------------------------------|
| | Type of mounting | Switch output | Electrical connection, connection direction | Cable length [m] | Part No. | Type |
| N/O contact | | | | | | |
|  | Insertable in the slot from above | Contacting | Plug M8x1, 3-pin, in-line | 0.3 | 551 367 | SME-10M-DS-24V-E-0,3-L-M8D |
| | | | Cable, 3-wire, in-line | 2.5 | 551 365 | SME-10M-DS-24V-E-2,5-L-OE |
| | | | Cable, 2-wire, in-line | 2.5 | 551 369 | SME-10M-ZS-24V-E-2,5-L-OE |
|  | Insertable in the slot lengthwise | Contacting | Plug M8x1, 3-pin, in-line | 0.3 | 173 212 | SME-10-SL-LED-24 |
| | | | Cable, 3-wire, in-line | 2.5 | 173 210 | SME-10-KL-LED-24 |

| Ordering data – Connecting cables | | | | Technical data → Internet: nebu | |
|---|------------------------------|------------------------------|------------------|---------------------------------|----------------------------|
| | Electrical connection, left | Electrical connection, right | Cable length [m] | Part No. | Type |
|  | Straight socket, M8x1, 3-pin | Cable, open end, 3-wire | 2.5 | 541 333 | NEBU-M8G3-K-2.5-LE3 |
| | | | 5 | 541 334 | NEBU-M8G3-K-5-LE3 |
|  | Angled socket, M8x1, 3-pin | Cable, open end, 3-wire | 2.5 | 541 338 | NEBU-M8W3-K-2.5-LE3 |
| | | | 5 | 541 341 | NEBU-M8W3-K-5-LE3 |

Mini slides SLTE, electric

Accessories



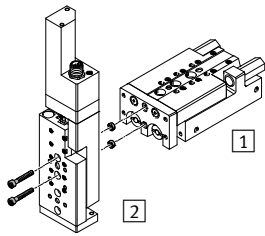
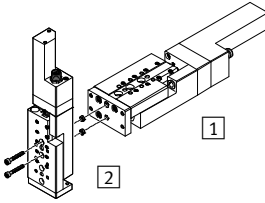
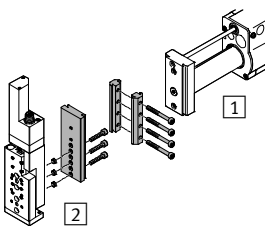
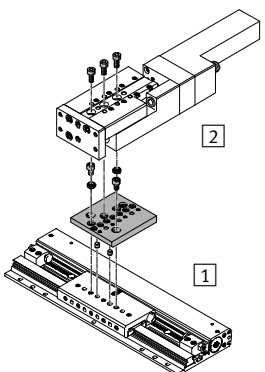
**Adapter kit
HAPS, HMSV**

Material:
Wrought aluminium alloy
Free of copper and PTFE
RoHS-compliant



Note

The kit includes the individual mounting interface as well as the necessary mounting material.

| Permissible drive/drive combinations with adapter kit | | | | | | | Download CAD data → www.festo.com | |
|---|------------|--------|-------------------|----------|-----------------------------|---------|--|------------------|
| Combination | 1 | 2 | Adapter kit | | | | Required quantity | PU ²⁾ |
| | Drive | Drive | CRC ¹⁾ | Part No. | Type | | | |
|  | SLT | SLTE | 2 | - | M4x25 DIN 912 ³⁾ | 2 | - | |
| | 16 | 10 | | 186717 | ZBH-7 ⁴⁾ | 2 | 10 | |
| | 20 | 16 | | 150927 | ZBH-9 ⁴⁾ | 2 | 10 | |
| SLTE/SLTE | SLTE | SLTE | 2 | - | M4x25 DIN 912 ³⁾ | 2 | - | |
|  | 16 | 10 | | 186717 | ZBH-7 ⁴⁾ | 2 | 10 | |
| | | | | | | | | |
|  | HMP | SLTE | 2 | 178330 | HMSV-35 | 1 | 1 | |
| | 16, 20 | 10 | | | | | | |
| | 16, 20, 25 | 16 | | | 178331 | HMSV-36 | 1 | 1 |
| SLG/SLTE | SLG | SLTE | HAPS | | | | | |
|  | 12 | 10 | 2 | 189533 | HAPS-11 | 1 | 1 | |
| | 18 | 10, 16 | | | 189534 | HAPS-12 | 1 | 1 |
| | | | | | | | | |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

2) Packaging unit quantity

3) The screws listed are not included in the scope of delivery of the drives


4) The centring sleeves are included in the scope of delivery of the drives

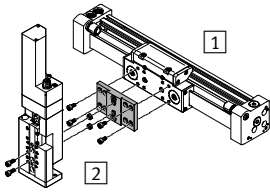
Mini slides SLTE, electric

Accessories

**Adapter kit
HMSV**

Material:
Wrought aluminium alloy
Free of copper and PTFE
RoHS-compliant

 Note
The kit includes the individual mounting interface as well as the necessary mounting material.

| Permissible drive/drive combinations with adapter kit | | | Download CAD data → www.festo.com | | | | |
|---|---------|---------|--|---------------|----------------|-------------------|------------------|
| Combination | 1 Drive | 2 Drive | Adapter kit | | | | |
| | Size | Size | CRC ¹⁾ | Part No. | Type | Required quantity | PU ²⁾ |
| DGC/SLTE | DGC | SLTE | HMSV | | | | |
|  | 18 | 10 | 2 | 189656 | HMSV-40 | 1 | 1 |
| | 18 | 16 | | 189657 | HMSV-41 | 1 | 1 |
| | 25 | 16 | | 189658 | HMSV-42 | 1 | 1 |
| | | | | | | | |

- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.
- 2) Packaging unit quantity

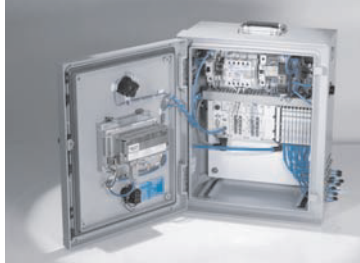
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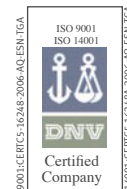
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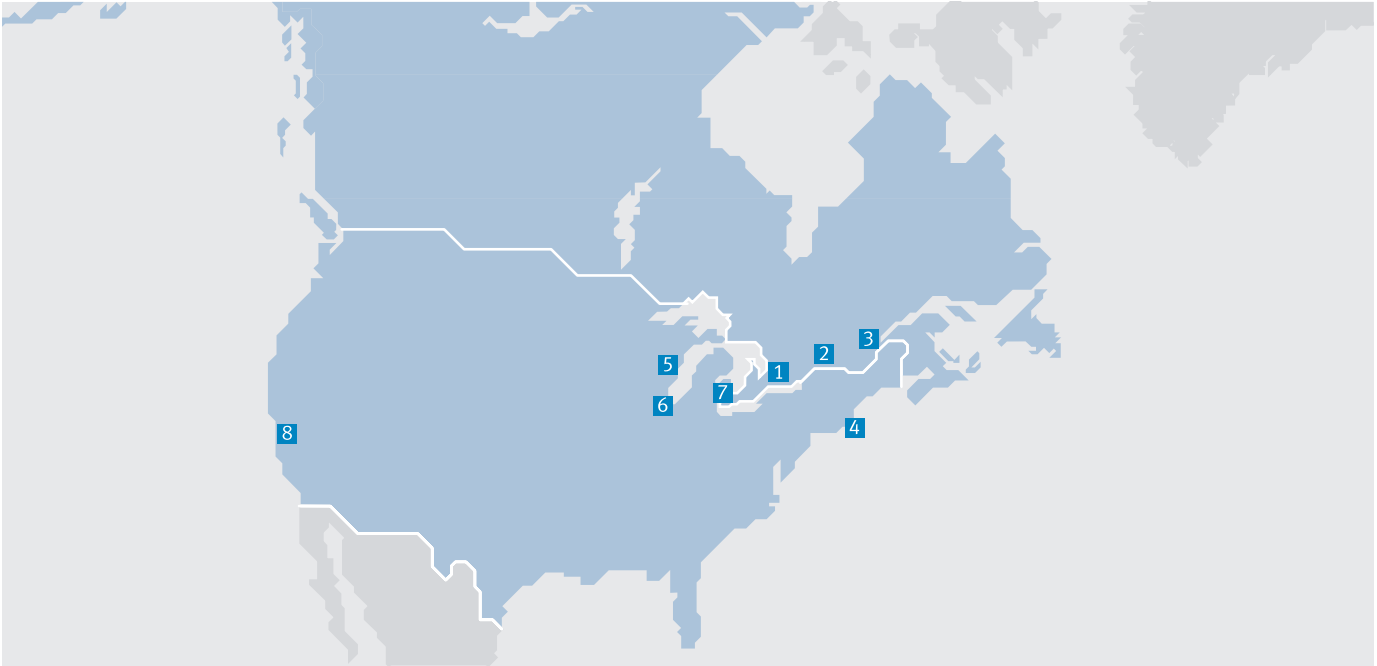


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