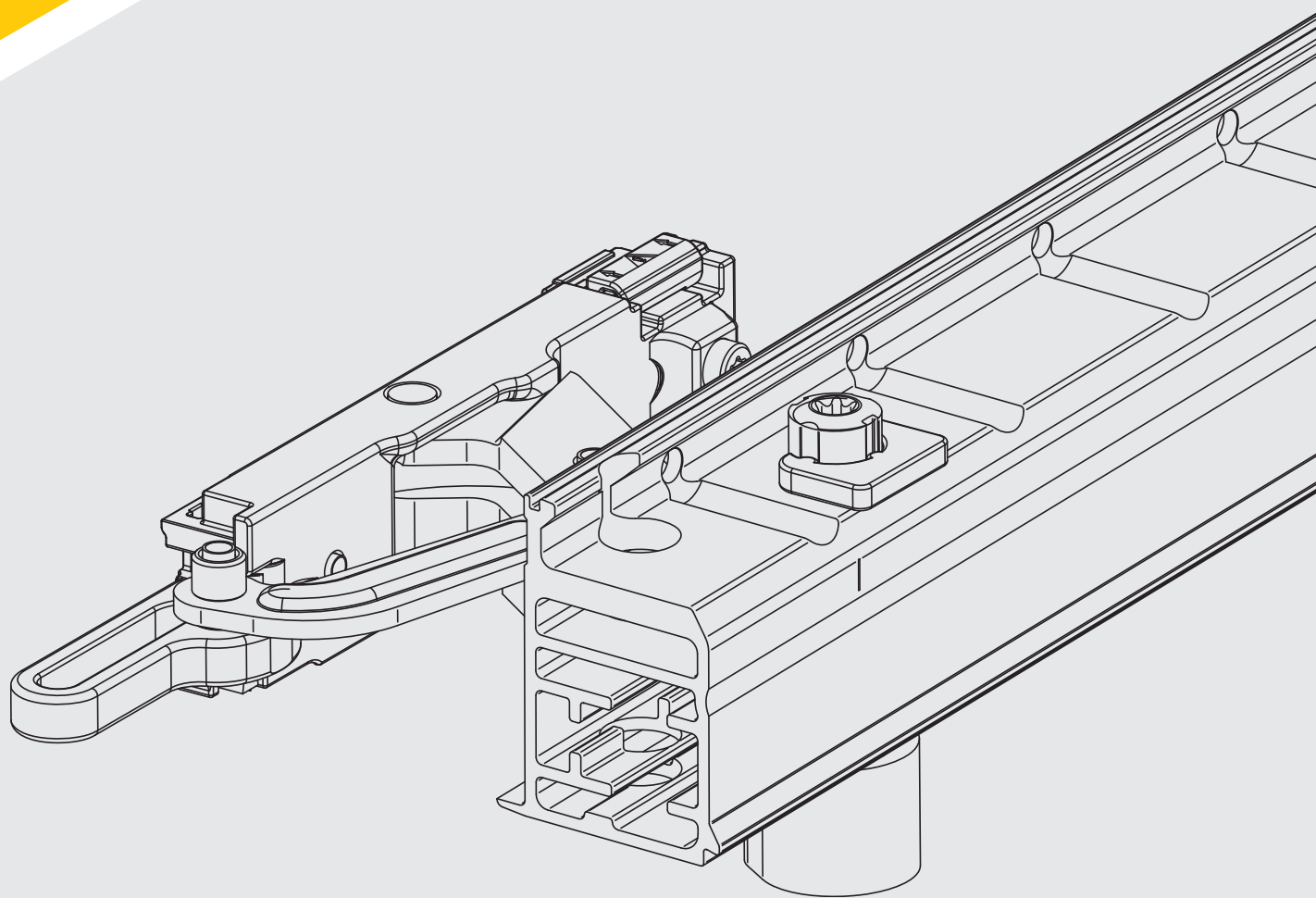


ATRIUM® Alu-HKS

tilt and slide



Tilt and Slide Fittings

ATRIUM Alu-HKS® 200

Version 07/2021

**You will find the latest catalogue version online
on www.HAUTAU.de**

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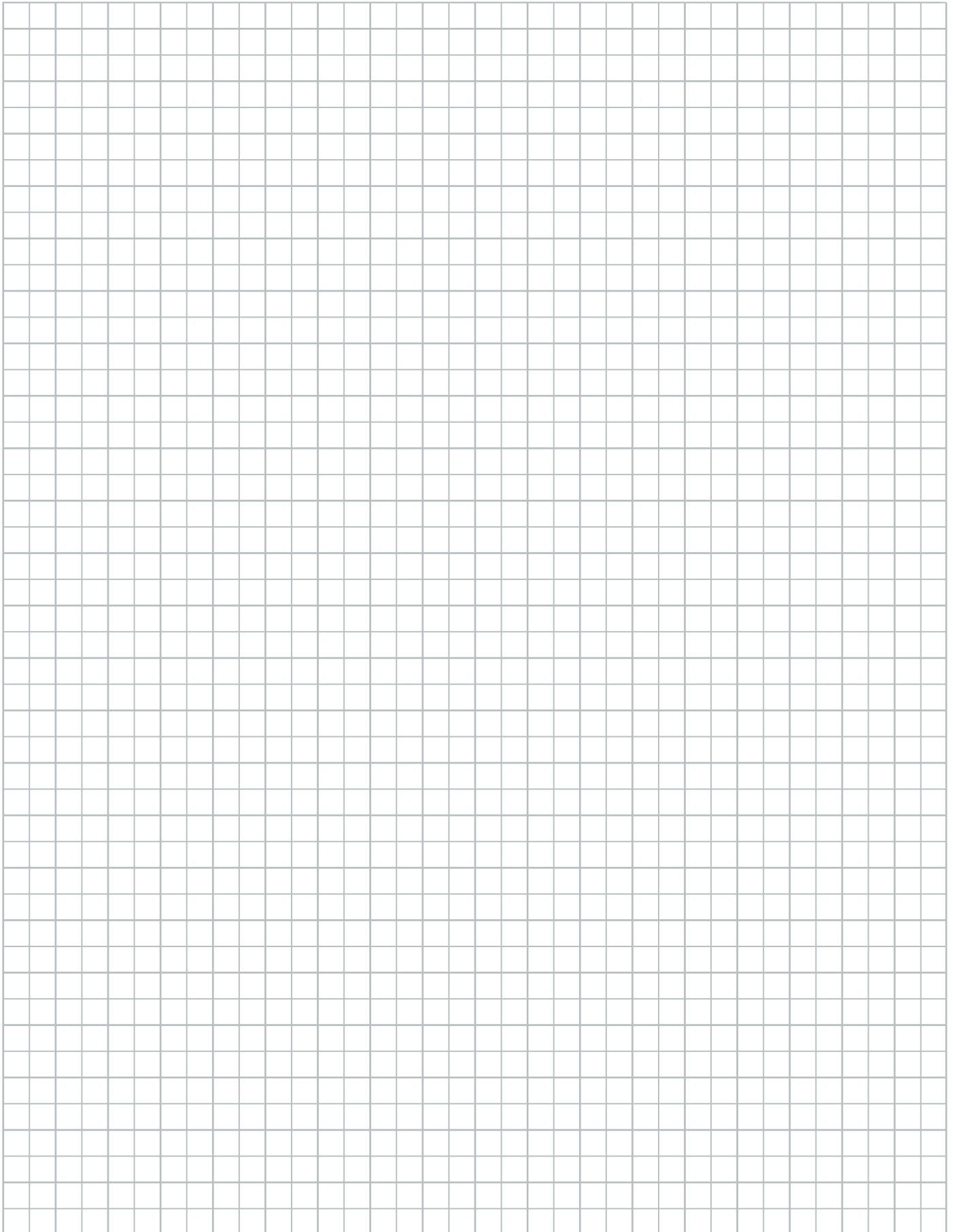
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In consideration of progress, we reserve the right to apply construction modifications and to consequently change any figures, dimensions, weight specifications etc. The figures do not show items in their actual size and are also not of the same proportion.

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Notes



ATRIUM Alu-HKS® 200

for aluminium tilt and slide elements

with sash weights of up to 200 kg



Slide position

Opening width 117 mm

Its opening width of 117 mm makes the new ATRIUM Alu-HKS® 200 an excellent choice for deep sash profiles and meets all requirements expected from highly efficient heat insulating window systems.

Bogie design requiring only 35 mm of space, maximum roller diameter, concealed control system, and self-locking height adjustment

The new bogies of the ATRIUM Alu-HKS® 200 have a roller diameter of 28 mm and a closed housing but require only 35 mm of space.

A concealed control system and the non-soiling guide block guarantee a long lifespan as well as easy and convenient operation. Only one tool is required to adjust the sash thanks to the self-locking height adjustment including safety clip.

Bogie ATRIUM Alu-HKS® 200 Z TWIN

The new bogie ATRIUM Alu-HKS® 200 Z TWIN including one-part housing prevents sash skews and supports sash weights of up to 200 kg. The pre-assembled bogies reduce the assembly time considerably.

Anti-mishandling device HAUTAU onTop

The new anti-mishandling device HAUTAU onTop works in an efficient and convenient way. It also prevents the sash from being lifted out. Thanks to its position facing away from the handle on the sash side, the anti-mishandling device can also be used in combination with French doors (scheme C).

Sash heights and sash widths of up to 2700 mm and 2000 mm, respectively

Thanks to the rugged design of its stays and bogies, the ATRIUM Alu-HKS® 200 can be used for sash heights of up to 2700 mm. This fitting system, therefore, meets the architectonic challenge of providing window doors that are as tall as the room.

Running rail

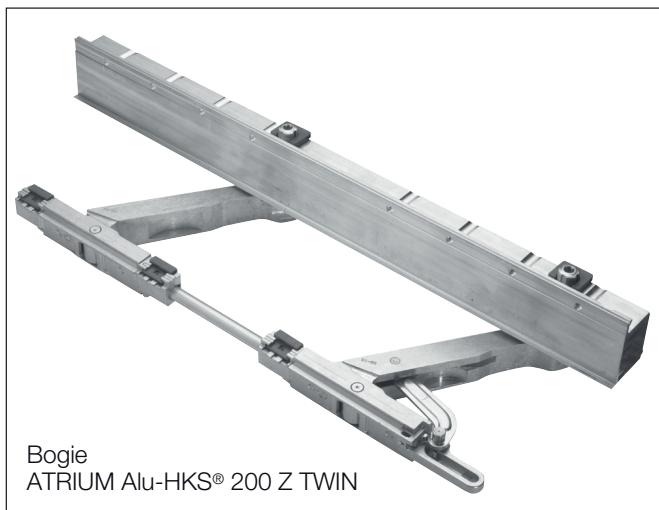
Sash weights of up to 160 kg no longer require that the running rail be supported, provided the specified screw tightening torques are observed.

PVC spring-loaded catches

The spring-loaded catches made of PVC let the fitting engage smoothly and quietly into its tilt position and, thereby, guarantee its reliable and convenient operation.

Range of application

For aluminium systems with sash groove 15/20 and KS 16/12 mm.



Bogie
ATRIUM Alu-HKS® 200 Z TWIN



Bogie cover and cover caps
are colour-matched

- Automatic sash engagement in the slide position for easy operation
- Secure frame-sash connection with visual control option on the glider
- Tilt lock strikers perfectly match the visual appeal of high-quality aluminium profiles
- Height adjustment requires only one tool
- Non-soiling guide block with concealed entry for faultless permanent operation

Combined with HAUTAU design handle including gear with fork drive (AG)

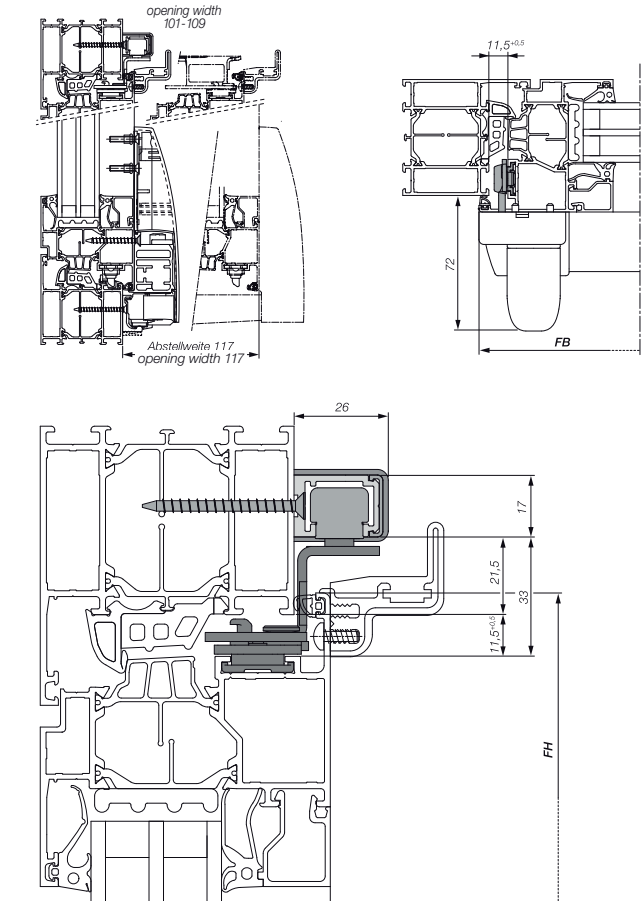
- Increased functional reliability thanks to reduced play in the connection between the handle of the gear with fork drive and the central locking gear
- The selection of different locking parts makes it possible to use a variety of different locking rods
- Thanks to the adjustment options of the central locking gear, compensating for cutting tolerances requires no effort at all and can be done by simply shifting the position of the new adjusters with dimensional grid
- Adjustable support arms make it possible to perfectly adjust the sash entry and sash exit to the different installation depths
- The newly designed packaging allows for a multitude of different variation options and keeps storage costs at a minimum
- Torx screws ensure that the fitting parts can be connected in a fast and secure manner
- Top and bottom fitting parts reliably stop the sash in any opening position
- Cleaning brushes on the bogies ensure a long lifespan and smooth operation
- Short distance between supporting bolt and sash for perfect weight support and minimum stress on the sash profile
- Narrow, shapely bogie cover
- The stay packet with its installation height of only 9 mm provides for the greatest possible height adjustment of the sash
- Handle in closed down position for intuitive use



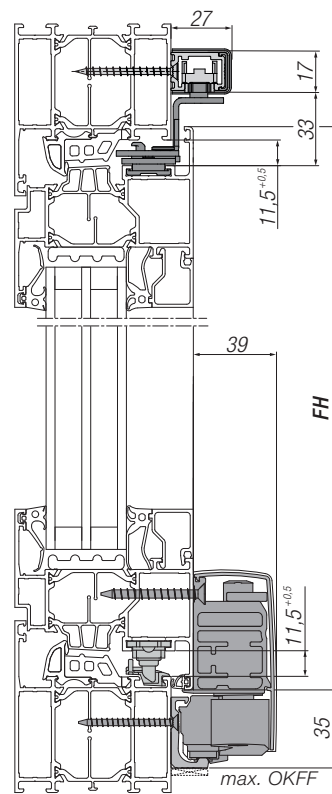
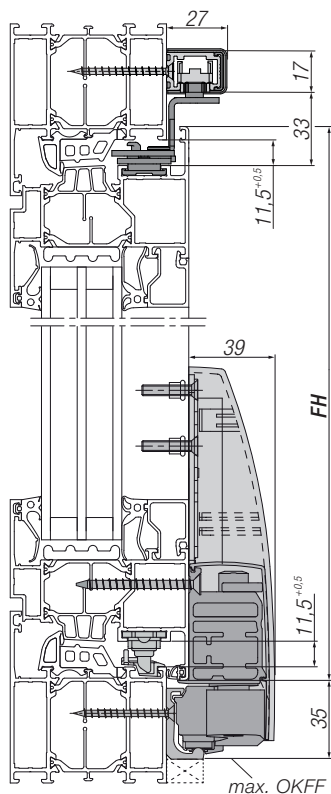
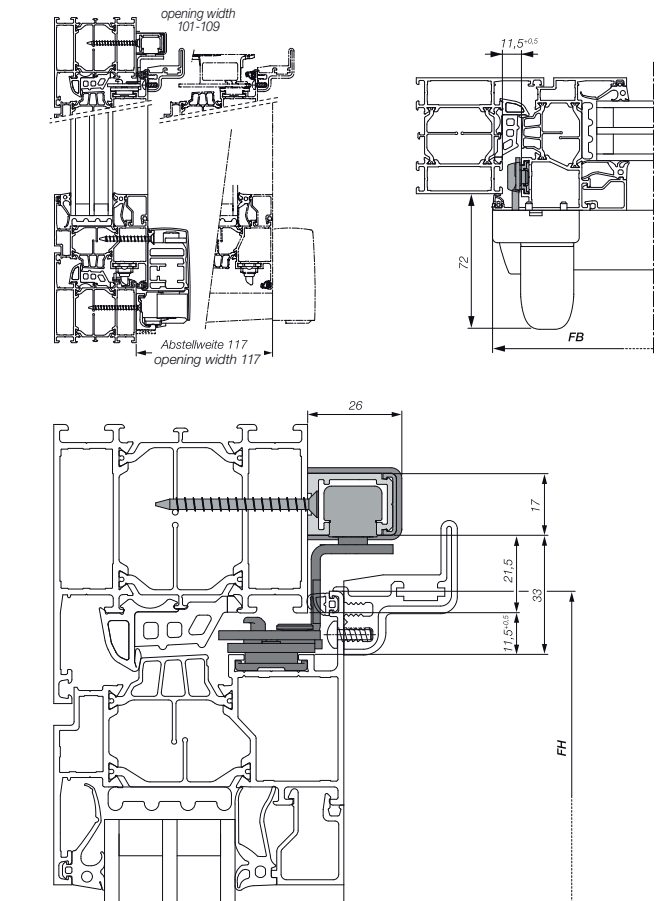
Range of application

ATRIUM Alu-HKS® 200 Z TWIN / 200 Z

ATRIUM Alu-HKS® 200 Z TWIN / 200 Z with groove 15/20 with support arms for sash weights of up to 200 kg



ATRIUM Alu-HKS® 200 Z with groove 15/20 without support arms for sash weights of up to 100 kg



Technical specifications

ATRIUM Alu-HKS® 200 Z TWIN

Sash width (FB)	1080 - 2000 mm
Sash height (FH)	930 - 2700 mm
Sash weight	max. 200 kg ¹⁾

¹⁾ Sash weights of 160 to 200 kg require TWIN bogies and spring stay.

ATRIUM Alu-HKS® 200 Z

Sash width (FB)	670 (830)* - 2000 mm
Sash height (FH)	930 - 2700 mm
Sash weight	max. 160 kg ¹⁾

* with spring stay

¹⁾ Sash weights of 100 to 160 kg and a sash depth > 75 mm require a spring stay.

ATRIUM Alu-HKS® 200 Z, sash weight max. 100 kg

Sash width (FB)	670 - 1280 mm
Sash height (FH)	930 - 2380 mm
Sash weight	max. 100 kg

Sash depths

Max. sash depth (FT) 87 mm

Sash depths > 87 mm are possible after technical approval of curve and sash centre of gravity.

Space requirements

Frame dimensional tolerance	
Running rail, bottom:	35 mm
Guiding rail, top:	32 mm
Running rail depth:	17 mm
Rebate step height:	at least 7 mm

Important notes

FH : FB = max. 2 : 1

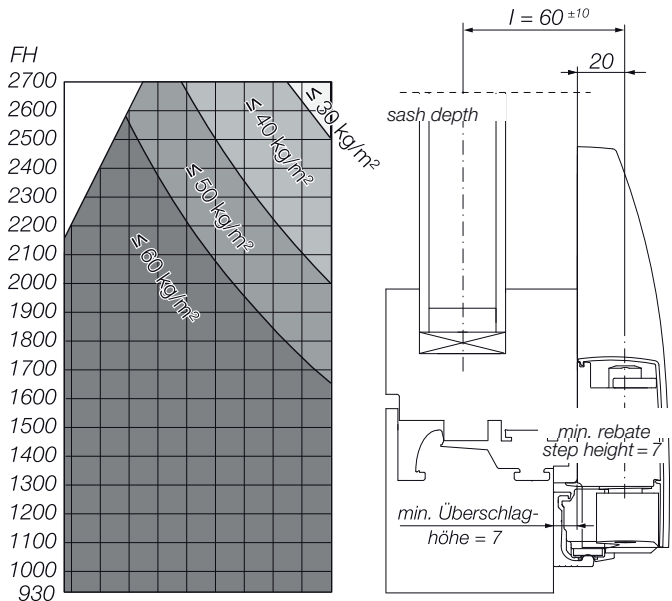
The limits specified for the ranges of application must be adhered to and not be exceeded.

Please also follow the permissible application sizes, manufacturing instructions and processing guidelines as provided by the profile manufacturers.

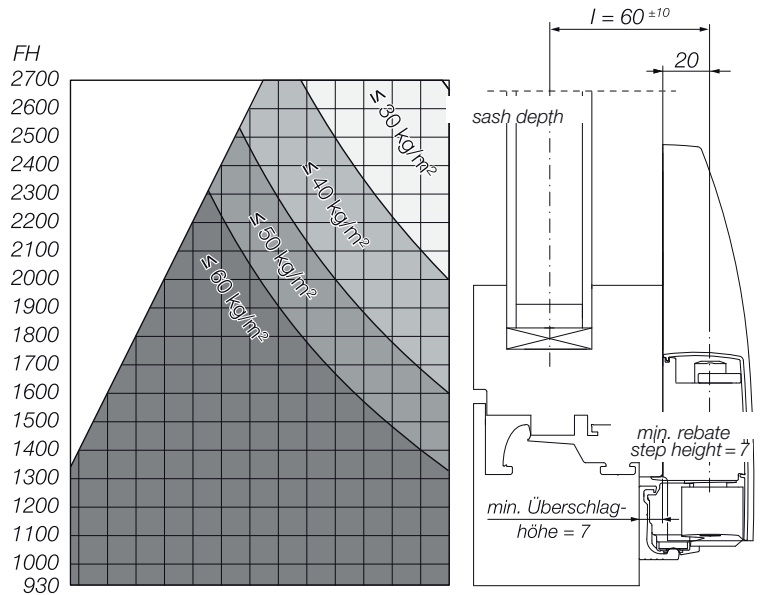
Take appropriate precautions to prevent the element from being overstrained by forced closing in special environments such as schools, kindergartens, etc. Please note that the elements are also susceptible to damage when used in moving objects such as trains or ships.

When in doubt, please contact our sales consultants.

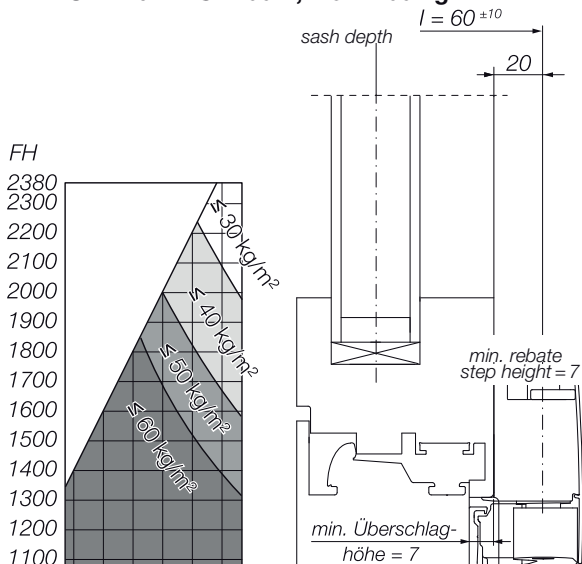
ATRIUM Alu-HKS® 200 Z TWIN, max. 200 kg



ATRIUM Alu-HKS® 200 Z, max. 160 kg



ATRIUM Alu-HKS® 200 Z, max. 100 kg

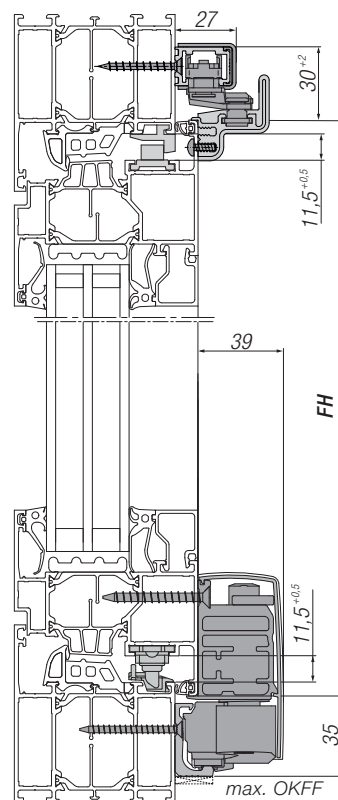
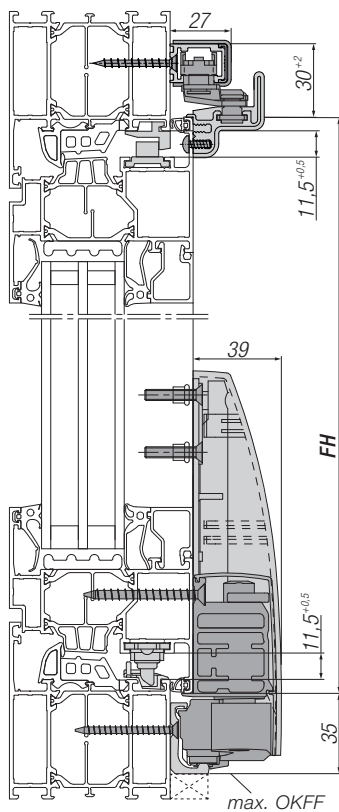
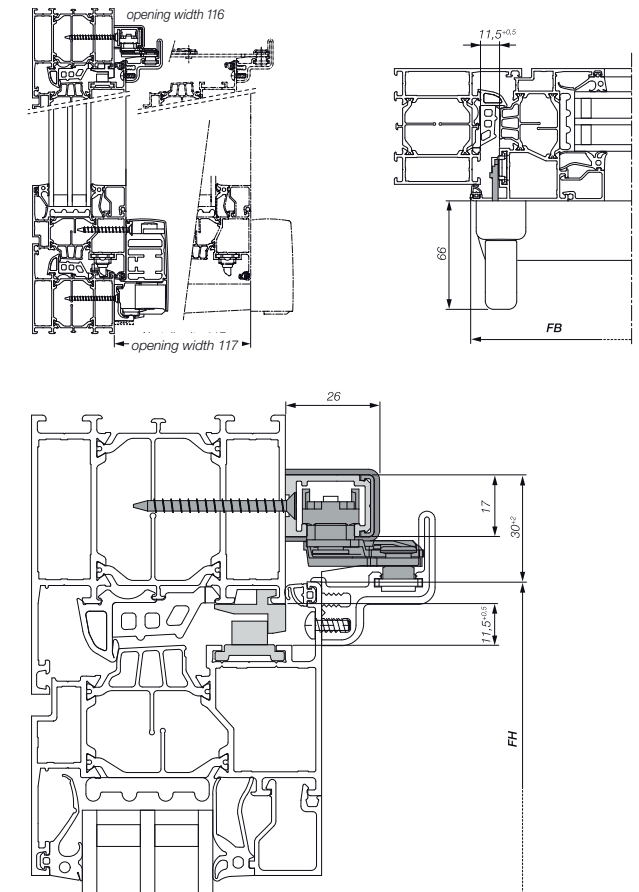
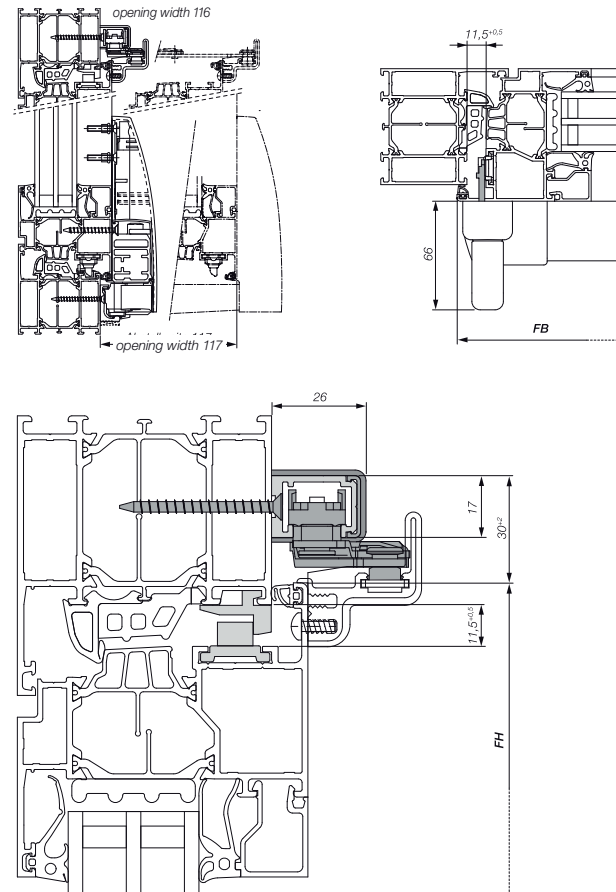


Range of application

ATRIUM Alu-HKS® 160 S

ATRIUM Alu-HKS® 160 S with groove 15/20
with support arms for sash weights of up to 160 kg

ATRIUM Alu-HKS® 160 S with groove 15/20
without support arms for sash weights of up to 100 kg



Technical specifications

ATRIUM Alu-HKS® 160 S

Sash width (FB) 670 - 1680 mm
 Sash height (FH) 930 - 2380 mm
 Sash weight max. 160 kg

ATRIUM Alu-HKS® 100 S

Sash width (FB) 670 - 1280 mm
 Sash height (FH) 930 - 2380 mm
 Sash weight max. 100 kg

Sash depths

Max. sash depth (FT) 87 mm
 Sash depths > 87 mm are possible after technical approval of curve and sash centre of gravity.

Space requirements

Frame dimensional tolerance
 Running rail, bottom: 35 mm
 Guiding rail, top: 32 mm
 Running rail depth: 17 mm
 Rebate step height: at least 7 mm

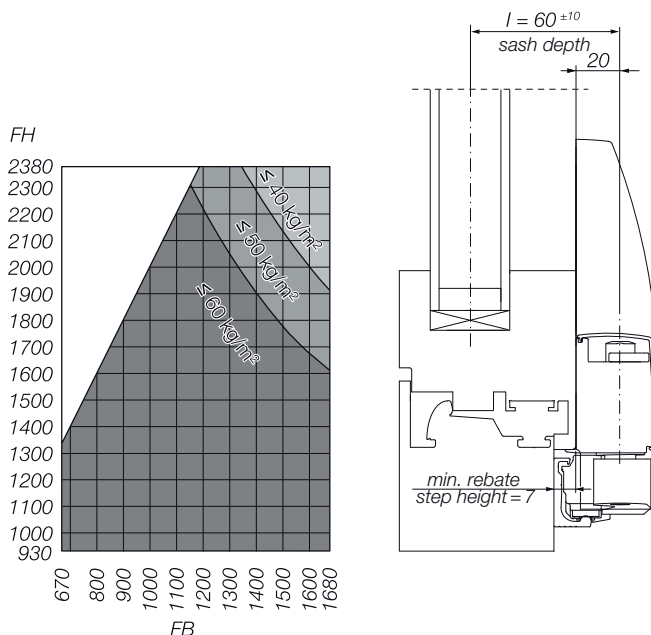
Important notes

FH : FB = max. 2 : 1
 The limits specified for the ranges of application must be adhered to and not be exceeded.
 Please also follow the permissible application sizes, manufacturing instructions and processing guidelines as provided by the profile manufacturers.

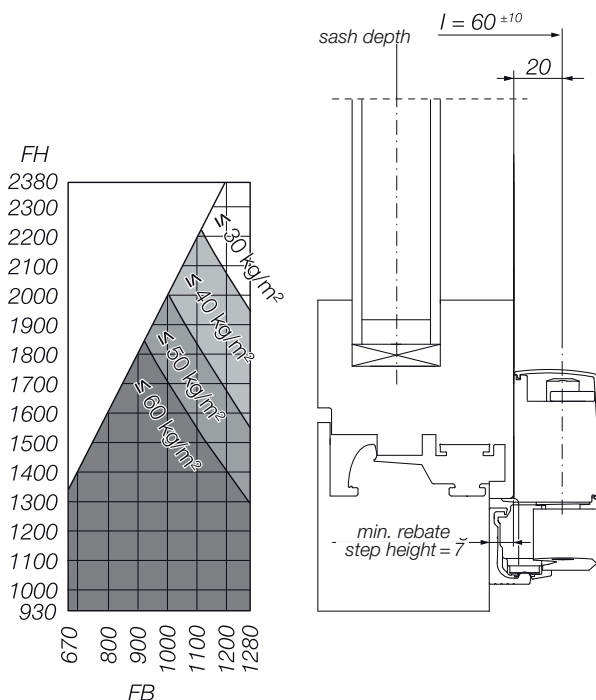
Take appropriate precautions to prevent the element from being overstrained by forced closing in special environments such as schools, kindergartens, etc. Please note that the elements are also susceptible to damage when used in moving objects such as trains or ships.

When in doubt, please contact our sales consultants.

ATRIUM Alu-HKS® 160 S

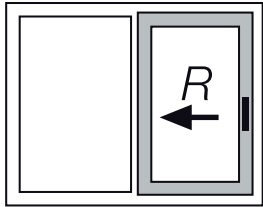


ATRIUM Alu-HKS® 100 S

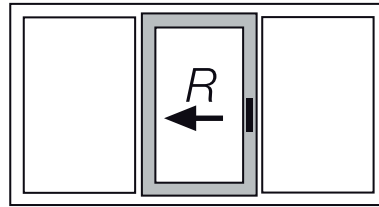


Sash arrangements

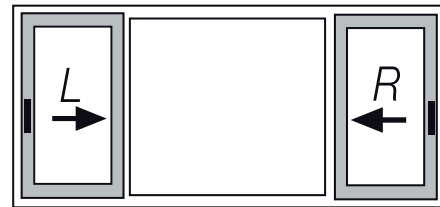
Frames with solid glazing or side hung sashes Schemes A, G, K, and C



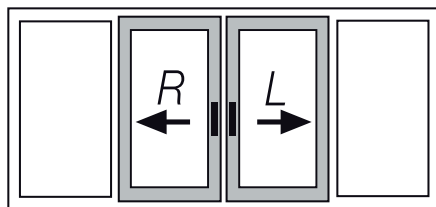
Scheme A
Two-part element:
1 Sliding sash (L or R)



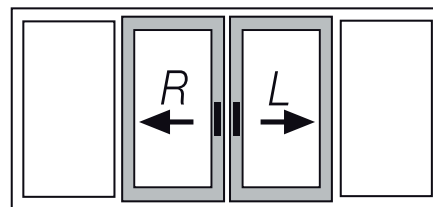
Scheme G
Three-part element:
1 Sliding sash (L or R)



Scheme K
Three-part element:
2 Sliding sashes (L and R)

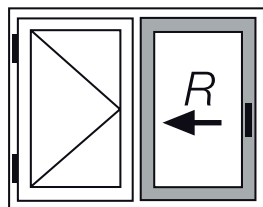


Scheme C
Four-part element:
2 sliding sashes (L and R)
with mounting posts between Alu-HKS elements



Scheme C*
Four-part element:
2 sliding sashes (L or R),
without mounting posts between the sliding sashes

Frames without fixed mounting post between side hung and sliding sash Scheme A



Scheme A
Two-part element:
1 sliding sash (L or R),
1 side hung sash
When ordering two-part elements
without fixed mounting post: order
central locking gear separately.

Caution!
Movable guide block required.

HAUTAU design left = DIN EN 12519 opening to the right
HAUTAU design right = DIN EN 12519 opening to the left

Text for invitations of tenders

ATRIUM Alu-HKS® 200 Z

Parallel tilt and slide fitting HAUTAU ATRIUM Alu-HKS® 200 Z

- Automatically operated central locking gear for automatic enabling and disabling of the tilt function
- Concealed central locking gear with adjustable locking cam closing pressure
- Integrated anti-mishandling device
- Parallel stop and slide position 117 mm
- Sash width of up to 2000 mm
- Sash height of up to 2700 mm
- Sash weight of up to 200 kg

Product: HAUTAU ATRIUM Alu-HKS® 200 Z

ATRIUM Alu-HKS® 160 S

Parallel tilt and slide fitting HAUTAU ATRIUM Alu-HKS® 160 S

- Spring catch in tilt position, anti-slam stay system
- Concealed central locking gear with adjustable locking cam closing pressure
- Parallel stop and slide position 117 mm
- Sash width of up to 1680 mm
- Sash width of up to 2380 mm
- Sash weight of up to 160 kg

Product: HAUTAU ATRIUM Alu-HKS® 160

Abbreviations

AG	Gear with forkdrive	FB	Sash width	S	No automatic operation
AG-S	Gear with forkdrive, lockable	FG	Sash weight	SH	Security
BZ	Bag accessories	FH	Sash height	UG	Handle with gear with forkdrive
D	Backset	FT	Sash depth	UG-S	Handle with gear with forkdrive, lockable
EG	Gearbox espag	GOL	Handle side top, design left	VTC	Deep driverod-C-groove
EG-Pz	Gearbox espag, profile cylinder	GOR	Handle side top, design right	Z	Automatic operation
EG-PzA	Gearbox espag, external profile cylinder	OKFF	Upper edge finished floor		
EG-Pzl	Gearbox espag, internal profile cylinder	OL	Non-handle side top, design left		
EG-S	Gearbox espag, lockable	OR	Non-handle side top, design right		
		o.V.	Different locking system		
		RC2	Resistance class 2		

Notes

Order details and packing units

Packing unit	Alu-HKS® 200 Z 15/20 with automatic operation	Alu-HKS® 200 Z 16/12 with automatic operation	Alu-HKS® 160 S / 10 with spring-loaded catches	Alu-HKS® 160 S / o.V. with spring-loaded catches
Carton of bogies	200 Z / 200 Z TWIN		200 Z	
Basic carton	Alu-HKS® 200 Z	HKS Z (TWIN)	Accessories locking system 10	
Spring stay	depending on sash depth and weight			
Central locking	horizontal/vertical locking			
Carton Caps for bogies	according to sash weight			
Handle	203 / 201		161 / UG	
Strikers	according to table			
Set of rails	FB 930 mm FB 1080 mm FB 1280 mm FB 1480 mm FB 1680 mm FB 2000 mm* *(> 160 kg)		FB 930 mm FB 1080 mm FB 1280 mm FB 1480 mm* FB 1680 mm* *(> 100 kg)	
Snap lock rods				
Stay system	according to sash width			

Colour information

	Design natural blank	Design silver	Design white	Design black
Guiding rail	EV 1* natural anodised	EV 1* natural anodised	EV 1* natural anodised	EV 1* natural anodised
Running rail	EV 1* natural anodised	EV 1* natural anodised	EV 1* natural anodised	black, anodised C35
Holding rail and cover profile	natural blank	silver, coated	white, coated RAL 9016	black, coated RAL 9005
Cover caps	colour-matched			

* EV 1 corresponds to C0

Coating process for design „natural blank“:

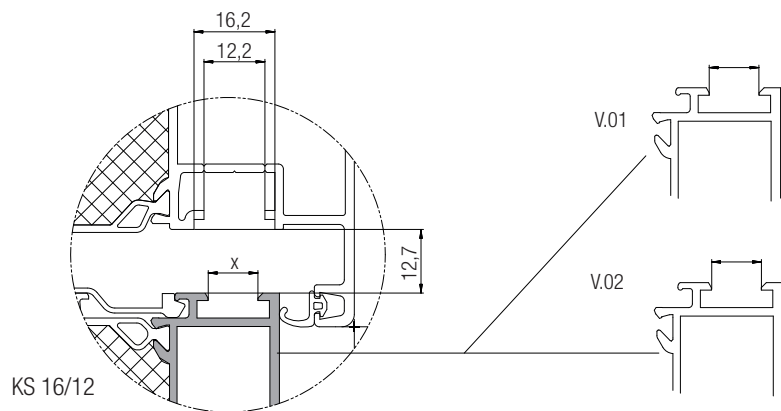
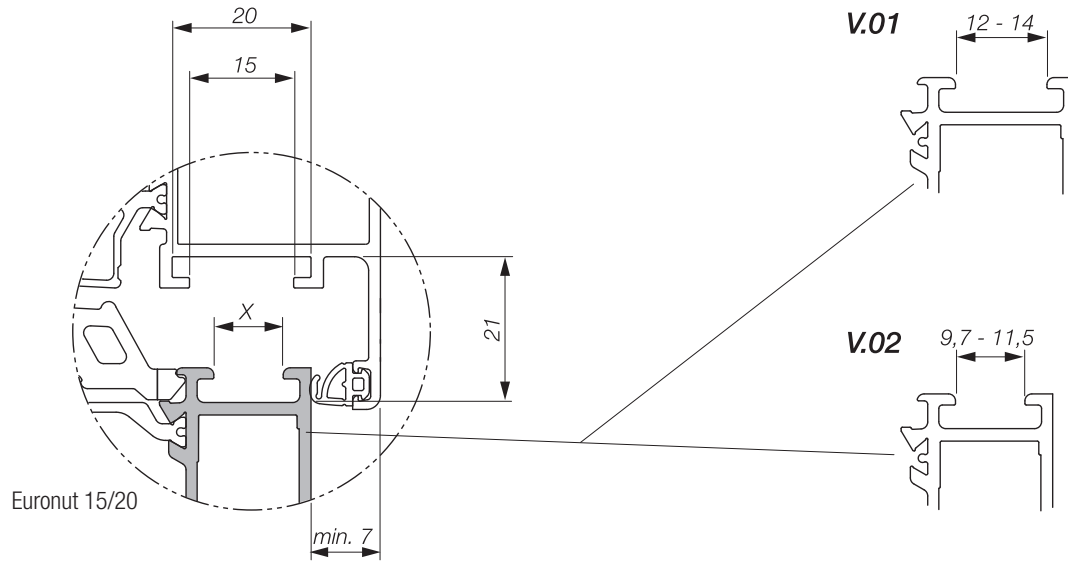
The running and guide tracks may not be powder coated. Anodized surfaces are allowed only. Holding track and cover profile are both powder or liquid coatable.

For the cover caps apply the following procedures (process instructions):

- Plasma pretreated process in a vacuum chamber
- Cleaning process with ionized air
- 2K acrylic paint
- Oven drying at 70 degrees

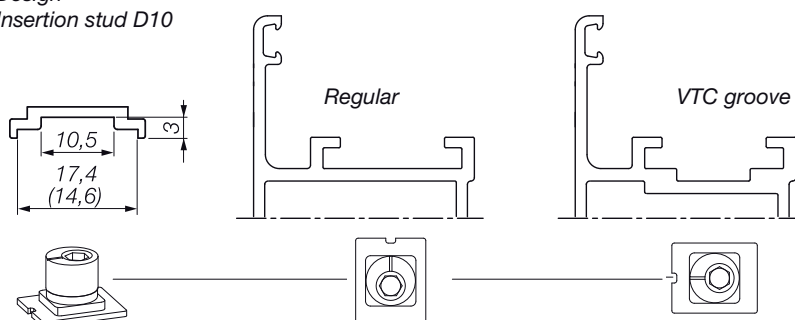
System requirements

Chamber dimensions and grooves



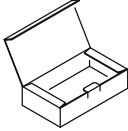
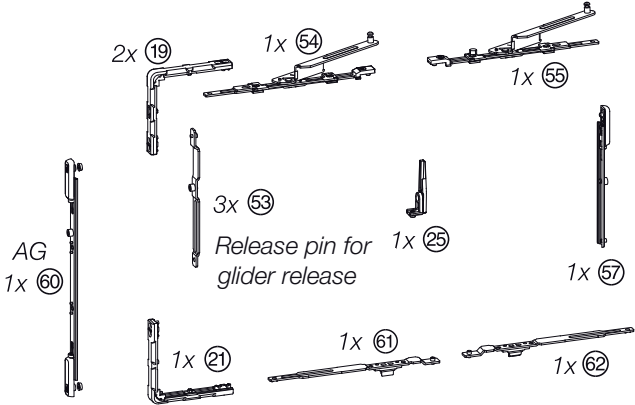
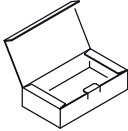
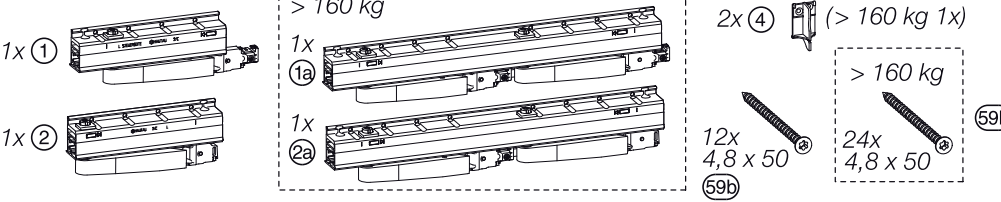
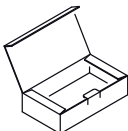
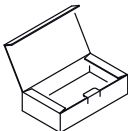

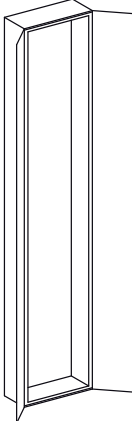
Locking rods

Design
Insertion stud D10



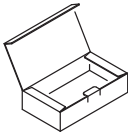
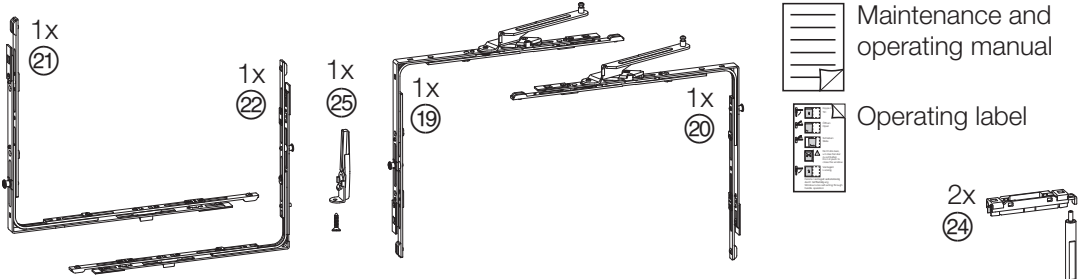
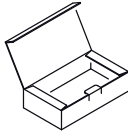
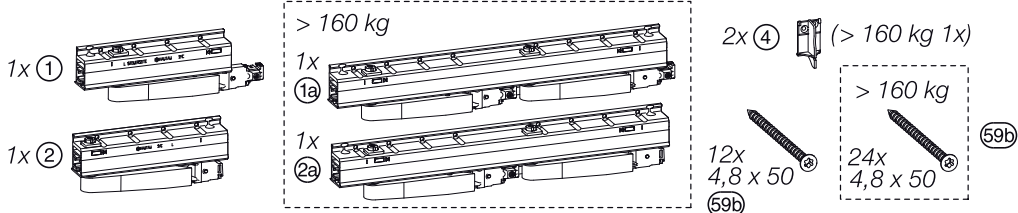
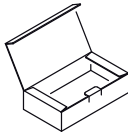
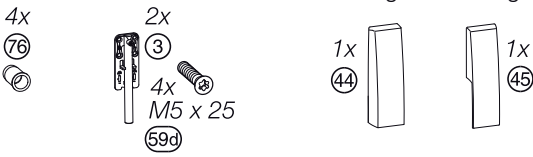
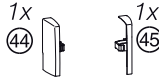
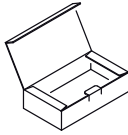


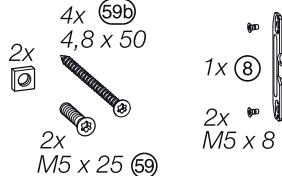





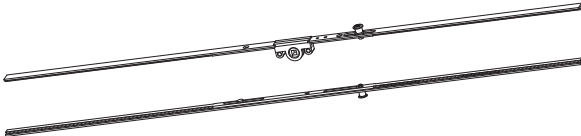
Overview - contents of the packing units

ATRIUM Alu-HKS® 200 Z TWIN / 200 Z

	 <p>2x 19, 1x 54, 1x 55, 3x 53, 1x 25, 1x 57, 10x 65, 2x 56, 10x 59 M5 x 25 PKS</p> <p>AG 1x 60</p> <p>Release pin for glider release</p> <p>Maintenance and operating manual</p> <p>Operating label</p> <p>2x 24, 1x</p> <p>Auslösestift für Gleitentrastung</p>
	 <p>1x 1, 1x 2, 1x 1a, 1x 2a, 2x 4 (> 160 kg 1x), 12x 4,8 x 50 59b, 24x 4,8 x 50 59b</p> <p>> 160 kg</p>
	<p>Sash weight ≥ 100 kg</p> <p>4x 76, 2x 3, 4x M5 x 25 59d, 1x 44, 1x 45</p> <p>Sash weight < 100 kg</p> <p>1x 44, 1x 45</p>
	<p>AG 6, AG-S 7</p> <p>4x 59b 4,8 x 50, 2x M5 x 25 59, 1x 8, 2x M5 x 8</p>
	<p>2x 15, 8x 13, 1x 66, 1x 16, D10 3x 56</p>
	<p>1x 35, 1x 36, 1x 38, 1x 37, 1x 39, 1x 40</p> <p>40x 3,9 x 45 59c, 10x 3,9 x 9,5 59e</p> <p>1x 47, 1x 46, 1x 48, 2x 41, 1x 50, 1x 42, 1x 43, FB > 1480 1x 51</p>

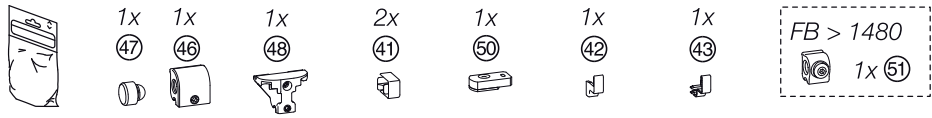
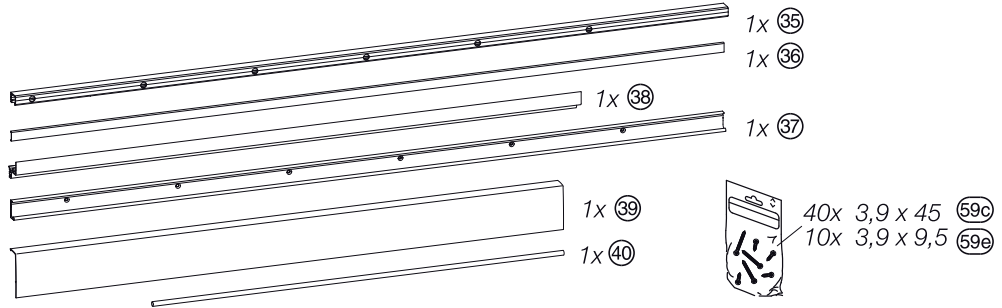
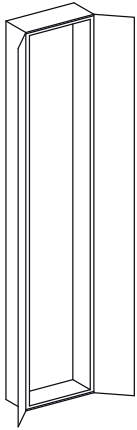
Overview - contents of the packing units

ATRIUM Alu-HKS® 200 Z TWIN / 200 Z KS groove (16/12)

	 <p>Maintenance and operating manual</p> <p>Operating label</p>
	 <p>> 160 kg</p> <p>> 160 kg</p> <p>> 160 kg</p>
	<p>Sash weight ≥ 100 kg</p>  <p>Sash weight < 100 kg</p> 
	<p>AG</p>  <p>AG-S</p>  
	
	
	

Overview - contents of the packing units

ATRIUM Alu-HKS® 200 Z TWIN / 200 Z KS groove (16/12)



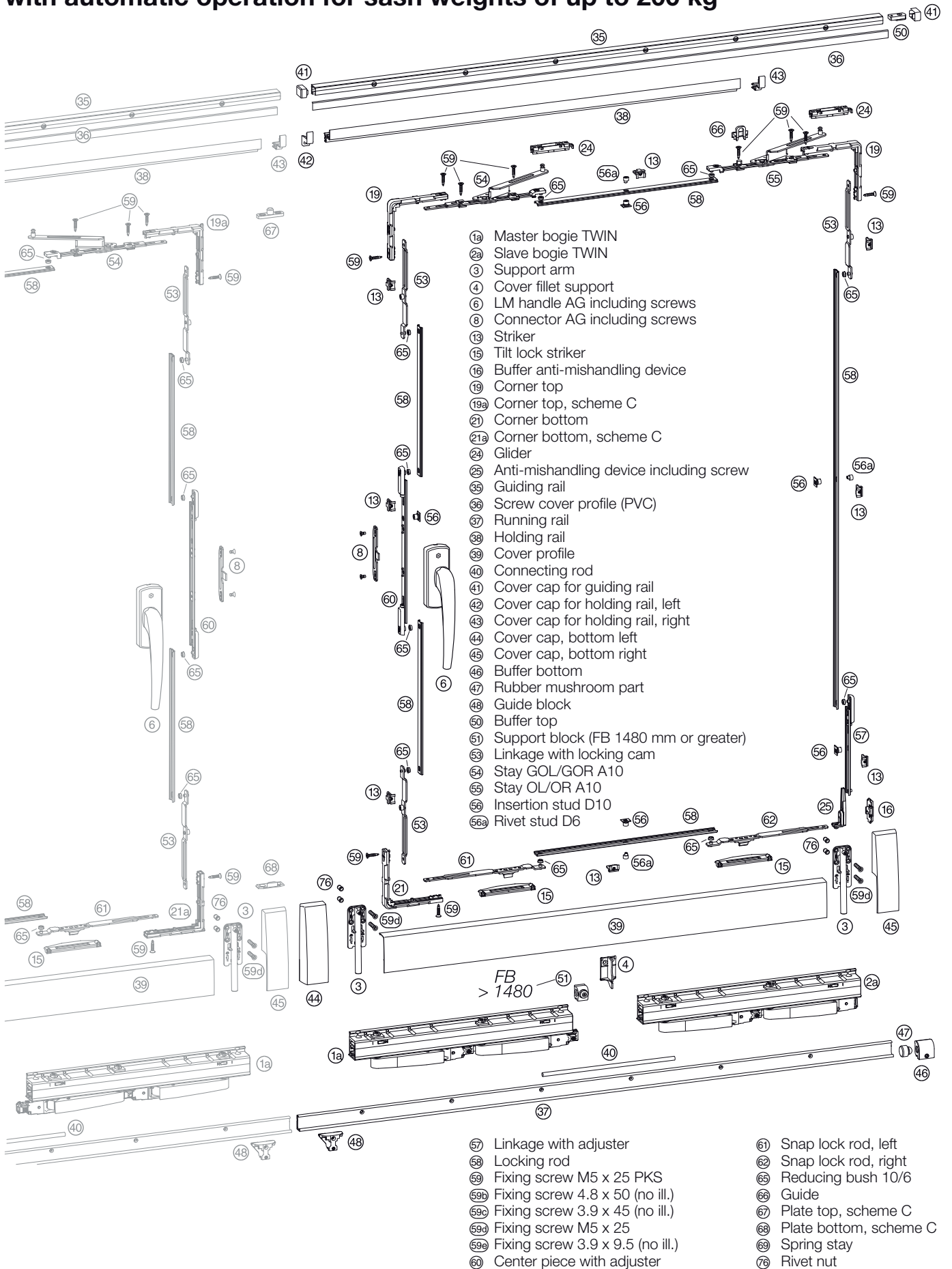
Overview - contents of the packing units

ATRIUM Alu-HKS® 160 S

	<p>1x ① </p> <p>1x ② </p> <p>2x ④ </p> <p>12x 4,8 x 50 ⑤9b </p>
	<p>D10</p> <p>3x ⑱ </p> <p>1x ⑧ </p> <p>1x ⑤6 </p> <p>D6</p> <p>3x ⑱ </p> <p>1x ⑧ </p> <p>1x ⑤3 </p> <p>EG-Pz ⑤5 </p> <p>EG ③0 </p>
	<p>UG</p> <p>⑤a </p> <p>2x M5 x 8 </p> <p>EG ⑨ </p> <p>EG-S ⑩ </p> <p>EG-PzA ⑫a </p> <p>EG-PzI ⑪a </p> <p>⑤5 </p> <p>⑤5 </p>
	<p>1x ⑤1 </p> <p>1x ⑤2 </p> <p>2x ⑤5 </p> <p>1x ⑤6 </p> <p>Maintenance and operating manual </p> <p>Operating label </p>
	<p>Sash weight ≥ 100 kg</p> <p>1x ④4 </p> <p>1x ④5 </p> <p>4x ⑤7 </p> <p>2x ③ </p> <p>4x M5 x 25 ⑤9d </p> <p>Sash weight < 100 kg</p> <p>1x ④4 </p> <p>1x ④5 </p>
	<p>⑤6 </p>
	<p>2x ⑮ </p> <p>D10</p> <p>3x ⑤6 </p> <p>8x ⑮ </p>
	<p>1x ③5 </p> <p>1x ③6 </p> <p>1x ③8 </p> <p>1x ③7 </p> <p>1x ③9 </p> <p>1x ④0 </p> <p>40x 3,9 x 45 ⑤9c </p> <p>10x 3,9 x 9,5 ⑤9e </p> <p>1x ④7 </p> <p>1x ④6 </p> <p>1x ④8 </p> <p>2x ④1 </p> <p>1x ⑤0 </p> <p>1x ④2 </p> <p>1x ④3 </p> <p>FB > 1480</p> <p>1x ⑤1 </p>

ATRIUM Alu-HKS® 200 Z TWIN

with automatic operation for sash weights of up to 200 kg



ATRIUM Alu-HKS® 200 Z TWIN

with automatic operation for sash weights of up to 200 kg

Unit per scheme

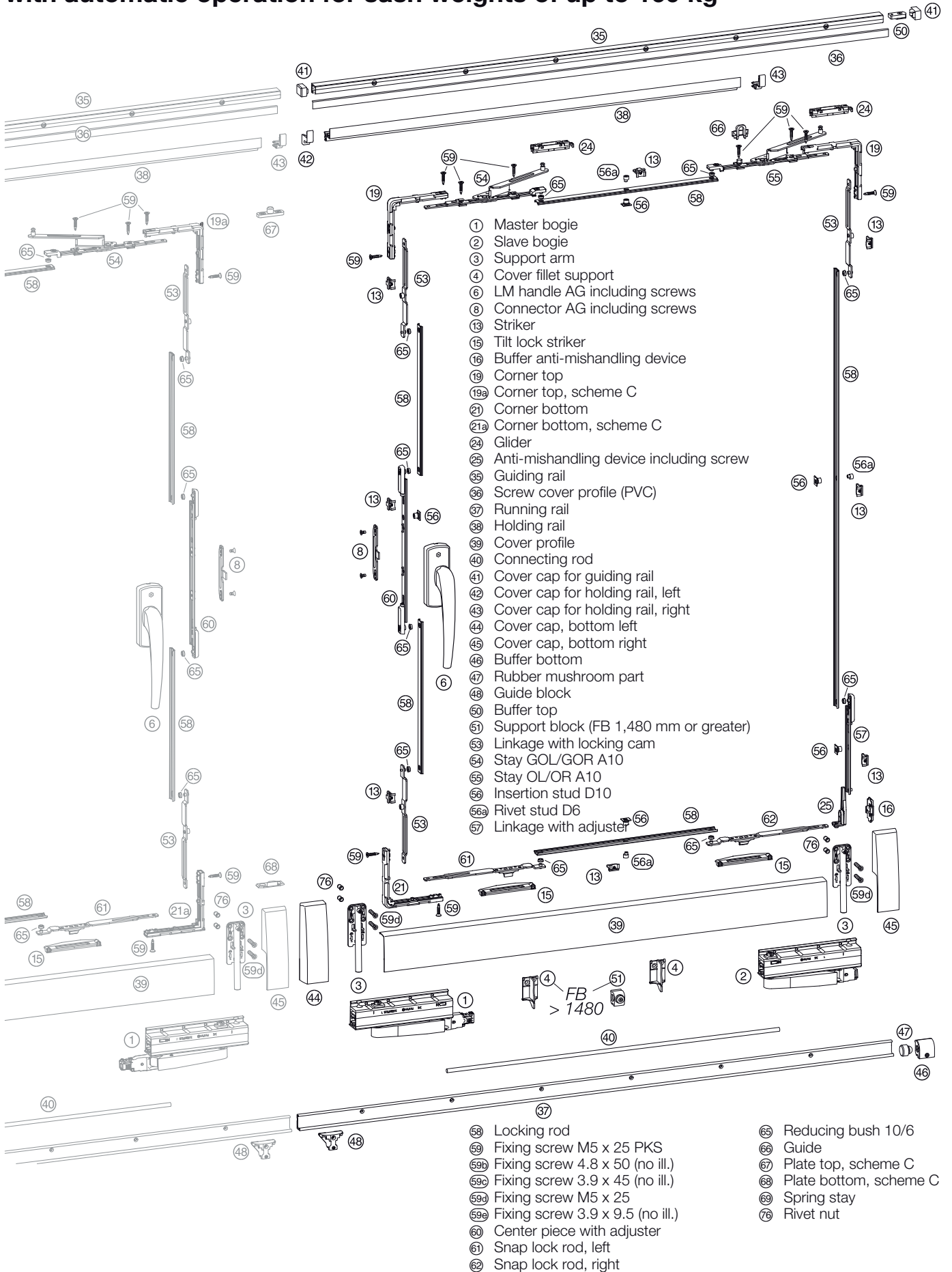
A	G	K	C	Item name	Item code					
1	1	2	1L 1R	Carton of bogies Alu-HKS® 200 TWIN ①② ③ ④ ⑤⑥	left	230503				
					right	230500				
1	1	2	2	Caps bogies, large + support arms Alu-HKS® ③ ④④ ④⑤ ⑤⑥⑦ ⑦⑧	silver 230521	white 230527	black 230524	blank 230518		
1	1	2	1	Basic carton Alu-HKS® Z ①⑨ ②① ②② ②③ ③④ ③⑤ ③⑥ ③⑦ ③⑧ ③⑨ ④① ④② ④③ ④④	left	233425				
			1	Basic carton scheme C Alu-HKS® Z ①⑨⑩ ②①② ②③ ③④ ③⑤ ③⑥ ③⑦ ③⑧ ④① ④② ④③	right	233428				
			1	Basic carton scheme C Alu-HKS® Z ①⑨⑩ ②①② ②③ ③④ ③⑤ ③⑥ ③⑦ ③⑧ ④① ④② ④③	right	233431				
1	1	2	1L 1R	LM HAUTAU design handle with AG ⑥ ⑧	203 AG left	EV 1 230428	white 230434	black 230440		
					right	230425	230431	230437		
1	1	2	2	Bag of accessory strikers (profile-related) ⑬ ⑮ ⑰ ⑱ ⑳㉑ ㉒	see striker table, page 45					
1	1	2	2	Rail set Alu-HKS®	FB	RAB	silver	white	black	blank
					730 - 930	1930	230536	230539	230530	230533
					931-1080	2230	230548	230551	230542	230545
				③⑤ ③⑥ ③⑦ ③⑧ ③⑨ ④① ④② ④③ ④④ ④⑤ ④⑥ ④⑦ ④⑧ ④⑨ ⑤⑩ ⑤⑪ ⑤⑫	1081-1280	2630	230560	230563	230554	230557
				also for FB 1480 or greater: ⑤⑬	1281-1480	3030	230572	230575	230566	230569
					1481-1680	3430	230584	230587	230578	230581
					1681-2000	4130	230596	230599	230590	230593
1	1	2	2	Bag of accessories spring stay Alu-HKS® Z ②④ ②⑤	238645					
1	1	2	2	Rail set 7**	FB	RAB	silver	white	black	blank
					730 - 930	1930	244549	244531	244567	244603
					931-1080	2230	244552	244534	244570	244606
				③⑤⑥ ③⑥ ③⑦⑧ ③⑧ ③⑨ ④① ④② ④③ ④④ ④⑤ ④⑥ ④⑦ ④⑧ ④⑨ ⑤⑩ ⑤⑪ ⑤⑫	1081-1280	2630	244555	244537	244573	244609
				FB > 1480 additional: ⑤⑬	1281-1480	3030	244558	244540	244576	244612
					1481-1680	3430	244561	244543	244579	244615
					1681-2000	4130	244564	244546	244582	244618

Rail set can be used for rebate step height > 10mm

Use of spring stay is essential.
for additional gear designs, see page 38
for additional handle designs, see page 40

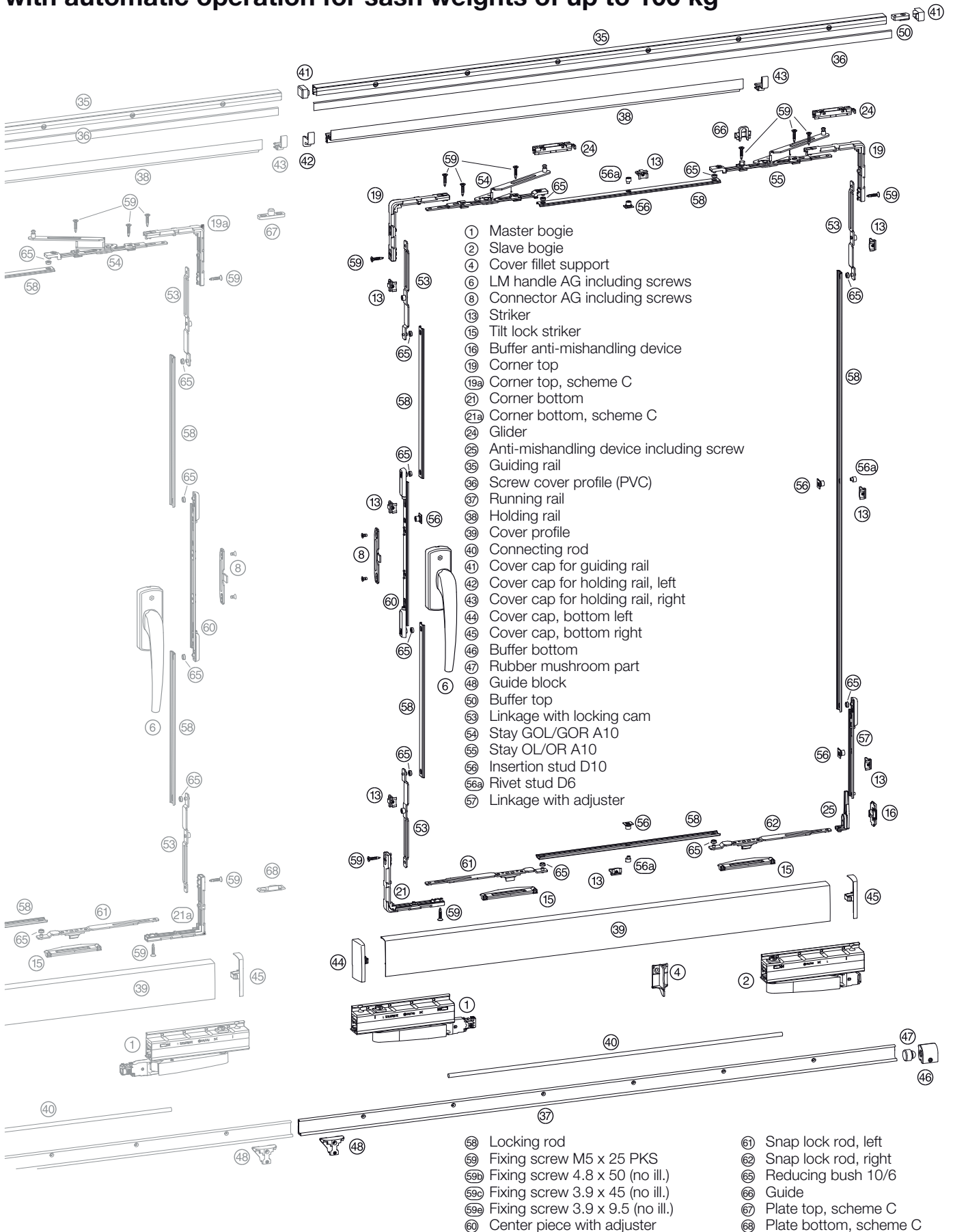
ATRIUM Alu-HKS® 200 Z

with automatic operation for sash weights of up to 160 kg



ATRIUM Alu-HKS® 200 Z

with automatic operation for sash weights of up to 100 kg



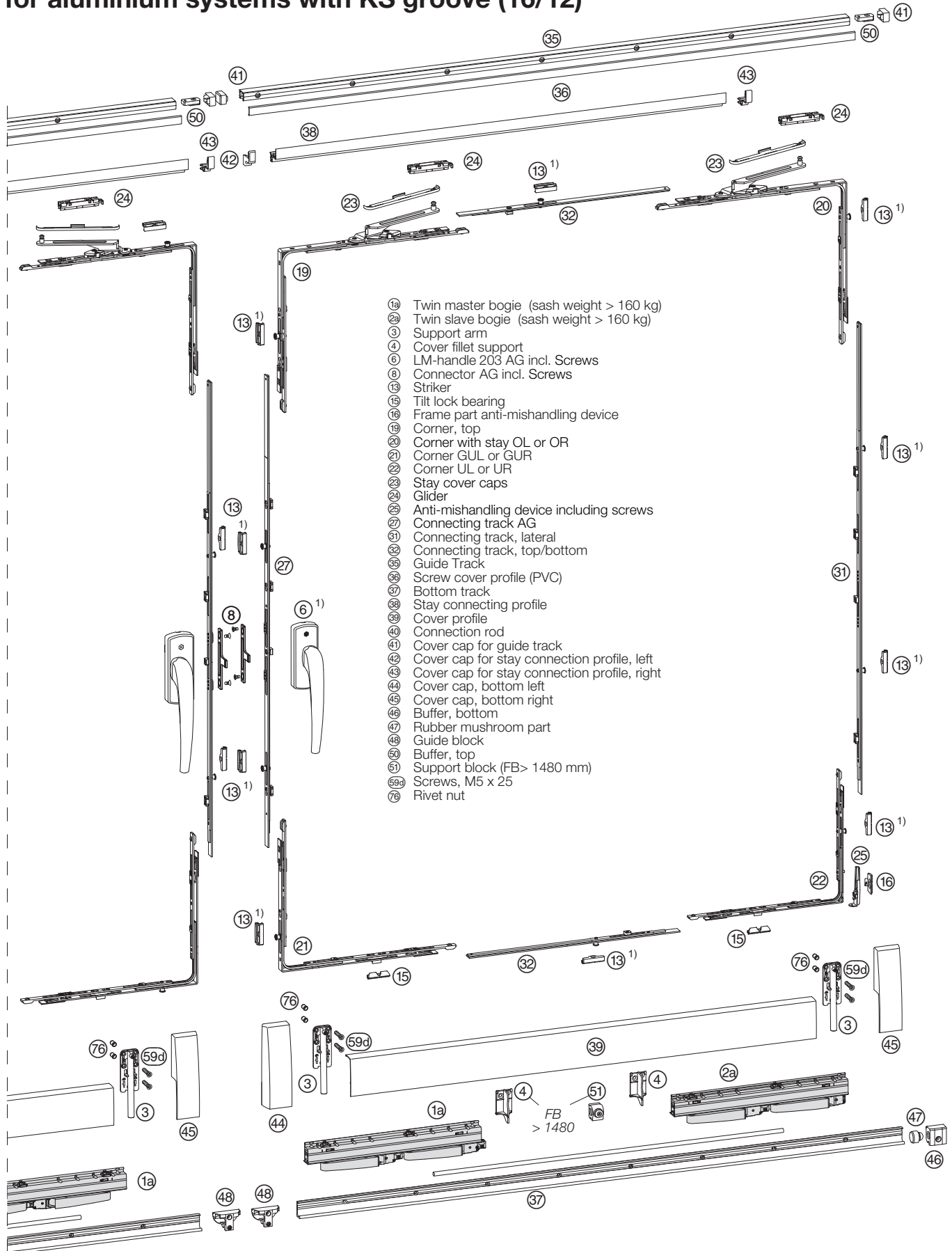
- ① Master bogie
- ② Slave bogie
- ④ Cover fillet support
- ⑥ LM handle AG including screws
- ⑧ Connector AG including screws
- ⑬ Striker
- ⑮ Tilt lock striker
- ⑯ Buffer anti-mishandling device
- ⑰ Corner top
- ⑰a Corner top, scheme C
- ⑰b Corner bottom
- ⑰c Corner bottom, scheme C
- ⑳ Glider
- ㉑ Anti-mishandling device including screw
- ㉒ Guiding rail
- ㉓ Screw cover profile (PVC)
- ㉔ Running rail
- ㉕ Holding rail
- ㉖ Cover profile
- ㉗ Connecting rod
- ㉘ Cover cap for guiding rail
- ㉙ Cover cap for holding rail, left
- ㉚ Cover cap for holding rail, right
- ㉛ Cover cap, bottom left
- ㉜ Cover cap, bottom right
- ㉝ Buffer bottom
- ㉞ Rubber mushroom part
- ㉟ Guide block
- ㊱ Buffer top
- ㊲ Linkage with locking cam
- ㊳ Stay GOL/GOR A10
- ㊴ Stay OL/OR A10
- ㊵ Insertion stud D10
- ㊶ Rivet stud D6
- ㊷ Linkage with adjuster

- ㉟ Locking rod
- ㊸ Fixing screw M5 x 25 PKS
- ㊸b Fixing screw 4.8 x 50 (no ill.)
- ㊸c Fixing screw 3.9 x 45 (no ill.)
- ㊸d Fixing screw 3.9 x 9.5 (no ill.)
- ㊸e Center piece with adjuster
- ㊹ Snap lock rod, left
- ㊺ Snap lock rod, right
- ㊻ Reducing bush 10/6
- ㊼ Guide
- ㊽ Plate top, scheme C
- ㊾ Plate bottom, scheme C

ATRIUM Alu-HKS® 200 Z

with automatic operation for sash weights of up to 200 kg

for aluminium systems with KS groove (16/12)



ATRIUM Alu-HKS® 200 Z

with automatic operation for sash weights of up to 200 kg
for aluminium systems with KS groove (16/12)

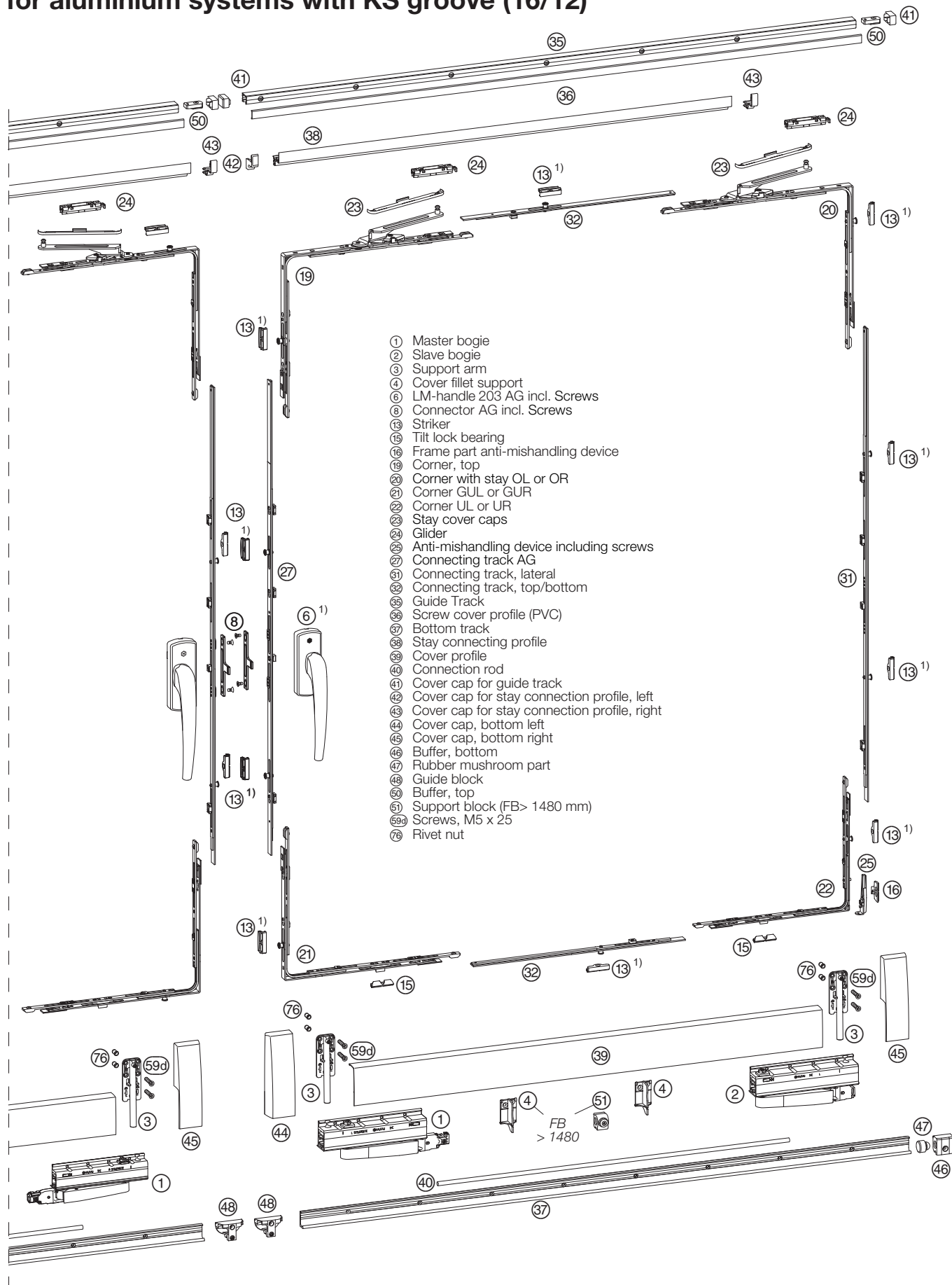
A	G	K	C	Item name	Item-Code
1	1	2	1 L 1 R	Carton of bogies Alu-HKS® 200 TWIN 1a 2 4 59b	left 230503 right 230500
1	1	2	2	Caps bogies, large + support arms Alu-HKS® 3 44 45 59a 76	silver 230521 white 230527 black 230524 blank 230518
1	1	2	1	Accessories locking system HKS® Z Alu-HKS 16/12 19 20 21 22 24 25	left right Axis 9 236267 236264 Axis 13 236276 236273
1	1	2	1	Accessories locking system HKS® Z Stulp Alu-HKS 16/12 19 20 21 22 24 25	Axis 9 236270 Axis 13 236279
1	1	2	1 L 1 R	LM handle HAUTAU-Design mit AG 6 8 203 AG links EV 1 white black rechts 211090 211096 230440 211089 211093 230093	
1	1	2	2	Bag of accessory strikers (profile-related) 13 15 16 56 56a 66 67 68	see striker table, page 45
2 x				Connecting track top/bottom 32	FFB (VE 1 Stück) (VE 5 Stück) 720 - 1050 213633 213621 1051 - 1250 208600 208588 1251 - 1450* 213636 213624 1451 - 1650 208603 208591 1651 - 1850** 208606 208594 1851 - 2000** 208609 208597
					* bei beidseitigem Abhängen von 1051 - 1450 mm einsetzbar. ** bei beidseitigem Abhängen von 1451 - 1850 mm einsetzbar.
2 x				Connecting track 27 31	Griffsitz FFB (VE 1 Stück) (VE 5 Stück) 450 900 - 1100 213681 213657 450 1101 - 1300 208684 208660 450 1301 - 1500 213687 213663 450 1501 - 1700 208690 213666 450 1701 - 1900 208693 213669 450 1901 - 2100 208696 213672 450 2101 - 2300 208699 213675 450 2301 - 2400 208702 213678 450 2401 - 2700 213699* 213675*
					* zusätzlich 2 x Set Zwischenstück 400 mm (Artikel-Code 231313) und entsprechende Schließplatten (profilbezogen) erforderlich
1	1	2	2	Rail set Alu-HKS® 35 36 37 38 39 40 41 42 43 46 47 48 50 59c 59e Ab FB 1480 zusätzlich: 51	FB RAB silber weiß schwarz blank 790 - 930 1930 230536 230539 230530 230533 931 - 1080 2230 230548 230551 230542 230545 1081 - 1280 2630 230560 230563 230554 230557 1281 - 1480 3030 230572 230575 230566 230569 1481 - 1680 3430 230584 230587 230578 230581 1681 - 2000 4130 230596 230599 230590 230593
1	1	2	2	Bag of accessories spring stay Alu-HKS® Z 24 69	238645
1	1	2	2	Rail set 7 ** 35a 36 37a 38 39 40 41 42 43 46 47 48 50 59c 59e FB > 1480 zusätzlich: 51	FB RAB silber weiß schwarz blank 790 - 930 1930 244549 244531 244567 244603 931 - 1080 2230 244552 244534 244570 244606 1081 - 1280 2630 244555 244537 244573 244609 1281 - 1480 3030 244558 244540 244576 244612 1481 - 1680 3430 244561 244543 244579 244615 1681 - 2000 4130 244564 244546 244582 244618

** The rail set 7 can be used if the sash fitting is larger than 10 mm; if profile-related see online product overview.

Use of spring stay is essential.
for additional gear designs, see page 38
for additional handle designs, see page 40

ATRIUM Alu-HKS® 200 Z

with automatic operation for sash weights of up to 160 kg
for aluminium systems with KS groove (16/12)



ATRIUM Alu-HKS® 200 Z

without automatic operation for sash weights of up to 160 kg,

locking system D 10

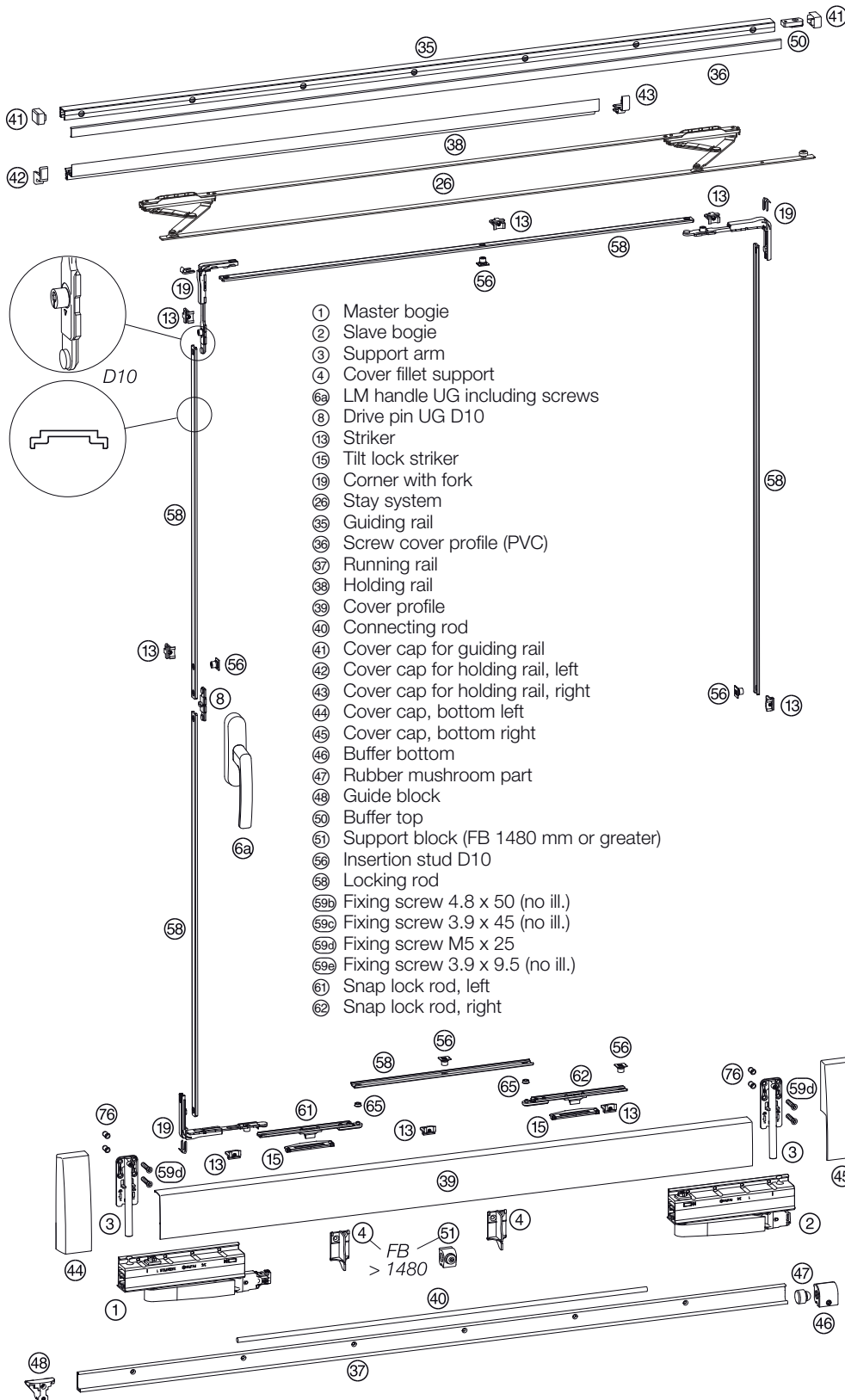
A	G	K	C	Item name	Item-Code
1	1	2	1 L 1 R	Carton of bogies Alu-HKS® 200 1a 2 4 59b	left 230497 right 230494
1	1	2	2	Caps bogies, large + support arms Alu-HKS® 3 44 45 59a 76	silver 230521 white 230527 black 230524 blank 230518
1	1	2	1	Accessories locking system HKS® Z Alu-HKS 16/12 19 20 21 22 24 25	left right Axis 9 236267 236264 Axis 13 236276 236273
1	1	2	1	Accessories locking system HKS® Z Stulp Alu-HKS 16/12 19 20 21 22 24 25	Axis 9 236270 Axis 13 236279
1	1	2	1 L 1 R	203 AG LM handle HAUTAU-Design with AG 6 6 left right	EV 1 white black 211090 211096 230440 211089 211093 230093
1	1	2	2	Bag of accessory strikers (profile-related) 13 15 16 56 56a 66 67 68	see striker table, page 45
2 x				Connecting track top/bottom 26	FFB (PU 1 unit) (PU 5 units) 720 - 1050 213633 213621 1051 - 1250 208600 208588 1251 - 1450* 213636 213624 1451 - 1650 208603 208591
* bei beidseitigem Abhängen von 1051 - 1450 mm einsetzbar.					
2 x				Connecting track 27 31	Griffsitz FFB (VE 1 Stück) (VE 5 Stück) 450 900 - 1100 213681 213657 450 1101 - 1300 208684 208660 450 1301 - 1500 213687 213663 450 1501 - 1700 208690 213666 450 1701 - 1900 208693 213669 450 1901 - 2100 208696 213672 450 2101 - 2300 208699 213675 450 2301 - 2400 208702 213678 450 2401 - 2700 213699* 213675*
* zusätzlich 2 x Set Zwischenstück 400 mm (Artikel-Code 231313) und entsprechende Schließplatten (profilbezogen) erforderlich					
1	1	2	2	Rail set Alu-HKS® 35 36 37 38 39 40 41 42 43 46 47 48 50 59c 59e also for FB 1480 or greater: 51	FB RAB silver white black blank 790 - 930 1930 230536 230539 230530 230533 931 - 1080 2230 230548 230551 230542 230545 1081 - 1280 2630 230560 230563 230554 230557 1281 - 1480 3030 230572 230575 230566 230569 1481 - 1680 3430 230584 230587 230578 230581
1	1	2	2	Bag of accessories spring stay Alu-HKS® Z 24 69	238645
1	1	2	2	Rail set 7 ** 35a 36 37a 38 39 40 41 42 43 46 47 48 50 59c 59e FB > 1480 zusätzlich: 51	FB RAB silber weiß schwarz blank 790 - 930 1930 244549 244531 244567 244603 931 - 1080 2230 244552 244534 244570 244606 1081 - 1280 2630 244555 244537 244573 244609 1281 - 1480 3030 244558 244540 244576 244612 1481 - 1680 3430 244561 244543 244579 244615

** The rail set 7 can be used if the sash fitting is larger than 10 mm; if profile-related see online product overview.

Rail set can be used for rebate step height > 10mm
Use of spring stay is essential.
for additional gear designs, see page 38
for additional handle designs, see page 40

ATRIUM Alu-HKS® 160 S/10

without automatic operation for sash weights of up to 160 kg,
locking system D 10



- ① Master bogie
- ② Slave bogie
- ③ Support arm
- ④ Cover fillet support
- ⑥a LM handle UG including screws
- ⑧ Drive pin UG D10
- ⑬ Striker
- ⑮ Tilt lock striker
- ⑰ Corner with fork
- ⑳ Stay system
- ㉑ Guiding rail
- ㉒ Screw cover profile (PVC)
- ㉓ Running rail
- ㉔ Holding rail
- ㉕ Cover profile
- ㉖ Connecting rod
- ㉗ Cover cap for guiding rail
- ㉘ Cover cap for holding rail, left
- ㉙ Cover cap for holding rail, right
- ㉚ Cover cap, bottom left
- ㉛ Cover cap, bottom right
- ㉜ Buffer bottom
- ㉝ Rubber mushroom part
- ㉞ Guide block
- ㉟ Buffer top
- ㊱ Support block (FB 1480 mm or greater)
- ㊲ Insertion stud D10
- ㊳ Locking rod
- ㊴a Fixing screw 4.8 x 50 (no ill.)
- ㊴b Fixing screw 3.9 x 45 (no ill.)
- ㊴c Fixing screw M5 x 25
- ㊴d Fixing screw 3.9 x 9.5 (no ill.)
- ㊵ Snap lock rod, left
- ㊶ Snap lock rod, right

- ⑥b Reducing bush 10/6
- ⑦ Rivet nut
- ⑥c LM Handle UG support

ATRIUM Alu-HKS® 160 S/10

without automatic operation for sash weights of up to 160 kg,
locking system D 10

Unit per scheme

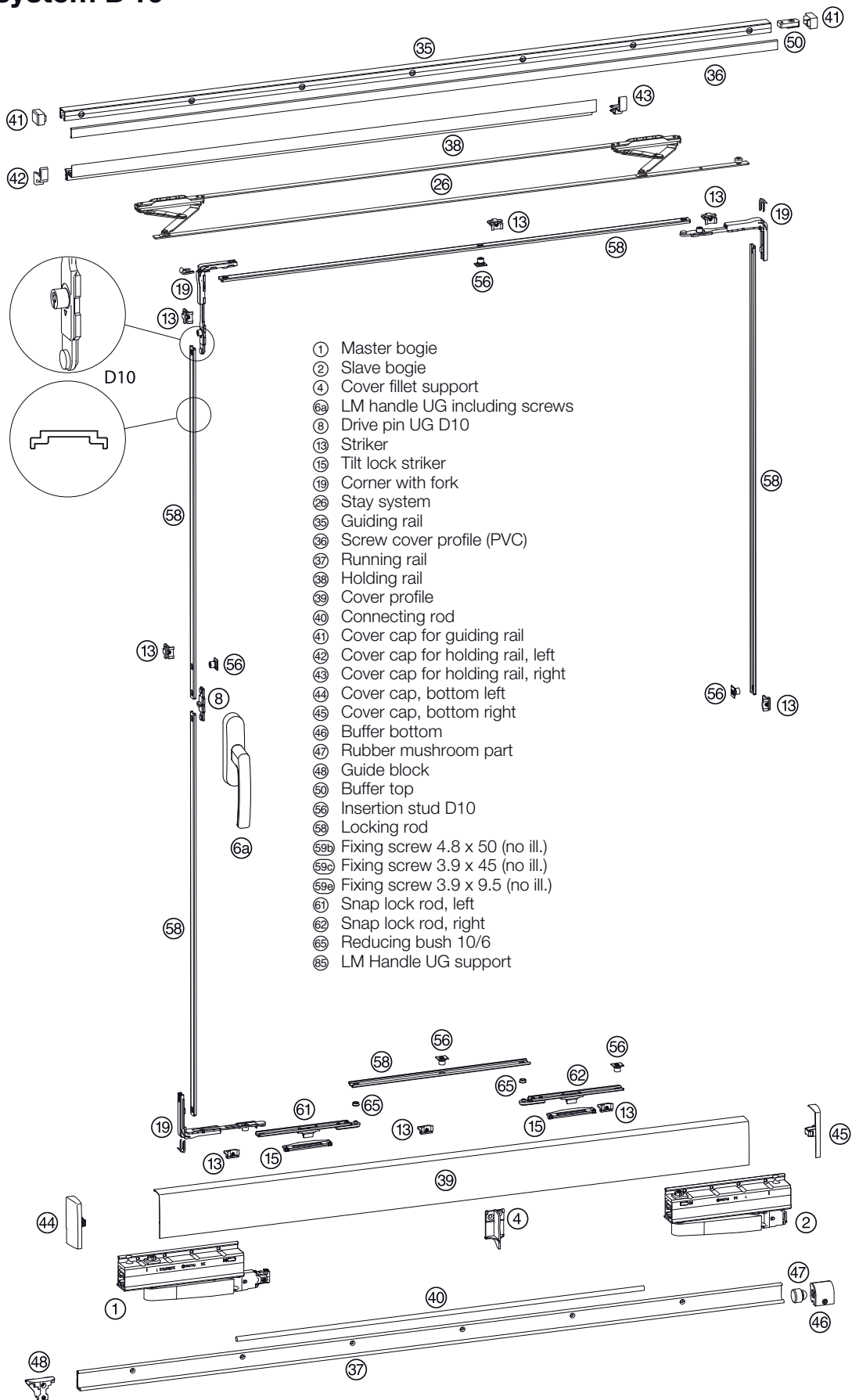
Unit per scheme				Item name	Item code						
A	G	K	C								
1	1	2	1L 1R	Carton of bogies Alu-HKS® 200 ① ② ④ ⑤⑨		left	230497				
						right	230494				
1	1	2	2	Caps bogies, large + support arms Alu-HKS® ③ ④④ ④⑤ ⑤⑨⑩ ⑦⑥	silver 230521	white 230527	black 230524	blank 230518			
1	1	2	2	Accessories locking system Alu-HKS® S R/L D 10 ⑧ ⑩ ⑤⑥ ⑥⑤					233437		
1	1	2	2	Accessories snap lock rod Alu-HKS® S 15/20 ⑥① ⑥② ⑥③ ⑥④					234877		
1	1	2	2	Stay system ⑥⑧		FB 930 217140	FB 1280 217143	FB 1680 217146			
1	1	2	2	LM handle HAUTAU design with gear with fork drive	LM UG	silver 192478	white 192484	black 192481			
1	1	2	2	Bag of accessory strikers (profile-related) ⑬ ⑮ ⑥⑨		see striker table, page 45					
1	1	2	2	Rail set Alu-HKS® ③⑤ ③⑥ ③⑦ ③⑧ ③⑨ ④① ④② ④③ ④④ ④⑤ ④⑥ ④⑦ ④⑧ ⑤① ⑤②③ ⑤④⑤⑥	FB	RAB	silver	white	black	blank	
					730 - 930	1930	230536	230539	230530	230533	
					931-1080	2230	230548	230551	230542	230545	
					1081-1280	2630	230560	230563	230554	230557	
					Also for FB 1480 or greater: ⑤①	1281-1480	3030	230572	230575	230566	230569
	1481-1680	3430	230584	230587	230578	230581					
1	1	2	2	Rail set 7** ⑤②③ ⑤④ ⑤⑤⑥ ⑤⑦ ⑤⑧ ⑤⑨ ⑥① ⑥② ⑥③ ⑥④ ⑥⑤ ⑥⑥ ⑥⑦ ⑥⑧ ⑥⑨ ⑦① ⑦② ⑦③ ⑦④ ⑦⑤ ⑦⑥ ⑦⑦ ⑦⑧ ⑦⑨ ⑧① ⑧② ⑧③ ⑧④ ⑧⑤ ⑧⑥ ⑧⑦ ⑧⑧ ⑧⑨ ⑨① ⑨② ⑨③ ⑨④ ⑨⑤ ⑨⑥ ⑨⑦ ⑨⑧ ⑨⑨ ⑩① ⑩② ⑩③ ⑩④ ⑩⑤ ⑩⑥ ⑩⑦ ⑩⑧ ⑩⑨ ⑪① ⑪② ⑪③ ⑪④ ⑪⑤ ⑪⑥ ⑪⑦ ⑪⑧ ⑪⑨ ⑫① ⑫② ⑫③ ⑫④ ⑫⑤ ⑫⑥ ⑫⑦ ⑫⑧ ⑫⑨ ⑬① ⑬② ⑬③ ⑬④ ⑬⑤ ⑬⑥ ⑬⑦ ⑬⑧ ⑬⑨ ⑭① ⑭② ⑭③ ⑭④ ⑭⑤ ⑭⑥ ⑭⑦ ⑭⑧ ⑭⑨ ⑮① ⑮② ⑮③ ⑮④ ⑮⑤ ⑮⑥ ⑮⑦ ⑮⑧ ⑮⑨ ⑯① ⑯② ⑯③ ⑯④ ⑯⑤ ⑯⑥ ⑯⑦ ⑯⑧ ⑯⑨ ⑰① ⑰② ⑰③ ⑰④ ⑰⑤ ⑰⑥ ⑰⑦ ⑰⑧ ⑰⑨ ⑱① ⑱② ⑱③ ⑱④ ⑱⑤ ⑱⑥ ⑱⑦ ⑱⑧ ⑱⑨ ⑲① ⑲② ⑲③ ⑲④ ⑲⑤ ⑲⑥ ⑲⑦ ⑲⑧ ⑲⑨ ⑳① ⑳② ⑳③ ⑳④ ⑳⑤ ⑳⑥ ⑳⑦ ⑳⑧ ⑳⑨ ㉑① ㉑② ㉑③ ㉑④ ㉑⑤ ㉑⑥ ㉑⑦ ㉑⑧ ㉑⑨ ㉒① ㉒② ㉒③ ㉒④ ㉒⑤ ㉒⑥ ㉒⑦ ㉒⑧ ㉒⑨ ㉓① ㉓② ㉓③ ㉓④ ㉓⑤ ㉓⑥ ㉓⑦ ㉓⑧ ㉓⑨ ㉔① ㉔② ㉔③ ㉔④ ㉔⑤ ㉔⑥ ㉔⑦ ㉔⑧ ㉔⑨ ㉕① ㉕② ㉕③ ㉕④ ㉕⑤ ㉕⑥ ㉕⑦ ㉕⑧ ㉕⑨ ㉖① ㉖② ㉖③ ㉖④ ㉖⑤ ㉖⑥ ㉖⑦ ㉖⑧ ㉖⑨ ㉗① ㉗② ㉗③ ㉗④ ㉗⑤ ㉗⑥ ㉗⑦ ㉗⑧ ㉗⑨ ㉘① ㉘② ㉘③ ㉘④ ㉘⑤ ㉘⑥ ㉘⑦ ㉘⑧ ㉘⑨ ㉙① ㉙② ㉙③ ㉙④ ㉙⑤ ㉙⑥ ㉙⑦ ㉙⑧ ㉙⑨ ㉚① ㉚② ㉚③ ㉚④ ㉚⑤ ㉚⑥ ㉚⑦ ㉚⑧ ㉚⑨ ㉛① ㉛② ㉛③ ㉛④ ㉛⑤ ㉛⑥ ㉛⑦ ㉛⑧ ㉛⑨ ㉜① ㉜② ㉜③ ㉜④ ㉜⑤ ㉜⑥ ㉜⑦ ㉜⑧ ㉜⑨ ㉝① ㉝② ㉝③ ㉝④ ㉝⑤ ㉝⑥ ㉝⑦ ㉝⑧ ㉝⑨ ㉞① ㉞② ㉞③ ㉞④ ㉞⑤ ㉞⑥ ㉞⑦ ㉞⑧ ㉞⑨ ㉟① ㉟② ㉟③ ㉟④ ㉟⑤ ㉟⑥ ㉟⑦ ㉟⑧ ㉟⑨ ㊱① ㊱② ㊱③ ㊱④ ㊱⑤ ㊱⑥ ㊱⑦ ㊱⑧ ㊱⑨ ㊲① ㊲② ㊲③ ㊲④ ㊲⑤ ㊲⑥ ㊲⑦ ㊲⑧ ㊲⑨ ㊳① ㊳② ㊳③ ㊳④ ㊳⑤ ㊳⑥ ㊳⑦ ㊳⑧ ㊳⑨ ㊴① ㊴② ㊴③ ㊴④ ㊴⑤ ㊴⑥ ㊴⑦ ㊴⑧ ㊴⑨ ㊵① ㊵② ㊵③ ㊵④ ㊵⑤ ㊵⑥ ㊵⑦ ㊵⑧ ㊵⑨ ㊶① ㊶② ㊶③ ㊶④ ㊶⑤ ㊶⑥ ㊶⑦ ㊶⑧ ㊶⑨ ㊷① ㊷② ㊷③ ㊷④ ㊷⑤ ㊷⑥ ㊷⑦ ㊷⑧ ㊷⑨ ㊸① ㊸② ㊸③ ㊸④ ㊸⑤ ㊸⑥ ㊸⑦ ㊸⑧ ㊸⑨ ㊹① ㊹② ㊹③ ㊹④ ㊹⑤ ㊹⑥ ㊹⑦ ㊹⑧ ㊹⑨ ㊺① ㊺② ㊺③ ㊺④ ㊺⑤ ㊺⑥ ㊺⑦ ㊺⑧ ㊺⑨ ㊻① ㊻② ㊻③ ㊻④ ㊻⑤ ㊻⑥ ㊻⑦ ㊻⑧ ㊻⑨ ㊼① ㊼② ㊼③ ㊼④ ㊼⑤ ㊼⑥ ㊼⑦ ㊼⑧ ㊼⑨ ㊽① ㊽② ㊽③ ㊽④ ㊽⑤ ㊽⑥ ㊽⑦ ㊽⑧ ㊽⑨ ㊾① ㊾② ㊾③ ㊾④ ㊾⑤ ㊾⑥ ㊾⑦ ㊾⑧ ㊾⑨ ㊿① ㊿② ㊿③ ㊿④ ㊿⑤ ㊿⑥ ㊿⑦ ㊿⑧ ㊿⑨	FB	RAB	silver	white	black	blank	
					730 - 930	1930	244549	244531	244567	244603	
					931-1080	2230	244552	244534	244570	244606	
					⑤②③ ⑤④ ⑤⑤⑥ ⑤⑦ ⑤⑧ ⑤⑨ ⑥① ⑥② ⑥③ ⑥④ ⑥⑤ ⑥⑥ ⑥⑦ ⑥⑧ ⑥⑨ ⑦① ⑦② ⑦③ ⑦④ ⑦⑤ ⑦⑥ ⑦⑦ ⑦⑧ ⑦⑨ ⑧① ⑧② ⑧③ ⑧④ ⑧⑤ ⑧⑥ ⑧⑦ ⑧⑧ ⑧⑨ ⑨① ⑨② ⑨③ ⑨④ ⑨⑤ ⑨⑥ ⑨⑦ ⑨⑧ ⑨⑨ ⑩① ⑩② ⑩③ ⑩④ ⑩⑤ ⑩⑥ ⑩⑦ ⑩⑧ ⑩⑨ ⑪① ⑪② ⑪③ ⑪④ ⑪⑤ ⑪⑥ ⑪⑦ ⑪⑧ ⑪⑨ ⑫① ⑫② ⑫③ ⑫④ ⑫⑤ ⑫⑥ ⑫⑦ ⑫⑧ ⑫⑨ ⑬① ⑬② ⑬③ ⑬④ ⑬⑤ ⑬⑥ ⑬⑦ ⑬⑧ ⑬⑨ ⑭① ⑭② ⑭③ ⑭④ ⑭⑤ ⑭⑥ ⑭⑦ ⑭⑧ ⑭⑨ ⑮① ⑮② ⑮③ ⑮④ ⑮⑤ ⑮⑥ ⑮⑦ ⑮⑧ ⑮⑨ ⑯① ⑯② ⑯③ ⑯④ ⑯⑤ ⑯⑥ ⑯⑦ ⑯⑧ ⑯⑨ ⑰① ⑰② ⑰③ ⑰④ ⑰⑤ ⑰⑥ ⑰⑦ ⑰⑧ ⑰⑨ ⑱① ⑱② ⑱③ ⑱④ ⑱⑤ ⑱⑥ ⑱⑦ ⑱⑧ ⑱⑨ ⑲① ⑲② ⑲③ ⑲④ ⑲⑤ ⑲⑥ ⑲⑦ ⑲⑧ ⑲⑨ ⑳① ⑳② ⑳③ ⑳④ ⑳⑤ ⑳⑥ ⑳⑦ ⑳⑧ ⑳⑨ ㉑① ㉑② ㉑③ ㉑④ ㉑⑤ ㉑⑥ ㉑⑦ ㉑⑧ ㉑⑨ ㉒① ㉒② ㉒③ ㉒④ ㉒⑤ ㉒⑥ ㉒⑦ ㉒⑧ ㉒⑨ ㉓① ㉓② ㉓③ ㉓④ ㉓⑤ ㉓⑥ ㉓⑦ ㉓⑧ ㉓⑨ ㉔① ㉔② ㉔③ ㉔④ ㉔⑤ ㉔⑥ ㉔⑦ ㉔⑧ ㉔⑨ ㉕① ㉕② ㉕③ ㉕④ ㉕⑤ ㉕⑥ ㉕⑦ ㉕⑧ ㉕⑨ ㉖① ㉖② ㉖③ ㉖④ ㉖⑤ ㉖⑥ ㉖⑦ ㉖⑧ ㉖⑨ ㉗① ㉗② ㉗③ ㉗④ ㉗⑤ ㉗⑥ ㉗⑦ ㉗⑧ ㉗⑨ ㉘① ㉘② ㉘③ ㉘④ ㉘⑤ ㉘⑥ ㉘⑦ ㉘⑧ ㉘⑨ ㉙① ㉙② ㉙③ ㉙④ ㉙⑤ ㉙⑥ ㉙⑦ ㉙⑧ ㉙⑨ ㉚① ㉚② ㉚③ ㉚④ ㉚⑤ ㉚⑥ ㉚⑦ ㉚⑧ ㉚⑨ ㉛① ㉛② ㉛③ ㉛④ ㉛⑤ ㉛⑥ ㉛⑦ ㉛⑧ ㉛⑨ ㉜① ㉜② ㉜③ ㉜④ ㉜⑤ ㉜⑥ ㉜⑦ ㉜⑧ ㉜⑨ ㉝① ㉝② ㉝③ ㉝④ ㉝⑤ ㉝⑥ ㉝⑦ ㉝⑧ ㉝⑨ ㉞① ㉞② ㉞③ ㉞④ ㉞⑤ ㉞⑥ ㉞⑦ ㉞⑧ ㉞⑨ ㉟① ㉟② ㉟③ ㉟④ ㉟⑤ ㉟⑥ ㉟⑦ ㉟⑧ ㉟⑨ ㊱① ㊱② ㊱③ ㊱④ ㊱⑤ ㊱⑥ ㊱⑦ ㊱⑧ ㊱⑨ ㊲① ㊲② ㊲③ ㊲④ ㊲⑤ ㊲⑥ ㊲⑦ ㊲⑧ ㊲⑨ ㊳① ㊳② ㊳③ ㊳④ ㊳⑤ ㊳⑥ ㊳⑦ ㊳⑧ ㊳⑨ ㊴① ㊴② ㊴③ ㊴④ ㊴⑤ ㊴⑥ ㊴⑦ ㊴⑧ ㊴⑨ ㊵① ㊵② ㊵③ ㊵④ ㊵⑤ ㊵⑥ ㊵⑦ ㊵⑧ ㊵⑨ ㊶① ㊶② ㊶③ ㊶④ ㊶⑤ ㊶⑥ ㊶⑦ ㊶⑧ ㊶⑨ ㊷① ㊷② ㊷③ ㊷④ ㊷⑤ ㊷⑥ ㊷⑦ ㊷⑧ ㊷⑨ ㊸① ㊸② ㊸③ ㊸④ ㊸⑤ ㊸⑥ ㊸⑦ ㊸⑧ ㊸⑨ ㊹① ㊹② ㊹③ ㊹④ ㊹⑤ ㊹⑥ ㊹⑦ ㊹⑧ ㊹⑨ ㊺① ㊺② ㊺③ ㊺④ ㊺⑤ ㊺⑥ ㊺⑦ ㊺⑧ ㊺⑨ ㊻① ㊻② ㊻③ ㊻④ ㊻⑤ ㊻⑥ ㊻⑦ ㊻⑧ ㊻⑨ ㊼① ㊼② ㊼③ ㊼④ ㊼⑤ ㊼⑥ ㊼⑦ ㊼⑧ ㊼⑨ ㊽① ㊽② ㊽③ ㊽④ ㊽⑤ ㊽⑥ ㊽⑦ ㊽⑧ ㊽⑨ ㊾① ㊾② ㊾③ ㊾④ ㊾⑤ ㊾⑥ ㊾⑦ ㊾⑧ ㊾⑨ ㊿① ㊿② ㊿③ ㊿④ ㊿⑤ ㊿⑥ ㊿⑦ ㊿⑧ ㊿⑨	1081-1280	2630	244555	244537	244573	244609
					1281-1480	3030	244558	244540	244576	244612	
FB > 1480 additional: ⑤①	1481-1680	3430	244561	244543	244579	244615					

Rail set can be used for rebate step height > 10mm

for additional gear designs, see page 38
for additional handle designs, see page 40

ATRIUM Alu-HKS® 160 S/10

without automatic operation for sash weights of up to 100 kg,
locking system D 10



ATRIUM Alu-HKS® 160 S/10

without automatic operation for sash weights of up to 100 kg,
locking system D 10

Unit per scheme

Unit per scheme				Item name	Item code						
A	G	K	C								
1	1	2	1L 1R	Carton of bogies Alu-HKS® 200 ① ② ④ ⑤⑨					left	230497	
									right	230494	
1	1	2	2	Caps bogies, small Alu-HKS® ④④ ④⑤	silver 230509	white 230515	black 230512	brown 238747	blank 230506		
1	1	2	2	Accessories locking system Alu-HKS® S R/L D 10 ⑧ ⑩ ⑤⑨ ⑥⑤						233437	
1	1	2	2	Accessories snap lock rod Alu-HKS® S 15/20 ⑥① ⑥② ⑥③ ⑥④						234877	
1	1	2	2	Stay system ⑥⑥				FB 930 217140	FB 1280 217143	FB 1680 217146	
1	1	2	2	LM handle HAUTAU design with gear with fork drive ⑥⑦	LM UG	silver 192478	white 192484	black 192481	brown 192487		
1	1	2	2	Bag of accessory strikers (profile-related) ⑬ ⑮ ⑥⑧						see striker table, page 45	
1	1	2	2	Rail set Alu-HKS® ③⑤ ③⑥ ③⑦ ③⑧ ③⑨ ④① ④② ④③ ④④ ④⑤ ④⑥ ④⑦ ④⑧ ⑤① ⑤② ⑤③ ⑤④	FB/RAB	silver	white	black	brown	blank	
					930/1930	230536	230539	230530	238819	230533	
					1080/2230	230548	230551	230542	238822	230545	
					1280/2630	230560	230563	230554	238825	230557	
1	1	2	2	Rail set 7** ③⑤③ ③⑥ ③⑦③ ③⑧ ③⑨ ④① ④② ④③ ④④ ④⑤ ④⑥ ④⑦ ④⑧ ⑤① ⑤② ⑤③ ⑤④	FB	RAB	silver	white	black	blank	
					730 - 930	1930	244549	244531	244567	244603	
					931-1080	2230	244552	244534	244570	244606	
					FB > 1480 additional: ⑤①	1081-1280	2630	244555	244537	244573	244609

Rail set can be used for rebate step height > 10mm

for additional gear designs, see page 38
for additional handle designs, see page 40

ATRIUM Alu-HKS® 160 S o.V.

without automatic operation for sash weights of up to 160 kg,
different locking system

Unit per scheme

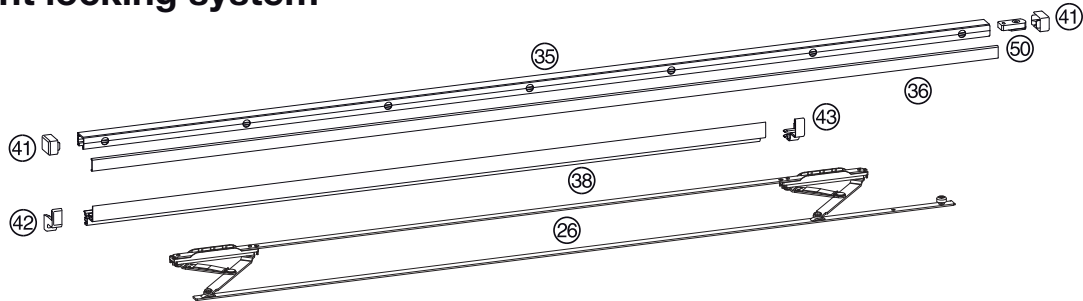
A	G	K	C	Item name	Item code						
1	1	2	1L 1R	Carton of bogies Alu-HKS® 200 ① ② ④ ⑤⑨	left	right	230497	230494			
1	1	2	2	Caps bogies, large + support arms Alu-HKS® ③ ④④ ④⑤ ⑤⑨⑩ ⑦⑥	silver 230521	white 230527	black 230524	blank 230518			
1	1	2	2	Accessories snap lock rod Alu-HKS® S 15/20 ⑥① ⑥② ⑥③ ⑥④	234877						
1	1	2	2	Stay system ⑥⑤	FB 930 217140	FB 1280 217143	FB 1680 217146				
1	1	2	2	Bag of accessory strikers (profile-related) ⑥⑥	see striker table, page 45						
1	1	2	2	Rail set Alu-HKS® ⑥⑤ ⑥⑥ ⑥⑦ ⑥⑧ ⑥⑨ ④① ④② ④③ ④④ ④⑤ ④⑥ ④⑦ ④⑧ ④⑨ ④⑩ ④⑪ ④⑫ ④⑬ ④⑭ ④⑮ ④⑯ ④⑰ ④⑱ ④⑲ ④⑳ ④㉑ ④㉒ ④㉓ ④㉔ ④㉕ ④㉖ ④㉗ ④㉘ ④㉙ ④㉚ ④㉛ ④㉜ ④㉝ ④㉞ ④㉟ ④㊱ ④㊲ ④㊳ ④㊴ ④㊵ ④㊶ ④㊷ ④㊸ ④㊹ ④㊺ ④㊻ ④㊼ ④㊽ ④㊾ ④㊿	FB 730 - 930	RAB 1930	silver 230536	white 230539	black 230530	blank 230533	
					931-1080	2230	230548	230551	230542	230545	
					1081-1280	2630	230560	230563	230554	230557	
					Also for FB 1480 or greater: ④㉞	1281-1480	3030	230572	230575	230566	230569
					1481-1680	3430	230584	230587	230578	230581	
1	1	2	2	Rail set 7** ④⑳ ④㉑ ④㉒ ④㉓ ④㉔ ④㉕ ④㉖ ④㉗ ④㉘ ④㉙ ④㉚ ④㉛ ④㉜ ④㉝ ④㉞ ④㉟ ④㊱ ④㊲ ④㊳ ④㊴ ④㊵ ④㊶ ④㊷ ④㊸ ④㊹ ④㊺ ④㊻ ④㊼ ④㊽ ④㊾ ④㊿	FB 730 - 930	RAB 1930	silver 244549	white 244531	black 244567	blank 244603	
					931-1080	2230	244552	244534	244570	244606	
					1081-1280	2630	244555	244537	244573	244609	
					1281-1480	3030	244558	244540	244576	244612	
					FB > 1480 additional: ④㉞	1481-1680	3430	244561	244543	244579	244615

Rail set can be used for rebate step height > 10mm

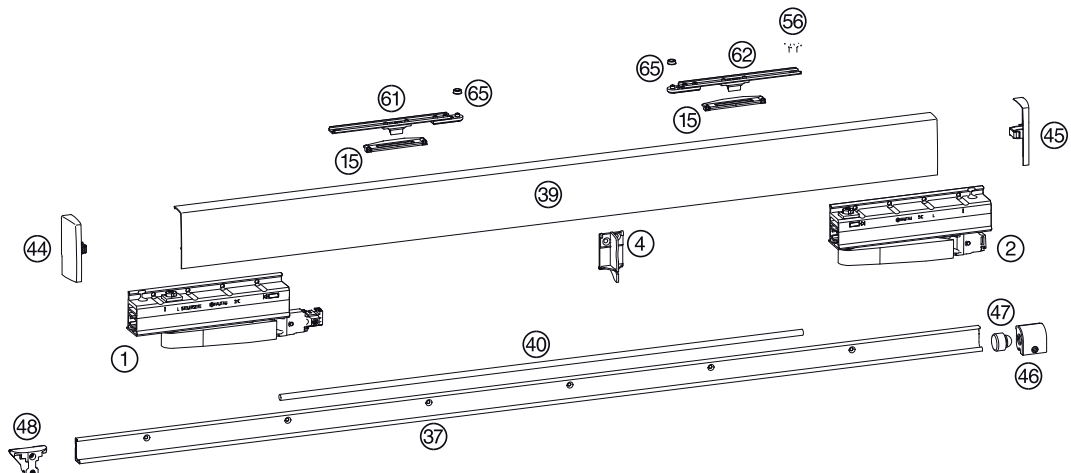
for additional gear designs, see page 38
for additional handle designs, see page 40

ATRIUM Alu-HKS® 160 S o.V.

without automatic operation for sash weights of up to 100 kg,
different locking system



- ① Master bogie
- ② Slave bogie
- ④ Cover fillet support
- ⑮ Tilt lock striker
- ⑳ Stay system
- ㉓ Guiding rail
- ㉔ Screw cover profile (PVC)
- ㉕ Running rail
- ㉖ Holding rail
- ㉗ Cover profile
- ㉘ Connecting rod
- ㉙ Cover cap for guiding rail
- ㉚ Cover cap for holding rail, left
- ㉛ Cover cap for holding rail, right
- ㉜ Cover cap, bottom left
- ㉝ Cover cap, bottom right
- ㉞ Buffer bottom
- ㉟ Rubber mushroom part
- ㊱ Guide block
- ㊲ Buffer top
- ㊳ Insertion stud D10
- ㊴ Fixing screw 4.8 x 50 (no ill.)
- ㊵ Fixing screw 3.9 x 45 (no ill.)
- ㊶ Fixing screw 3.9 x 9.5 (no ill.)
- ㊷ Snap lock rod, left
- ㊸ Snap lock rod, right
- ㊹ Reducing bush 10/6



ATRIUM Alu-HKS® 160 S o.V.

without automatic operation for sash weights of up to 100 kg,
different locking system

Unit per scheme

Unit per scheme				Item name	Item code						
A	G	K	C								
1	1	2	1L 1R	Carton of bogies Alu-HKS® 200 ① ② ④ ⑤⑥						left	230497
										right	230494
1	1	2	2	Caps bogies, small Alu-HKS® ④④ ④⑤		silver	white	black	blank		
						230509	230515	230512	230506		
1	1	2	2	Accessories snap lock rod Alu-HKS® S 15/20 ⑥① ⑥② ⑥③ ⑥④							234877
1	1	2	2	Stay system ⑥⑤			FB 930	FB 1280	FB 1680		
							217140	217143	217146		
1	1	2	2	Bag of accessory strikers (profile-related) ⑥⑥			see striker table, page 45				
1	1	2	2	Rail set Alu-HKS® ⑥⑤ ⑥⑥ ⑥⑦ ⑥⑧ ⑥⑨ ④① ④② ④③ ④④ ④⑤ ④⑥ ④⑦ ④⑧ ⑤① ⑤②c ⑤③e	FB	RAB	silver	white	black	blank	
					730 - 930	1930	230536	230539	230530	230533	
					931-1080	2230	230548	230551	230542	230545	
					1081-1280	2630	230560	230563	230554	230557	
1	1	2	2	Rail set 7** ⑥⑤a ⑥⑥ ⑥⑦a ⑥⑧ ⑥⑨ ④① ④② ④③ ④④ ④⑤ ④⑥ ④⑦ ④⑧ ⑤① ⑤②c ⑤③e FB > 1480 additional: ⑥①	FB	RAB	silver	white	black	blank	
					730 - 930	1930	244549	244531	244567	244603	
					931-1080	2230	244552	244534	244570	244606	
					1081-1280	2630	244555	244537	244573	244609	

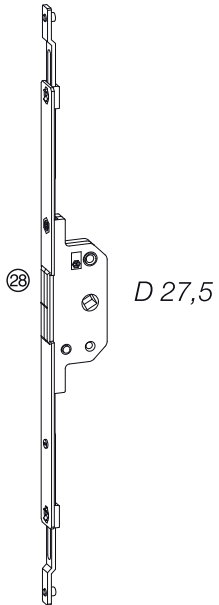
Rail set can be used for rebate step height > 10mm

for additional gear designs, see page 38
for additional handle designs, see page 40

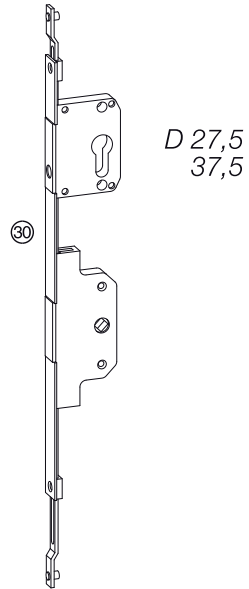
Gear types ATRIUM Alu-HKS®

Alu-HKS® 200 Z

EG

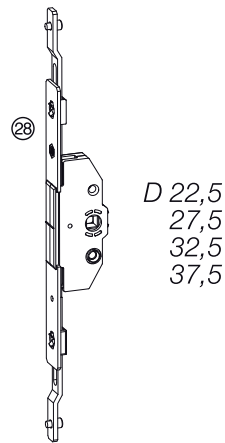


EG-Pz

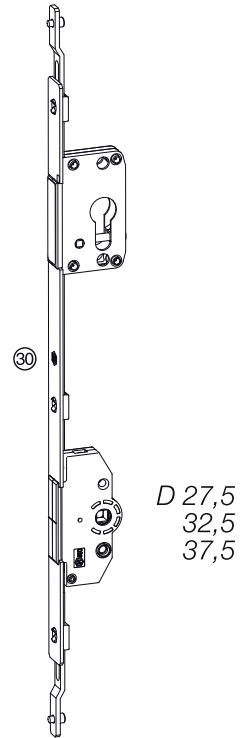


Alu-HKS® 160 S

EG



EG-Pz



2 x



3 x

- 28 Espag EG
- 30 Espag EG, lockable
- 599 Screw 3.9 x 22
- 65 Reducing bush 10/6

Gear types ATRIUM Alu-HKS®

Alu-HKS® 200 Z

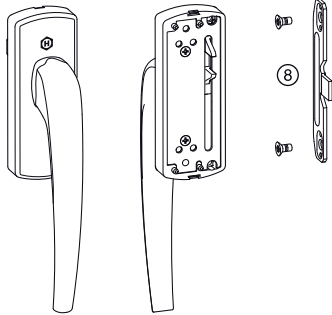
Item name	Backset	Item code
Espag ZL ⑳	D 27,5	240523
Espag ZL	D 27.5	148402
lockable ㉑	D 37.5	149194

Alu-HKS® 160 S

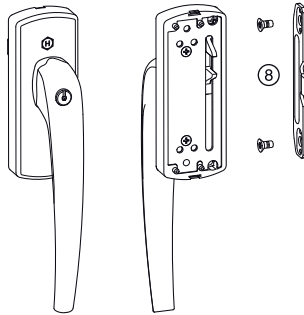
Item name	Backset	Item code
Gearbox espag S and S o.V. (different locking system) ㉒	D 22.5	161167
	D 27.5	175392
	D 32.5	176331
	D 37.5	176334
Gearbox espag S and S o.V. (different locking system), lockable ㉓	D 27.5	148420
	D 32.5	156524
	D 37.5	148423
Bag of accessory Alu-HKS gearbox espag ㉔ ㉕		221882
Bag of accessory Alu-HKS reducing bushes 10/6 ㉖ (10 pcs.)		232732

Handles ATRIUM Alu-HKS®

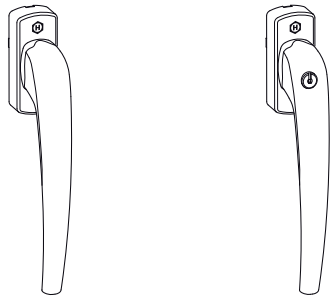
Alu-HKS® 200 Z



⑥ HAUTAU design handle
203 AG



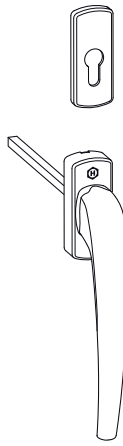
⑦ HAUTAU design handle
203 AG-S



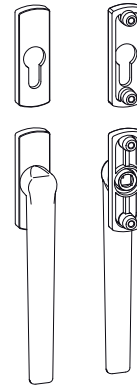
⑨ HAUTAU design handle
201 EG



⑩ HAUTAU design handle
201 EG-S

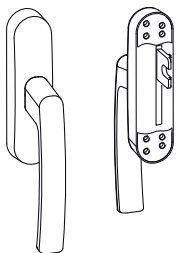


⑪ HAUTAU design handle
201 EG-Pzl

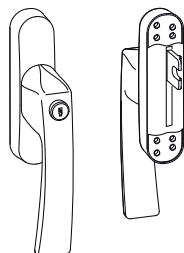


⑫ HAUTAU design handle
201 EG-PzA*

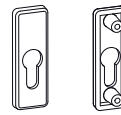
Alu-HKS® 160 S



⑥a HAUTAU design handle
UG



⑥b HAUTAU design handle
UG-S



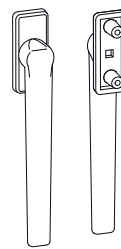
⑨a HAUTAU design handle
161 EG



⑩a HAUTAU design handle
161 EG-S



⑪a HAUTAU design handle
161 EG-Pzl



⑫a HAUTAU design handle
160 EG-PzA*

Handles ATRIUM Alu-HKS®

Alu-HKS® 200 Z

Item name			Item code			
LM handle HAUTAU design including gear with fork drive	203 AG ⑥	left	blank	EV 1	white	black
		right	230446	230428	230434	230440
	203 AG-S ⑦	left	230443	230425	230431	230437
		right		230464	230461	230470
LM handle HAUTAU design for gearbox espag right/left	201 EG ⑨		EV 1	white	black	F9
			170747	170741	170744	170753
			170762	170756	170759	170768
			170798	170792	170795	170801
			170789	170783	170786	177018
Spare Key for handle 203 AG-S and 201 EG-S						176805

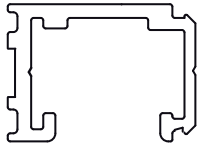
* Range of application: max. sash profile depth (FT): 90 mm

Alu-HKS® 160 S

Item name			Item code		
LM handle HAUTAU design including gear with fork drive	LM UG ⑥a		silver	white	black
			192478	192484	192481
		LM UG-S ⑥b	194972	194978	194981
LM handle HAUTAU design for gearbox espag	161 EG ⑨a		EV 1	white	black
			206206	206209	206212
		161 EG-S ⑩a	206215	206218	206221
LM handle HAUTAU design for lockable gearbox espags	161 EG Pzl ⑪a		EV 1	white	black
			206224	206227	206230
		160 EG PzA* ⑫a	163272	163275	178090

* Range of application: max. sash profile depth (FT): 90 mm

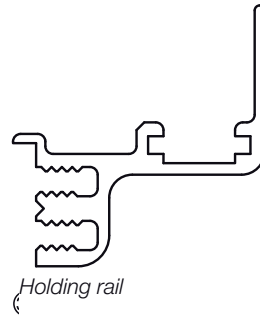
Profiles in stock lengths / accessories



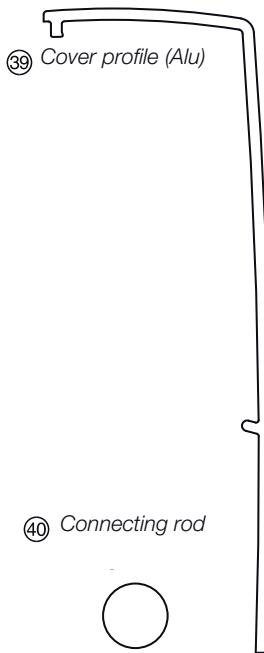
35 Guiding rail



36 Screw cover profile (PVC)

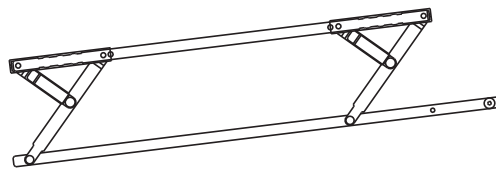


Holding rail

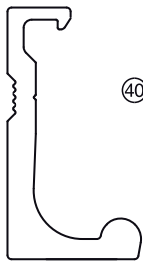


39 Cover profile (Alu)

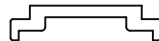
40 Connecting rod



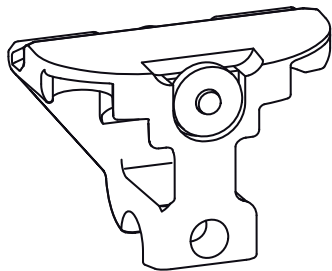
26 Stay system



37 Running rail



58 Locking rod



49 Guide block, movable



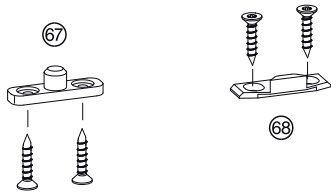
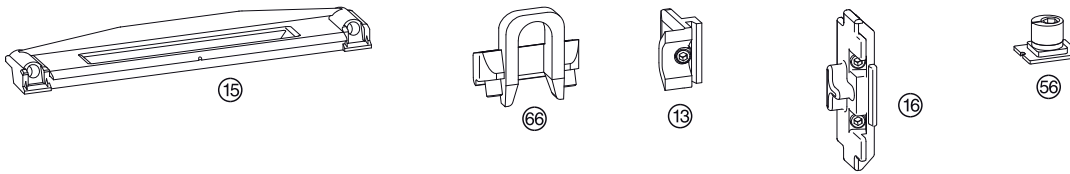
Accessory rail set

- 44 Cover cap bottom left
- 45 Cover cap bottom right

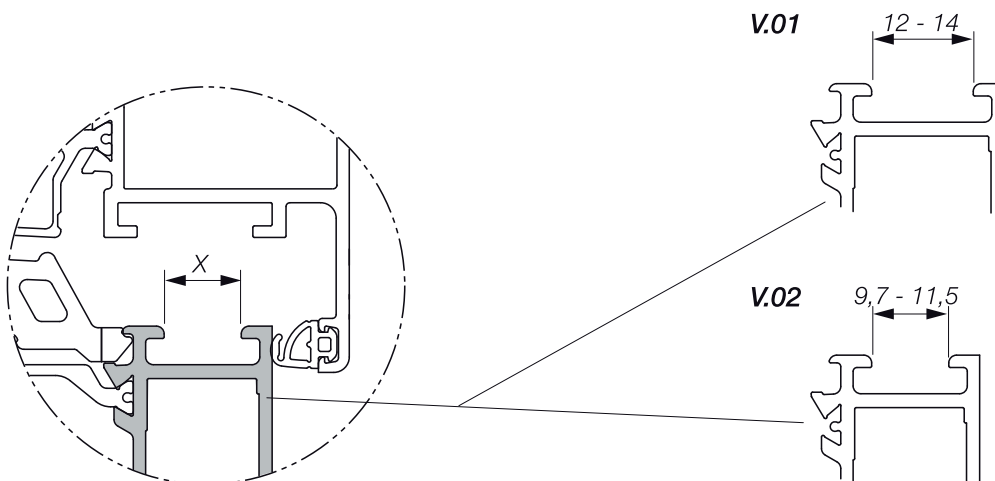
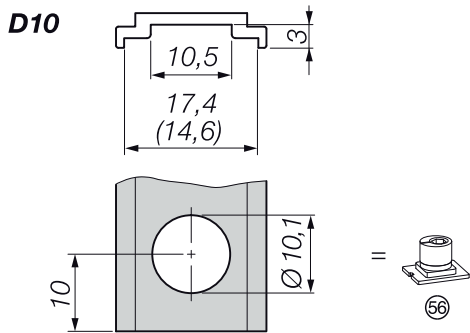
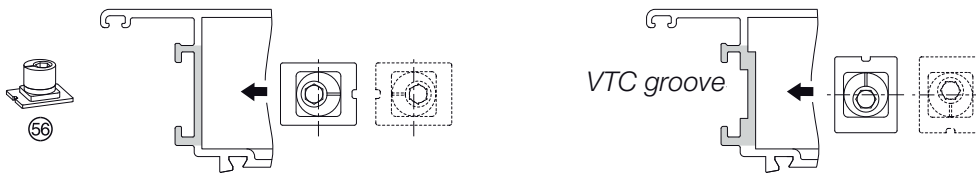
Profiles in stock lengths / accessories

Item name		Item code			
Guiding rail 35	L 6070 mm			EV 1	
					113066
Guiding rail 7 35a	L 6070 mm			EV 1	
					243286
Running rail 5.2 37	L 6070 mm			EV 1	black
				301354	301357
Running rail 7.2 37a	L 6070 mm			EV 1	black
				301834	301835
Screw cover profile 36	L 6080 mm		grey	white	black
			224346	127046	175515
Cover profile, bogies 39	L 5220 mm	silver	white	black	blank
		232423	232429	232426	232432
Holding rail H 14 38	L 5220 mm	silver	white	black	blank
		234656	234650	234662	234644
Connecting rod D 10 40	L 3600 mm				110387
Accessories cover caps bogies, large 44 45		silver	white	black	
		228715	228721	228718	
Accessory rail set		silver	white	black	blank
		230611	230614	230617	230611
Guide block, movable 49					silver
					203748
Stay system (PU 10 units) 26			FB 650- 930		220302
			FB 931-1280		220326
			FB 1281-1680		220350
Locking rod 58	L 6000 mm				190294

Strikers



- 13 Striker V.01/V.02
- 15 Tilt lock striker
- 16 Buffer anti-mishandling device
- 56 Insertion stud D10
- 56a Rivet stud D6
- 66 Guide
- 67 Plate top, scheme C
- 68 Plate bottom, scheme C



Strikers

Z design

Item name	Item code		
	Groove V.01	Groove	
Accessories striker set HKS 200 Z ⑬ ⑮ ⑯ ⑰			
V.02 Basic set for all Z designs	232789	232792	
Accessories insertion studs D 10 3 units ⑳ (always required for all Z designs)			232795
Accessories scheme C strikers HKS 200 Z ⑱ ⑲	Groove 10	Groove 12	Groove 14
Scheme C strikers, top/bottom for all Z designs	113768	113771	113774

S design

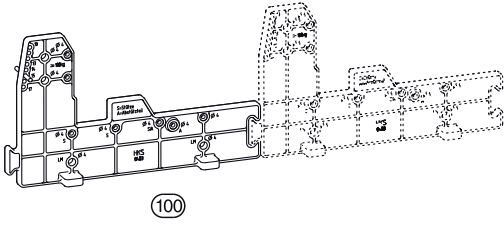
Item name	Item code	
	Groove V.01	Groove
Accessories striker set, insertion studs D 10 ⑬ ⑮ ⑰		
Basic set for S design with insertion studs D 10	232819	232822
Accessories tilt-lock striker set ⑱ for different locking system design o.V.	232825	232828

Z+S design

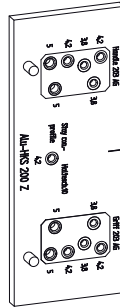
Item name	Item code	
	Groove V.01	Groove
Accessories locking parts with insertion studs D 10, size 10 PU (10 pcs.) ⑬ ⑰		
for optional closing positions as specified in the note below S+Z design	232801	232807

Note: It is necessary for sash widths and sash heights of > 1680 mm and > 2180 mm, respectively, to set additional locking positions. This requires the use of the bag of accessory locking parts (depending on the design, either D 10 V.01 or V.02).

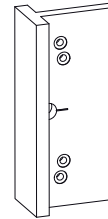
Mounting tools



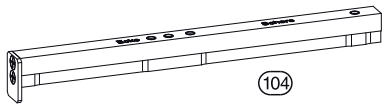
100



101

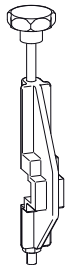


103



104

- 100 Jig for bogies, cover fillet supports, and support arms
- 101 Jig for gear with fork drive handle (AG) and holding rail
- 103 Jig for gear with fork drive UG and UG-S
- 104 Jig for corner and stay
- 105 Screw jig for running rail and guiding rail
- 106 Tool for glider release, stay alignment and anti-lifting device
- 107 Drill centring device
- 108 Screw jig - guide block
- 109 Jig for movable guide block



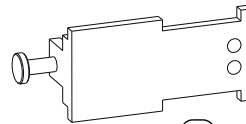
105



106



107



108



109

Mounting tools

Item name	Item code
Jig for bogies, cover fillet supports, and support arms ⁽¹⁰⁰⁾	215277
Jig for corners and stays ⁽¹⁰⁴⁾	206860
Jig - handle UG ⁽¹⁰³⁾	173281
Jig - handle 203 AG ⁽¹⁰¹⁾ , holding rail	234782
Screw jig- guiding rail/running rail ⁽¹⁰⁵⁾	215256
Screw jig for guide block ⁽¹⁰⁸⁾	215301
Jig for movable guide block ⁽¹⁰⁹⁾	217971
Drill centring device ⁽¹⁰⁷⁾	110747
Tool - glider release ⁽¹⁰⁶⁾ <i>must also be used to align the stay and as a tool for the anti-lifting device</i>	215283

Documents - overview

Document	Language	Item code
Installation instructions Alu-HKS® 200 Z	German	232777
	English	233590
Installation instructions Alu-HKS® 160 S	German	232783
	English	233596
Installation instructions Alu-HKS® 160 S o.V.	German	233935
	English	233938
Supplementary instructions EG / scheme C Alu-HKS® 200 Z	German	233593
	English	233593
Maintenance and operating instructions Alu-HKS® 200 Z	German	232780
	English	232780
Maintenance and operating instructions Alu-HKS® 160 S und 160 o.V.	German	232786
	English	232786
Supplementary instructions Alu-HKS® 200 Z FH > 2180 FB > 1680	German	234829
	English	234829



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Experience, creativity and cutting-edge expertise – HAUTAU's specialist knowledge sets benchmarks worldwide, defining technical standards to create perfection in hardware systems and window automation.

Probably more than any other company, HAUTAU has dealt with all window opening types and operation systems. Over 400 patents, numerous utility models and a global market presence serve as a testament to HAUTAU's success.