

Product Catalogue  
08/2019

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PVC-U window

## duoPort S

The slide fitting.





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# 1 Fitting systems which know no bounds

## Winkhaus Expertise

Developing a new system of fittings from initial drafts through to production readiness is a time consuming process. It takes more than just creative ideas, precise calculations and innumerable tests. Before we start, we take a close look at what people and markets need, evaluate trends and analyse general technical developments - we even question time-tested approaches and solutions. We then use all of this information plus our years of experience to create targeted, high-grade solutions that open up a whole new range of possibilities for fitters and users with systems which are both cost-effective and functional.

This constant drive towards precision has made Winkhaus one of the leading enterprises in the window and door technology sector. This is also demonstrated by the numerous technologies we have invented and established as an industry standard throughout more than 160 years of company history.

## duoPort. The fitting system for sliding and slide and tilt windows

The duoPort range features premium quality fittings for large-format windows and French doors. Whether you install products such as the slide and tilt fitting duoPort SK or the sliding fitting duoPort S, with just a few components our versatile range enables you to fully meet building owners' stringent requirements with regard to windows, terraces and balconies.

duoPort offers you a great deal of scope for design and layout. Fittings are suitable for use with wooden, plastic and aluminium windows and are available in all standard opening widths. Thanks to sturdy drive mechanisms, they can even be used in French doors with heavy glazing. duoPort is a fitting system which can be easily adjusted to suit your customers' requirements.

duoPort SK can also be used with components from the activPilot Concept range. This slide and tilt fitting is thus not only very quick and easy to install, but also keeps down costs for warehousing as well as time and effort for placing orders.

## Tried and trusted quality

Winkhaus' activPilot fittings are certified in accordance with QM 328. The turn-only and turn-tilt fittings for windows and French doors undergo a large number of tests in the stringent certification programme, which verifies aspects such as durability and quality control mechanisms. The certificate stands as a testament to Winkhaus' long tradition in high quality products.

## Your partner for service

Our services are solution-oriented, reliable and precisely geared to match your requirements - just as you would expect from your partner. We are always at your service. With application engineers on site, professional help from our product data service, and innovative software solutions to help optimise your workflow we safeguard and extend your capacity to act. On top of this, our comprehensive product information system and sophisticated logistics service guarantee fast delivery at all times.

## Product liability

Gütegemeinschaft Schlösser und Beschläge e.V., Velbert issues guidelines offering assistance for the use of locking systems and fittings for windows, doors and patio doors. These guidelines are established in cooperation with the trade association of the locks and fittings industry in Velbert as well as the testing institute PIV which is also based in Velbert. If required, they are agreed with the VFF technical committee and ift Rosenheim. As a result the experience and test findings of several decades are considered. The guidelines provide information about the intended use and maintenance of fittings for windows and patio doors. It is mandatory to observe these guidelines. The current guidelines can be accessed in different languages at the following Internet address: <http://www.beschlagindustrie.de/ggsb/richtlinien.asp>

## Application range

The respective fitting may only consist of the original Winkhaus proPilot fitting parts. We do not assume any liability in case third-party or non-approved system components are used. The instructions for handling the profile system should also be taken into account when installing the fitting.

- see slide mechanism data sheet for max. sash weight
- min. sash rebate height 400mm

When used with tandem slide mechanism:

- min. sash rebate width 285 mm

When used with single slide mechanism:

- min. sash rebate width 150mm

## Further products

1

### activPilot Concept

The turn-tilt fitting system for PVC-U windows.

A modular system that combines the solutions of a future standard. A new closing system, attractive value-added functions and functional design.



### activPilot Control

Locking sensors up to VdS Class C.

Unobtrusive closing sensors reliably report which windows and glazed doors are open or locked. At the same time heating and air-conditioning controls are supported.



### autoPilot Comfort

Turn-tilt fittings with parallel action.

Allround security thanks to innovative technology. The convenient approach to a healthy indoor atmosphere and improved illegal entry protection in parallel position.



### activPilot Topstar

Fully-concealed turn-tilt fittings for design windows.

The activPilot Topstar system enables you to build windows with particularly aesthetic demands and sash weights up to 130 kg. The optimised control curve of the hinge parts enables a narrow shadow joint for flush windows and a small free size of the frame for offset profiles.



1

## activPilot Select

The fully concealed turn-tilt fitting system.

The fitting system features fully concealed shear, turn and corner hinges housed in the rebate. When installed as a standard model, this elegantly designed turn and tilt fitting is able to bear sashes weighing up to 100 kg. With just two additional components, it can easily support sashes weighing up to 150 kg.



## easyPilot

Fittings for turn windows.

Simple, rational and easy to handle. Perfectly geared to the needs of international fitters thanks to innovative, country-specific solutions.



## duoPort SK

Slide-tilt fittings.

The slide-tilt doors delivered with the duoPort SK series support sash weights of up to 200 kg, with perfect functionality and elegant design. They can be operated conveniently by simply pressing the handle in combination with a pull-in shear device.



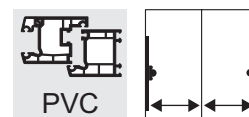
# Glossary

1

## Code

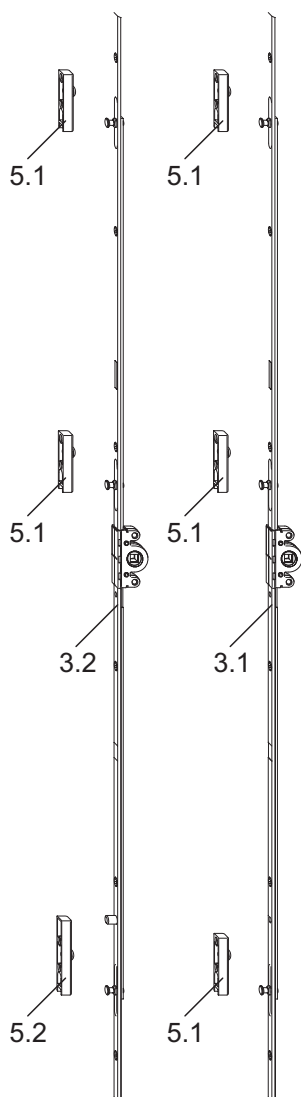
DST.K.S	Spacer, plastic, sliding window
GP.K.S	Rubber stopper, plastic, sliding window
GVMC	Drive rod, lock mechanism, central handle position, sliding window
GVMC...AHS	Drive rod, lock mechanism, central handle position, sliding window, anti-lift device
GVMCA	Drive rod, lock mechanism, central handle position, sliding window, lockable, anti-lift device
LW.K.S.U	Slide mechanism, plastic, single, universal
LW.K.S.U.VST	Slide mechanism, plastic, single, universal, adjustable
LW.K.T.U.VST	Slide mechanism, plastic, tandem, universal, adjustable
LW.K.T.144	Slide mechanism, plastic, single, universal, Profine profile system
SBS.K.S.U	Keep, security, plastic, sliding window, universal
SBS.K.S.U.AHS	Keep, security, plastic, sliding window, universal, anti-lift device
SBS.K.S....RS	Keep, security, plastic, sliding window, right-hand
SBS.K.S....LS	Keep, security, plastic, sliding window, left-hand
SBS.K.S....AHS.RS	Keep, security, plastic, sliding window, anti-lift protection, left-hand
SBS.K.S....AHS.LS	Keep, security, plastic, sliding window, anti-lift protection, right-hand

# Sliding window, central handle position, backset 15.5



2

with and without anti-lift device



		Pos.
2	LW.K.S.U.VST	4.1

2	LW.K.S.U...	4.2
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2	LW.K.T.U.VST	4.3
6	DST.K.S...	4.4

1	GPK.S.25	4.5
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#### ohne Aushebesicherung

	Pos. 3.1	Pos. 5.1
400 – 600	GVMC.400-2	+2
601 – 800	GVMC.600-2	+2
801 – 1000	GVMC.800-2	+2
1001 – 1200	GVMC.1000-3	+3
1201 – 1400	GVMC.1200-3	+3
1401 – 1600	GVMC.1400-3	+3
1601 – 1800	GVMC.1600-3	+3
1801 – 2000	GVMC.1800-4	+4
2001 – 2200	GVMC.2000-4	+4

#### mit Aushebesicherung

	Pos. 3.2	Pos. 5.2	Pos. 5.1
600 – 1000	GVMC.600-2.AHS	+1	+1
1001 – 1800	GVMC.1000-3.AHS	+1	+2
1801 – 2200	GVMC.1800-4.AHS	+1	+3

FFH

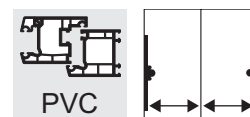
4.5



With anti-lift device  
without anti-lift device

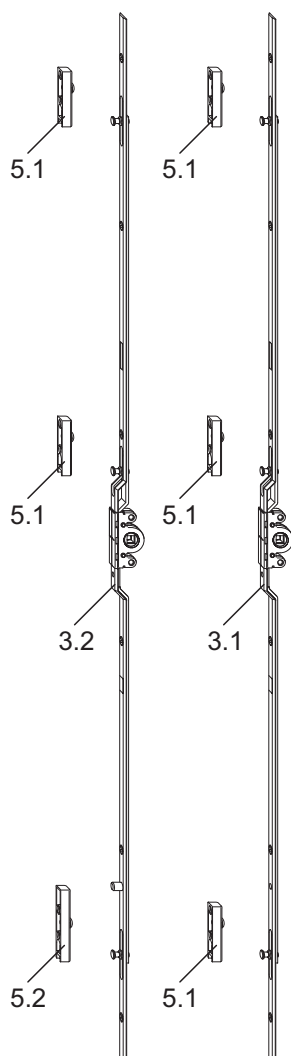


# Sliding window, central handle position, backset 7.5



2

with and without anti-lift device



		Pos.
	2 LW.K.S.U.VST	4.1
	2 LW.K.S.U...	4.2
	2 LW.K.T.U.VST	4.3
	6 DST.K.S...	4.4
	1 GPK.S.25	4.5

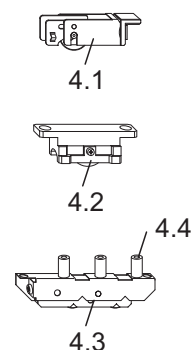
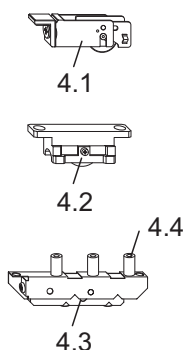
  

ohne Aushebesicherung			
	Pos. 3.1		Pos. 5.1
400 - 600	GVMC.400-2.D7,5		+ 2
601 - 800	GVMC.600-2.D7,5		+ 2
801 - 1000	GVMC.800-2.D7,5		+ 2
1001 - 1200	GVMC.1000-3.D7,5		+ 3
1201 - 1400	GVMC.1200-3.D7,5		+ 3
1401 - 1600	GVMC.1400-3.D7,5		+ 3
1601 - 1800	GVMC.1600-3.D7,5		+ 3
1801 - 2000	GVMC.1800-4.D7,5		+ 4
2001 - 2200	GVMC.2000-4.D7,5		+ 4

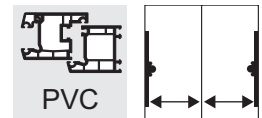
mit Aushebesicherung			
	Pos. 3.2	Pos. 5.2	Pos. 5.1
600 - 1000	GVMC.600-2 D7,5,AHS	+ 1	+ 1
1001 - 1800	GVMC.1000-3 D7,5,AHS	+ 1	+ 2
1801 - 2200	GVMC.1800-4 D7,5,AHS	+ 1	+ 3

4.5

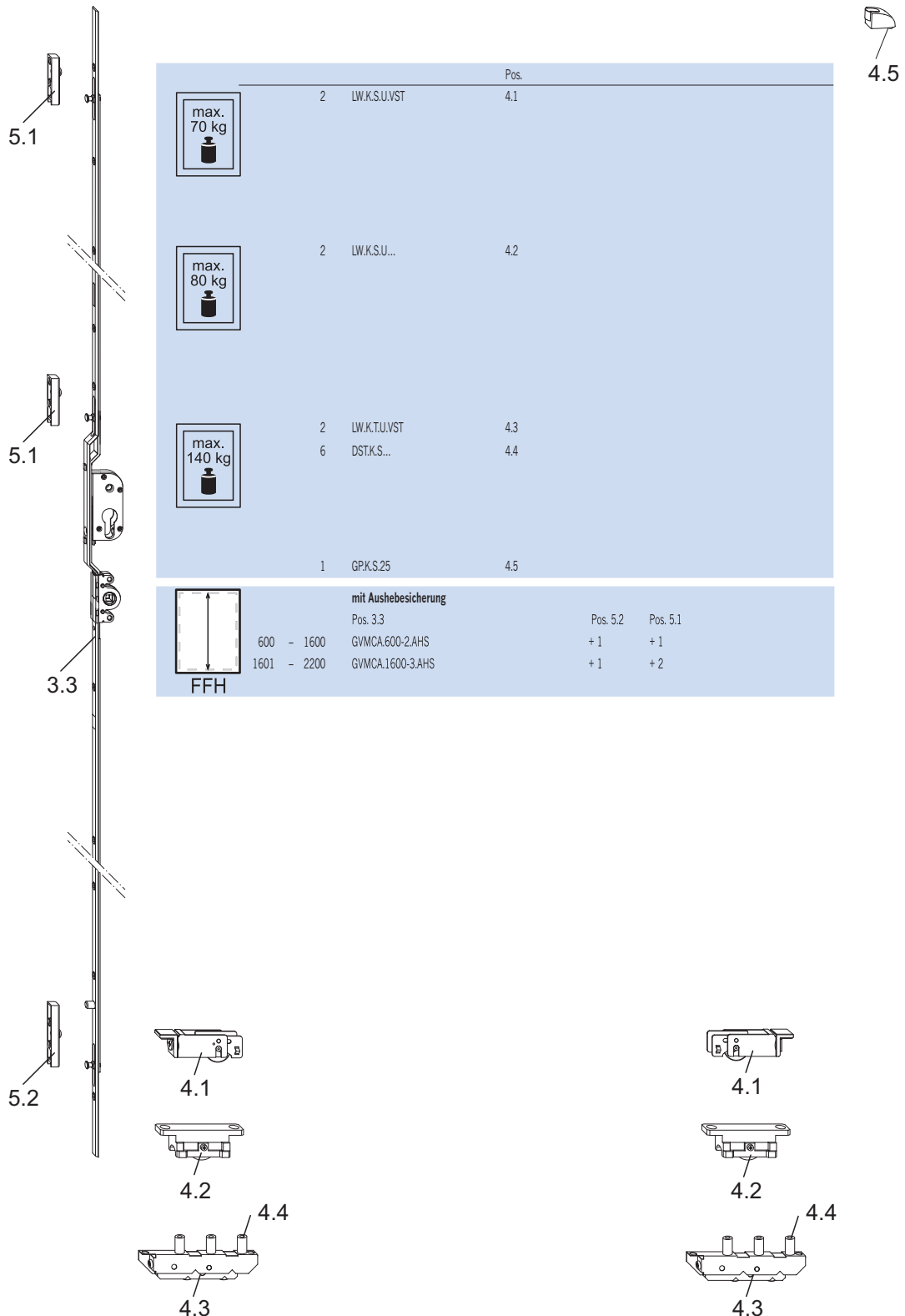


With anti-lift device  
without anti-lift device

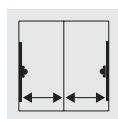
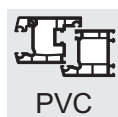
# Sliding window, central handle position, backset 15.5, lockable



2

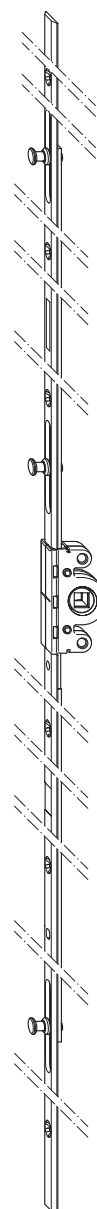



With anti-lift device

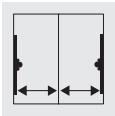
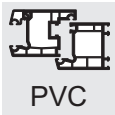


## Drive rod GVMC...D15.5

- With security lock pins
- Central handle position
- Can be used left and right hand
- Backset 15.5 mm
- Faceplate width 16 mm
- Mounted in centre
- Gear case for mounting in drilled hole
- Gear case for milling from rebate
- Fasten the window handle attachment with M5 x ..., DIN 965, 43 mm screw centres
- See Group 7, Installation Drawing B-3-1 for drilling and cut template



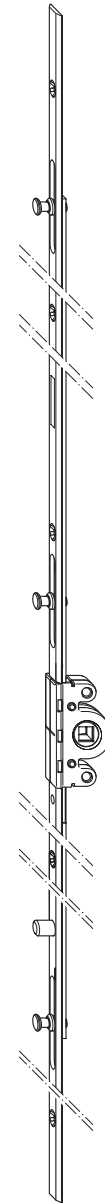
Item description	Item No.	Scope of application		Locking points	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
GVMC.400-2	4932329	FFH 400 - 600	4	2	20 BD	1200 EA	
GVMC.600-2	4932444	FFH 601 - 800	4	2	20 BD	1200 EA	
GVMC.800-2	4932451	FFH 801 - 1000	6	2	20 BD	1200 EA	
GVMC.1000-3	4932452	FFH 1001 - 1200	6	3	20 BD	1200 EA	
GVMC.1200-3	4932453	FFH 1201 - 1400	8	3	20 BD	400 L1	
GVMC.1400-3	4932456	FFH 1401 - 1600	8	3	20 BD	400 L1	
GVMC.1600-3	4932457	FFH 1601 - 1800	10	3	20 BD	400 L1	
GVMC.1800-4	4932458	FFH 1801 - 2000	10	4	10 BD	400 L2	900 EU2
GVMC.2000-4	4932459	FFH 2001 - 2200	12	4	10 BD	400 L2	




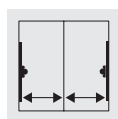
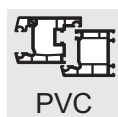
3

## Drive rod GVMC...AHS D15.5

- With anti-lift device
- With security lock pins
- Central handle position
- Can be used left and right hand
- Backset 15.5 mm
- Faceplate width 16 mm
- Mounted in centre
- Gear case for mounting in drilled hole
- Gear case for milling from rebate
- Fasten the window handle attachment with M5 x ..., DIN 965, 43 mm screw centres
- See Group 7, Installation Drawing B-3-1 for drilling and cut template

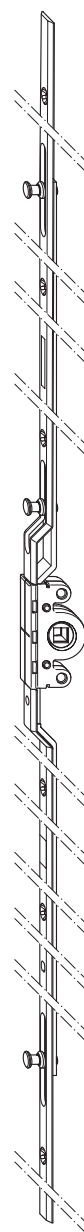



Item description	Item No.	Scope of application		Locking points	VPA1 Qty./Type	VPA2 Qty./Type
GVMC.600-2.AHS	4932479	FFH 600 - 1000	4	2	20 BD	1200 EA
GVMC.1000-3.AHS	4932530	FFH 1001 - 1800	6	3	20 BD	1200 EA
GVMC.1800-4.AHS	4932531	FFH 1801 - 2200	10	4	10 BD	400 L2

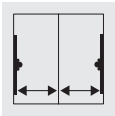
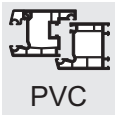


## Drive rod GVMC...D7.5

- With security lock pins
- Central handle position
- Can be used left and right hand
- Backset 7.5 mm
- Faceplate width 16 mm
- Mounted in centre
- Gear case for mounting in drilled hole
- Gear case for milling from rebate
- Fasten the window handle attachment with M5 x ..., DIN 965, 43 mm screw centres
- See Group 7, Installation Drawing B-3-2 for drilling and cut template



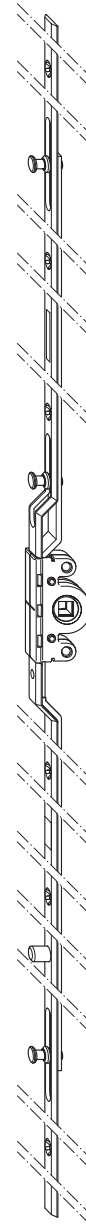
Item description	Item No.	Scope of application		Locking points	VPA1 Qty./Type	VPA2 Qty./Type
GVMC.400-2.D7,5	4965361	FFH 400 - 600	4	2	20 BD	360 EA
GVMC.600-2.D7,5	4965362	FFH 601 - 800	4	2	20 BD	360 EA
GVMC.800-2.D7,5	4965363	FFH 801 - 1000	6	2	20 BD	360 EA
GVMC.1000-3.D7,5	4965364	FFH 1001 - 1200	6	2	20 BD	360 EA
GVMC.1200-3.D7,5	4965365	FFH 1201 - 1400	8	2	20 BD	400 L1
GVMC.1400-3.D7,5	4965366	FFH 1401 - 1600	8	3	20 BD	400 L1
GVMC.1600-3.D7,5	4965367	FFH 1601 - 1800	10	3	20 BD	400 L1
GVMC.1800-4.D7,5	4965368	FFH 1801 - 2000	10	4	10 BD	400 L2
GVMC.2000-4.D7,5	4965369	FFH 2001 - 2200	12	4	10 BD	400 L2




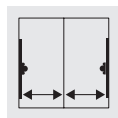
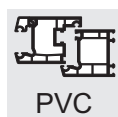
3

## Drive rod GVMC...AHS D7.5

- With anti-lift device
- With security lock pins
- Central handle position
- Can be used left and right hand
- Backset 7.5 mm
- Faceplate width 16 mm
- Mounted in centre
- Gear case for mounting in drilled hole
- Gear case for milling from rebate
- Fasten the window handle attachment with M5 x ..., DIN 965, 43 mm screw centres
- See Group 7, Installation Drawing B-3-2 for drilling and cut template

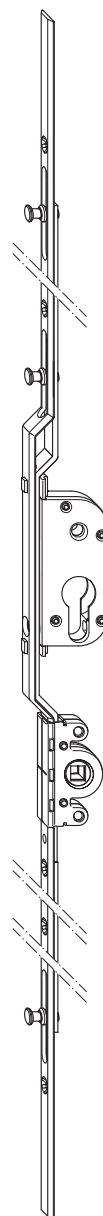



Item description	Item No.	Scope of application		Locking points	VPA1 Qty./Type	VPA2 Qty./Type
GVMC.600-2.D7.5.AHS	4932783	FFH 600 - 1000	4	2	20 BD	360 EA
GVMC.1000-3.D7.5.AHS	4932784	FFH 1001 - 1800	6	3	20 BD	360 EA
GVMC.1800-4.D7.5.AHS	4932785	FFH 1801 - 2200	10	4	10 BD	400 L2

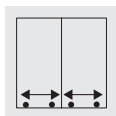
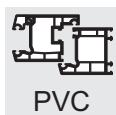


## Drive rod GVMC D15.5, lockable

- Lockable, suitable for sliding window
- With security lock pins
- Central handle position
- Can be used left and right hand
- Backset 15.5 mm
- Faceplate width 16 mm
- Mounted in centre
- Gear case for mounting in drilled hole
- Gear case for milling from rebate
- Fasten the window handle attachment with M5 x ..., DIN 965, 43 mm screw centres
- See Group 7, Installation Drawing B-3-3 for drilling and cut template



Item description	Item No.	Scope of application		Locking points	VPA1 Qty./Type	VPA2 Qty./Type
GVMCA.600-2.D15,5	4932798	FFH 600 - 1600	3	2	10 BD	360 EA
GVMCA.1600-3.D15,5	4932799	FFH 1601 - 2200	10	3	10 BD	200 L1



## 4

## Single Slide Mechanism

### Universal slide mechanism LW.K.S.U

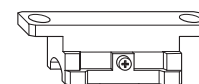
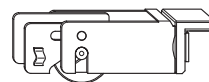
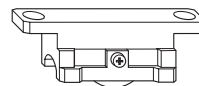
- Premium quality PVC rollers
- Needle roller bearing to ensure smooth operation
- Max. permitted sash weight with 2 slide mechanisms: 80kg
- Without height adjustment


### Slide mechanism LW.K.S.U.VST

- Height adjustment +3 / - 2 mm
- Premium quality PVC rollers
- Needle roller bearing to ensure smooth operation
- max. permitted sash weight with 2 slide mechanisms: 70kg

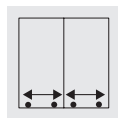
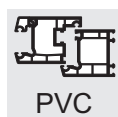
### Slide mechanism LW.K.S.144

- Suitable for the Profine profile system
- Premium quality PVC rollers
- Needle roller bearing to ensure smooth operation
- Max. permitted sash weight with 2 slide mechanisms: 80kg
- Without height adjustment



Item description	Item No.		VPA1 Qty./Type	VPA2 Qty./Type
LW.K.S.U	4935999	1	100 KK	800 EK
LW.K.S.144	4936313	2	100 KK	800 EK
LW.K.S.U.VST	4936316	2	100 KK	800 EK





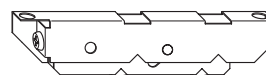
## Tandem Slide Mechanism


### Tandem Slide Mechanism LW.K.T.U.VST

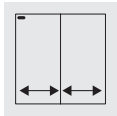
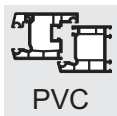
- Premium quality PVC rollers
- Needle roller bearing to ensure smooth operation
- Max. permitted sash weight with 2 slide mechanisms without spacer: 70kg
- Height adjustment +3 / - 2 mm

### SPACER DST.K.S

- 3 spacers are required per slide mechanism
- Max. permitted sash weight with 2 slide mechanisms: 140 kg
- See Group 6, Figure 4 for installation drawing



Item description	Item No.		VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
DST.K.S.144	4936342		3 BL	300 KK	2400 EK
DST.K.S.152	4936338		3 BL	300 KK	2400 EK
DST.K.S.169	4936339		3 BL	300 KK	2400 EK
DST.K.S.52	4936341		3 BL	300 KK	2400 EK
DST.K.S.60	4936340		3 BL	300 KK	2400 EK
DST.K.S.61	4936337		3 BL	300 KK	2400 EK
LW.K.T.U.VST	4936317	2	100 KK	800 EK	




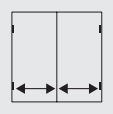
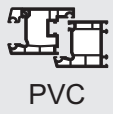
## 4

## Rubber Stopper GP.K.S.25

- Stops the second opening sash
- Installation height 25 mm
- Can be used left and right hand
- No screws visible
- Colours available: WS = white, SL = silver, SC = black
- See Group 6, Figure 4 for installation position



Item description	Item No.		sichtbare Farbe	VPA1 Qty./Type	VPA2 Qty./Type	VPA3 Qty./Type
GP.K.S.25.SC	4936345	1	SC	1 BL	100 KK	800 EK
GP.K.S.25.SL	4936344	1	SC	1 BL	100 KK	800 EK
GP.K.S.25.WS	4936343	1	SC	1 BL	100 KK	800 EK

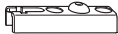


# Keeps without Anti-Lift Device

5

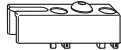
## Keep SBS.K.S.U


- Can be used in any system
- Can be used left and right hand
- Including rubber stopper
- Material: Zinc diecast
- See Group 6, Figure 1, 2 & 3 for installation position

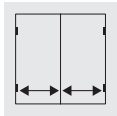
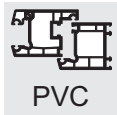


## Keep SBS.K.S.144

- Suitable for the Profine profile system
- Non-handed
- Including rubber stopper
- Material: Zinc diecast
- See Group 6, Figure 1, 2 & 3 for installation position



Item description	Item No.		VPA1 Qty./Type	VPA2 Qty./Type
SBS.K.S.U	4933190	2	800 KK	6400 EK
SBS.K.S.144.RS	4933192	2	400 KK	3200 EK
SBS.K.S.144.LS	4933211	2	400 KK	3200 EK

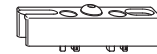


## 5

## Keeps with Anti-Lift Device

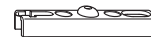
### Keep SBS.K.S.AHS

- Can be used in any system
- Can be used left and right hand
- Including rubber stopper
- Material: Zinc diecast
- Including anti-lift device
- See Group 6, Figure 1, 2 & 3 for installation position



### Keep SBS.K.S.144.AHS

- Suitable for the Profine profile system
- Non-handed
- Including rubber stopper
- Material: Zinc diecast
- Including anti-lift device
- See Group 6, Figure 1, 2 & 3 for installation position



Item description	Item No.		VPA1 Qty./Type	VPA2 Qty./Type
SBS.K.S.144.AHS.LS	4933213	2	400 KK	3200 EK
SBS.K.S.144.AHS.RS	4933212	2	400 KK	3200 EK
SBS.K.S.U.AHS	4933191	2	800 KK	6400 EK

## Mounting of fittings on the window frame

Figures 1 and 3 show the different options for keep positions.  
The number of positions depends on the size of the window.



Note: The dimensions in the drawings are for frame rebate edge to keep profile edge.

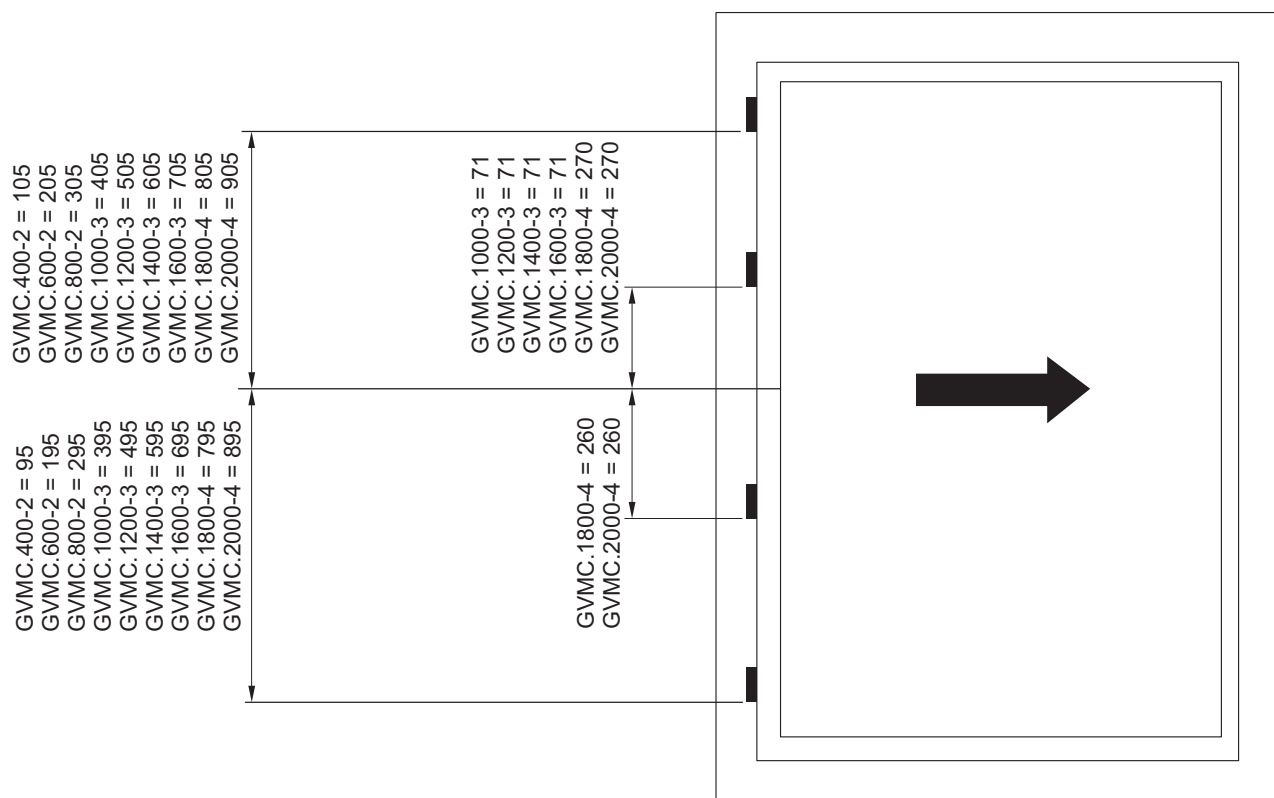


Fig. 1: Keep position "central handle position for D15.5"

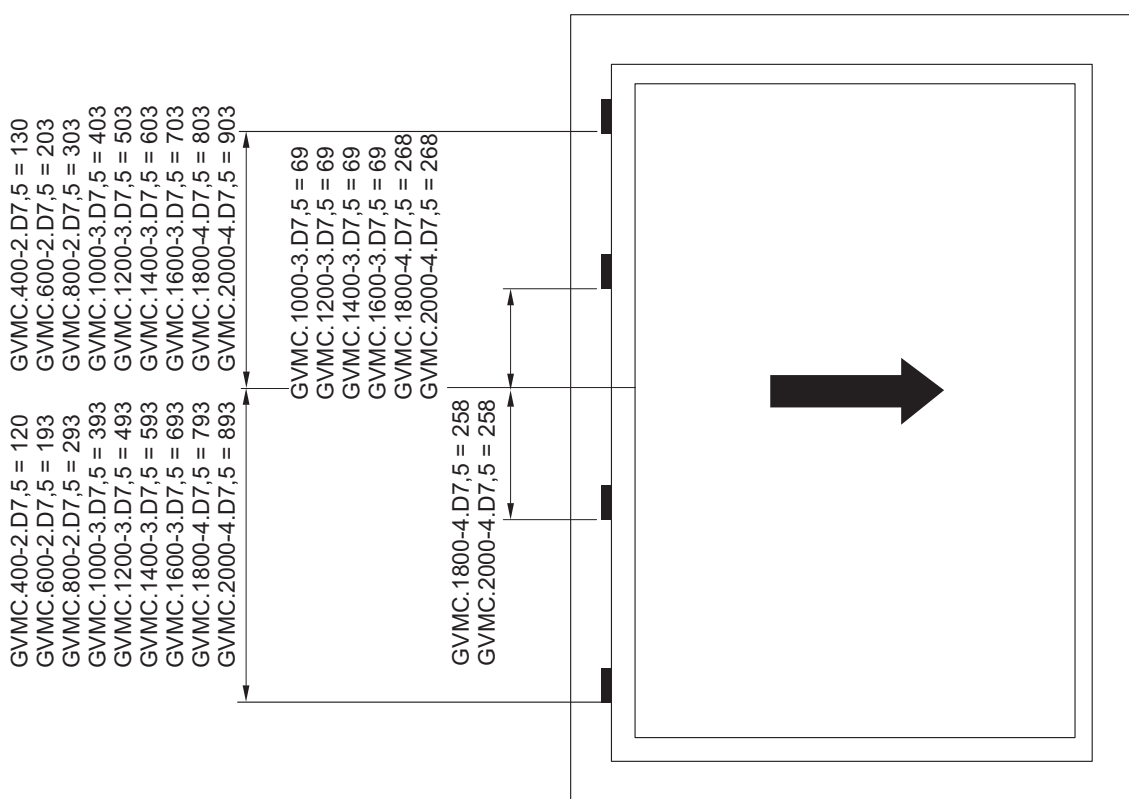


Fig. 2: Keep position "central handle position for D7.5"

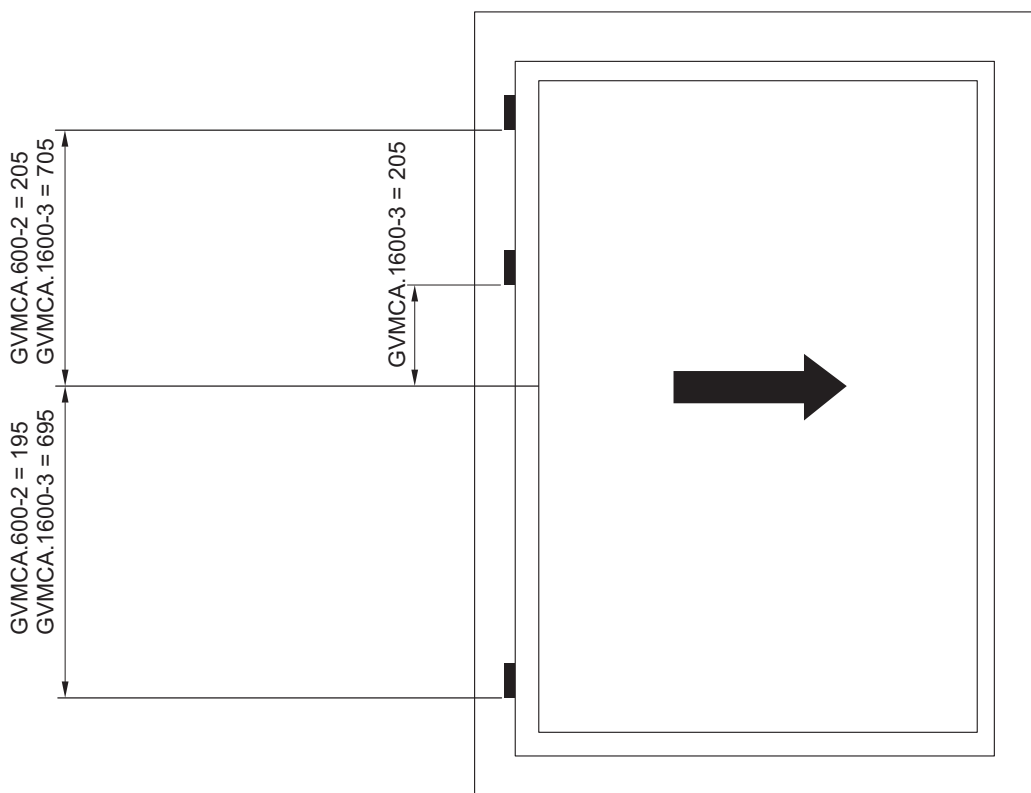


Fig. 3: Keep position "central handle position for D15.5, lockable"

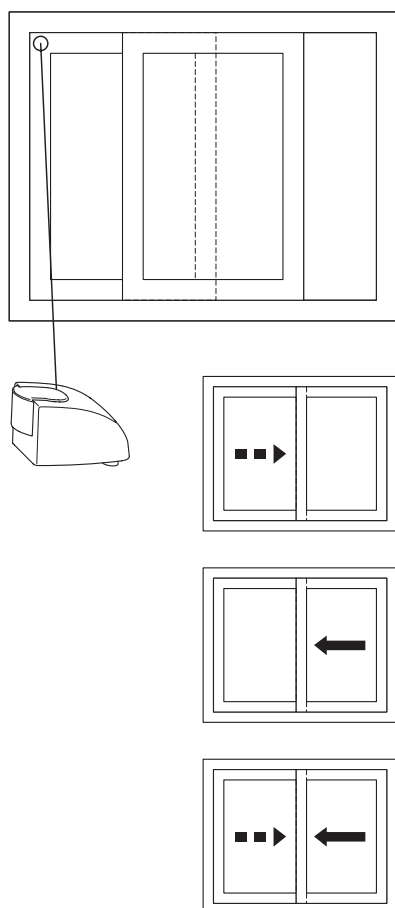
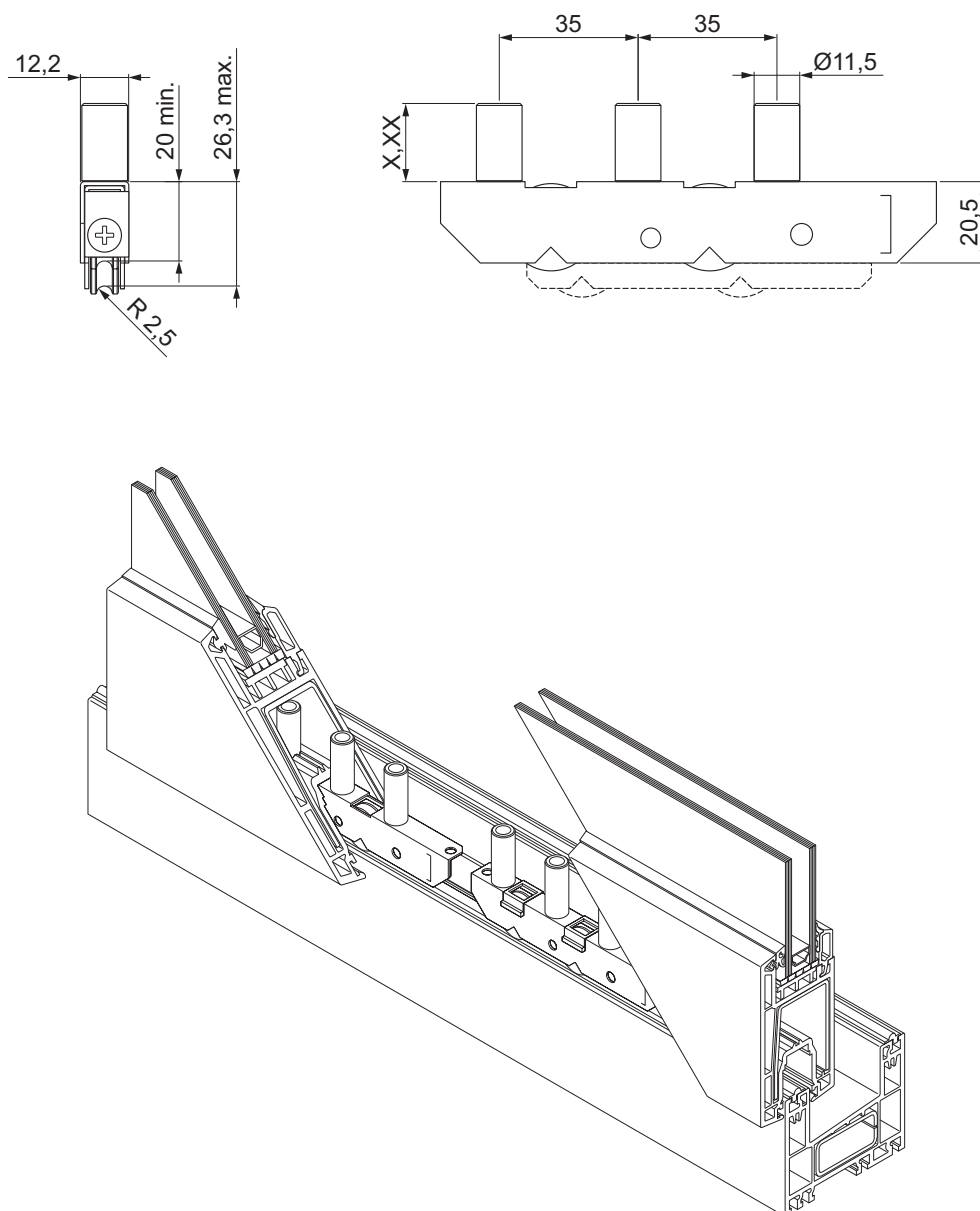


Fig. 4: Mounting position for rubber stopper

We recommend mounting the slide mechanism near the glazing setting block. In order to ensure the weight of the glass in the sliding section is optimally transferred into the slide mechanism and the guide track, DST.K.S Spacers should be inserted into the Tandem Slide Mechanism LW.K.T.U.VST. The hole positions should be transferred to the window sash in accordance with the installation drawing. A drill (bit size 12 mm) should be used to drill the holes for the spacers. When inserting the spacer sleeves onto the slide mechanism in the designated holes, ensure the spacer sleeves are held in place by the steel reinforcement.

Height x (in mm)	Manufacturer	Series	Code for spacer
16,5	Aluplast	S/80	DST.K.S.61
22,1	Veka Latina	Softline C R-73	DST.K.S.152
23,2	Kömmerling	Premiline	DST.K.S.169
23,2	Deceuninck	Premiline	DST.K.S.169
24	Rehau	S/80	DST.K.S.60
26	Metales Extruidos	Makro	DST.K.S.52
26	Tecnocom	Makro	DST.K.S.52
26	Veka Latina	Ekosol H-89	DST.K.S.52
28,8	Kömmerling	SF2	DST.K.S.144

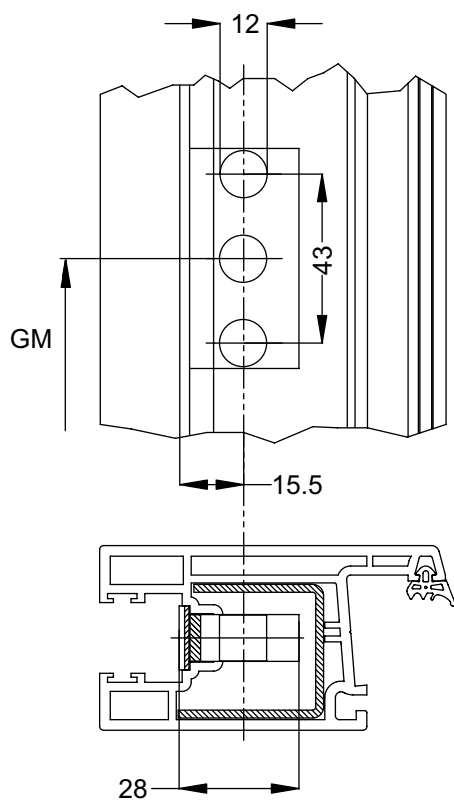
Fig. 4: Tandem Slide Mechanism with height adjustment (+3 / - 2 mm)



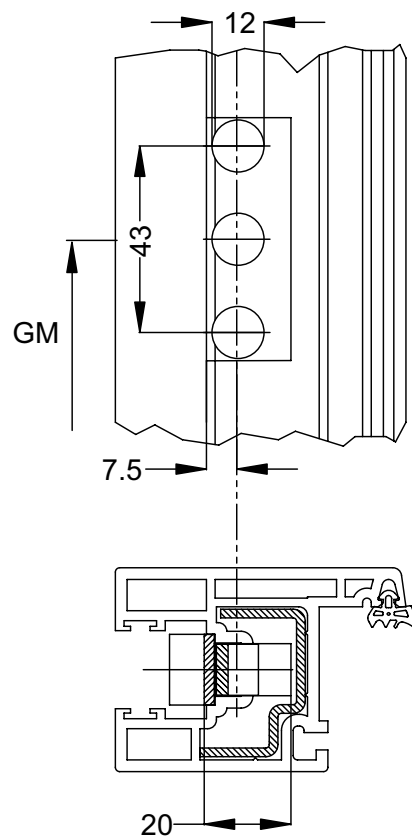


# Installation drawings

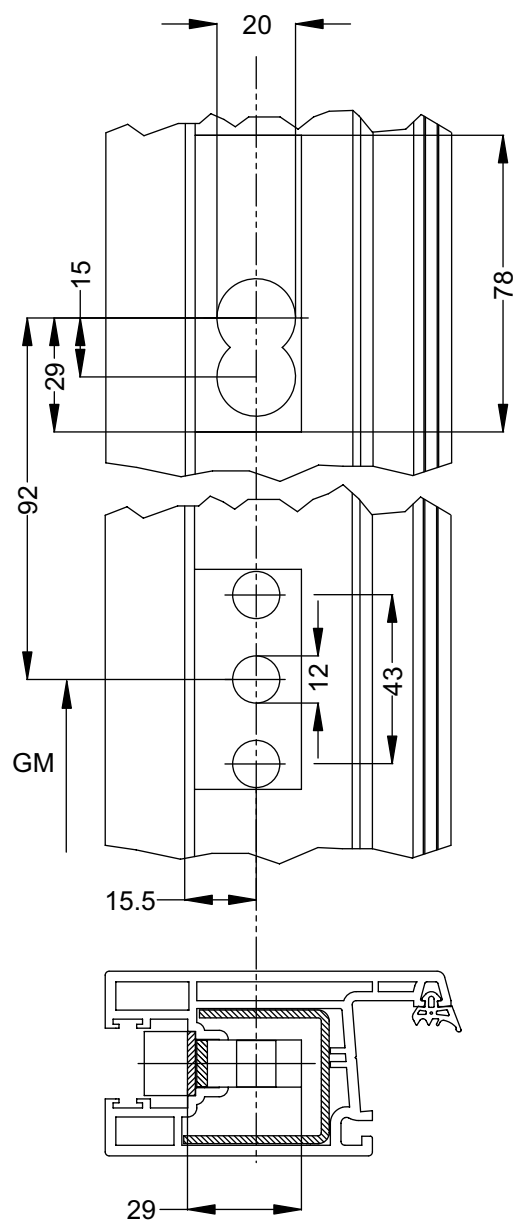
## Drive rods



B-3-1: Drilling and cut template GVMC ... D = 15.5 mm



B-3-2: Drilling and cut template GVMC ... D = 7.5 mm



B-3-3: Drilling and cut template GVMC ... D = 15.5 mm, lockable



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