

duoPort S

The slide fitting.



1

2

3

4

5

6

7

Table of contents

General product information	
Page 4 8	
Overview of Fittings	
Page 9 11	
Drive rods	
Page 12 16	
Bogies/Rubber Stoppers	
Page 17 19	
Frame keeps	
Page 20 21	
Mounting instructions	
Page 22 24	
Installation drawings	
Page 25 27	

General product information	1
Overview of Fittings	2
Drive rods	3
Bogies Rubber Stoppers	4
Frame keeps	5
Mounting instructions	6
Installation drawings	7

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 150 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's 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's long tradition in high quality products.

Your partner for service

Our services are reliable, solution-oriented and adapted precisely to your needs, all of which is exactly what you would expect from a partner. We are at your disposal whenever you need us. With application engineers on site, professional help from our product data service and innovative software solutions to help optimise your workflows, we ensure you are able to work as you require and also broaden your professional service capabilities. What's more, our comprehensive product information system and sophisticated logistics guarantee fast delivery any time you need it.

Product liability

To ensure compliance with the German Product Liability Law (Article 4 ProdHaftG), please observe our manufacturer's information on tilt and turn fittings for windows and glazed doors. Failure to observe releases the manufacturer from any liability. Please consult your Winkhaus advisor for "General Product Information".

Range

The fitting as a whole must be assembled using original Winkhaus duoPort fitting components only. Winkhaus accepts no liability if non-original or unauthorised system accessory parts are used.

The instructions for handling the profile system should also be taken into account when installing the fitting.

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

When used with tandem bogie:

- min. sash rebate width 285 mm

When used with single bogie:

- min. sash rebate width 150mm

General product
information **1**Overview of
Fittings **2**Drive rods **3**Bogies
Rubber Stoppers **4**Frame keeps **5**Mounting
instructions **6**Installation
drawings **7**

CERTIFICATE



The AGQS Qualitäts- und Umweltmanagement GmbH hereby certifies, that the company

Aug. Winkhaus GmbH & Co. KG
August-Winkhaus-Straße 31
D-48291 Telgte

for the scope

development, production and sales of
fittings for windows and French doors as well as
safety door locking devices and locking systems
at the sites

Aug. Winkhaus GmbH & Co. KG, August-Winkhaus-Straße 31,
D-48291 Telgte,

Aug. Winkhaus GmbH & Co. KG, Berkeser Straße 6,
D-98617 Meiningen,

Winkhaus Polska Sp. z o. o., ul. Przemysłowa 1,
PL-64-130 Rydzyna,

has implemented and maintains a quality management system.
An audit, documented in a report, has verified that this
management system fulfills the requirements of the following
standard:

DIN EN ISO 9001:2008

[Signature]
Remscheid, 2009-10-09



QMS-TGA-ZM-01-93-00

Audit	QM-166-R40
Certificate	QM-166-98-04
Validity	2012-09-17
1st certification	1998-02-20

AGQS Qualitäts- und
Umweltmanagement GmbH
Elberfelder Straße 77
D-42853 Remscheid

Telefon +49 2191 438 24
Telefax +49 2191 438 26
www.agqs.de
email@agqs.de

You will find further certificates and current versions on the Internet at www.winkhaus.de
under service / downloads.

Further products



activPilot Concept

The turn-tilt fitting 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

Closing 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.



activPilot Select

The new fully concealed turn-tilt fitting.

The fitting system features fully concealed shear, top hinge and corner brackets 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

The fitting for turn-tilt windows.

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



duoPort SK

The slide-tilt fitting.

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.



autoPilot Comfort

The turn-tilt fitting 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.

General product
information **1**

Overview of
Fittings **2**

Drive rods **3**

Bogies
Rubber Stoppers **4**

Frame keeps **5**

Mounting
instructions **6**

Installation
drawings **7**

Glossary

Code

D

DST.K.S Spacer, plastic, sliding window

G

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

L

LW.K.S.U Bogie, plastic, single, universal

LW.K.S.U.VST Bogie, plastic, single, universal, adjustable

LW.K.T.U.VST Bogie, plastic, tandem, universal, adjustable

LW.K.T.144 Bogie, plastic, single, universal, Profine profile system

S

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

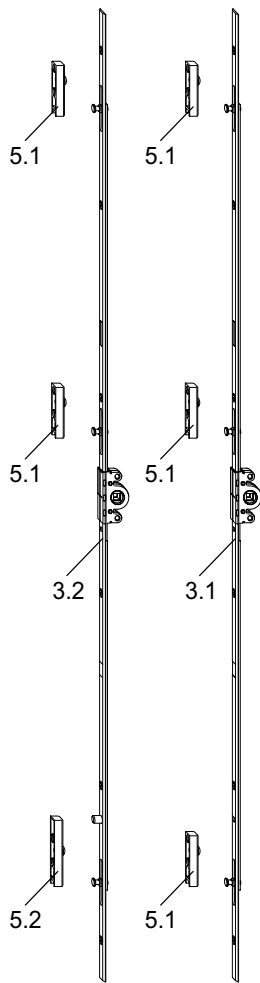
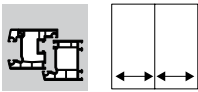
SBS.K.S....LS Keep, security, plastic, sliding window, left-hand

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

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
---	----------	-----

without anti-lift device

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

FFH

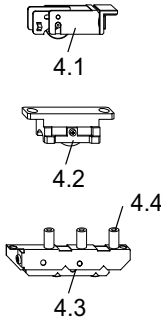
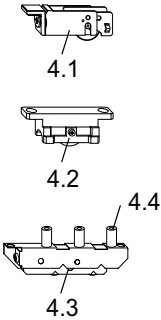
with anti-lift device

Pos. 3.2

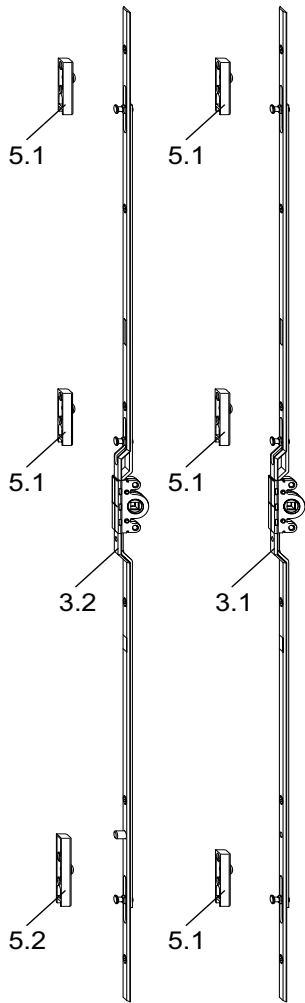
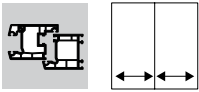
Pos. 5.2

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



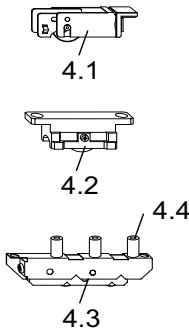
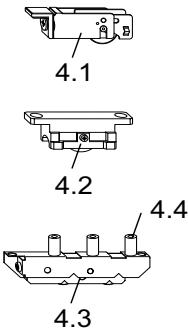
Sliding window, central handle position, backset 7.5 with and without anti-lift device



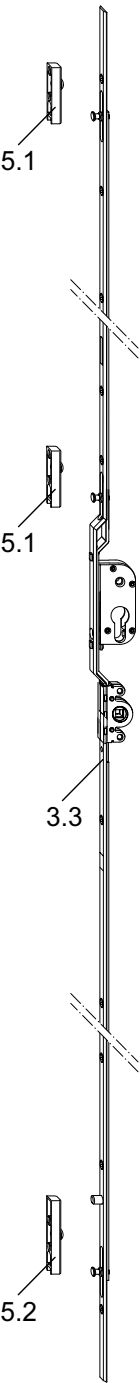
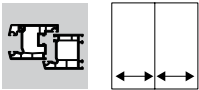
		Pos.
	2 LW.K.S.U.VST	4.1
	2 LW.K.S.U...	4.2
	2 LW.K.T.U.VST 6 DST.K.S...	4.3 4.4
	1 GPK.S.25	4.5

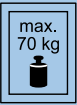
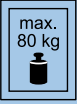
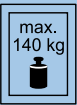
without anti-lift device			
	Pos. 3.1	Pos. 5.1	
400 - 600	GVMC.400-2.D7,5	+ 2	
601 - 800	GVMC.600-2.D7,5	+ 2	
801 - 1000	GVMC.800-2.D7,5	+ 2	
1001 - 1200	GVMC.1000-3.D7,5	+ 3	
1201 - 1400	GVMC.1200-3.D7,5	+ 3	
1401 - 1600	GVMC.1400-3.D7,5	+ 3	
1601 - 1800	GVMC.1600-3.D7,5	+ 3	
1801 - 2000	GVMC.1800-4.D7,5	+ 4	
2001 - 2200	GVMC.2000-4.D7,5	+ 4	

with anti-lift device			
	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



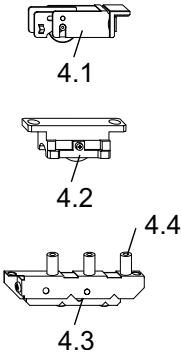
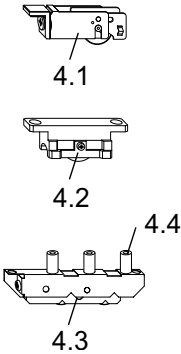
Sliding window, central handle position, backset 15.5, lockable with anti-lift device



			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	GP.K.S.25	4.5

		with anti-lift device	Pos. 3.3	Pos. 5.2	Pos. 5.1
	600 - 1600	GVMCA.600-2AHS	+1	+1	
	1601 - 2200	GVMCA.1600-3AHS	+1	+2	

FFH



General product information 1

Overview of Fittings 2

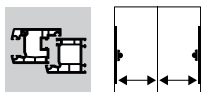
Drive rods 3

Bogies Rubber Stoppers 4

Frame keeps 5

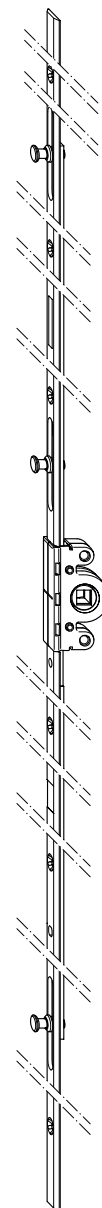
Mounting instructions 6

Installation drawings 7

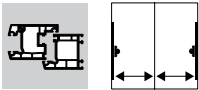


Drive rod GVMC...D15.5

- With security lock pins
- Central handle position
- Useable left and right hand
- Backset 15.5 mm
- 16 mm faceplate
- 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



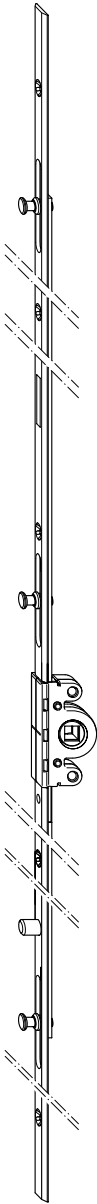
Article description	Article No.	Scope of application		Locking points	VPA1 Qty.	Type	VPA2 Qty.	Type
GVMC.400-2	4932329	FFH 400 - 600	4	2	20	BD	1200	EA
GVMC.600-2	4932444	FFH 601 - 800	4	2	20	BD	1200	EA
GVMC.800-2	4932451	FFH 801 - 1000	6	2	20	BD	1200	EA
GVMC.1000-3	4932452	FFH 1001 - 1200	6	3	20	BD	1200	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
GVMC.2000-4	4932459	FFH 2001 - 2200	12	4	10	BD	400	L2



Drive rod GVMC...AHS

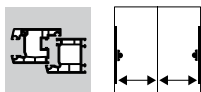
D15.5

- With anti-lift device
- With security lock pins
- Central handle position
- Useable left and right hand
- Backset 15.5 mm
- 16 mm faceplate
- 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



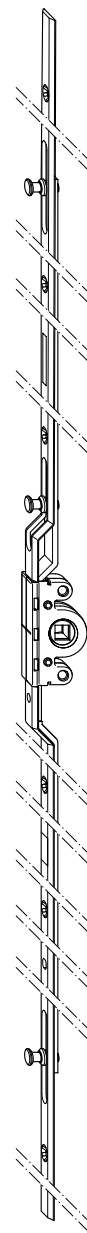
Article description	Article No.	Scope of application		Locking points	VPA1 Qty.	Type	VPA2 Qty.	Type
GVMC.600-2.AHS	4932479	FFH 600 - 1000	4	2	20	BD	1200	EA
GVMC.1000-3.AHS	4932530	FFH 1001 - 1800	6	3	20	BD	1200	EA
GVMC.1800-4.AHS	4932531	FFH 1801 - 2200	10	4	10	BD	400	L2

General product information	1
Overview of Fittings	2
Drive rods	3
Bogies Rubber Stoppers	4
Frame keeps	5
Mounting instructions	6
Installation drawings	7

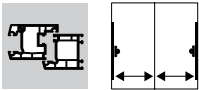


Drive rod GVMC...D7.5

- With security lock pins
- Central handle position
- Useable left and right hand
- Backset 7.5 mm
- 16 mm faceplate
- 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

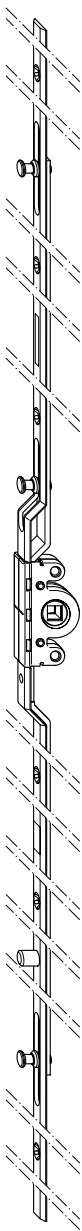


Article description	Article No.	Scope of application		Locking points	VPA1 Qty.	Type	VPA2 Qty.	Type
GVMC.400-2.D7.5	4932748	FFH 400 - 600	4	2	20	BD	1200	EA
GVMC.600-2.D7.5	4932749	FFH 601 - 800	4	2	20	BD	1200	EA
GVMC.800-2.D7.5	4932750	FFH 801 - 1000	6	2	20	BD	1200	EA
GVMC.1000-3.D7.5	4932751	FFH 1001 - 1200	6	2	20	BD	1200	EA
GVMC.1200-3.D7.5	4932752	FFH 1201 - 1400	8	2	20	BD	400	L1
GVMC.1400-3.D7.5	4932753	FFH 1401 - 1600	8	3	20	BD	400	L1
GVMC.1600-3.D7.5	4932754	FFH 1601 - 1800	10	3	20	BD	400	L1
GVMC.1800-4.D7.5	4932755	FFH 1801 - 2000	10	4	10	BD	400	L2
GVMC.2000-4.D7.5	4932756	FFH 2001 - 2200	12	4	10	BD	400	L2



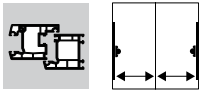
Drive rod GVMC...AHS D7.5

- With anti-lift device
- With security lock pins
- Central handle position
- Useable left and right hand
- Backset 7.5 mm
- 16 mm faceplate
- 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



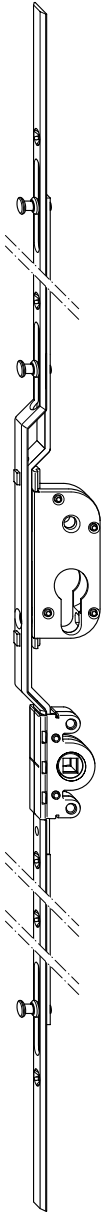
Article description	Article No.	Scope of application		Locking points	VPA1 Qty.	Type	VPA2 Qty.	Type
GVMC.600-2 D7,5.AHS	4932783	FFH 600 - 1000	4	2	20	BD	1200	EA
GVMC.1000-3 D7,5.AHS	4932784	FFH 1001 - 1800	6	3	20	BD	1200	EA
GVMC.1800-4 D7,5.AHS	4932785	FFH 1801 - 2200	10	4	10	BD	400	L2

General product information	1
Overview of Fittings	2
Drive rods	3
Bogies Rubber Stoppers	4
Frame keeps	5
Mounting instructions	6
Installation drawings	7

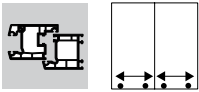


Drive rod GVMC D15.5, lockable

- Lockable, suitable for sliding window
- With security lock pins
- Central handle position
- Useable left and right hand
- Backset 15.5 mm
- 16 mm faceplate
- 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



Article description	Article 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	1200	EA
GVMCA.1600-3.D15.5	4932799	FFH 1601 - 2200	10	3	10	BD	400	L1



Single Bogie

Universal bogie LW.K.S.U

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

Bogie LW.K.S.144

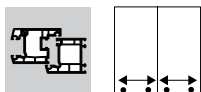
- Suitable for the Profine profile system
- Premium quality PVC rollers
- Needle roller bearing to ensure smooth operation
- Max. permitted sash weight with 2 bogies: 80kg
- Without height adjustment

Bogie LW.K.S.U.VST

- Height adjustment +3.0 /- 2.0 mm
- Premium quality PVC rollers
- Needle roller bearing to ensure smooth operation
- Max. permitted sash weight with 2 bogies: 70kg

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

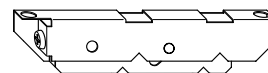
General product information	1
Overview of Fittings	2
Drive rods	3
Bogies Rubber Stoppers	4
Frame keeps	5
Mounting instructions	6
Installation drawings	7



Tandem Bogie

Tandem Bogie LW.K.T.U.VST

- Premium quality PVC rollers
- Needle roller bearing to ensure smooth operation
- Max. permitted sash weight with 2 bogies without spacer: 70kg
- Height adjustment +3.0 /- 2.0 mm



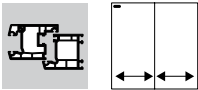
SPACER DST.K.S

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



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

Article description	Article 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	800	EK	800	EK		



Rubber Stopper GP.K.S.25

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



General product information 1

Overview of Fittings 2

Drive rods 3

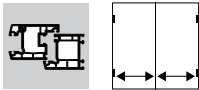
Bogies Rubber Stoppers 4

Frame keeps 5

Mounting instructions 6

Installation drawings 7

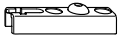
Article description	Article No.		sichtbare Farbe	VPA1 Qty.	Type	VPA2 Qty.	Type	VPA3 Qty.	Type
GP.K.S.25.SC	4936345	1	SC	1	BL	100	KK	800	EK
GP.K.S.25.SL	4936344	1	SC	1	BL	100	KK	800	EK
GP.K.S.25.WS	4936343	1	SC	1	BL	100	KK	800	EK



Keeps without Anti-Lift Device

Keep SBS.K.S.U

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

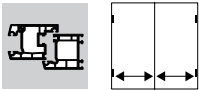


Keep SBS.K.S.144

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



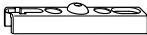
Article description	Article No.		VPA1 Qty.	Type	VPA2 Qty.	Type
SBS.K.U	4933190	2	6400	EK	6400	EK
SBS.K.S.144.RS	4933192	2	3200	EK	6400	EK
SBS.K.S.144.LS	4933211	2	3200	EK	6400	EK



Keeps with Anti-Lift Device

Keep SBS.K.S.AHS

- Can be used in any system
- Useable 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



Article description	Article No.		VPA1 Qty.	Type	VPA2 Qty.	Type
SBS.K.S.144.AHS.LS	4933213	2	3200	EK	6400	EK
SBS.K.S.144.AHS.RS	4933212	2	3200	EK	6400	EK
SBS.K.U.AHS	4933191	2	6400	EK	6400	EK

General product information	1
Overview of Fittings	2
Drive rods	3
Bogies Rubber Stoppers	4
Frame keeps	5
Mounting instructions	6
Installation drawings	7

Mounting of fittings on the window frame



We recommend mounting the bogie near the glazing setting block

In order to ensure the weight of the glass in the sliding section is optimally transferred into the bogie and the guide track, DST.K.S Spacers should be inserted into the Tandem Bogie 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 bogie 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 CR-73	DST.K.S.152
23,2	Kömmering	Premiline	DST.K.S.169
23,2	Deceuninck		DST.K.S.169
24	Rehau	S/80	DST.K.S.60
26	Metales Extruidos	Makro	DST.K.S.52
26	Tecnocom		DST.K.S.52
26	Veka Latina	Ekosol H-89	DST.K.S.52
28,8	Kömmering	SF2	DST.K.S.144

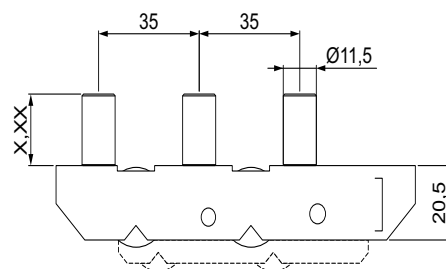
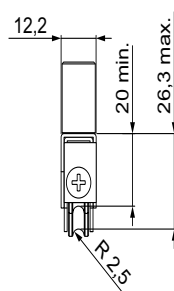
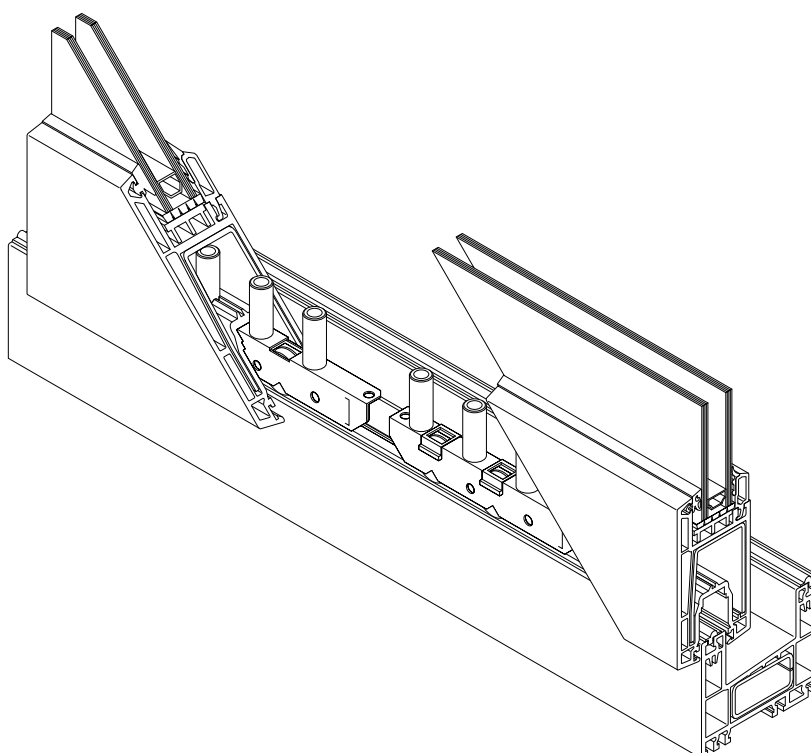


Fig. 4: Tandem bogie with height adjustment (+3.0 / - 2.0 mm)



Mounting of fittings on the window frame



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

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

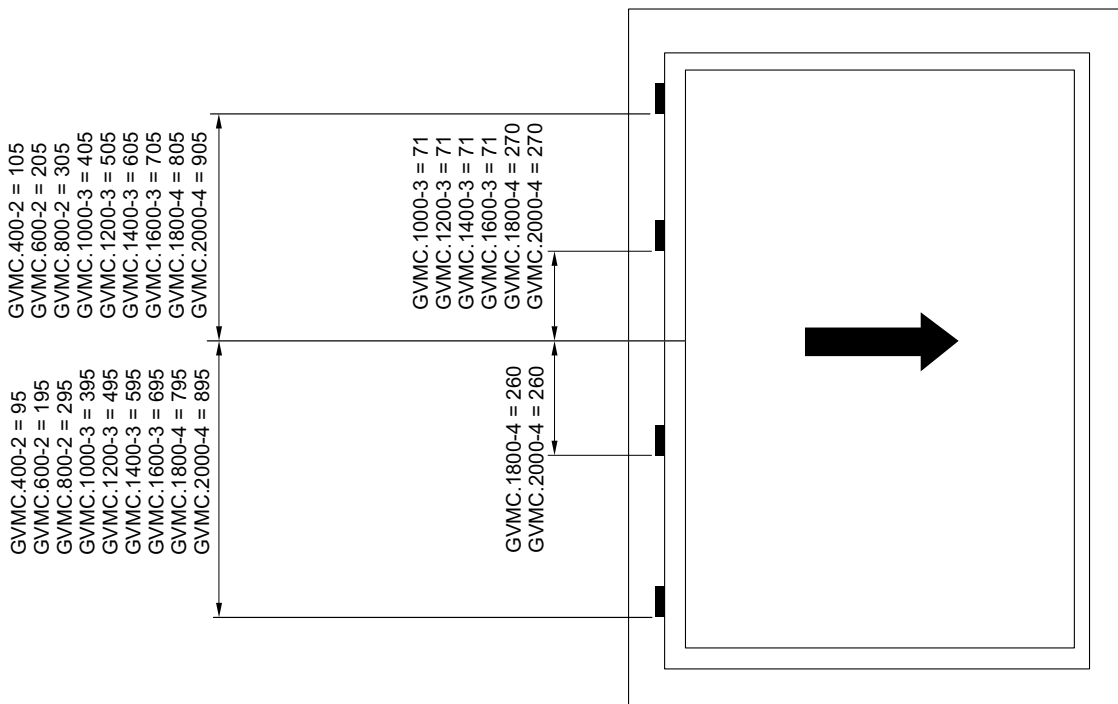


Fig. 1: Keep position "central handle position for D15.5"

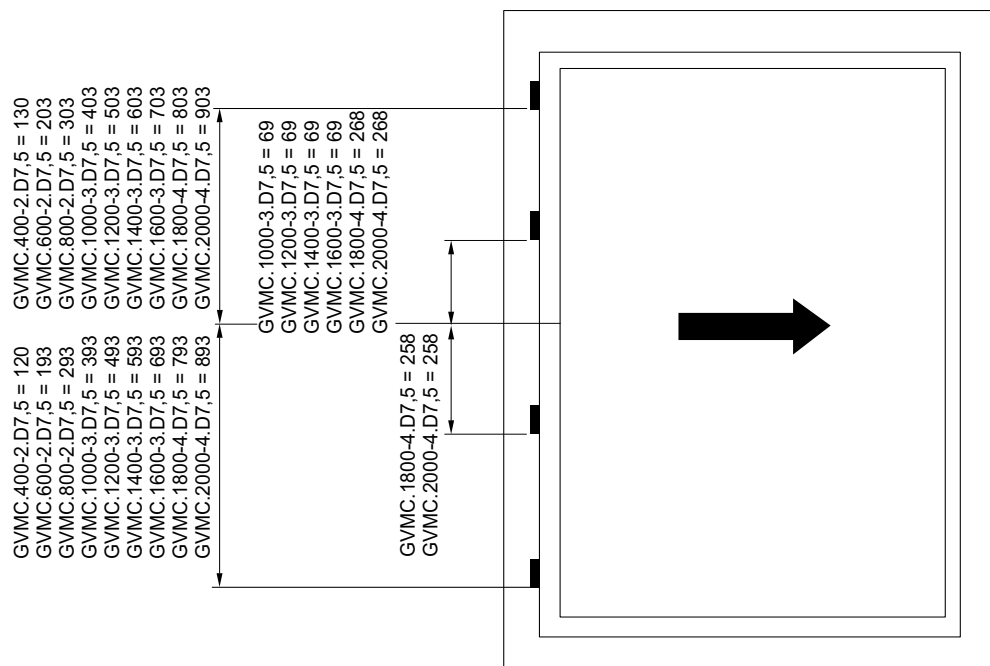


Fig. 2: Keep position "central handle position D7.5"

Mounting of fittings on the window frame

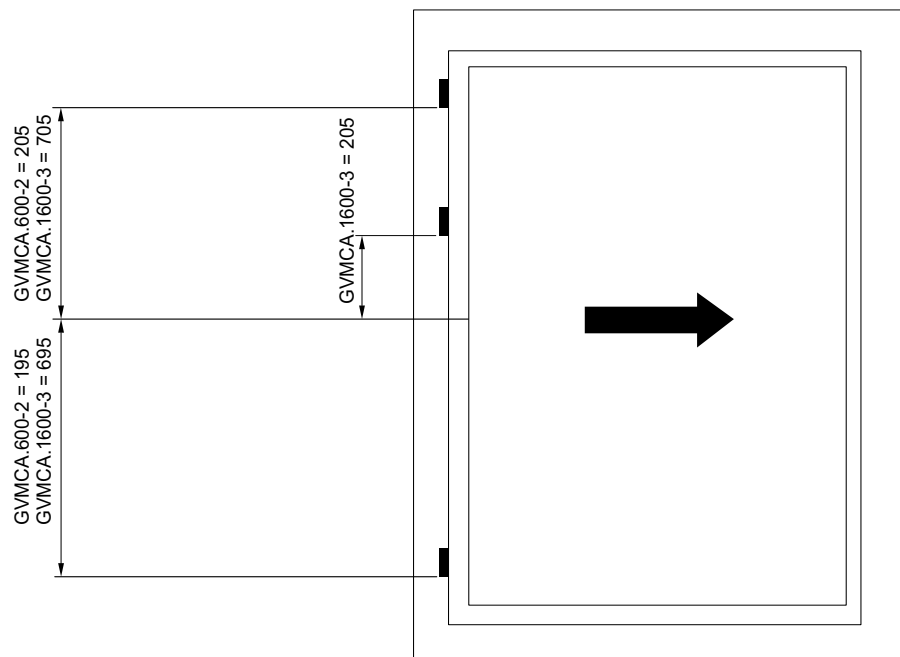
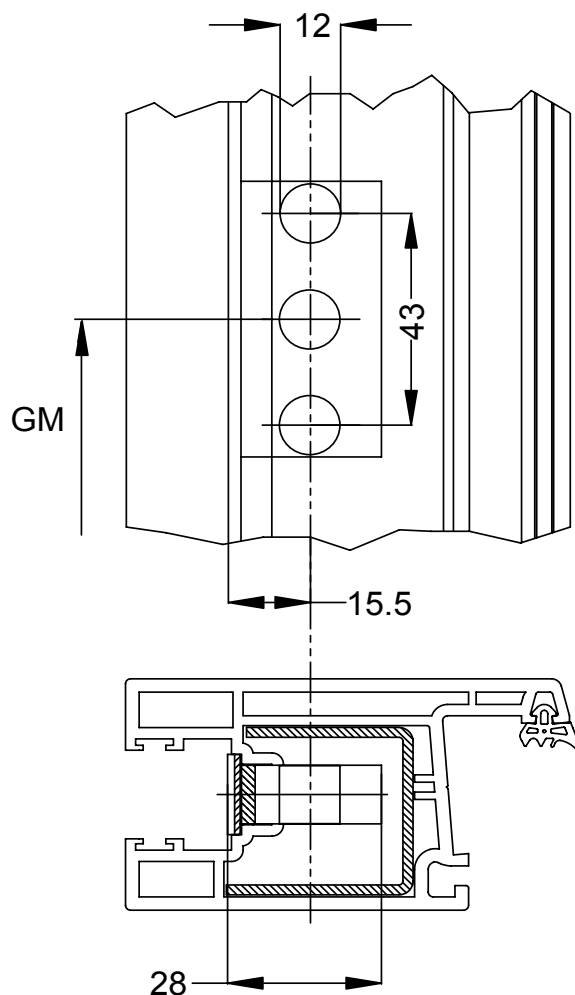


Fig. 3: Keep position "central handle position for D15.5, lockable"

Installation drawings

Drive rods



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

General product
information **1**

Overview of
Fittings **2**

Drive rods **3**

Bogies
Rubber Stoppers **4**

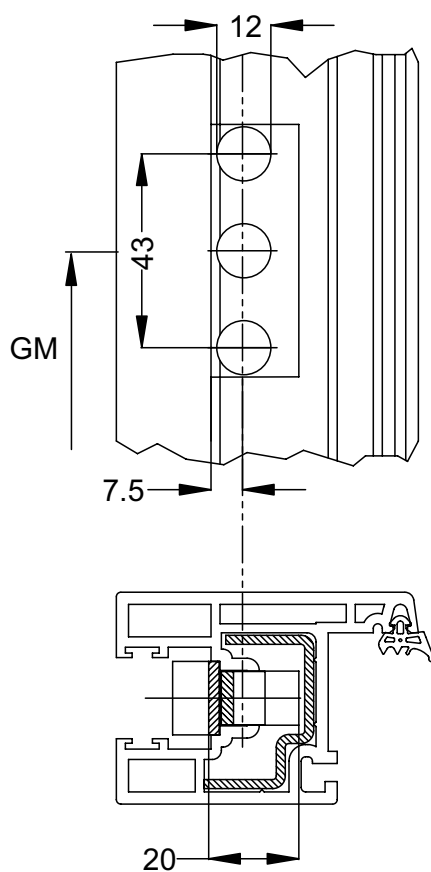
Frame keeps **5**

Mounting
instructions **6**

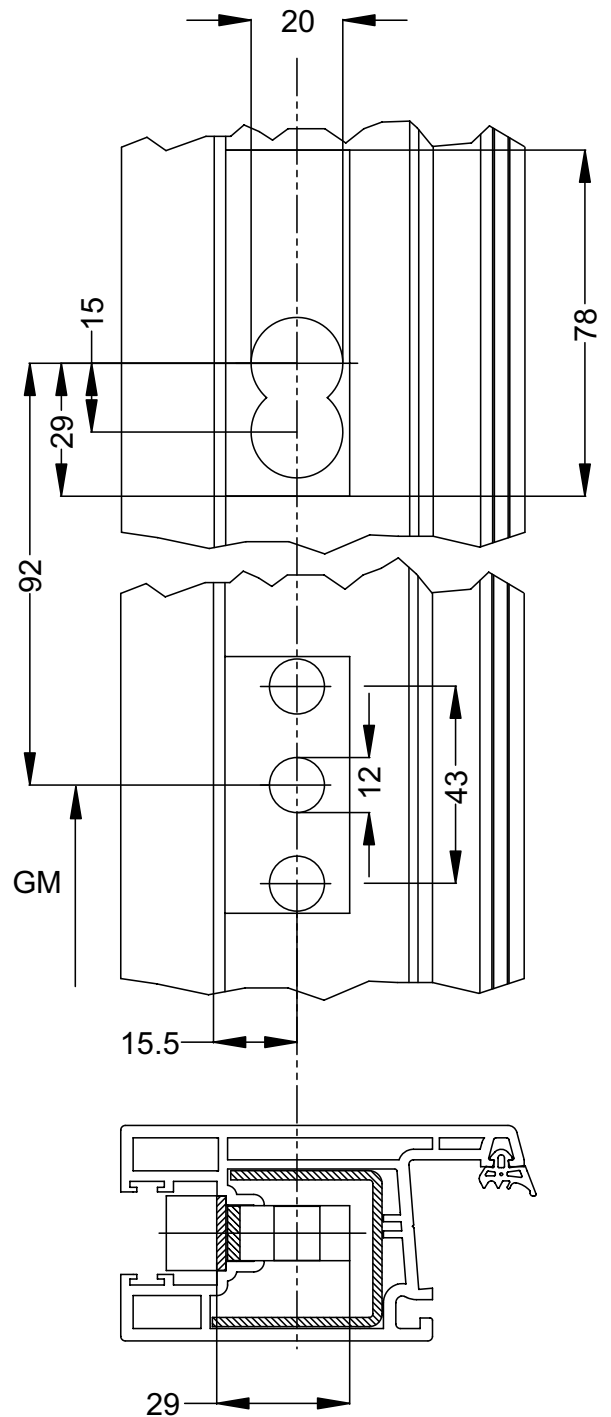
Installation
drawings **7**

Installation drawings

Drive rods



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

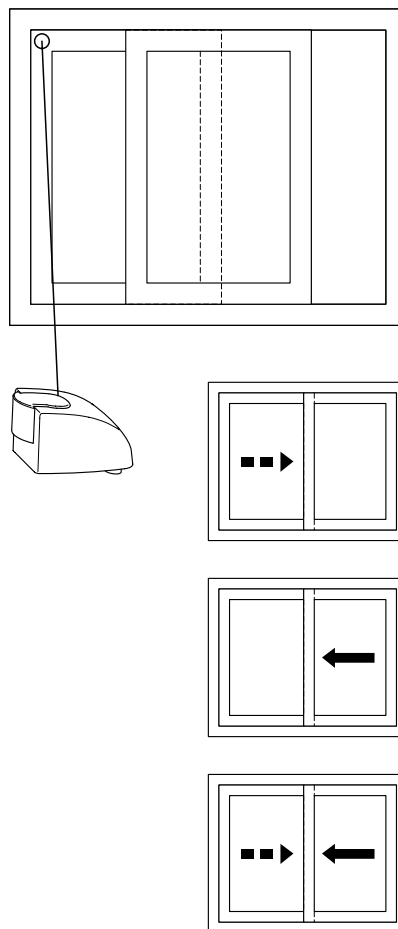


Fig. 4: Mounting position for rubber stopper

General product
information

1

Overview of
Fittings

2

Drive rods

3

Bogies
Rubber Stoppers

4

Frame keeps

5

Mounting
instructions

6

Installation
drawings

7

Aug. Winkhaus GmbH & Co. KG.

August-Winkhaus-Straße 31
D-48291 Telgte
T +49 (0) 25 04-921-0
F +49 (0) 25 04-921-340

www.winkhaus.de
fenstertechnik@winkhaus.de

