

# PORTAL

**PSK 160 comfort ALU 2.0**

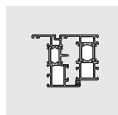
Parallel slide & tilt hardware  
for light metal elements  
with 21 mm chamber dimension

Window systems

Door systems

Comfort systems





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## 1 General information

### 1.1 Target group of this documentation

This documentation is intended for use by specialists only. All work described in this document is to be performed by experienced professionals with training and practice in the assembly, installation and maintenance of PORTAL hardware as the safe and professional assembly of the PORTAL hardware is not possible without the relevant expertise. Keep these installation instructions in a safe place.

### 1.2 Intended use

- The PSK 160 comfort ALU parallel slide & tilt hardware for use in windows or patio doors with aluminium profiles.
- Sash weight max. 160 kg.
- The PSK 160 comfort ALU is intended for use in permanent buildings.
- The PSK 160 comfort ALU allows the horizontal opening and closing of windows and patio doors from profiles for parallel slide & tilt elements.
- The parallel slide & tilt elements must be installed vertically, in no circumstances in a sloping position.

### 1.3 Incorrect use

- The steel fittings specified in these assembly instructions are electro-galvanised and then finished using a special technique.
- They must not be used:
  - in wet rooms
  - in environments where the air contains aggressive or corrosive components
  - in environments where the air contains salt
- Please contact your SIEGENIA sales consultant in such cases

### 1.4 Safety notes

- Maintenance must be carried out on the PSK 160 comfort ALU at least once a year.  
See PORTAL maintenance instructions
- Furthermore, for the PSK 160 comfort ALU, the specifications provided by the profile manufacturers or system owners must also be adhered to with regard to possible restrictions on sash dimensions, sash weights and locking distances.
- Where special manufacturing instructions or fabrication guidelines exist, these must be explicitly adhered to.
- The specifications given for torques must be adhered to.
- Your complete set of hardware should solely be composed of SIEGENIA hardware components. Otherwise damage could occur, for which we accept no liability.
- If special safety aspects must be observed (e.g. for installation in schools, nurseries, hotels, etc.) we recommend the installation of a lockable handle or the use of the PS 200 comfort.
- All hardware components must be properly assembled as per the description on pages "Assembly" PSK hardware components and "Adjustment".
- PSK 160 comfort ALU elements may only be surface treated before the hardware components are assembled. Treating these surfaces at a later stage can reduce the functional capacity of the hardware components. In such cases we are not obliged to honour any warranty.
- When block setting, please observe technical guideline no. 3 from the German Glazing Trade [Glaserhandwerk], "Blocking glazing units" [Klotzung von Verglasungseinheiten].
- Never use acid curing sealants as they may cause the hardware components to corrode.





- Never use acidic lubricants and cleaning agents in the vicinity of the guiding rail/the slider.
- Keep the running rail and all rebates free from dirt and debris, especially from deposits of cement and plaster. Avoid exposing the hardware directly to water and do not let cleaning agents come into contact with the hardware.

## 1.5 Help and support

You will find further information on adjustment or processing possibilities under the following QR code.



The QR code sticker can also be found on components of the PSK element. Especially on the inside of the bogie wheels cover caps.

## 1.6 Directives of the Trade Organisation for Locks and Fittings (Gütegemeinschaft Schlösser und Beschläge e. V.)

The directives of the Trade Organisation for Locks and Fittings provide comprehensive information on the correct operation and maintenance of hardware for windows and French doors. It is mandatory to adhere to these directives.

You can find the latest versions of the directives, in a range of languages here:  
<http://www.beschlagindustrie.de/ggsb/richtlinien.asp>



**VHBH – Hardware for windows and patio doors**  
 Guidelines/notes on the product and on liability

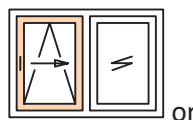
**VHBE – Hardware for windows and patio doors**  
 Guidelines and notes for end users

## 1.7 Dimensions

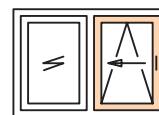
All dimensions are nominal values and include the general tolerances (formerly "dimensional variations"). All nominal values are given in mm.

## 1.8 Scheme overview

### Scheme A



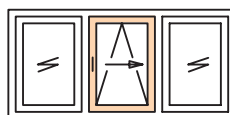
DIN left



DIN right

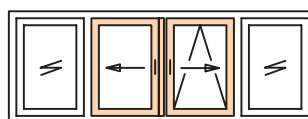
Scheme A with 1 sliding sash/1 fixed sash\*

### Scheme G



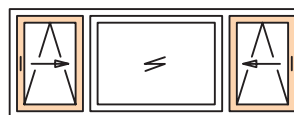
Scheme G with 1 sliding sash/2 fixed sashes\*

### Scheme C



Scheme C with 2 sliding sashes/2 fixed sashes\*

### Scheme K

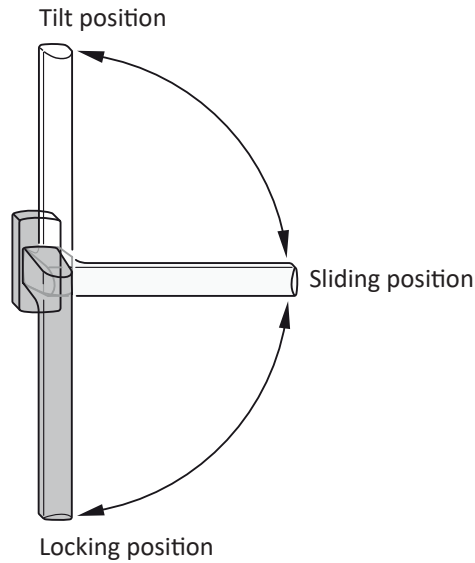


Scheme K with 2 sliding sashes/1 fixed sash\*

\* Turning sashes instead of the fixed sash are also possible. Turning sashes with rose inside only and removable handle (see handle catalogue).



## 1.9 Operating sequence



The sliding sashes may be operated only in the order specified below.

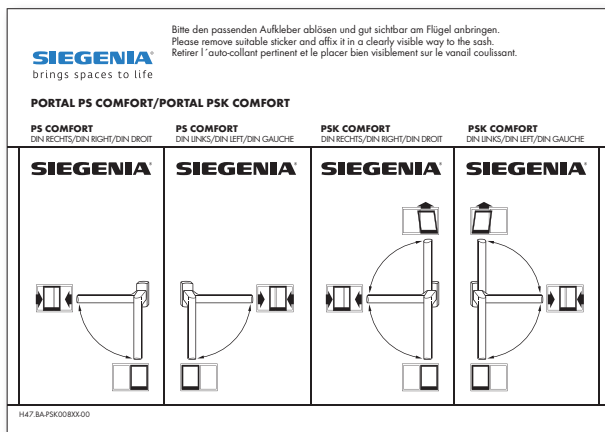
Opening: primary sash first **1**.  
then secondary sash **2**.

Closing: secondary sash first **2**.  
then primary sash **1**.

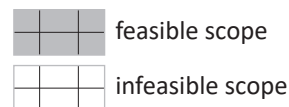
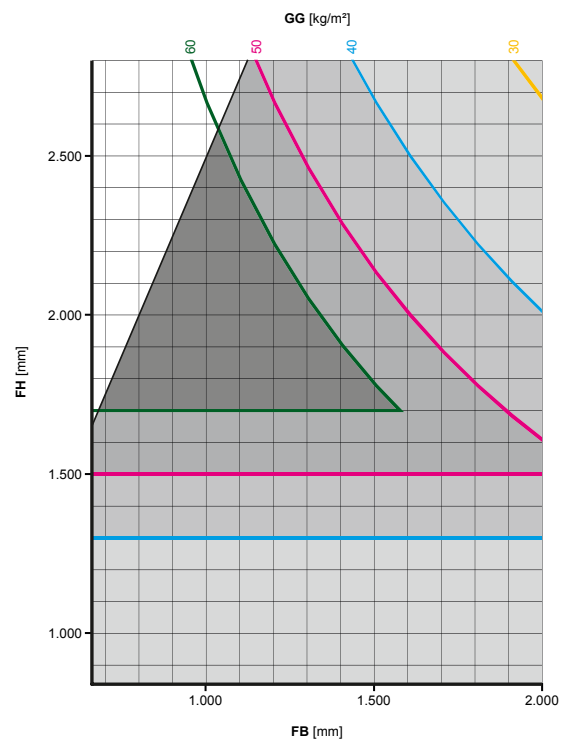
## 1.10 Operating sticker

Attach the operating sticker (slide direction DIN left or DIN right) in a visible position on the installed parallel slide & tilt sash.

The operating sticker is enclosed in the tilt stay carton



## 1.11 Application diagram



GG = total weight  
FH = Sash height  
FB = Sash width

### ATTENTION:

Primary and secondary sashes must be labelled accordingly to prevent faulty operation.



## 2 Processing specifications

### 2.1 Size ranges

Scheme version		A	C
Sash width (FB)	Sliding sash	670 - 2000	670 - 2000
Sash height (FH)	Sliding sash	840 - 2800	840 - 2800
Frame to sash clearance		118	
Flügelgewicht		max. 160 kg	

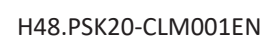
Ratio sash height (FH) / sash width (FB) < 2.5 : 1

- SIEGENIA-Construction drawings light metal profiles:
    - PSK 160 comfort ALU  
Scheme A  
Scheme C  
Scheme G  
Scheme K
  - The size ranges specified above must not be exceeded.
  - In addition, with regard to the SIEGENIA hardware PSK 160 COMFORT, the specifications of the profile manufacturers or system owners
- also apply, especially with regard to possible restrictions on sash dimensions, sash weight and locking distance.
- Where special manufacturing instructions or fabrication guidelines exist, these must be explicitly adhered to.
  - See the construction drawing for the respective profile system for further details.
  - Screw heads must not project into the functional area of components. This can lead to material damage and loss of function.

### 2.2 Abbreviations

The following abbreviations are used in these assembly instructions:

FB	Sash width	RAH	Frame height
FFB	Sash rebate width	RFB	Frame rebate width
FH	Sash height	S-ES	Steel-enhanced security
FFH	Sash rebate height	S-RS	Steel-roller increased security
G	Handle position	SW	Wrench size
H	Rear	V	Front
L	Bogie wheels	VSLs	Locking side
M	Centre	VSO	Locking side, top
MV	Central lock	VSU	Locking side, bottom
OKFF	Finished floor level	ZV	Central locking gear
PZ	Profile cylinder		





### 3.2 Hardware list hardware components

Item	Pieces Scheme		Material description		Material number						
	A	C									
130	1	2	Handle ALU SI-line PS/PSK comfort	H1	MHSS2010						
131			Handle ALU SI-line PS/PSK comfort ABS		MHSA2010						
132			Handle ALU Globe PS/PSK comfort	H2	MHGS2010						
133			Handle ALU Globe PS/PSK comfort ABS		MHGA2010						
			Add-ons for colour (Pos. 130, 131, 132, 133)	raw Silver RAL 9005 RAL 9010 RAL 9003 RAL 8019	-500010 -525010 -523010 -503010 -504010 -533010						
134	1	2	Handle Si-line PSK (□ 7 mm x 25, use cam Ø 10 only in combination with gear set ALU)	H3	.....						
135			Handle Si-line PSK ABS (□ 7 mm x 25, cuse cam Ø 10 only in combination with gear set ALU)		.....						
	1	2	Set Bogie wheels PSK 160 comfort ALU	right	PMKF5031-10001_						
			consisting of:	left	PMKF5032-10001_						
1	1	2	Bogie wheels PSK comfort V	Front							
2	1	2	Bogie wheels PSK comfort H	Rear							
3	2	4	Vertical supporting part PSK comfort								
4	1	2	Sticker PSK bogie wheels safeguard								
5	2	4	Slider PSK comfort								
6	1	2	PORTAL key								
7	1	2	Bogie wheels safeguard	Front							
8	1	2	Bogie wheels safeguard	Rear							
	1	2	Fastening set supporting part PSK comfort ALU consisting of:	Carton with 10 piece	PMZF0030-00002_						
9			2	4	Fixing plate						
10	4	8	Countersunk head screw ISO 7046-2 M4 x 12 A2								
11	2	4	Countersunk head screw ISO 7046-2 M4 x 16 A2								
depending on sash rebate width (FB)											
	1	2	Profile set PSK-comfort ALU consisting of:	Size	FB		Silver	RAL 9003	RAL 8022	F9	old gold
				87/200	670- 870	PMPF5100	-52501_	-50201_	-51201_	-5H401_	-5H001_
				107/240	871-1070	PMPF5110	-52501_	-50201_	-51201_	-5H401_	-5H001_
				130/286	1071-1300	PMPF5120	-52501_	-50201_	-51201_	-5H401_	-5H001_
				160/346	1301-1600	PMPF5130	-52501_	-50201_	-51201_	-5H401_	-5H001_
				200/426	1601-2000	PMPF5140	-52501_	-50201_	-51201_	-5H401_	-5H001_
12	1	2	Cover rail L								
13	1	2	Connecting rod L								
14	1	2	Guiding rail								
15	1	2	Cover rail F								
16	1	2	Running rail								
17	0-2	0-4	Supporting piece L								





Item	Pieces Scheme		Material description			Material number					
	A	C									

## for comfort Style version

	1	2	Bag cover cap set PSK comfort Style	consisting of:		PMAF5050	Silver -02501_	RAL 9003 -00201_	RAL 8022 -01201_	F9 -0H401_	old gold -0H001_
18	1	2	Cover cap L Style	right							
19	1	2	Cover cap L Style	left							
20	2	4	Cover cap F								
						Basic	Add-ons for colour				
						PMZJ2051	Si-Silver powder coated VE 1: -02501_	Si-Silver powder coated VE 10: -02502_			
							Si-Silver optic VE 1: -10001_	Si-Silver optic VE 10: -10002_			
							Black VE 1: -09901_	Black VE 10: -09902_			
						PMZJ2052	Si-Silver powder coated VE 1: -02501_	Si-Silver powder coated VE 10: -02502_			
							Si-Silver optic VE 1: -10001_	Si-Silver optic VE 10: -10002_			
							Black VE 1: -09901_	Black VE 10: -09902_			
21	1	2	Stop								
22	1	2	Stop sleeve								
23	1	2	Trigger								
24	1-2	2-4	Supporting piece L additional if required	Carton with 100 piece							PZLF5010-09906_

## depending on sash rebate width (FB)

25	1	2	 A connecting rod slider is prescribed for size 200	Size	FB	Right			Left		
				87	670- 870						
				107	871-1070						
				130	1071-1300						
				160	1301-1600						
200	1601-2000	PSKJ1061-10001_	PSKJ1062-10001_								
						PSKJ1071-10001_	PSKJ1072-10001_				
						PSKJ1081-10001_	PSKJ1082-10001_				
						PSKJ1091-10001_	PSKJ1092-10001_				
						PSKJ1101-10001_	PSKJ1102-10001_				
26	1	2	 Push connecting rod with clipped sliders into the guiding rail	Size	FB	PVSJ0010-10001_ PVSJ0020-10001_ PVSJ0030-10001_ PVSJ0040-10001_ PVSJ0050-10001_					
				87	670- 870						
				107	871-1070						
				130	1071-1300						
				160	1301-1600						
200	1601-2000										
	1	2	Bag cover rail K PSK 160 consisting of:	Size	FB	PMAF5150	Silver	RAL 9003	RAL 8022	F9	old gold
				87	670- 870						
				107	871-1070						
				130	1071-1300						
				160	1301-1600						
				200	1601-2000						
		PMAF5160	-52501_	-50201_	-51201_	-5H401_	-5H001_				
		PMAF5170	-52501_	-50201_	-51201_	-5H401_	-5H001_				
		PMAF5180	-52501_	-50201_	-51201_	-5H401_	-5H001_				
		PMAF5190	-52501_	-50201_	-51201_	-5H401_	-5H001_				
27	1	2	Cover rail K								
28	1	2	Cover cap K		right						
29	1	2	Cover cap K		left						
30	0-2	0-4	Supporting piece K	Only for Size 160 and 200							
31	0-4	0-8	Spacer K								
32	4-5	8-10	Spacer K additional if required			PDZE0020-09901					

## Fixing screws for bogie wheels, guiding rail, running rail and tilt stay

	1	2	PSK comfort ALU set light metal-screws			PZUJ0110-00001_
	18	36	FLOWDRILL Screw M5x20			
	51	102	FLOWDRILL Screw M4x20			
	5	10	Cheese head screw M5x18			


## Accessories

33	2	2	Distance piece			see profile data sheet
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Item	Pieces Scheme		Material description	Material number
	A	C		

comfort hardware components

34	1	2	Stop buffer F	 Only in combination with connecting rod slider	PRZJ0030-10001_
35	2	4	PSK COMFORT Slam-shut brake	A0004 A0006 A0022	PRZJ0060-10001_ PRZJ0010-10001_ PRZJ0010-10001_
36	2	4	Packer RB/FPS	A0004 A0006 A0022	PRUP7000-02301_ TRUP0130-04001_ PRUP7010-02301_
	1	2	PSK COMFORT Tipping brake	consisting of:	PZDJ0010-10001_
37	1	2	Tipping brake casing	Can be used on left and right side	
38	1	2	Tipping brake brake	Can be used on left and right side	



Item	Pieces Scheme		Material description	Material number
	A	C		

## Central locking gear (ZV) hardware components

	1	2	ZV ALU-PSK comfort Var. Set TS B1/10	MMZV0060-10001_
502	3	6	Clamping piece EUL	
505	8	16	Striker	
515	3	6	Corner drive VSU	
516	2	4	Tilt lock	
520	4	8	Slider MV	
587	2	4	Tilt locking part PSK comfort	

## Central locking gear (ZV) hardware components

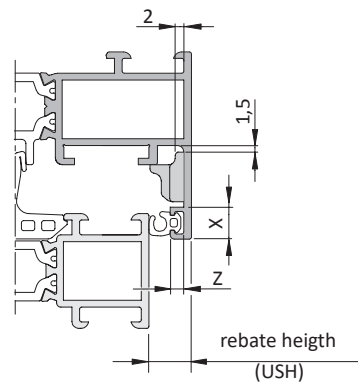
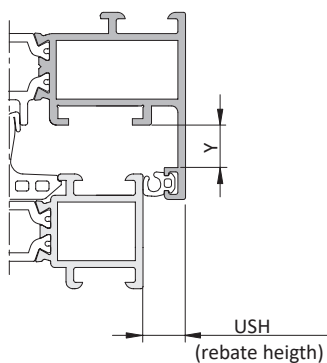
	0-1	0-1	Coupling set FBS-G	only with H1/H2	Y 9 Y 10 USH 12	MMKL0030-10001_ MMKL0010-10001_ MMKL0040-10001_
601	1	1	Coupling bracket			
603	1	1	Mishandling device LM			
908	2	2	Cheese head screw M5 x 12			
	-	1	Coupling set ALU-D	only with H1/H2		MMKL0020-10001_
601	-	1	Coupling bracket			
908	-	2	Cheese head screw M5 x 12			
915	-	1	Handle support ALU	only with H1/H2		(see table and overview on page 28)
	1	-	Gear set ALU FBS-G	only with H3		MMGI0080-10001_
621	1	1	ESG M6 FBS			
904	2	2	Countersunk screw M5 x 35			
907	2	2	Coupling screw M6			
	-	1	Gear set ALU	only with H3		MMGI0090-10001_
620	-	1	ESG M6			
904	-	2	Countersunk screw M5 x 35			
907	-	2	Coupling screw M6			

## Implementation of the Coupling set FBS-G (H1/H2)

USH (mm)	Y (mm)	Material number
8 - 10	≥ 9 < 10	MMKL0030-10003_
	≥ 10	MMKL0010-10003_
12	-	MMKL0040-10003_

## Implementation of the Handle support (Pos. 915) (H1/H2) with Coupling set ALU-D

USH (mm)	Z (mm)	X ≤ 7 mm	X < 7 ≤ 8,5 mm
7 - 10	≤ 2	MFHA0010-10020_	MFHA0010-10020_
	> 2 ≤ 3		MFHA0020-10020_
	> 3		-
12	-	MFHA0030-10020_	-

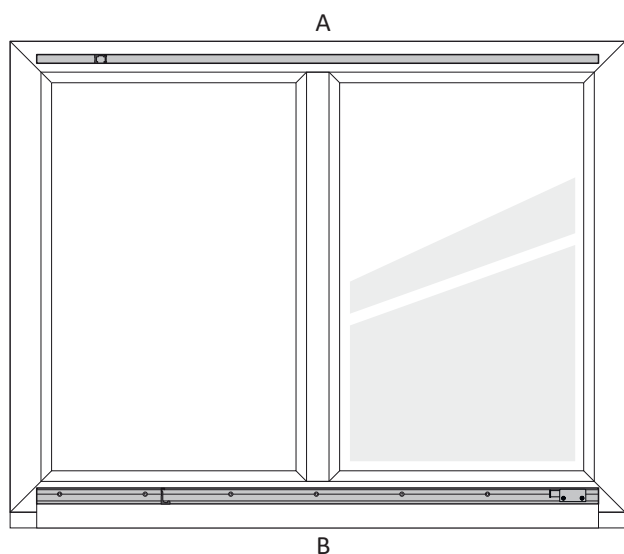






## 4 Mounting the hardware components

### 4.1 Mounting the running rail and guiding rail



#### **⚠ DANGER**

##### **Danger to life due to sliding sash falling out**

Wrong position of the guiding and running rail.

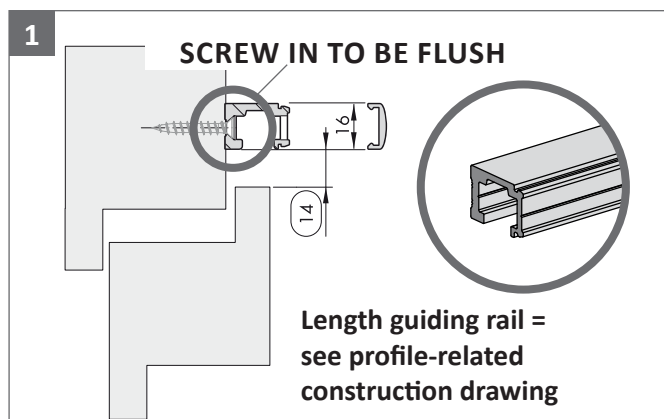
- Adhere to the positioning dimensions.



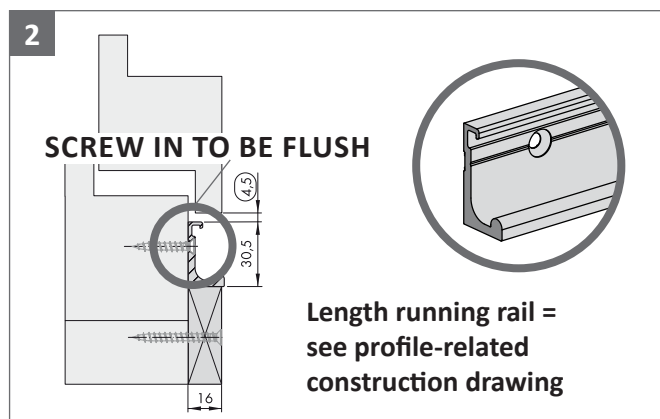
The construction drawing related to the profile must be observed for correct assembly of the guiding and running rail.

A Guiding rail

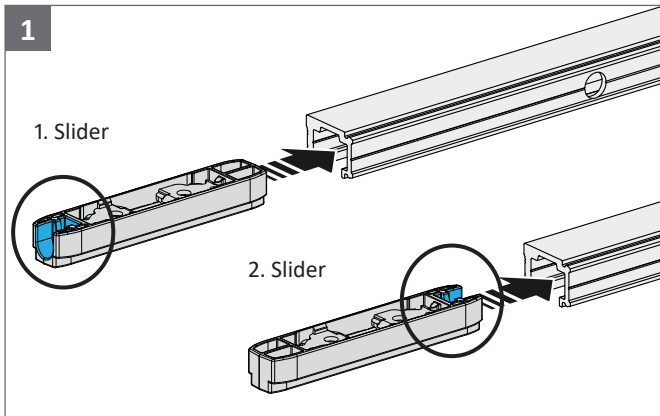
B Running rail



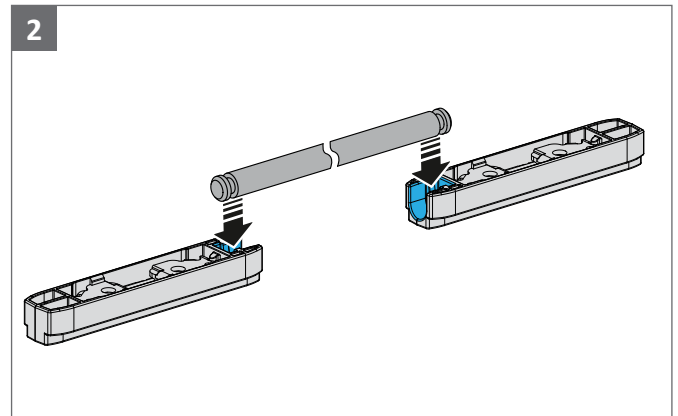
Position the guiding rail. Observe the construction drawing related to the profile.



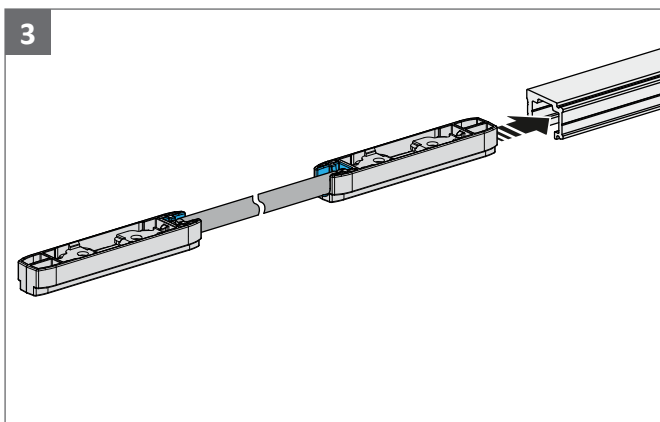
Position the running rail. Observe the construction drawing related to the profile.  
Attach load-bearing, end-to-end running rail support when assembling the hardware.



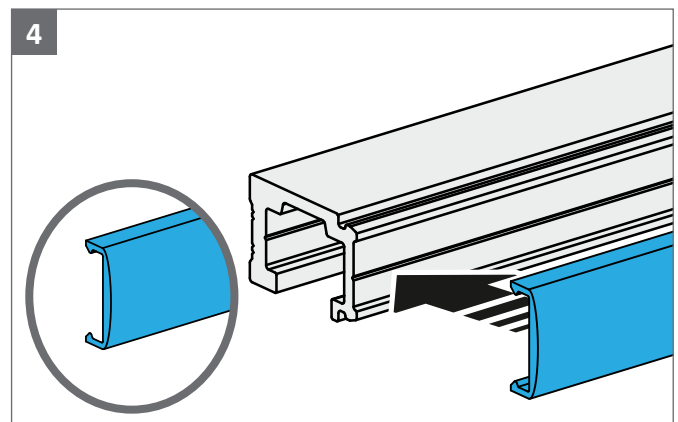
Push both sliders into the guiding rail. Pay attention to the orientation.



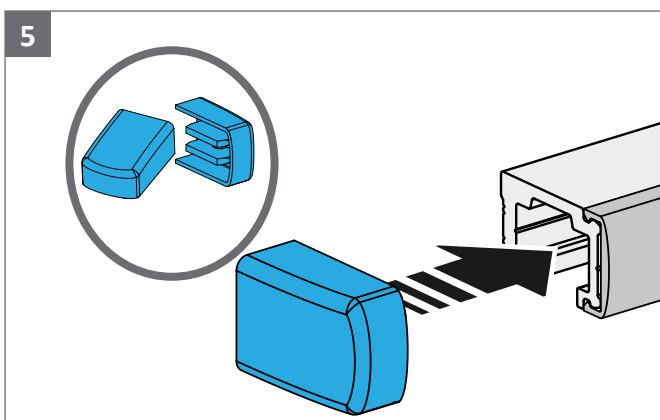
If the connecting rod is used, clip this into the slider first.



Push slider together with the connecting rod into the guiding rail.



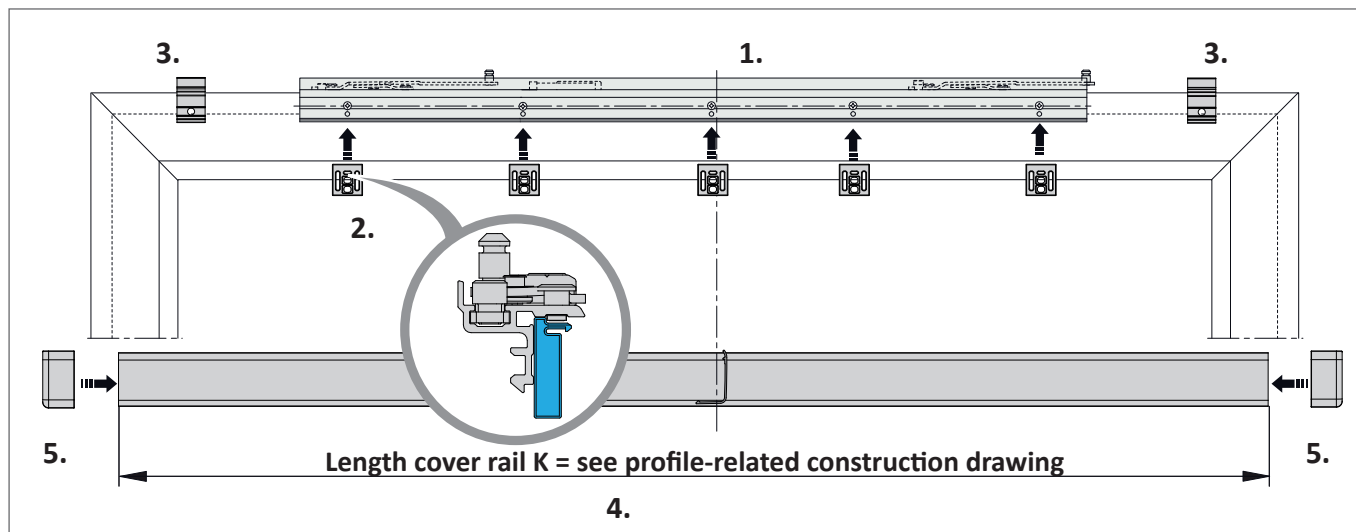
Shorten the cover rail to the required length and clip onto the guiding rail.



Attach a cover cap F to each end of the guiding rail.



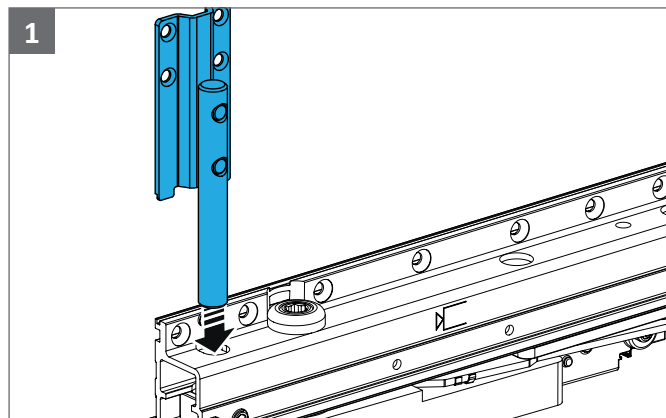
## 4.2 Installing the tilt stay



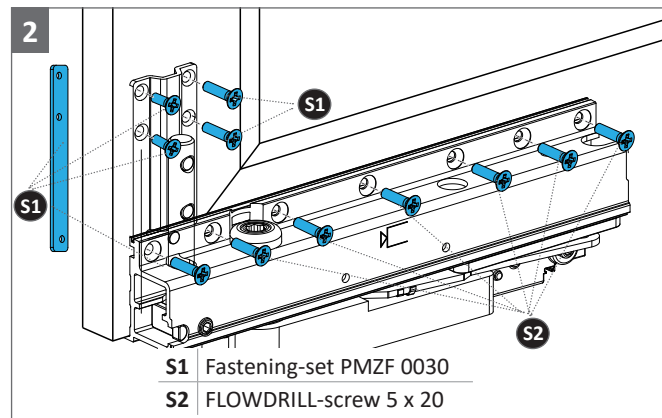
Kippschere mittig am Flügel anschrauben (1.). Jedes Schraubloch mit einem Distanzstück K hinterlegen (2.). Bei Größe 160 und 200 zusätzlich je nach Flügelbreite 2 Halter K anschrauben (3.). Abdeckschiene K auf benötigte Länge zuschneiden und aufklipsen (4.). Abdeckkappe K Rechts und Links, seitlich auf die Abdeckschiene K aufstecken (5.).

## 4.3 Installing the bogie wheels

We recommend using the PAFL 5010 jig for easy and secure positioning of the bogie wheels. To make it easier to loosen the screws later, drill out the drill holes from  $\varnothing 4.2$  mm to  $\varnothing 4.5$  mm.



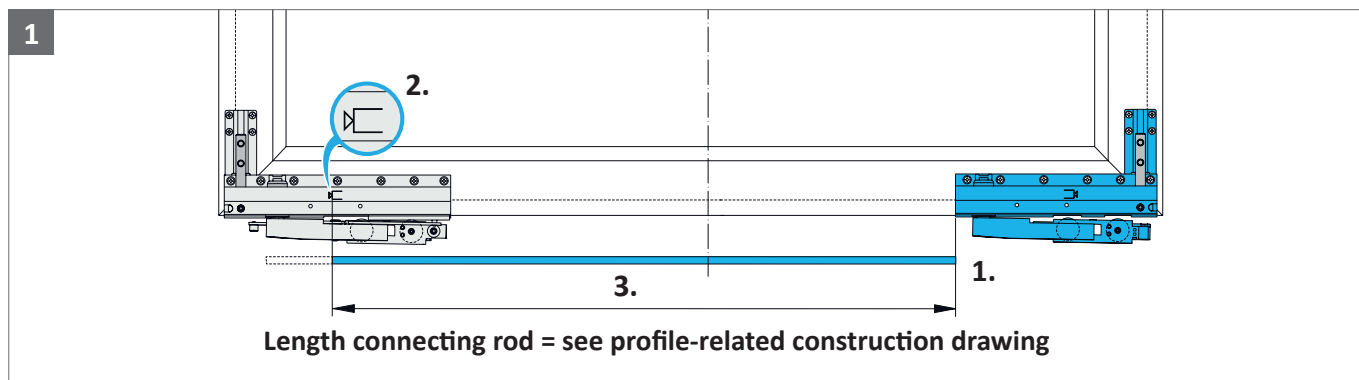
Push supporting part into bogie wheels V and H



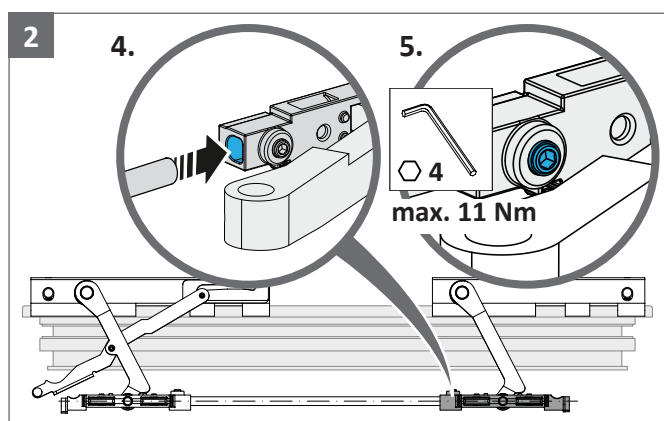
Screw both bogie wheels tightly onto sliding sash according to their position.



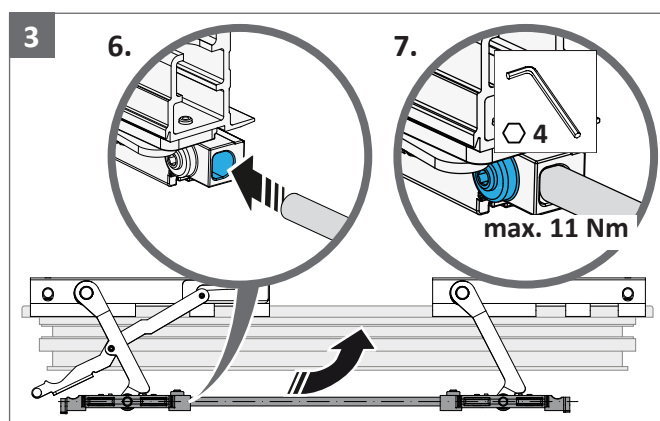
#### 4.4 Installing the connecting rod



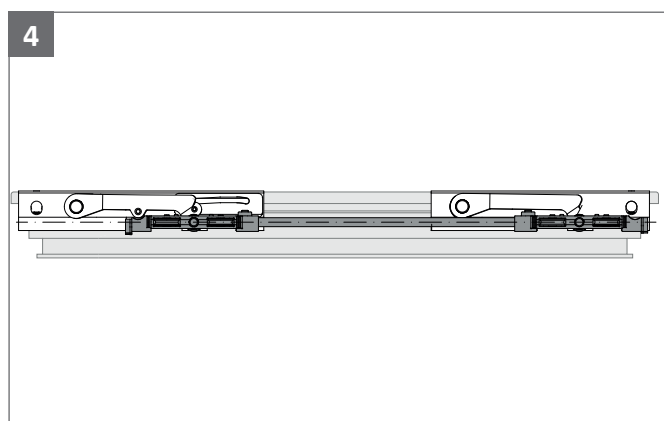
Position connecting rod on the bogie wheels H (1.) and mark the cut on the connecting rod (2.) on the cutting mark of second bogie wheels V. Crop connecting rod to required length and fix in the bogie wheels (3.).



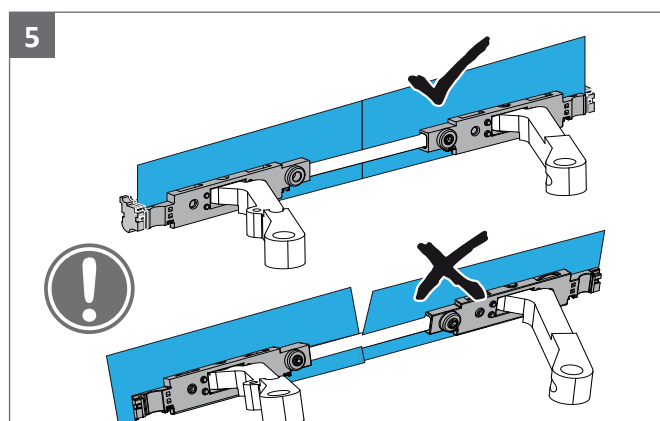
Insert connecting rod into bogie wheels V (4.) and fix with head cap screw (5.). Maximum Torque 11 Nm.



Insert connecting rod into bogie wheels H (6.) and fix with head cap screw (7.). Maximum Torque 11 Nm.



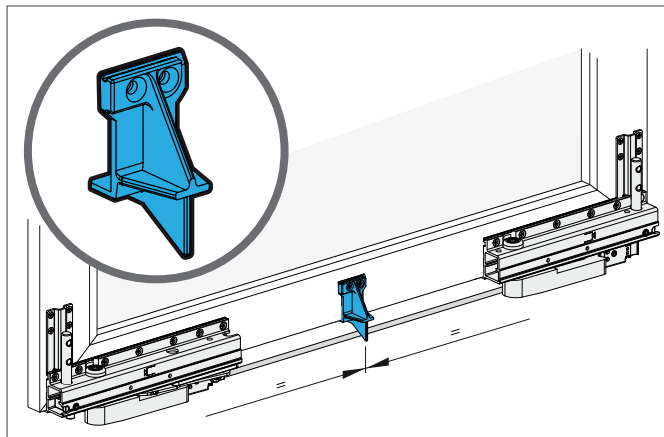
The bogie wheel casing must lie parallel in the closed position.



After fixing the connecting rod, the bogie wheel casings must be in line with one another.

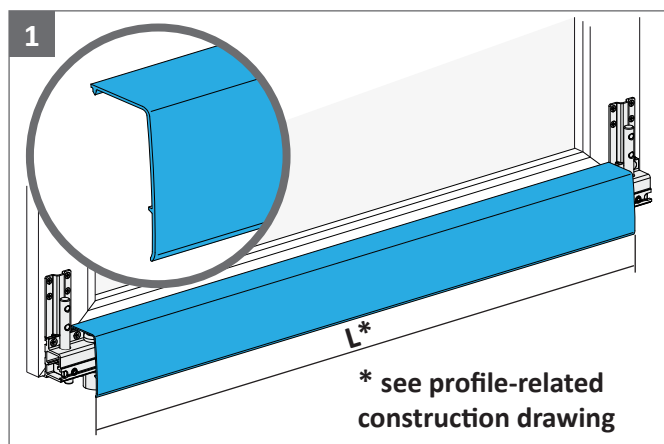


#### 4.5 Installing supporting piece L

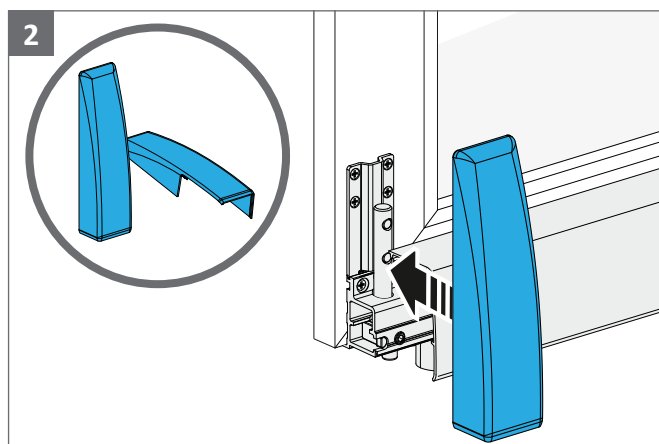


Position supporting piece L for cover rail L centrally and screw into place

#### 4.6 Mounting the bogie wheels cover



After the sash has been inserted into the frame, attach the cover rail L.



Attach the cover caps L to the respective bogie wheels.



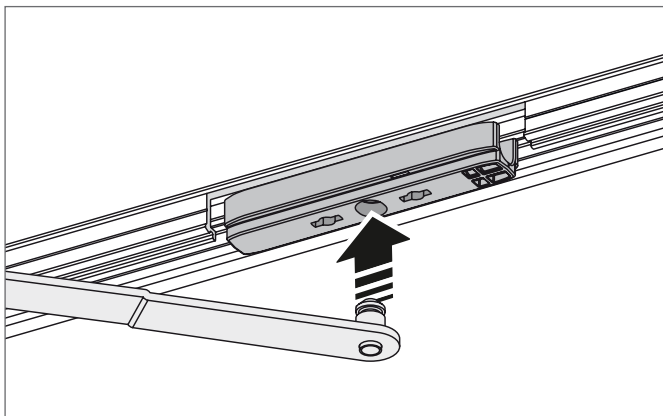
## 4.7 Inserting the sliding sash

### ⚠ DANGER

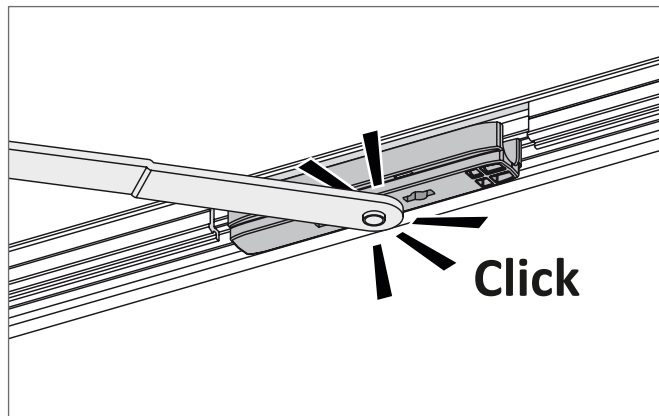
**Danger to life due to sliding sash falling out**

Stay arm has not engaged.

- Confirm that the coupling bolt is engaged in the slider by pulling on the stay arm.



Place stay arms of tilt stay into tilt position. Position the sash on the running rail at an incline and insert the coupling bolt of the stay arms into the slider.

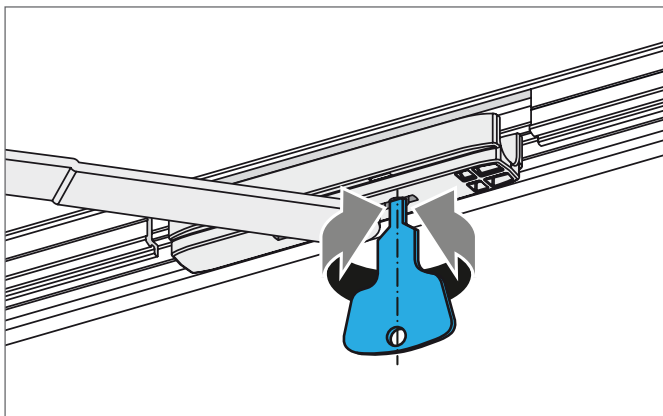


Snap in stay arms of tilt stay into slider.

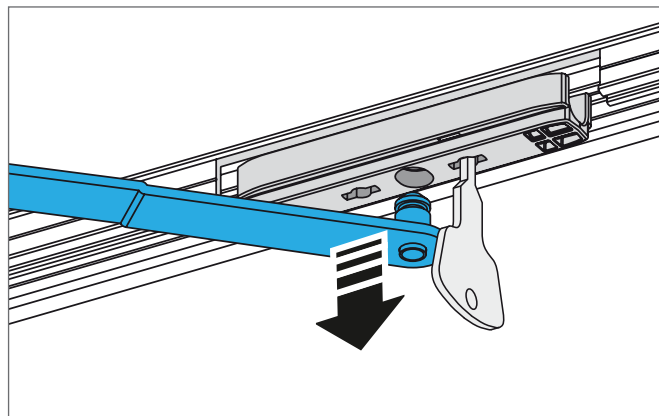
## 4.8 Removing the sliding sash



Only the PORTAL key may be used to release the stay arms in the slide



Place stay arms of tilt stay into tilt position. Release stay arms from the slider using the PORTAL key.



Lift off the stay arms of the tilt stay.



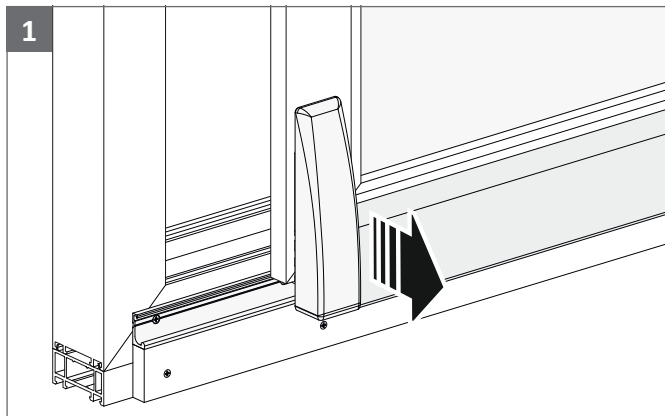
## 4.9 Installing the bogie wheels safeguard

### ⚠ DANGER

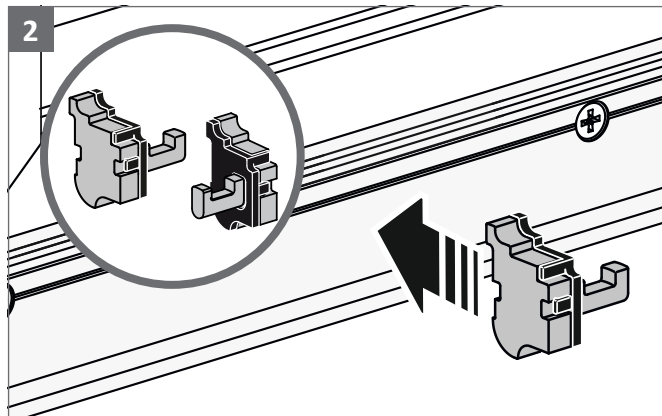
**Danger to life due to sliding sash falling out**

Not mounted bogie wheels safeguard.

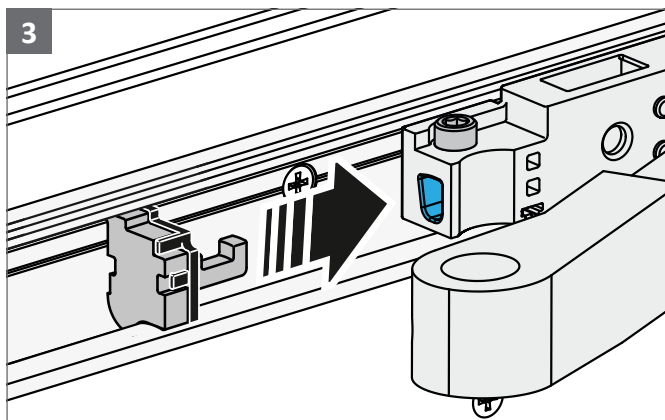
- The bogie wheels safeguard must be correctly installed in both bogie wheels of a sliding sash.



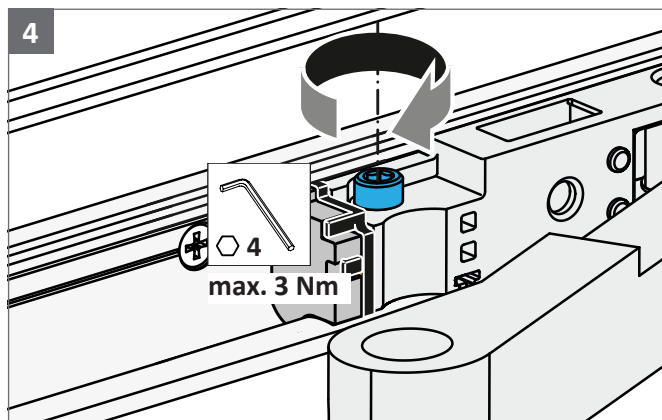
The bogie wheels safeguard can only be installed in a parallel positioned sash.



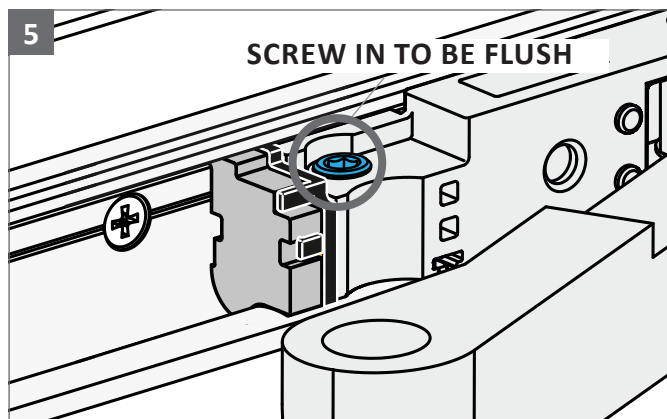
Position the relevant version (right or left) of the bogie wheels safeguard in the running rail.



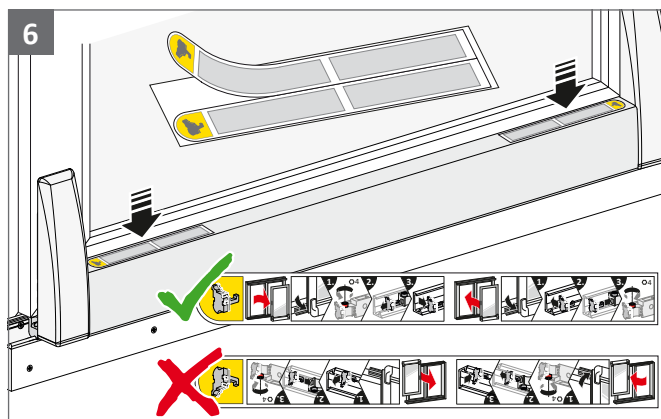
Push safeguard into bogie wheels V and H.



Fix the safeguard in the bogie wheels with a locking screw.



The locking screw must be completely countersunk. Do not overtighten the locking screw, torque max. 3 Nm.

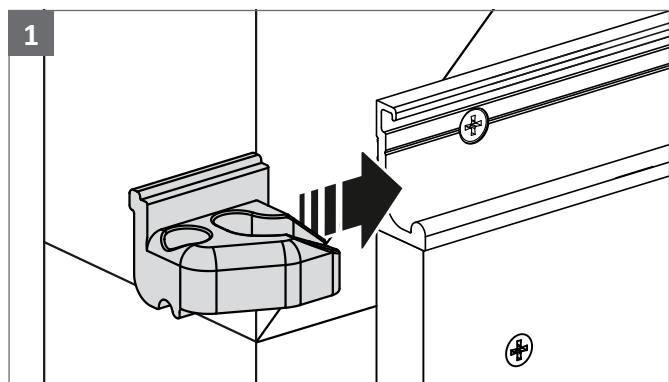


Adhere the notes sticker to the protective foil of the cover rail L. Pay attention to correct orientation of the sticker.

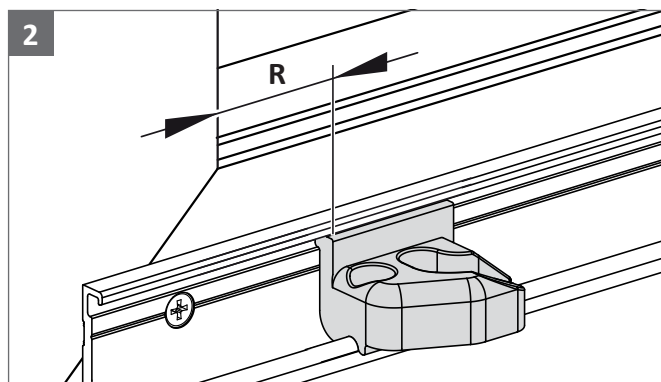
#### 4.10 Removing the bogie wheels safeguard

The removal of the bogie wheels safeguard is carried out in reverse sequence to the installation.

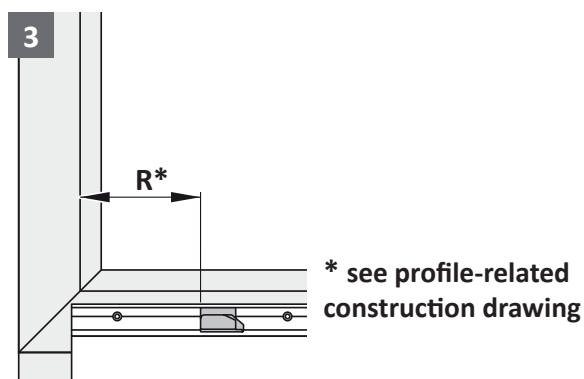
#### 4.11 Positioning the trigger



Slide the trigger sideways into the running rail.

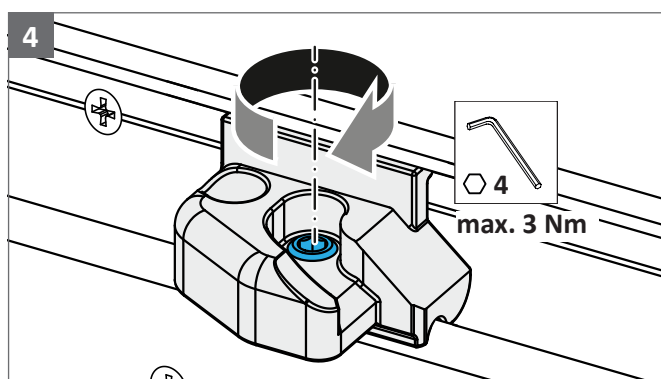


Position the trigger according to the profile.



Dimension R is designed to the position of bogie wheels V.

If the position of bogie wheels V is changed, the position of the trigger must be adapted accordingly.

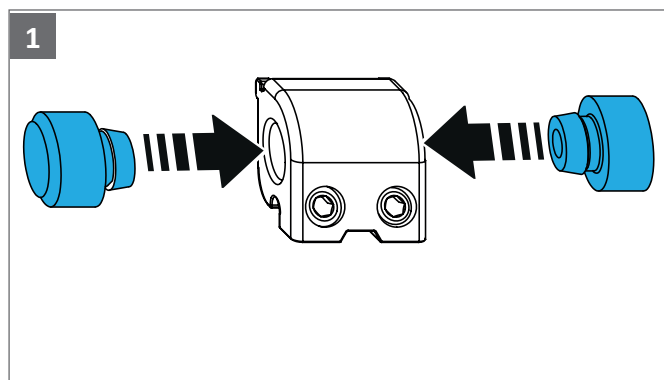


Fix trigger position with head cap screw. Torque max. 3 Nm.

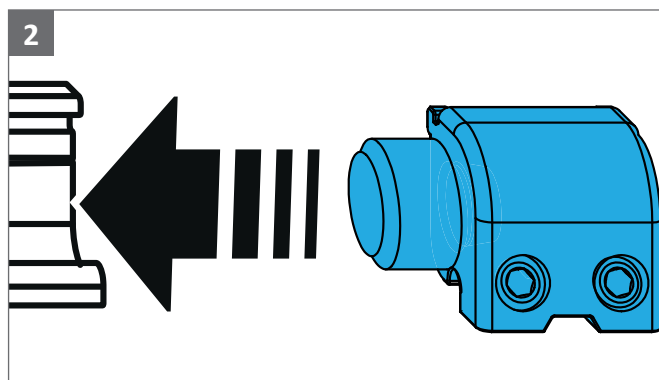




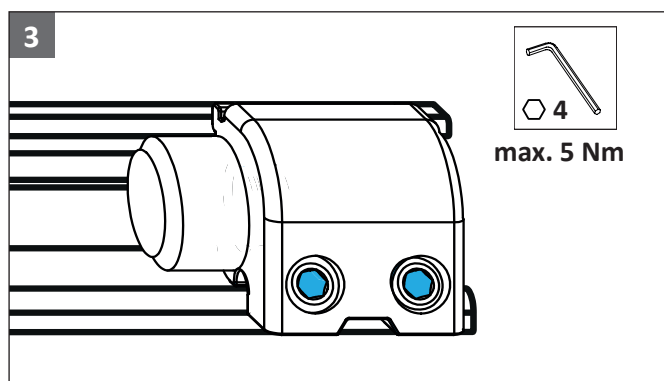
#### 4.12 Positioning the stop



Assemble the stop according to the required DIN direction.



Slide the stop sideways into the running rail.



Fix stop into the running rail with Allen key. Final positioning only after the sliding sash has been installed. Torque max. 5 Nm.



### 4.13 Tipping brake

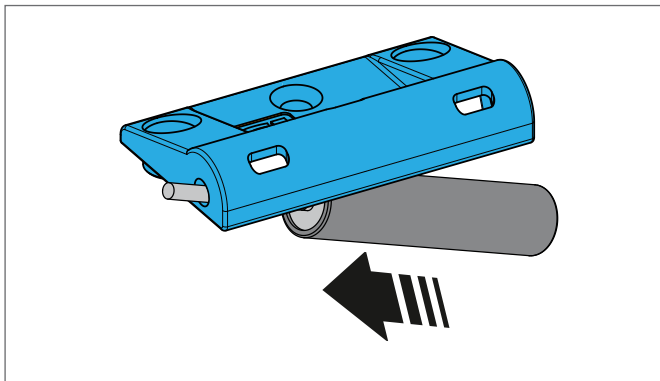
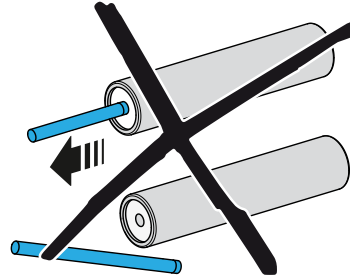
Install the tipping brake with the tilt stay closed before you install the sliding sash in the frame.

Range of application: +10°C to +40°C

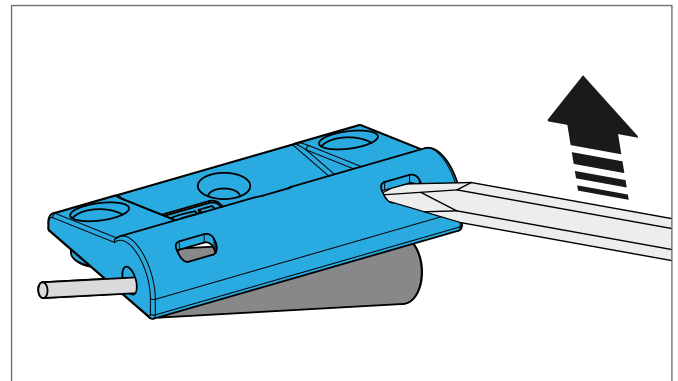
Storage: -20°C to +80°C



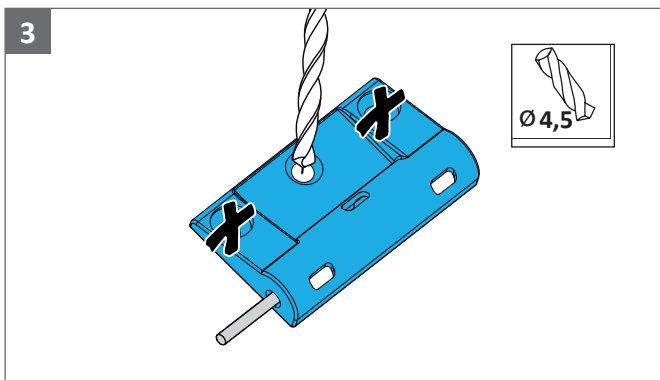
If the brake is disassembled, the function can no longer be guaranteed.



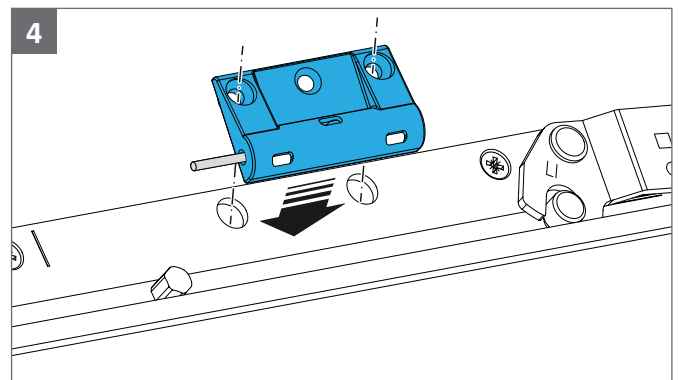
Assemble the tipping brake according to the required version of the DIN direction right/left.



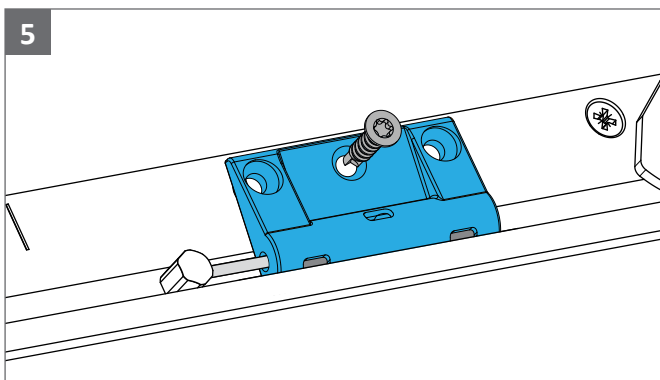
Only dismantle the tilt brake using a slotted screwdriver.



Drill the centre fixing hole.



Position the tipping brake on the tilt stay.



Fix tilt brake with onsite drill screw 3.9x25.



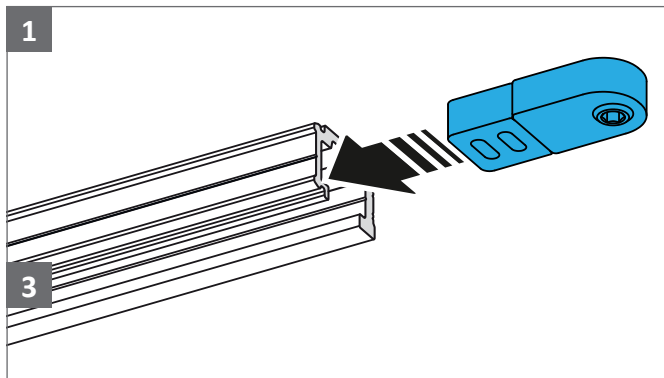
#### 4.14 Stop buffer

##### DANGER

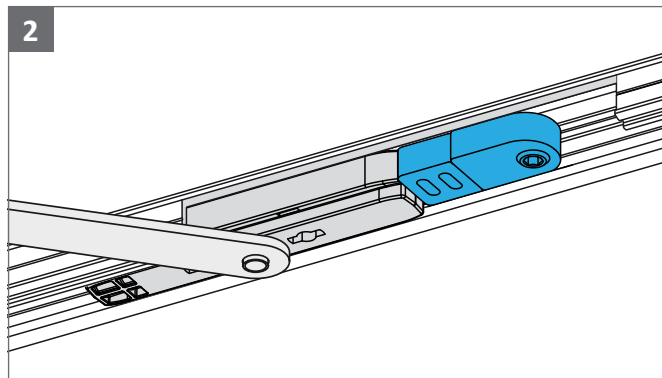
**Danger to life due to sliding sash falling out**

Not mounted connecting rod slider.

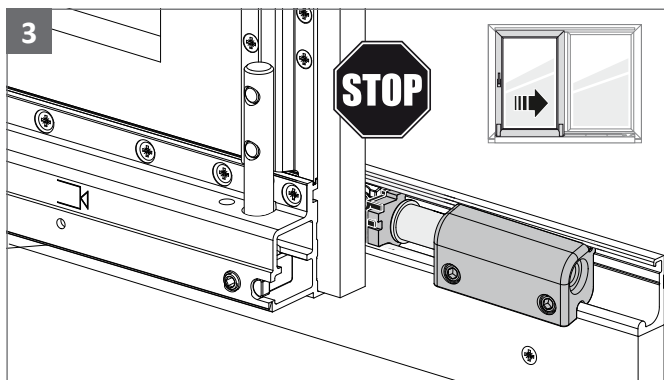
- The stop buffer may only be used if the connecting rod slider has been mounted.



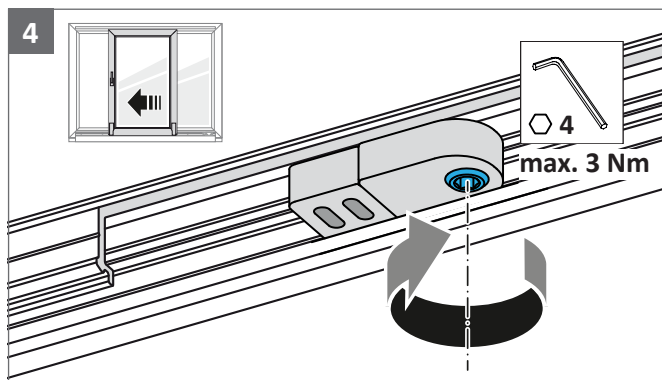
Insert stop buffer into the guiding rail.



Push the stop buffer as far as the PSK comfort slider.



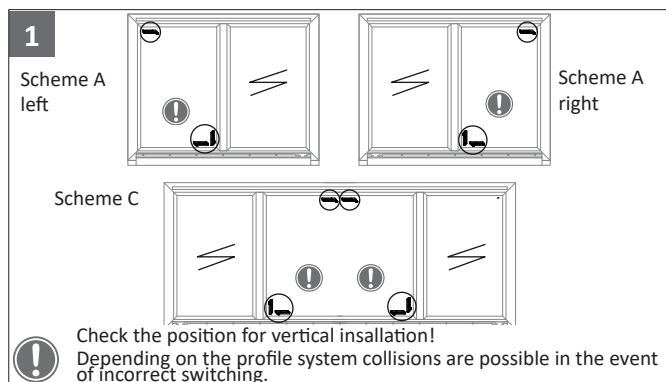
Completely open sliding element and stop before the bogie wheels hit the stop.



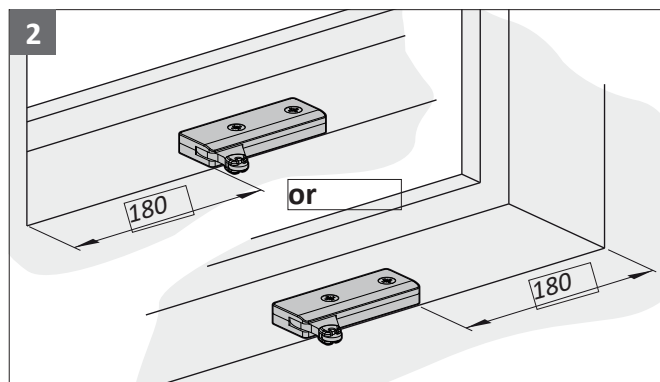
Close the sliding element again. Now fix the stop buffer with a hexagon screw. Max. torque 3 Nm.



## 4.15 Slam-shut brake

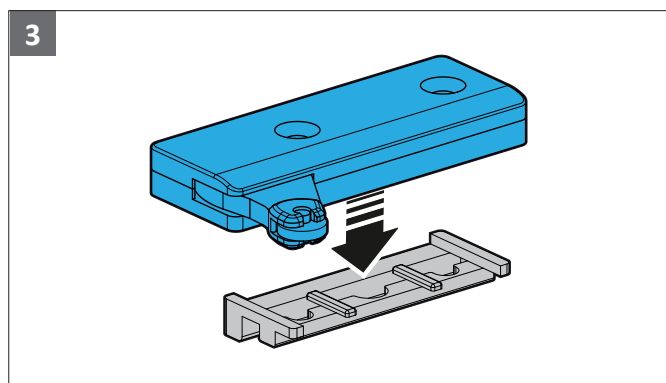


Positioning point for the slam-shut brake on the frame.  
The slam-shut brake can be placed at the bottom either horizontally or vertically. Installation above/below is done diagonally.

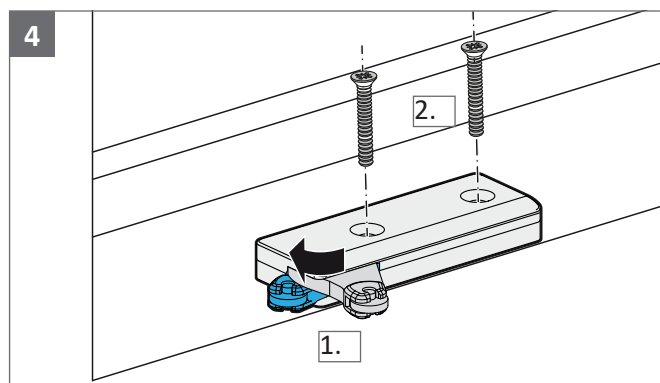


Position 180 mm from the sash rebate corner.

Slide the slam-shut brake accordingly in case of collision with other frame parts.



Place the slam-shut brake on the profile-specific FRUP.

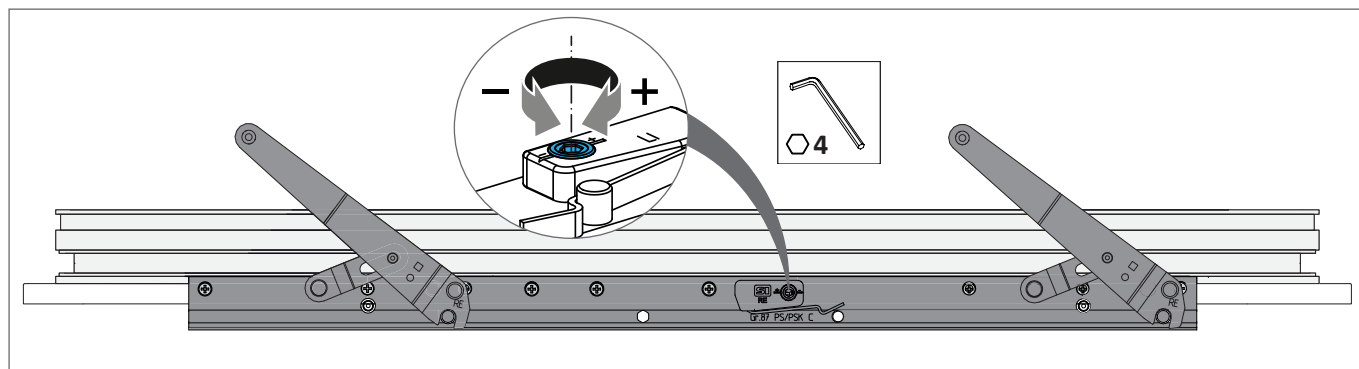


Press back the brake lever (1.), in order to guarantee space for the lever path.

Position additional brake and screw firmly into place (2.).

## 5 Adjustment

### 5.1 Adjusting the tilt stay



Adjust the engaging function of the tilt stay with Allen key SW 4: stronger (+), weaker (-).

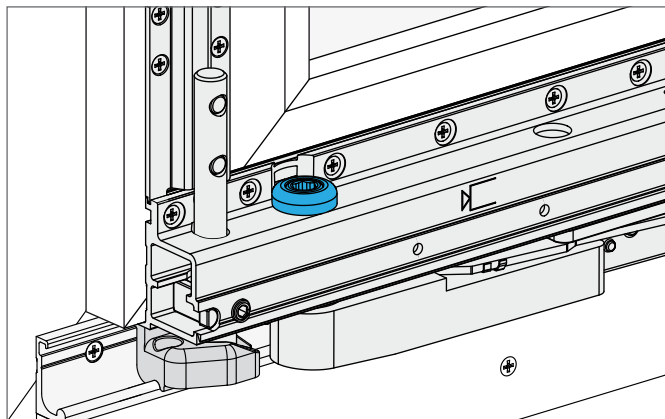


## 5.2 Height adjustment of the bogie wheels

With the height adjustment on bogie wheels V and H, the sash can be finely adjusted to the frame.

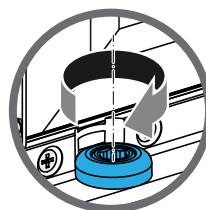
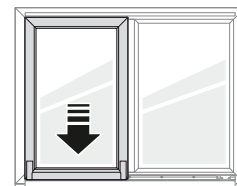
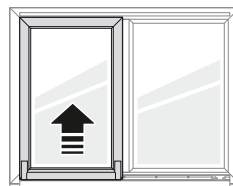


A regulation of the elevating adjustment can be undertaken following the installation of the element in the object.

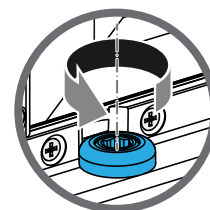


Height adjustment on the bogie wheels with Allen key SW 8.

Default setting in minimum position (0 mm)



8



The maximum adjustment range must not be exceeded.

One rotation is equivalent to 1 mm height adjustment.

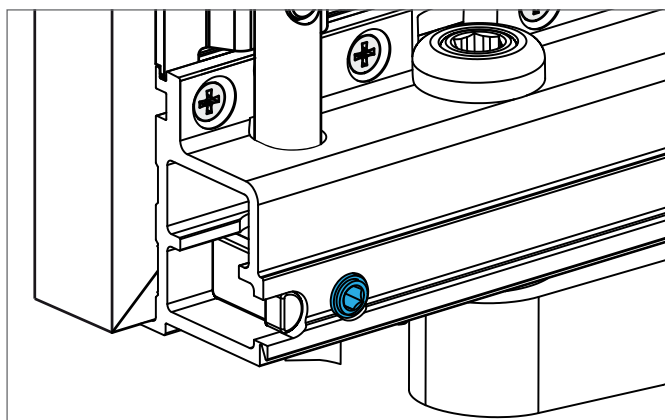
Maximum adjustment: 4 mm

## 5.3 Adjustment of the tilt angle of the bogie wheels

Precision adjustment of the sash to the frame can be accomplished with the tilt adjustment of bogie wheels V and H.

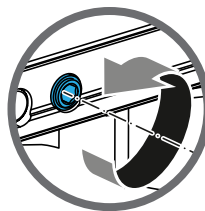
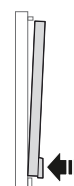
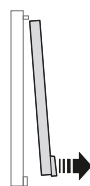


Carry out adjustment following installation of the element in the object. Always adjust both bogie wheels.

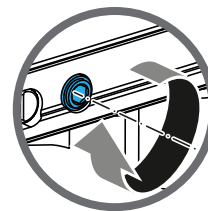


Tilt adjustment on the bogie wheels with Allen key SW 4.

Default setting in minimum position (0 mm).



4



Adjustment path max. 2 turns from the minimum position.



## 6 Profile sections

### 6.1 SI construction drawings

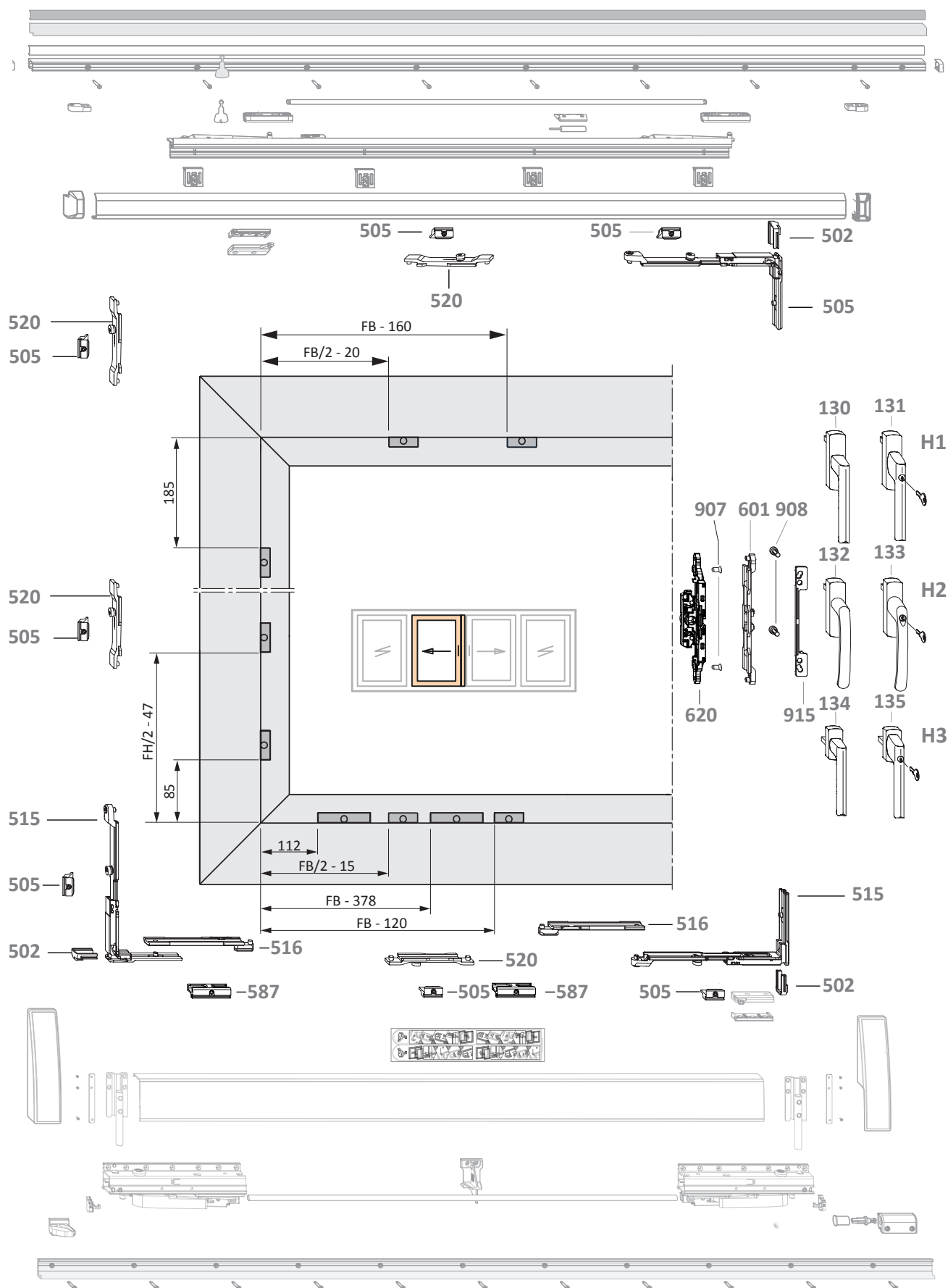
The dimensions of the SI construction drawings must be observed for the correct positioning of the holes and the components on the profile.

You can obtain SI construction drawings from the field sales contact person on request.



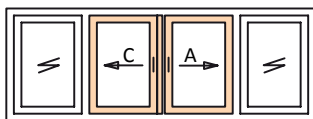
## 7 Overview of hardware components

### 7.1 Hardware components presentation scheme C



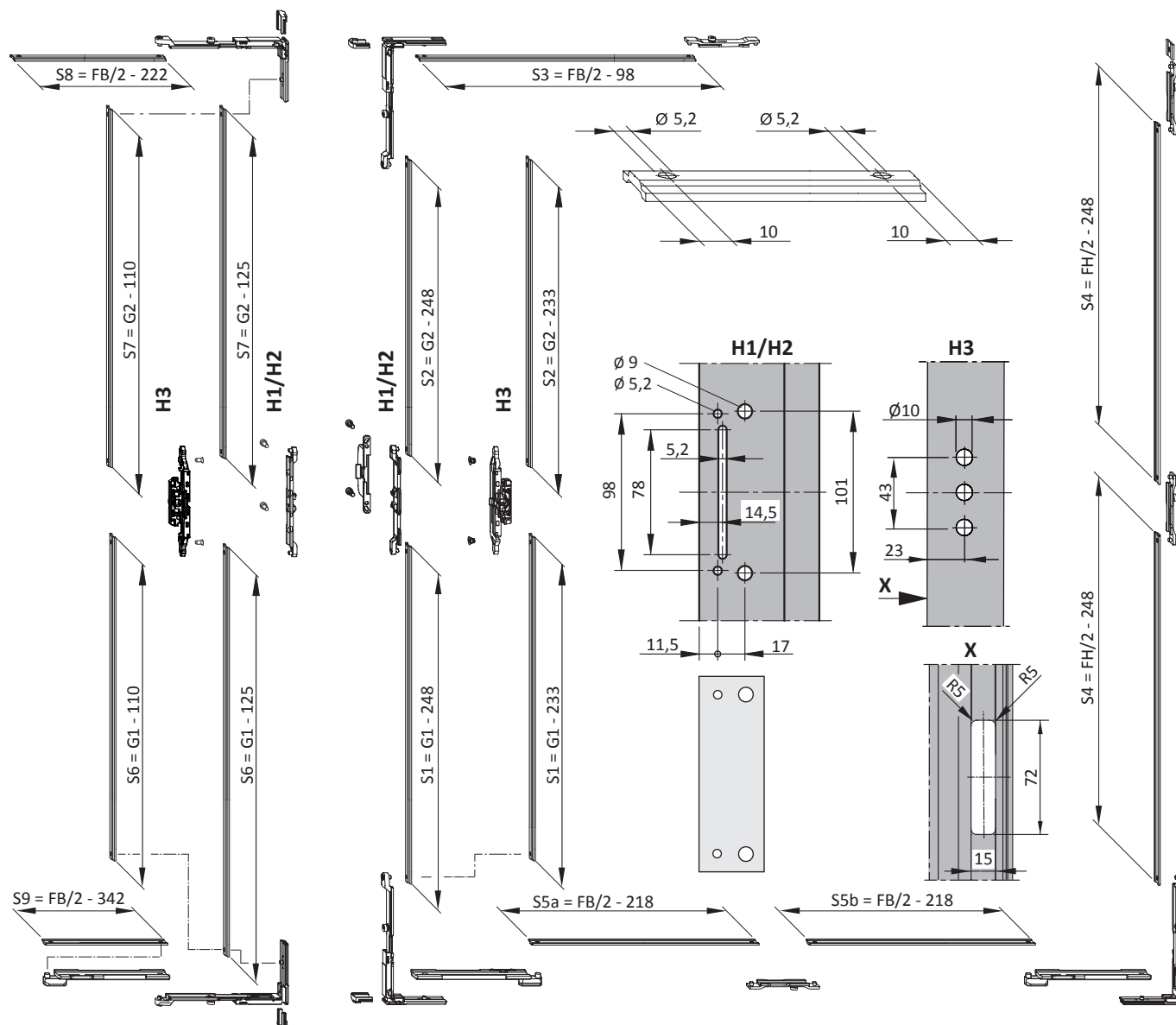


## 7.2 Operating rod dimensions ZV Scheme C and A



Scheme C

Scheme A



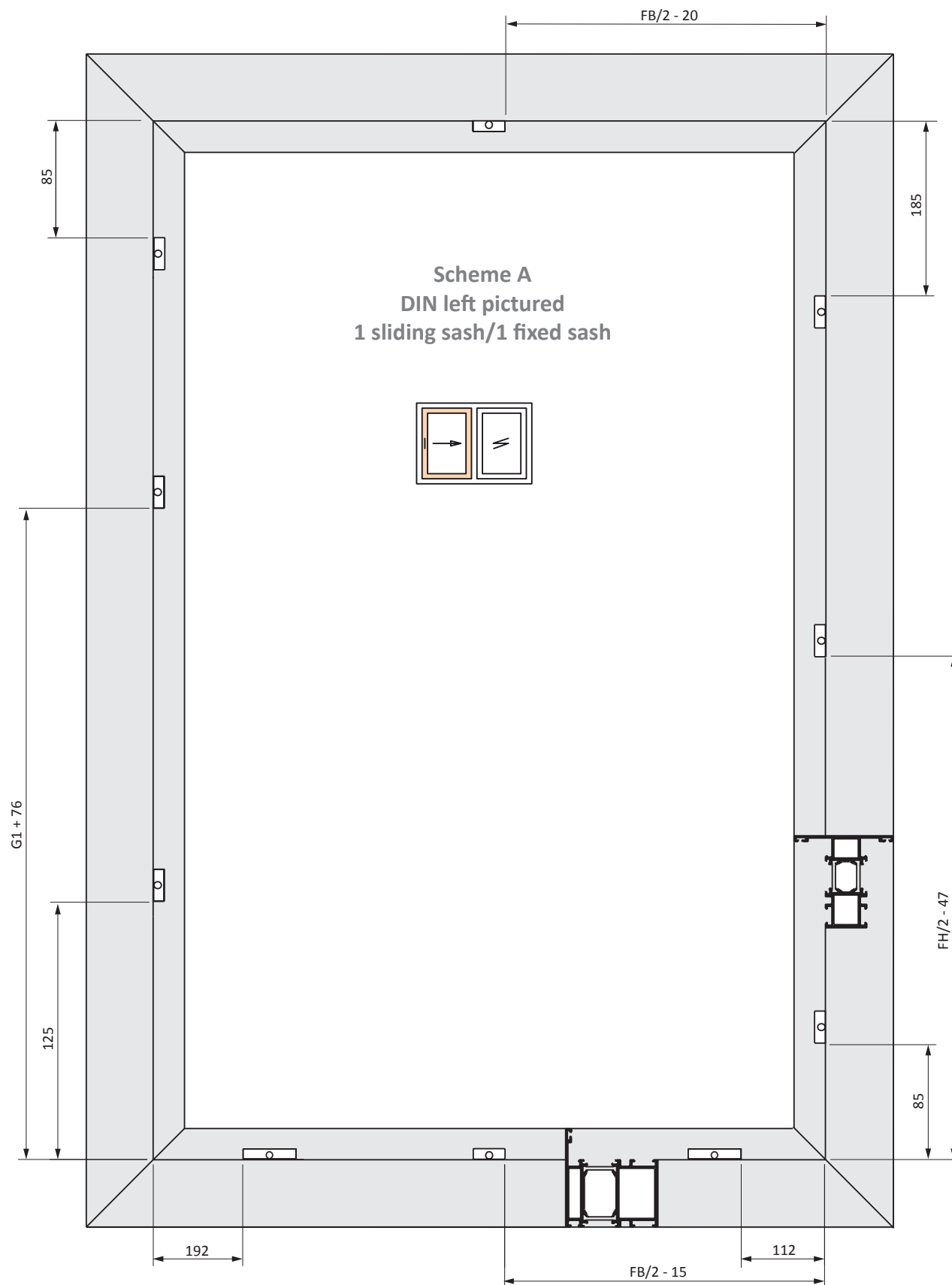
**Notice:** S4 and S5b look at Scheme A





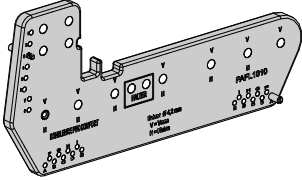
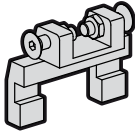
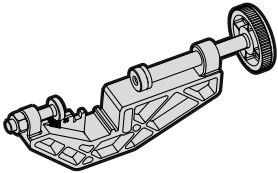
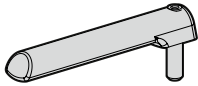

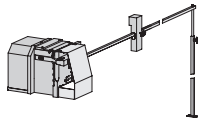
## 8 Frame dimensions

### 8.1 Dimensioning of the strikers scheme A





## 9 Jigs

	Material description	Tooling	Material number
	<b>PSK comfort jig</b> for bogie wheels	drill Ø4,2	PAFL5010-09601_
	<b>PSK comfort jig locking part</b> for locking parts		PAEL1010-00001_
	<b>Clamping jig PSK comfort</b> for running and guiding rail		PALJ0110-02101_
	<b>PSK EB 640/4 jig</b>	drill Ø3	143001
	<b>PSK PORTAL jig</b> For handle ALU PS comfort	drill Ø9	157503
	<b>ALU multi-purpose punching machine</b> For handle punching H1/H2 and operating rod hole Ø 5.2		157398



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