



WINDOW TECHNOLOGY
DOOR TECHNOLOGY
AUTOMATIC ENTRANCE SYSTEMS
BUILDING MANAGEMENT SYSTEMS



WINDOW TECHNOLOGY – ORDER CATALOGUE



Lift&Slide hardware for aluminium elements

Edition 01/2024

Securing technology for you



The Gretsch-Unitas group

Opening, moving, closing, securing – true to its motto "Securing technology for you", Gretsch-Unitas group provides groundbreaking solutions for window and door technology, automatic entrance systems and building management systems. With its system brands, the group delivers solutions for burglar inhibition on doors and windows, for barrier-free building, for doors in escape and rescue routes, extending to individual facade solutions for projects.



Gretsch-Unitas GmbH Baubeschläge



GU in Ditzingen is the headquarters of the group, development, administration and the production of modern architectural hardware for window and door technology. Apart from different flexible assembly departments, the production site comprises a high-tech punching, galvanising and anodising facility.

BKS GmbH



BKS manufactures mechanical and electronic locking cylinders, locks, locking systems and panic locks for escape and rescue routes. Harmonised mechanical and electronic system solutions are available for access control.

FERCO International S.A.S.



Ferco is the largest production site for window hardware in France. As a subsidiary of the Gretsch-Unitas group, Ferco also offers customer support and distribution in France for all products of the group.



GU Automatic



GU Automatic offers innovative, secure and reliable solutions for automatic entrance systems and automatic door systems, revolving doors, all-glass sliding walls, security curved sliding doors and controlled physical access.

ela-soft



The successful GEMOS facility management and organisation system was designed by ela-soft, one of the market and technology leaders in the building technology branch.

Securing technology for you



FASCINATION & SLIDE

LIFT&SLIDE

REINVENTED BY THE INVENTOR

Gretsch-Unitas has more than 60 years of Lift&Slide expertise: by inventing the Lift&Slide system, Gretsch-Unitas set standards for outstanding functionality, comfort, security and design. Thanks to many enhancements and additional packages, individual Lift&Slide solutions perfectly tailored to customer requirements can be designed and retrofitted. GU hardware has a fabricator-friendly design, and a wide range of fixing accessories, and one-to-one support with planning and construction is available.

FIND OUT MORE IN FASCINATION
LIFT&SLIDE





Securing technology for you





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Akotherm AT 750 HS / L&S bogie GU-934

Application ranges



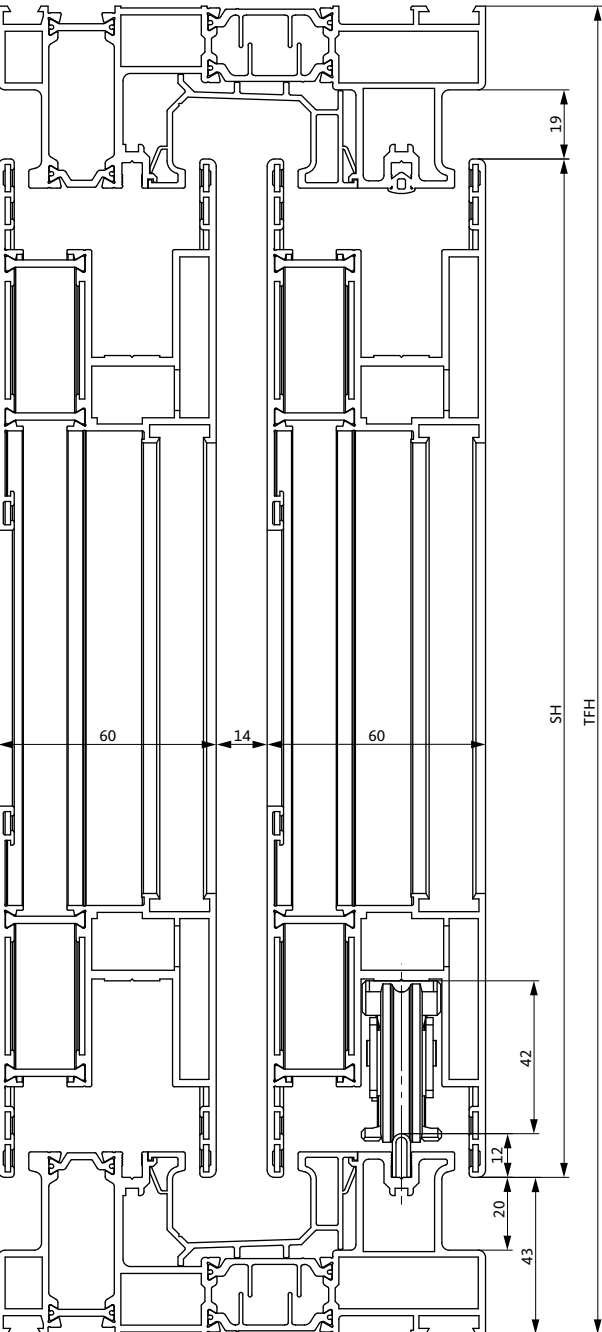
RC2

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	822–2722 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

SH : SW = 2.5 : 1

Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45754	from page 11
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS StopUnit / HS SilentClose	0-45754	from page 268
HS SpeedLimiter	0-44550	from page 270

- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".



SH = sash height / TFH = total frame width

Possible patterns

Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right

Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig: sliding direction to the right and left

Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left

Pattern F
4 Lift&Slide doors
Fig: sliding direction to the right and left

Pattern G1 symmetrical
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right

Pattern H
3 Lift&Slide doors
(like pattern G1 symmetrical)
Fig: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie							Designation	Contents	Finish	PU	Order no.
Pattern											
A	C	D	F	G1	H						
1	2	2	4	1	3	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
								faceGUard	1	K-16488-00-0-18	

Rod Ø 8 mm												
Pattern						Designation	SW [mm]	Length [mm]	Finish	PU	Order no.	
A	C	D	F	G1	H							
1	2	2	4	1	3	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1	
									faceGUard	1	9-25476-11-0-18	
							1601 – 1850	1350	ferGUard	1	9-25476-14-0-1	
									faceGUard	1	9-25476-14-0-18	
							1851 – 2350	1850	ferGUard	1	9-25476-18-0-1	
									faceGUard	1	9-25476-18-0-18	
							2351 – 3300	3300	ferGUard	1	9-25476-33-0-1	
									faceGUard	1	9-25476-33-0-18	

L&S bogie and rod – for sash weights up to 400 kg



L&S bogie							Designation	Contents	Finish	PU	Order no.
Pattern											
A	C	D	F	G1	H						
1	2	2	4	1	3	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
								faceGUard	1	K-16488-00-0-18	
1	2	2	4	1	3	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1	
								faceGUard	1	K-17804-01-0-18	

Rod Ø 8 mm												
Pattern						Designation	SW [mm]	Length [mm]	Finish	PU	Order no.	
A	C	D	F	G1	H							
1	2	2	4	1	3	Rod Ø 8 mm	1270 – 1600	1100	ferGUard	1	9-25476-11-0-1	
									faceGUard	1	9-25476-11-0-18	
							1601 – 1850	1350	ferGUard	1	9-25476-14-0-1	
									faceGUard	1	9-25476-14-0-18	
							1851 – 2350	1850	ferGUard	1	9-25476-18-0-1	
									faceGUard	1	9-25476-18-0-18	
							2351 – 3300	3300	ferGUard	1	9-25476-33-0-1	
									faceGUard	1	9-25476-33-0-18	

Akotherm AT 750 HS / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset												
Pattern						SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F	G1	H				Cover rail	Lock case, connecting rod		
1	2	2	4	1	3	822 – 1242	1190	407	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
									UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
						1192 – 1822	1770	407	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
									UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
						1822 – 2322	2270	1007	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
									UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
									EV 1 / light grey	faceGUard	10	6-30021-24-0-18
						2072 – 2722	2670	1007	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
									UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
									EV 1 / light grey	faceGUard	10	6-30021-28-0-18
Optional: Gear extension set 500 mm												
1	2	2	4	1	3	max. 3222	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
									UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
									EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm												
1	2	2	4	1	3	max. 3222	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
									UC 5 / dark bronze	–	10	9-28483-05-0-5
Basic hardware set for Akotherm AT 750 HS												
Pattern						Designation					PU	Order no.
A	C	D	F	G1	H							
1	2	2	4	1	3	Basic hardware set for Akotherm AT 750 HS					1	K-16934-00-0-0
Contains: 1 x packer, 5 x spacer, 2 x frame cam, 1 x buffer, 2 x rubber buffer, fixing screws, cover caps												
Optional: packers for frame cams												
Pattern						Designation			Finish	PU	Order no.	
A	C	D	F	G1	H							
1	1	1	1	–	1	Packer 0.5 mm			stainless steel	10	K-18309-01-0-8	
1	1	1	1	–	1	Packer 1.0 mm			stainless steel	10	K-18309-02-0-8	
Accessories												
Pattern						Designation					PU	Order no.
A	C	D	F	G1	H							
–	1	–	1	–	–	Accessories set					1	K-13392-00-0-5
Contains: 8 x pin, 4 x bushing, fixing screws												
L&S bottom keeper [1]												
Pattern						Designation			Finish	PU	Order no.	
A	C	D	F	G1	H							
–	–	–	–	1	1	L&S bottom keeper			stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws												
[1] Optionally with patterns A, C, D and F												

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]

Pattern						Designation	PU	Order no.
A	C	D	F	G1	H			
1	2	2	4	1	3	Tension spring	1	9-40235-05-0-0

[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.

L&S handle damper [1]

Pattern						Designation	PU	Order no.
A	C	D	F	G1	H			
1	2	2	4	1	3	L&S handle damper	1	K-19053-00-0-6

Contains: 1 x handle damper, accessory
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device										
Pattern						Designation	Finish	PU	Order no.	
A	C	D	F	G1	H					
1	2	2	4	–	2	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
							UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws										

L&S anti-jemmy device										
Pattern						Designation	Finish	PU	Order no.	
A	C	D	F	G1	H					
1	2	2	4	–	2	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket										

Vertical packer										
Pattern						Designation	PU	Order no.		
A	C	D	F	G1	H					
1	2	2	4	–	2	Vertical packer	1	9-47295-08-0-1		

P 959 connecting rod for L&S anti-jemmy device											
Pattern						Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1	H						
1	2	2	4	–	2	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
							1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
							1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
							2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
							Stock length	4800	ferGUard	1	9-28355-48-0-1

* Please observe the application ranges and processing guidelines of the system provider.

Akotherm AT 750 HS / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1][2]									
Pattern						Designation	Finish	PU	Order no.
A	C	D	F	G1	H				
1	2	2	4	1	3	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
							dark brown [3]	1	6-24608-00-0-5
							white, RAL 9016	1	6-24608-00-0-7
1	2	2	4	1	3	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
							dark brown [3]	1	6-24609-00-0-5
							white, RAL 9016	1	6-24609-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] The fixing screws are contained in the basic hardware set for Akotherm AT 750 HS / order number K-16934-00-0-0.

[3] Similar to RAL 8022

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]							Designation	Finish	PU	Order no.
Pattern										
A	C	D	F	G1	H					
1	2	2	4	1	3	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
							dark brown [2]	1	6-24608-00-0-5	
							white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	1	3	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
							dark brown [2]	1	6-24609-00-0-5	
							white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull										
Pattern						Designation	Finish	PU	Order no.	
A	C	D	F	G1	H					
1	2	2	4	1	3	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
							dark brown [1]	1	9-29992-01-0-5	
							white, RAL 9016	1	9-29992-01-0-7	

[1] Similar to RAL 8022

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]										
Pattern						Designation	Finish	PU	Order no.	
A	C	D	F	G1	H					
1	2	2	4	1	3	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
							dark brown [2]	1	6-24615-96-0-5	
							white, RAL 9016	1	6-24615-96-0-7	
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022										

Accessories for application examples 2 and 3

Fixing screws										
Pattern						Designation	Example of application	PU	Order no.	
A	C	D	F	G1	H					
2	4	4	8	2	6	Countersunk screw M6 x 65 mm	2 + 3	1	9-13274-65-0-1	
Optional: gasket plates										
Pattern						Designation	Example of application	Finish	PU	Order no.
A	C	D	F	G1	H					
1	2	2	4	1	3	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	2	4	1	3	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Alcoa Europe / L&S bogie GU-934

Application ranges



RC2

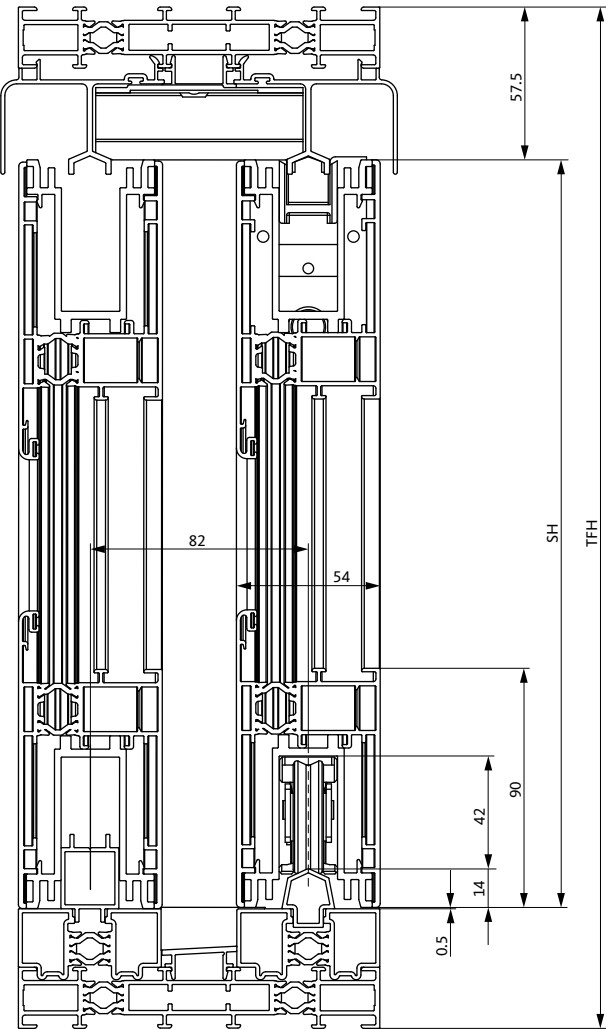
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	845–2745 mm	350 kg	GU-934

SH : SW = 2.5 : 1

Installation drawings

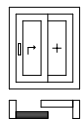
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-44730	from page 17
HS LiftUnit GU-934	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270



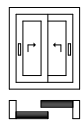
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie						
Pattern		Designation	Finish	PU	Order no.	
A	D					
1	2	L&S bogie GU-934, front	ferGUard	1	[1]	
1	2	L&S bogie GU-934, rear	ferGUard	1	[1]	
[1] The L&S bogies are included in the basic hardware set for Alcoa Europe / order number K-16971-00-0-0.						

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D						
1	2	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1

Alcoa Europe / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset								
Pattern		SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	D				Cover rail	Lock case, connecting rod		
1	2	845 – 1265	1190	410	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
		1215 – 1845	1770	410	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
		1845 – 2345	2270	1010	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
		2095 – 2745	2670	1010	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
Optional: Gear extension set 500 mm								
1	2	max. 3245	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
					UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
Optional: Cover-rail extension set 500 mm								
1	2	max. 3245	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
					UC 5 / dark bronze	–	10	9-28483-05-0-5

Basic hardware set for Alcoa Europe				
Pattern		Designation	PU	Order no.
A	D			
1	2	Basic hardware set for Alcoa Europe	1	K-16971-00-0-0
Contains: 1 x front bogie, 1 x rear bogie, 1 x packer, 6 x spacer, 3 x frame cam, 3 x packer, 3 x rubber buffer, 3 x guide, 1 x cover cap, 1 x PC screw-hole cover cap, gaskets, fixing screws				

Optional: L&S buffer 90					
Pattern		Designation	Finish	PU	Order no.
A	D				
2	2	L&S buffer 90	black	1	K-12024-00-0-6
			white	1	K-12024-00-0-7
			cream white	1	K-12024-00-0-7Z
Contains: 1 x buffer, 1 x cover cap, fixing screws					

Additional kit L&S night vent module

Frame cam					
Pattern		Designation	Finish	PU	Order no.
A	D				
2	4	Frame cam	stainless steel	1	9-43830-04-0-8
L&S bottom keeper					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	L&S bottom keeper	stainless steel	1	K-12057-00-0-1
Contains: 1 x bottom keeper, fixing screws					

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	Tension spring		1	9-40235-05-0-0
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.					
L&S handle damper [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	L&S handle damper		1	K-19053-00-0-6
Contains: 1 x handle damper, accessory					
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.					



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Alcoa Europe / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
			dark brown [2]	1	6-24606-00-0-5
			white, RAL 9016	1	6-24606-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
			dark brown [2]	1	6-24607-00-0-5
			white, RAL 9016	1	6-24607-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
			dark brown [2]	1	6-24606-00-0-5
			white, RAL 9016	1	6-24606-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
			dark brown [2]	1	6-24607-00-0-5
			white, RAL 9016	1	6-24607-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
			dark brown [1]	1	9-29992-01-0-5
			white, RAL 9016	1	9-29992-01-0-7
[1] Similar to RAL 8022					

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
			dark brown [2]	1	6-24615-96-0-5
			white, RAL 9016	1	6-24615-96-0-7

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
 [2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws						
Pattern		Designation	Example of application	PU	Order no.	
A	D					
2	4	Countersunk screw M6 x 20 mm	1	1	9-13274-20-0-1	
2	4	Countersunk screw M6 x 65 mm	2	1	9-13274-65-0-1	
2	4	Countersunk screw M6 x 70 mm	3	1	9-13274-70-0-1	

Optional: gasket plates						
Pattern		Designation	Example of application	Finish	PU	Order no.
A	D					
1	2	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Aliplast Ultraglide / L&S bogie GU-934

Application ranges



RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	857–2727 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

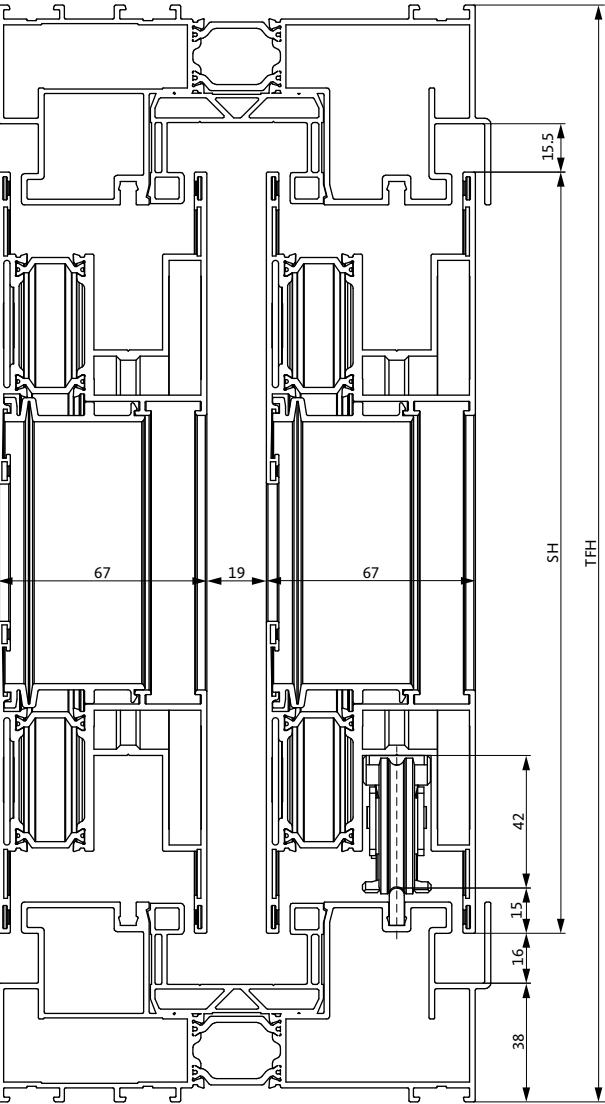
SH : SW = 2.5 : 1

Installation drawings

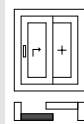
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45871	from page 23
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270

Note:

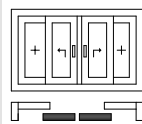
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".



Possible patterns



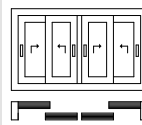
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



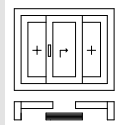
Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig: sliding direction to the right and left



Pattern G1 symmetrical
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie										
Pattern					Designation	Contents	Finish	PU	Order no.	
A	C	D	F	G1						
1	2	2	4	1	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
							faceGUard	1	K-16488-00-0-18	

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
								faceGUard	1	9-25476-11-0-18
						1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
								faceGUard	1	9-25476-14-0-18
						1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
								faceGUard	1	9-25476-18-0-18
						2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
								faceGUard	1	9-25476-33-0-18



L&S bogie and rod – for sash weights up to 400 kg

L&S bogie										
Pattern						Designation	Contents	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
							faceGUard	1	K-16488-00-0-18	
1	2	2	4	1	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1	
							faceGUard	1	K-17804-01-0-18	

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	Rod Ø 8 mm	1230 – 1600	1100	ferGUard	1	9-25476-11-0-1
								faceGUard	1	9-25476-11-0-18
						1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
								faceGUard	1	9-25476-14-0-18
						1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
								faceGUard	1	9-25476-18-0-18
						2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
								faceGUard	1	9-25476-33-0-18

Aliplast Ultraglide / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset											
Pattern					SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F	G1				Cover rail	Lock case, connecting rod		
1	2	2	4	1	857 – 1247	1190	407	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
					1197 – 1827	1770	407	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
					1828 – 2327	2270	1007	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
								EV 1 / light grey	faceGUard	10	6-30021-24-0-18
					2077 – 2727	2670	1007	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5								
EV 1 / light grey	faceGUard	10	6-30021-28-0-18								
Optional: Gear extension set 500 mm											
1	2	2	4	1	max. 3227	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
								UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
								EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm											
1	2	2	4	1	max. 3227	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
								UC 5 / dark bronze	–	10	9-28483-05-0-5
Basic hardware set for Aliplast Ultraglide											
Pattern					Designation					PU	Order no.
A	C	D	F	G1							
1	2	2	4	1	Basic hardware set for Aliplast Ultraglide					1	K-18082-00-0-0
Contains: 1 x packer, 5 x spacer, 2 x frame cam, 2 x rubber buffer, 1 x PC screw-hole cover cap, fixing screws											
Frame cam											
Pattern					Designation			Finish	PU	Order no.	
A	C	D	F	G1							
–	2	–	2	–	Frame cam			stainless steel	1	6-22623-03-0-8	
L&S buffer 90 [1]											
Pattern					Designation			Finish	PU	Order no.	
A	C	D	F	G1							
–	–	2	4	2	L&S buffer 90			black	1	K-17134-00-0-6	
								white	1	K-17134-00-0-7	
Contains: 1 x buffer, 1 x cover cap, fixing screws [1] Optionally with patterns A and C											
Fixing screws											
Pattern					Designation					PU	Order no.
A	C	D	F	G1							
1	2	2	4	1	Bag of screws					1	K-12256-00-0-0
Contains: 1 x PC screw-hole cover cap, fixing screws											

Accessories									
Pattern					Designation	PU	Order no.		
A	C	D	F	G1					
–	1	–	1	–	Accessories set	1	K-13392-00-0-5		
Contains: 8 x pin, 4 x bushing, fixing screws									
L&S bottom keeper [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
–	–	–	–	1	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws [1] Optionally with patterns A, C, D and F									

Aliplast Ultraglide / L&S bogie GU-934

Optional additional components



Additional kit L&S night vent module

Frame cam									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
2	-	4	4	-	Frame cam	stainless steel	1	9-43830-03-0-8	
L&S bottom keeper									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	-	2	2	-	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws									

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	Tension spring		1	9-40235-05-0-0	
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.									
L&S handle damper [1]									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	L&S handle damper		1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory									
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.									



HS LiftUnit GU-934*
The use of HS LiftUnit is recommended.
The operating forces can be reduced by up to 50 %.
Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
						UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws									

L&S anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket									

Vertical packer									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	Vertical packer		1	9-47295-06-0-1	

P 959 connecting rod for L&S anti-jemmy device										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	–	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
						1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
						1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
						2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
						Stock length	4800	ferGUard	1	9-28355-48-0-1

Aliplast Ultraglide / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
						dark brown [2]	1	6-24608-00-0-5	
						white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
						dark brown [2]	1	6-24609-00-0-5	
						white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

Fixing screws									
Pattern					Designation	PU	Order no.		
A	C	D	F	G1					
2	4	4	8	2	Countersunk screw 5.5 x 32 mm	1	9-13253-32-0-0		

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1][2]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
						dark brown [3]	1	6-24608-00-0-5	
						white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
						dark brown [3]	1	6-24609-00-0-5	
						white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] The fixing screws are contained in the basic hardware set for Aliplast Ultraglide / order number K-18082-00-0-0.

[3] Similar to RAL 8022

L&S flush pull									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
						dark brown [1]	1	9-29992-01-0-5	
						white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022									

Optionally: gasket plate									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	Gasket plate for flush pull	black	1	9-47211-01-0-6	

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1][2]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
						dark brown [3]	1	6-24615-96-0-5	
						white, RAL 9016	1	6-24615-96-0-7	
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] The fixing screws are contained in the basic hardware set for Aliplast Ultraglide / order number K-18082-00-0-0. [3] Similar to RAL 8022									

Optionally: gasket plate									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6	

Alsistem / L&S bogie GU-934

Application ranges



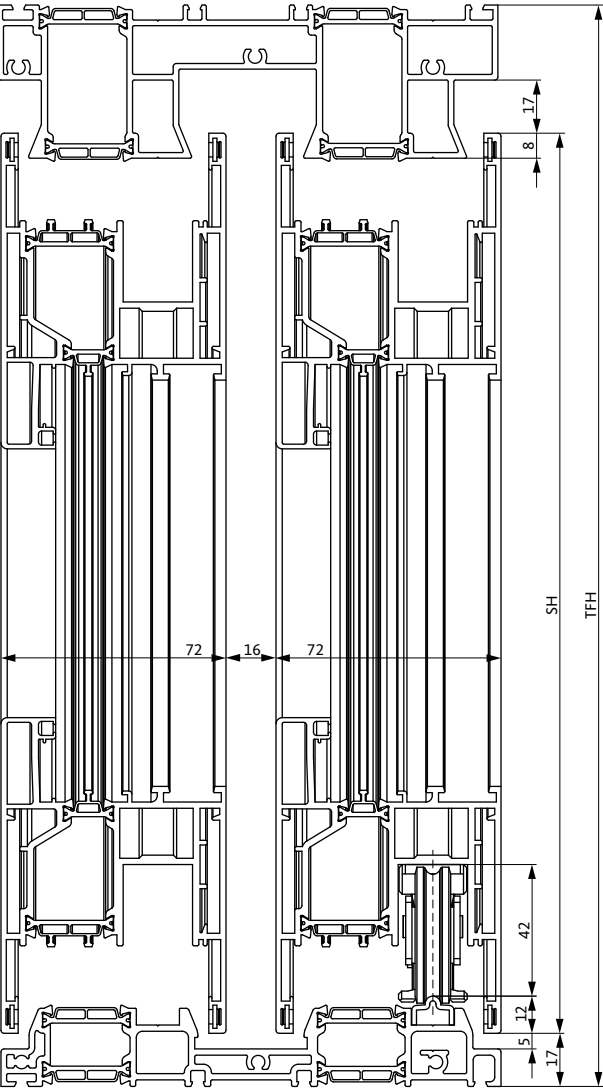
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	830–2730 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

SH : SW = 2.5 : 1

Installation drawings

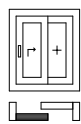
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45782	from page 31
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270



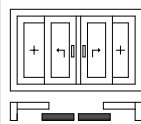
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

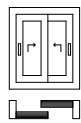
Possible patterns



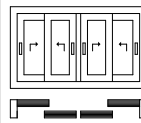
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



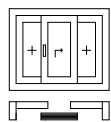
Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig: sliding direction to the right and left



Pattern G1 symmetrical
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie						Designation	Contents	Finish	PU	Order no.
Pattern										
A	C	D	F	G1						
1	2	2	4	1	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
							faceGUard	1	K-16488-00-0-18	

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
								faceGUard	1	9-25476-11-0-18
						1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
								faceGUard	1	9-25476-14-0-18
						1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
								faceGUard	1	9-25476-18-0-18
						2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
								faceGUard	1	9-25476-33-0-18



L&S bogie and rod – for sash weights up to 400 kg

L&S bogie						Designation	Contents	Finish	PU	Order no.
Pattern										
A	C	D	F	G1						
1	2	2	4	1	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
							faceGUard	1	K-16488-00-0-18	
1	2	2	4	1	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1	
							faceGUard	1	K-17804-01-0-18	

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	Rod Ø 8 mm	1230 – 1600	1100	ferGUard	1	9-25476-11-0-1
								faceGUard	1	9-25476-11-0-18
						1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
								faceGUard	1	9-25476-14-0-18
						1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
								faceGUard	1	9-25476-18-0-18
						2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
								faceGUard	1	9-25476-33-0-18

Alsistem / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset											
Pattern					SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F	G1				Cover rail	Lock case, connecting rod		
1	2	2	4	1	830 – 1250	1190	407	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
					1200 – 1830	1770	407	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
					1831 – 2330	2270	1007	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
								EV 1 / light grey	faceGUard	10	6-30021-24-0-18
					2080 – 2730	2670	1007	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5								
EV 1 / light grey	faceGUard	10	6-30021-28-0-18								
Optional: Gear extension set 500 mm											
1	2	2	4	1	max. 3230	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
								UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
								EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm											
1	2	2	4	1	max. 3230	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
								UC 5 / dark bronze	–	10	9-28483-05-0-5
Basic hardware set for Alsistem											
Pattern					Designation					PU	Order no.
A	C	D	F	G1							
1	2	2	4	1	Basic hardware set for Alsistem					1	K-18082-00-0-0
Contains: 1 x packer, 5 x spacer, 2 x frame cam, 2 x rubber buffer, 1 x PC screw-hole cover cap, fixing screws											
L&S buffer 90 [1]											
Pattern					Designation			Finish	PU	Order no.	
A	C	D	F	G1							
–	–	2	4	2	L&S buffer 90			black	1	K-17134-00-0-6	
								white	1	K-17134-00-0-7	
Contains: 1 x buffer, 1 x cover cap, fixing screws											
[1] Optionally with patterns A and C											

Fixing screws									
Pattern					Designation	PU	Order no.		
A	C	D	F	G1					
1	2	2	4	1	Bag of screws	1	K-12256-00-0-0		
Contains: 1 x PC screw-hole cover cap, fixing screws									
Accessories									
Pattern					Designation	PU	Order no.		
A	C	D	F	G1					
–	1	–	1	–	Accessories set	1	K-13392-00-0-5		
Contains: 8 x pin, 4 x bushing, fixing screws									
L&S bottom keeper [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
–	–	–	–	1	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws [1] Optionally with patterns A, C, D and F									

Alsistem / L&S bogie GU-934

Optional additional components



Additional kit L&S night vent module

Frame cam									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
2	4	4	4	–	Frame cam	stainless steel	1	9-43830-03-0-8	
L&S bottom keeper									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	2	–	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws									

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	Tension spring		1	9-40235-05-0-0	
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.									
L&S handle damper [1]									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	L&S handle damper		1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory									
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.									



HS LiftUnit GU-934*
The use of HS LiftUnit is recommended.
The operating forces can be reduced by up to 50 %.
Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
						UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws									

L&S anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket									

Vertical packer									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	Vertical packer		1	9-47295-06-0-1	

P 959 connecting rod for L&S anti-jemmy device										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	–	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
						1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
						1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
						2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
						Stock length	4800	ferGUard	1	9-28355-48-0-1

Alsistem / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
						dark brown [2]	1	6-24608-00-0-5	
						white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
						dark brown [2]	1	6-24609-00-0-5	
						white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

Fixing screws									
Pattern					Designation	PU	Order no.		
A	C	D	F	G1					
2	4	4	8	2	Countersunk screw 5.5 x 32 mm	1	9-13253-32-0-0		

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1][2]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole [2]	silver/EV 1 look	1	6-24608-00-0-1	
						dark brown [3]	1	6-24608-00-0-5	
						white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole [2]	silver/EV 1 look	1	6-24609-00-0-1	
						dark brown [3]	1	6-24609-00-0-5	
						white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] The fixing screws are contained in the basic hardware set for Alsistem / order number K-18082-00-0-0.

[3] Similar to RAL 8022

L&S flush pull									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
						dark brown [1]	1	9-29992-01-0-5	
						white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022									

Optionally: gasket plate									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	Gasket plate for flush pull	black	1	9-47211-01-0-6	

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1][2]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
						dark brown [3]	1	6-24615-96-0-5	
						white, RAL 9016	1	6-24615-96-0-7	
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] The fixing screws are contained in the basic hardware set for Alsistem / order number K-18082-00-0-0. [3] Similar to RAL 8022									

Optionally: gasket plate									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6	

AluK SC140 / L&S bogie GU-934

Application ranges



RC2

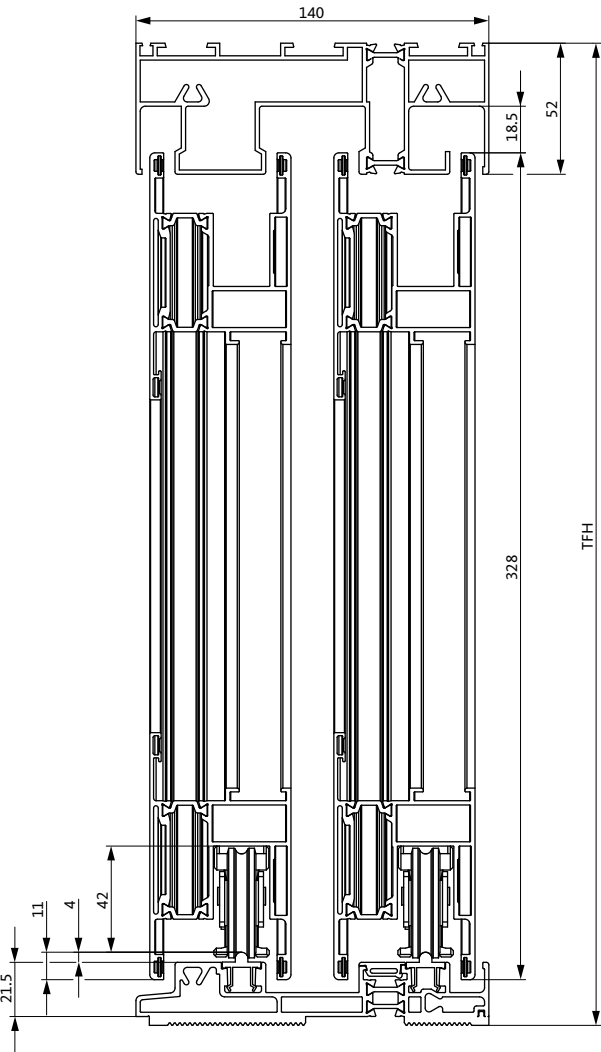
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	850–2749 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

SH : SW = 2.5 : 1

Installation drawings

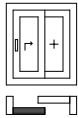
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45641	from page 39
HS LiftUnit GU-934	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258



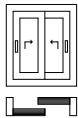
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie						
Pattern		Designation	Contents	Finish	PU	Order no.
A	D					
1	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1
				faceGUard	1	K-16488-00-0-18

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D						
1	2	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
					faceGUard	1	9-25476-11-0-18
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					faceGUard	1	9-25476-14-0-18
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					faceGUard	1	9-25476-18-0-18
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
					faceGUard	1	9-25476-33-0-18

L&S bogie and rod – for sash weights up to 400 kg



L&S bogie						
Pattern		Designation	Contents	Finish	PU	Order no.
A	D					
1	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1
				faceGUard	1	K-16488-00-0-18
1	2	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1
				faceGUard	1	K-17804-01-0-18

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D						
1	2	Rod Ø 8 mm	1210 – 1600	1100	ferGUard	1	9-25476-11-0-1
					faceGUard	1	9-25476-11-0-18
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					faceGUard	1	9-25476-14-0-18
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					faceGUard	1	9-25476-18-0-18
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
					faceGUard	1	9-25476-33-0-18

AluK SC140 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 27.5 mm backset									
Pattern		SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.	
A	D				Cover rail	Lock case, connecting rod			
1	2	850 – 1269	1190	406	EV 1 / light grey	ferGUard	10	6-30019-11-0-1	
					UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5	
		1220 – 1849	1770	406	EV 1 / light grey	ferGUard	10	6-30019-19-0-1	
					UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5	
					EV 1 / light grey	faceGUard	10	6-30019-19-0-18	
		1850 – 2349	2270	1006	EV 1 / light grey	ferGUard	10	6-30019-24-0-1	
					UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5	
					EV 1 / light grey	faceGUard	10	6-30019-24-0-18	
		2100 – 2749	2670	1006	EV 1 / light grey	ferGUard	10	6-30019-28-0-1	
					UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5	
					EV 1 / light grey	faceGUard	10	6-30019-28-0-18	
EV 1 / light grey	faceGUard				10	6-30019-28-0-18			
Optional: Gear extension set 500 mm									
1	2	max. 3249	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1	
					UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5	
					EV 1 / light grey	faceGUard	10	6-32030-00-0-18	
Optional: Cover-rail extension set 500 mm									
1	2	max. 3249	500	–	EV 1 / light grey	–	10	9-28483-05-0-1	
					UC 5 / dark bronze	–	10	9-28483-05-0-5	
Basic hardware set for AluK SC 140									
Pattern		Designation						PU	Order no.
A	D								
1	2	Basic hardware set for AluK SC 140						1	K-17981-00-0-0
Contains: 1 x packer, 5 x spacer, 1 x frame cam, 1 x PC screw-hole cover cap, fixing screws									
L&S buffer 90									
Pattern		Designation				Finish	PU	Order no.	
A	D								
2	2	L&S buffer 90				black	1	K-17134-00-0-6	
						white	1	K-17134-00-0-7	
Contains: 1 x buffer, 1 x cover cap, fixing screws									
Optional: L&S bottom keeper									
Pattern		Designation				Finish	PU	Order no.	
A	D								
1	2	L&S bottom keeper				stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws									

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]					
Pattern		Designation	PU	Order no.	
A	D				
1	2	Tension spring	1	9-40235-05-0-0	
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.					

L&S handle damper [1]					
Pattern		Designation	PU	Order no.	
A	D				
1	2	L&S handle damper	1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory					
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.					



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device						
Pattern		Designation	Finish	PU	Order no.	
A	D					
1	2	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
			UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws						

L&S anti-jemmy device						
Pattern		Designation	Finish	PU	Order no.	
A	D					
1	2	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket						

P 959 connecting rod for L&S anti-jemmy device							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D						
1	2	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
			1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
			1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
			2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
			Stock length	4800	ferGUard	1	9-28355-48-0-1

* Please observe the application ranges and processing guidelines of the system provider.

AluK SC140 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1][2]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
			dark brown [3]	1	6-24608-00-0-5
			white, RAL 9016	1	6-24608-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
			dark brown [3]	1	6-24609-00-0-5
			white, RAL 9016	1	6-24609-00-0-7
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] The fixing screws are contained in the basic hardware set for AluK SC 140 / order number K-17981-00-0-0. [3] Similar to RAL 8022					

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
			dark brown [2]	1	6-24608-00-0-5
			white, RAL 9016	1	6-24608-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
			dark brown [2]	1	6-24609-00-0-5
			white, RAL 9016	1	6-24609-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
			dark brown [1]	1	9-29992-01-0-5
			white, RAL 9016	1	9-29992-01-0-7
[1] Similar to RAL 8022					

Fixing screws					
Pattern		Designation		PU	Order no.
A	D				
2	4	Countersunk screw M6 x 75 mm		1	9-13274-75-0-1

Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	Gasket plate for flush pull	black	1	9-47211-01-0-6

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1][2]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	K-13267-00-0-1
			dark brown [3]	1	K-13267-00-0-5
			white, RAL 9016	1	K-13267-00-0-7
[1] Contains: DIRIGENT interior/exterior turn handle set with PC hole, fixing screws, square spindle [2] The use of buffers is recommended. For order information, refer to page 220 + 221. [3] Similar to RAL 8022					

Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6

Application example 4: Interior turn handle – with extended exterior flush pull

DIRIGENT L&S turn handle					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior L&S turn handle, without PC hole [1]	silver/EV 1 look	1	K-13265-00-0-1
			dark brown [3]	1	K-13265-00-0-5
			white, RAL 9016	1	K-13265-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole [2]	silver/EV 1 look	1	K-13266-00-0-1
			dark brown [3]	1	K-13266-00-0-5
			white, RAL 9016	1	K-13266-00-0-7
[1] Contains: DIRIGENT interior turn handle without PC hole, extended flush pull, square spindle [2] Contains: DIRIGENT interior turn handle with PC hole, extended flush pull, square spindle [3] Similar to RAL 8022					

Fixing screws					
Pattern		Designation	PU	Order no.	
A	D				
2	4	Countersunk screw M6 x 60 mm	1	9-13274-60-0-1	

Alumil M300 / L&S bogie GU-934

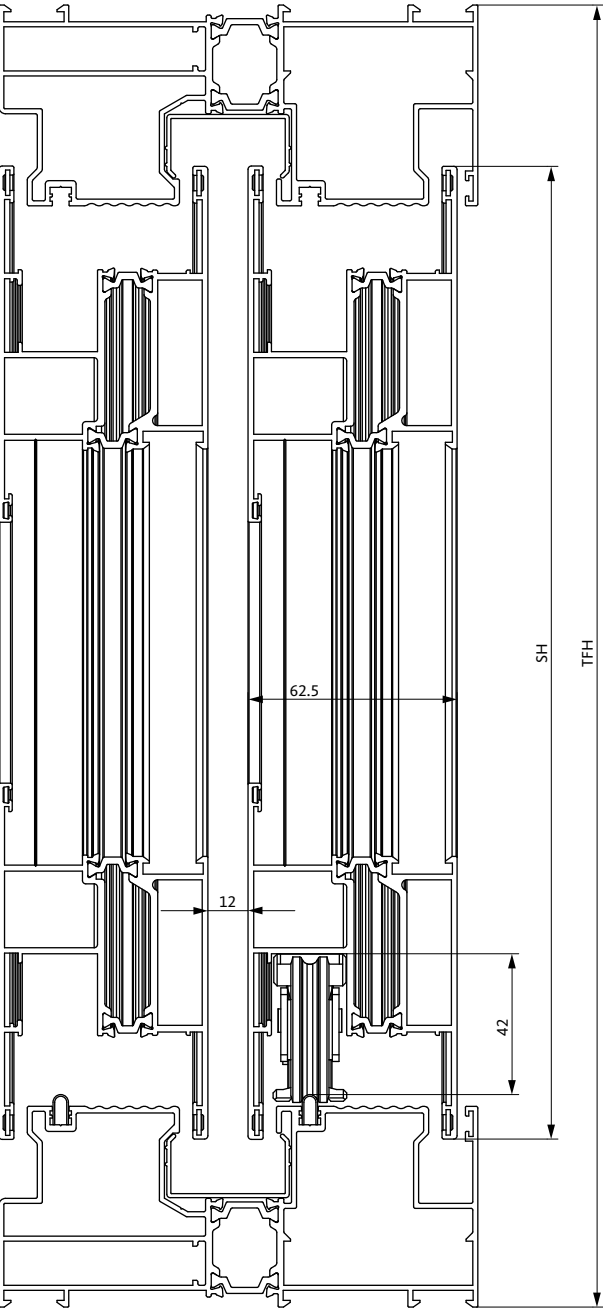
Application ranges



Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	830–2730 mm	350 kg	GU-934
SH : SW = 2.5 : 1			

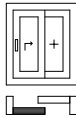
Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-44685	from page 45
HS LiftUnit GU-934	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258



SH = sash height / TFW = total frame width

- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

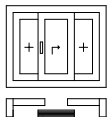
Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern G1 symmetrical
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie							
Pattern			Designation	Contents	Finish	PU	Order no.
A	D	G1					
1	2	1	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1
					faceGUard	1	K-16488-00-0-18

Rod Ø 8 mm								
Pattern			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D	G1						
1	2	1	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
						faceGUard	1	9-25476-11-0-18
				1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
						faceGUard	1	9-25476-14-0-18
				1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
						faceGUard	1	9-25476-18-0-18
				2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
						faceGUard	1	9-25476-33-0-18

Alumil M300 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset									
Pattern			SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	D	G1				Cover rail	Lock case, connecting rod		
1	2	1	830 – 1250	1190	410	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
			1200 – 1830	1770	410	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
			1831 – 2330	2270	1010	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
						EV 1 / light grey	faceGUard	10	6-30021-24-0-18
			2080 – 2730	2670	1010	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
						EV 1 / light grey	faceGUard	10	6-30021-28-0-18
Optional: Gear extension set 500 mm									
1	2	1	max. 3230	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
						UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
						EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm									
1	2	1	max. 3230	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
						UC 5 / dark bronze	–	10	9-28483-05-0-5
PC cover cap									
Pattern			Designation	Finish	PU	Order no.			
A	D	G1							
1	2	1	PC screw-hole cover cap	grey	1	9-26687-00-0-1			
Basic hardware set for Alumil M300									
Pattern			Designation	PU	Order no.				
A	D	G1							
1	2	1	Basic hardware set for Alumil M300	1	K-17464-00-0-0				
Contains: 1 x packer, 5 x spacer, 2 x frame cam, fixing screws									
Bottom keeper									
Pattern			Designation	Finish	PU	Order no.			
A	D	G1							
–	–	1	Bottom keeper set	ferGUard	1	K-17864-00-0-1			
Contains: 1 x bottom keeper, fixing screws [1] Optionally with patterns A and D									

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]					
Pattern			Designation	PU	Order no.
A	D	G1			
1	2	1	Tension spring	1	9-40235-05-0-0
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.					

L&S handle damper [1]					
Pattern			Designation	PU	Order no.
A	D	G1			
1	2	1	L&S handle damper	1	K-19053-00-0-6
Contains: 1 x handle damper, accessory					
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.					



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Alumil M300 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1][2]						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
				dark brown [3]	1	6-24608-00-0-5
				white, RAL 9016	1	6-24608-00-0-7
1	2	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
				dark brown [3]	1	6-24609-00-0-5
				white, RAL 9016	1	6-24609-00-0-7
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] The fixing screws are contained in the basic hardware set for Alumil M300 / order number K-17464-00-0-0. [3] Similar to RAL 8022						

L&S flush pull						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-02-0-1
				dark brown [1]	1	9-29992-02-0-5
				white, RAL 9016	1	9-29992-02-0-7
[1] Similar to RAL 8022						

Optionally: gasket plate						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	Gasket plate for flush pull	black	1	9-47211-01-0-6

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1][2]						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
				dark brown [3]	1	6-24615-96-0-5
				white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221.						
[2] The fixing screws are contained in the basic hardware set for Alumil M300 / order number K-17464-00-0-0.						
[3] Similar to RAL 8022						

Optionally: gasket plate						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6

Aluprof MB-77HS / L&S bogie GU-934

Application ranges



RC2

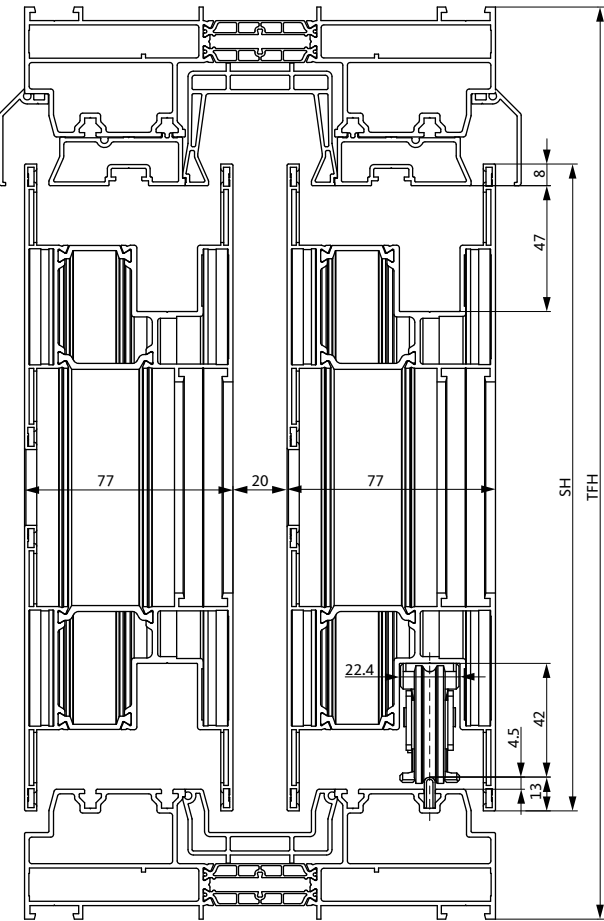
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	843–2743 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

SH : SW = 2.5 : 1

Installation drawings

Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45957	from page 51
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270



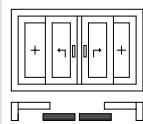
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



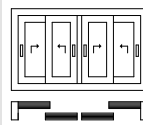
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



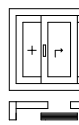
Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern G1 symmetrical
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie										
Pattern						Designation	Contents	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
							faceGUard	1	K-16488-00-0-18	

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
								faceGUard	1	9-25476-11-0-18
						1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
								faceGUard	1	9-25476-14-0-18
						1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
								faceGUard	1	9-25476-18-0-18
						2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
								faceGUard	1	9-25476-33-0-18

L&S bogie and rod – for sash weights up to 400 kg



L&S bogie										
Pattern						Designation	Contents	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
						faceGUard	1	K-16488-00-0-18		
1	2	2	4	1	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1	
						faceGUard	1	K-17804-01-0-18		

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	Rod Ø 8 mm	1230 – 1600	1100	ferGUard	1	9-25476-11-0-1
								faceGUard	1	9-25476-11-0-18
						1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
								faceGUard	1	9-25476-14-0-18
						1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
								faceGUard	1	9-25476-18-0-18
						2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
								faceGUard	1	9-25476-33-0-18

Aluprof MB-77HS / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset											
Pattern					SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F	G1				Cover rail	Lock case, connecting rod		
1	2	2	4	1	843 – 1263	1190	408	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
					1213 – 1843	1770	408	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
					1843 – 2343	2270	1008	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
					2093 – 2743	2670	1008	EV 1 / light grey	faceGUard	10	6-30021-24-0-18
								EV 1 / light grey	ferGUard	10	6-30021-28-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
EV 1 / light grey	faceGUard	10	6-30021-28-0-18								
Optional: Gear extension set 500 mm											
1	2	2	4	1	max. 3243	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
								UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
								EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm											
1	2	2	4	1	max. 3243	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
								UC 5 / dark bronze	–	10	9-28483-05-0-5

Packer, spacer, frame cam, PC screw-hole cover cap, rubber buffer

Pattern					Designation	Finish	PU	Order no.
A	C	D	F	G1				
1	2	2	4	1	Vertical packer for L&S bogie GU-934, front	–	1	9-47295-04-0-1
5	10	10	20	7	Spacer for Lift&Slide gear	–	1	9-47296-06-0-1
2	2	4	6	–	Frame cam	stainless steel	1	6-22648-03-0-8
1	2	2	4	1	PC cover cap	grey	1	9-26687-00-0-1
2	4	–	–	2	Rubber buffer 62	black	1	9-24292-00-0-0

L&S buffer 90 [1]

Pattern					Designation	Finish	PU	Order no.
A	C	D	F	G1				
–	–	2	4	2	L&S buffer 90	black	1	K-17134-00-0-6
						white	1	K-17134-00-0-7

Contains: 1 x buffer, 1 x cover cap, fixing screws
 [1] Optionally with patterns A and C

L&S bottom keeper [1]

Pattern					Designation	Finish	PU	Order no.
A	C	D	F	G1				
–	–	–	–	1	L&S bottom keeper	stainless steel	1	K-12057-00-0-1

Contains: 1 x bottom keeper, fixing screws
 [1] Optionally with patterns A, C, D and F

Aluprof MB-77HS / L&S bogie GU-934

Optional additional components



Additional kit L&S night vent module

Frame cam									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
2	4	4	4	–	Frame cam	stainless steel	1	9-43830-03-0-8	
L&S bottom keeper									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	2	–	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws									

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	Tension spring		1	9-40235-05-0-0	
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.									
L&S handle damper [1]									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	L&S handle damper		1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory									
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.									



HS LiftUnit GU-934*
The use of HS LiftUnit is recommended.
The operating forces can be reduced by up to 50 %.
Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
						UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws									

L&S anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket									

Vertical packer									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	Vertical packer		1	9-47295-04-0-1	

P 959 connecting rod for L&S anti-jemmy device										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	–	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
						1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
						1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
						2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
						Stock length	4800	ferGUard	1	9-28355-48-0-1

Aluprof MB-77HS / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
						dark brown [2]	1	6-24608-00-0-5	
						white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
						dark brown [2]	1	6-24609-00-0-5	
						white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
						dark brown [2]	1	6-24608-00-0-5	
						white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
						dark brown [2]	1	6-24609-00-0-5	
						white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
						dark brown [1]	1	9-29992-01-0-5	
						white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022									

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]								
Pattern					Designation	Finish	PU	Order no.
A	C	D	F	G1				
1	2	2	4	1	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
						dark brown [2]	1	6-24615-96-0-5
						white, RAL 9016	1	6-24615-96-0-7

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
 [2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws								
Pattern					Designation	Example of application	PU	Order no.
A	C	D	F	G1				
2	4	4	8	2	Countersunk screw 5.5 x 32 mm	1	1	9-13253-32-0-0
2	4	4	8	2	Countersunk screw M6 x 85 mm	2 + 3	1	9-13274-85-0-3

Optional: gasket plates									
Pattern					Designation	Example of application	Finish	PU	Order no.
A	C	D	F	G1					
1	2	2	4	1	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	2	4	1	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Aluprof MB-77HS / L&S bogie GU-937

Application ranges



RC2

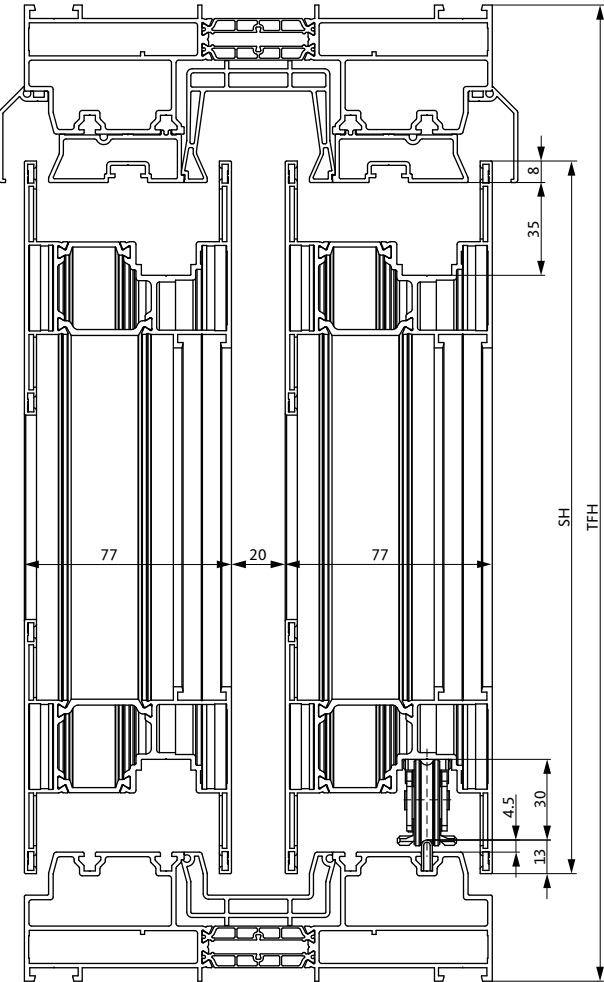
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	841–2741 mm	200 kg	GU-937

SH : SW = 2.5 : 1

Installation drawings

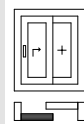
Application	Drawing	Order information
Lift&Slide hardware GU-937	0-45958	from page 59
HS LiftUnit GU-937	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270



Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

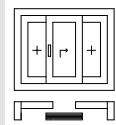
Possible patterns



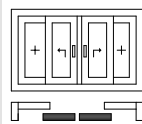
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



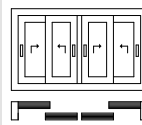
Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern G1 symmetrical
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 200 kg

L&S bogie									
Pattern					Designation	Contents	Finish	PU	Order no.
A	C	D	F	G1					
1	2	2	4	1	L&S bogie GU-937	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16493-00-0-1
							faceGUard	1	K-16493-00-0-18

Rod Ø 8 mm					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
								faceGUard	1	9-25476-11-0-18
						1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
								faceGUard	1	9-25476-14-0-18
						1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
								faceGUard	1	9-25476-18-0-18
						2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
								faceGUard	1	9-25476-33-0-18

Aluprof MB-77HS / L&S bogie GU-937

Hardware requirements



Lift&Slide gear, 27.5 mm backset											
Pattern					SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F	G1				Cover rail	Lock case, connecting rod		
1	2	2	4	1	841 – 1261	1190	408	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
								UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
					1211 – 1841	1770	408	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
								UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
								EV 1 / light grey	faceGUard	10	6-30019-19-0-18
					1841 – 2341	2270	1008	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
								UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
								EV 1 / light grey	faceGUard	10	6-30019-24-0-18
					2091 – 2741	2670	1008	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
								UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
								EV 1 / light grey	faceGUard	10	6-30019-28-0-18
Optional: Gear extension set 500 mm											
1	2	2	4	1	max. 3241	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
								UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
								EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm											
1	2	2	4	1	max. 3241	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
								UC 5 / dark bronze	–	10	9-28483-05-0-5
Frame cam, PC screw-hole cover cap, rubber buffer											
Pattern					Designation	Finish	PU	Order no.			
A	C	D	F	G1							
2	2	4	6	–	Frame cam	stainless steel	1	6-22648-03-0-8			
1	2	2	4	1	PC cover cap	grey	1	9-26687-00-0-1			
2	4	–	–	2	Rubber buffer 62	black	1	9-24292-00-0-0			
L&S buffer 90 [1]											
Pattern					Designation	Finish	PU	Order no.			
A	C	D	F	G1							
–	–	2	4	2	L&S buffer 90	black	1	K-17134-00-0-6			
						white	1	K-17134-00-0-7			
Contains: 1 x buffer, 1 x cover cap, fixing screws [1] Optionally with patterns A and C											
L&S locking set for pattern G1											
Pattern					Designation	Finish	PU	Order no.			
A	C	D	F	G1							
–	–	–	–	1	Bottom keeper set	ferGUard	1	K-17864-00-0-1			
Contains: 1 x bottom keeper, fixing screws											
Optional: frame cam											
Pattern					Designation	Finish	PU	Order no.			
A	C	D	F	G1							
2	4	4	4	–	Frame cam	stainless steel	1	9-43830-03-0-8			
Optional: bottom keeper											
1	2	2	2	–	Bottom keeper set	ferGUard	1	K-17864-00-0-1			
Contains: 1 x bottom keeper, fixing screws											

Additional kit 'comfort' (see Chapter 4.1)

L&S handle damper [1]									
Pattern						Designation	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	L&S handle damper	1	K-19053-00-0-6		
Contains: 1 x handle damper, accessory [1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.									



HS LiftUnit GU-937*

The use of HS LiftUnit is recommended.
 The operating forces can be reduced by up to 50 %.
 Order information from page 236.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
						UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws									

L&S anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket									

Vertical packer								
Pattern					Designation	PU	Order no.	
A	C	D	F	G1				
1	2	2	4	–	Vertical packer	1	9-47295-06-0-1	

P 959 connecting rod for L&S anti-jemmy device											
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.	
A	C	D	F	G1							
1	2	2	4	-	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1	
						1236 – 1735	1500	ferGUard	1	9-28355-15-0-1	
						1736 – 2035	1800	ferGUard	1	9-28355-18-0-1	
						2036 – 2835	2600	ferGUard	1	9-28355-26-0-1	
						Stock length	4800	ferGUard	1	9-28355-48-0-1	

* Please observe the application ranges and processing guidelines of the system provider.

Aluprof MB-77HS / L&S bogie GU-937

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
						dark brown [2]	1	6-24608-00-0-5	
						white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
						dark brown [2]	1	6-24609-00-0-5	
						white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
						dark brown [2]	1	6-24608-00-0-5	
						white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
						dark brown [2]	1	6-24609-00-0-5	
						white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
						dark brown [1]	1	9-29992-01-0-5	
						white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022									

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
						dark brown [2]	1	6-24615-96-0-5	
						white, RAL 9016	1	6-24615-96-0-7	

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
 [2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws									
Pattern					Designation	Example of application	PU	Order no.	
A	C	D	F	G1					
2	4	4	8	2	Countersunk screw 5.5 x 32 mm	1	1	9-13253-32-0-0	
2	4	4	8	2	Countersunk screw M6 x 85 mm	2 + 3	1	9-13274-85-0-3	

Optional: gasket plates									
Pattern					Designation	Example of application	Finish	PU	Order no.
A	C	D	F	G1					
1	2	2	4	1	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	2	4	1	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Etem E3000 / L&S bogie GU-934

Application ranges



RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	825–2725 mm	350 kg	GU-934

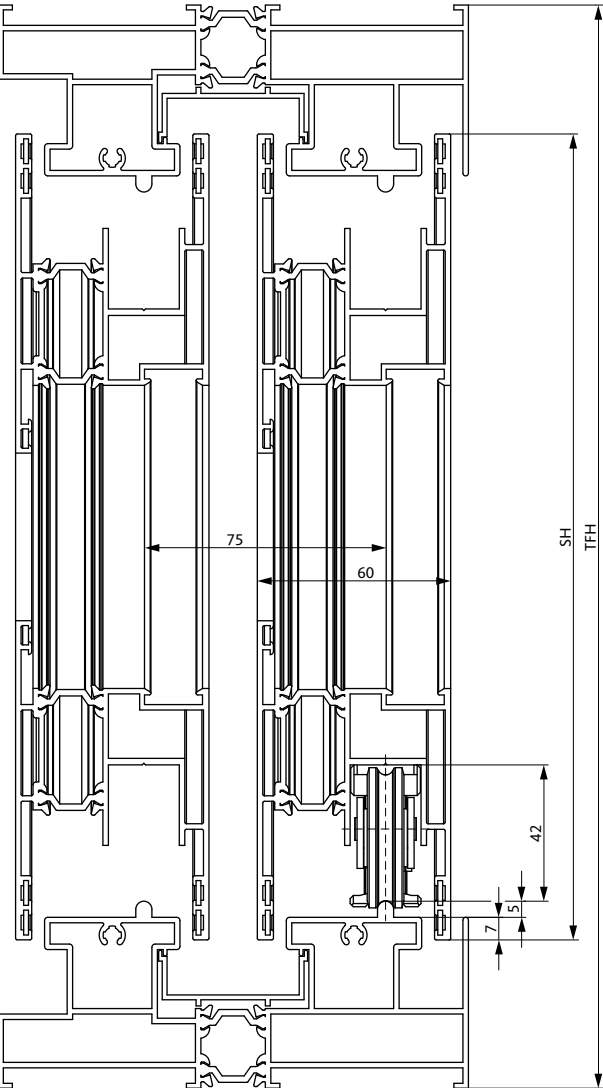
SH : SW = 2.5 : 1

Installation drawings

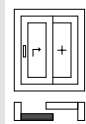
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-44306	from page 65
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270

Note:

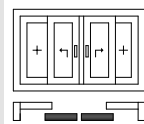
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".



Possible patterns



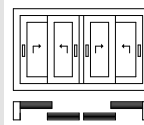
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie									
Pattern				Designation	Contents	Finish	PU	Order no.	
A	C	D	F						
1	2	2	4	L&S bogie GU-934	1 x L&S front bogie	ferGUard	1	K-16488-00-0-1	
					1 x L&S rear bogie	faceGUard	1	K-16488-00-0-18	

Rod Ø 8 mm									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F						
1	2	2	4	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
							faceGUard	1	9-25476-11-0-18
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
							faceGUard	1	9-25476-14-0-18
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
							faceGUard	1	9-25476-18-0-18
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
							faceGUard	1	9-25476-33-0-18

Etem E3000 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset										
Pattern				SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F				Cover rail	Lock case, connecting rod		
1	2	2	4	825 – 1245	1190	407	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
				1195 – 1825	1770	407	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
				1825 – 2325	2270	1007	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
							EV 1 / light grey	faceGUard	10	6-30021-24-0-18
				2075 – 2725	2670	1007	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
EV 1 / light grey	faceGUard	10	6-30021-28-0-18							
Optional: Gear extension set 500 mm										
1	2	2	4	max. 3225	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
							UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
							EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm										
1	2	2	4	max. 3225	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
							UC 5 / dark bronze	–	10	9-28483-05-0-5

Packer, spacer, frame cam, PC screw-hole cover cap, rubber buffer										
Pattern				Designation	Finish	PU	Order no.			
A	C	D	F							
1	2	2	4	Vertical packer for L&S bogie GU-934, front	–	1	9-47295-08-0-1			
5	10	10	20	Spacer for Lift&Slide gear	–	1	9-47296-09-0-1			
2	2	4	4	Frame cam	stainless steel	1	6-22623-03-0-8			
1	2	2	4	PC cover cap	grey	1	9-26687-00-0-1			
2	4	–	–	Rubber buffer 60	black	1	9-23793-00-0-0			

Counterplate							
Pattern				Designation	PU	Order no.	
A	C	D	F				
–	1	–	1	Counterplate set	1	K-17605-00-0-0	
Contains: 2 x counter plate, fixing screws							

Additional kit L&S night vent module

Frame cam								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
2	4	4	4	Frame cam	stainless steel	1	9-43830-03-0-8	
L&S bottom keeper								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	2	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws								

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]								
Pattern				Designation		PU	Order no.	
A	C	D	F					
1	2	2	4	Tension spring		1	9-40235-05-0-0	
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.								
L&S handle damper [1]								
Pattern				Designation		PU	Order no.	
A	C	D	F					
1	2	2	4	L&S handle damper		1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory								
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.								



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Etem E3000 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]							
Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
					dark brown [2]	1	6-24606-00-0-5
					white, RAL 9016	1	6-24606-00-0-7
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
					dark brown [2]	1	6-24607-00-0-5
					white, RAL 9016	1	6-24607-00-0-7
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] Similar to RAL 8022							
L&S flush pull							
Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
1	2	2	4	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
					dark brown [1]	1	9-29992-01-0-5
					white, RAL 9016	1	9-29992-01-0-7
[1] Similar to RAL 8022							
Fixing screws							
Pattern				Designation		PU	Order no.
A	C	D	F				
2	4	4	8	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1
Optionally: gasket plate							
Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
1	2	2	4	Gasket plate for flush pull	black	1	9-47211-01-0-6

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
					dark brown [2]	1	6-24615-96-0-5	
					white, RAL 9016	1	6-24615-96-0-7	
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022								

Fixing screws								
Pattern				Designation		PU	Order no.	
A	C	D	F					
2	4	4	8	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1	

Optionally: gasket plate								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6	



L&S bogie and rod – for sash weights up to 200 kg

L&S bogie									
Pattern				Designation	Contents	Finish	PU	Order no.	
A	C	D	F						
1	2	2	4	L&S bogie GU-937	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16493-00-0-1	
						faceGUard	1	K-16493-00-0-18	

Rod Ø 8 mm									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F						
1	2	2	4	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
							faceGUard	1	9-25476-11-0-18
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
							faceGUard	1	9-25476-14-0-18
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
							faceGUard	1	9-25476-18-0-18
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
							faceGUard	1	9-25476-33-0-18

Etem E50 / L&S bogie GU-937

Hardware requirements



Lift&Slide gear, 27.5 mm backset										
Pattern				SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F				Cover rail	Lock case, connecting rod		
1	2	2	4	849 – 1269	1190	406	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
				1239 – 1849	1770	406	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
							EV 1 / light grey	faceGUard	10	6-30019-19-0-18
				1849 – 2349	2270	1006	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
							EV 1 / light grey	faceGUard	10	6-30019-24-0-18
				2099 – 2749	2670	1006	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
EV 1 / light grey	faceGUard	10	6-30019-28-0-18							
Optional: Gear extension set 500 mm										
1	2	2	4	max. 3249	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
							UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
							EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm										
1	2	2	4	max. 3249	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
							UC 5 / dark bronze	–	10	9-28483-05-0-5

Frame cam										
Pattern				Designation	Finish	PU	Order no.			
A	C	D	F							
2	–	4	4	Frame cam	stainless steel	1	9-38825-00-0-8			
–	2	–	2	Frame cam pattern C	stainless steel	1	6-22648-01-0-8			
–	4	–	4	Countersunk screw 4.8 x 38 mm	stainless steel	1	9-13089-38-R-8			

PC cover cap										
Pattern				Designation	Finish	PU	Order no.			
A	C	D	F							
1	2	2	4	PC cover cap	grey	1	9-26687-00-0-1			

L&S buffer 90										
Pattern				Designation	Finish	PU	Order no.			
A	C	D	F							
2	4	2	4	L&S buffer 90	black	1	K-17134-00-0-6			
					white	1	K-17134-00-0-7			
Contains: 1 x buffer, 1 x cover cap, fixing screws										

Optional: L&S bottom keeper										
Pattern				Designation	Finish	PU	Order no.			
A	C	D	F							
1	2	2	4	L&S bottom keeper	stainless steel	1	K-12057-00-0-1			
Contains: 1 x bottom keeper, fixing screws										

Additional kit 'comfort' (see Chapter 4.1)

L&S handle damper [1]					PU	Order no.
Pattern				Designation		
A	C	D	F			
1	2	2	4	L&S handle damper	1	K-19053-00-0-6

Contains: 1 x handle damper, accessory
 [1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-937*

The use of HS LiftUnit is recommended.
 The operating forces can be reduced by up to 50 %.
 Order information from page 236.

Etem E50 / L&S bogie GU-937

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1	
					dark brown [2]	1	6-24606-00-0-5	
					white, RAL 9016	1	6-24606-00-0-7	
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
					dark brown [2]	1	6-24607-00-0-5	
					white, RAL 9016	1	6-24607-00-0-7	
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.								
[2] Similar to RAL 8022								

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1	
					dark brown [2]	1	6-24606-00-0-5	
					white, RAL 9016	1	6-24606-00-0-7	
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
					dark brown [2]	1	6-24607-00-0-5	
					white, RAL 9016	1	6-24607-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
					dark brown [1]	1	9-29992-01-0-5	
					white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022								

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
					dark brown [2]	1	6-24615-96-0-5	
					white, RAL 9016	1	6-24615-96-0-7	

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
 [2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws								
Pattern				Designation	Example of application	PU	Order no.	
A	C	D	F					
2	4	4	8	Countersunk screw M6 x 20 mm	1	1	9-13274-20-0-1	
2	4	4	8	Countersunk screw M6 x 80 mm	2 + 3	1	9-13274-80-0-1	

Optional: gasket plates								
Pattern				Designation	Example of application	Finish	PU	Order no.
A	C	D	F					
1	2	2	4	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	2	4	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Etem E52 / L&S bogie GU-937

Application ranges



RC2

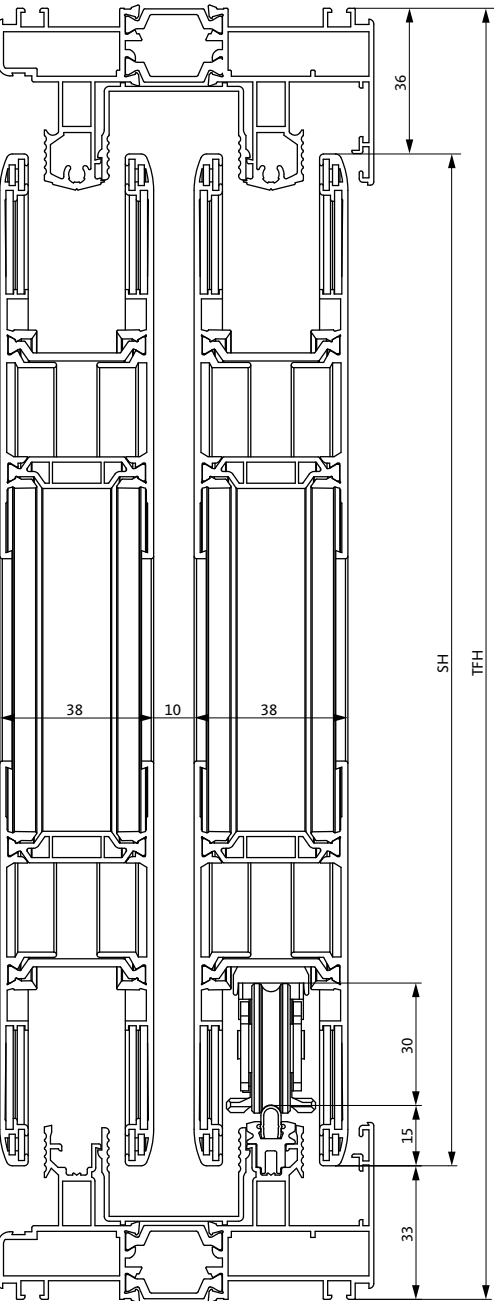
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	849–2749 mm	200 kg	GU-937

SH : SW = 2.5 : 1

Installation drawings

Application	Drawing	Order information
Lift&Slide hardware GU-937	0-46585	from page 77
HS LiftUnit GU-937	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270



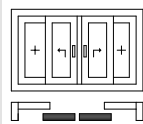
SH = sash height / TFW = total frame width

- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



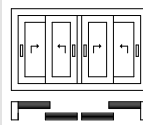
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 200 kg

L&S bogie									
Pattern				Designation	Contents	Finish	PU	Order no.	
A	C	D	F						
1	2	2	4	L&S bogie GU-937	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16721-00-0-1	

Rod Ø 8 mm									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F						
1	2	2	4	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1

Etem E52 / L&S bogie GU-937

Hardware requirements



Lift&Slide gear, 27.5 mm backset										
Pattern				SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F				Cover rail	Lock case, connecting rod		
1	2	2	4	849 – 1269	1190	410	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
				1239 – 1849	1770	410	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
				1849 – 2349	2270	1010	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
				2099 – 2749	2670	1010	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
Optional: Gear extension set 500 mm										
1	2	2	4	max. 3249	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
							UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
Optional: Cover-rail extension set 500 mm										
1	2	2	4	max. 3249	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
							UC 5 / dark bronze	–	10	9-28483-05-0-5
Frame cam										
Pattern				Designation			Finish	PU	Order no.	
A	C	D	F							
2	–	4	4	Frame cam			stainless steel	1	9-47530-02-0-8	
–	2	–	2	Frame cam pattern C			stainless steel	1	6-22648-03-0-8	
–	4	–	4	Countersunk screw 4.8 x 38 mm			stainless steel	1	9-13089-38-R-8	
PC cover cap										
Pattern				Designation			Finish	PU	Order no.	
A	C	D	F							
1	2	2	4	PC cover cap			grey	1	9-26687-00-0-1	
L&S buffer 90										
Pattern				Designation			Finish	PU	Order no.	
A	C	D	F							
2	4	2	4	L&S buffer 90			black	1	K-17134-00-0-6	
							white	1	K-17134-00-0-7	
Contains: 1 x buffer, 1 x cover cap, fixing screws										

Additional kit L&S night vent module

Frame cam								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
-	4	-	4	Frame cam	stainless steel	1	9-43830-03-0-8	
L&S bottom keeper								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	2	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws								

Additional kit 'comfort' (see Chapter 4.1)

L&S handle damper [1]								
Pattern				Designation		PU	Order no.	
A	C	D	F					
1	2	2	4	L&S handle damper		1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory								
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.								



HS LiftUnit GU-937*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Etem E52 / L&S bogie GU-937

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1	
					dark brown [2]	1	6-24606-00-0-5	
					white, RAL 9016	1	6-24606-00-0-7	
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
					dark brown [2]	1	6-24607-00-0-5	
					white, RAL 9016	1	6-24607-00-0-7	
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.								
[2] Similar to RAL 8022								

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1	
					dark brown [2]	1	6-24606-00-0-5	
					white, RAL 9016	1	6-24606-00-0-7	
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
					dark brown [2]	1	6-24607-00-0-5	
					white, RAL 9016	1	6-24607-00-0-7	
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] Similar to RAL 8022								

L&S flush pull								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	L&S flush pull, round	silver/EV 1 look	1	9-46686-00-0-1	
					dark brown [1]	1	9-46686-00-0-5	
					white, RAL 9016	1	9-46686-00-0-7	
					stainless steel	1	9-46686-00-0-8	
[1] Similar to RAL 8022								

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
					dark brown [2]	1	6-24615-96-0-5	
					white, RAL 9016	1	6-24615-96-0-7	

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
 [2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws								
Pattern				Designation	Example of application	PU	Order no.	
A	C	D	F					
2	4	4	8	Countersunk screw M6 x 20 mm	1	1	9-13274-20-0-1	
2	4	4	8	Countersunk screw M6 x 45 mm	2 + 3	1	9-13601-45-R-8	

Optional: gasket plates								
Pattern				Designation	Example of application	Finish	PU	Order no.
A	C	D	F					
1	2	2	4	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	2	4	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Etem E70 / L&S bogie GU-934

Application ranges



RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	849–2749 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

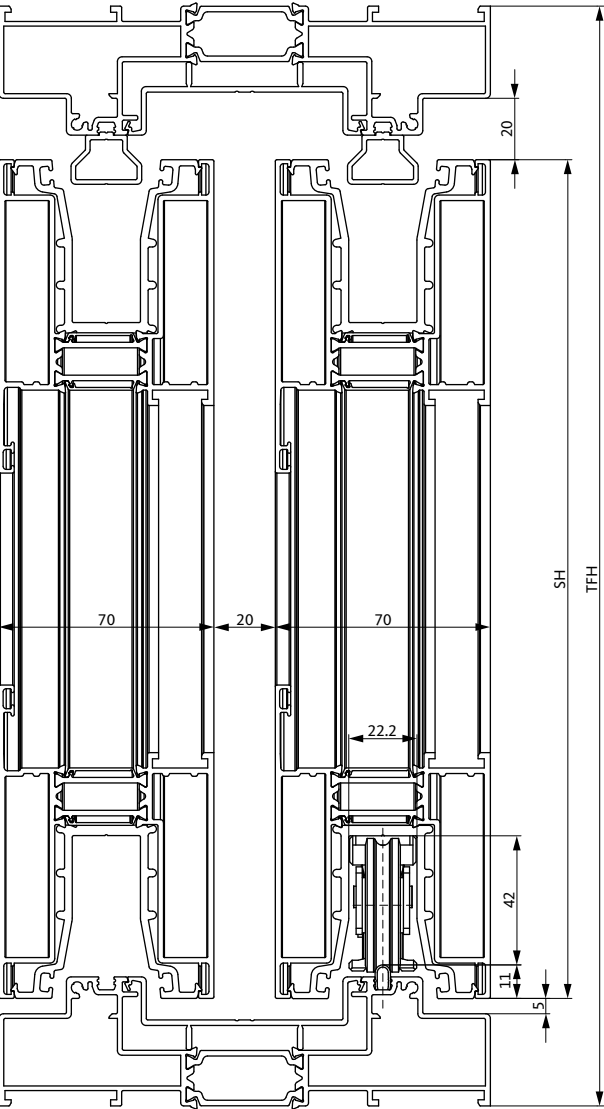
SH : SW = 2.5 : 1

Installation drawings

Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45904	from page 83
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270

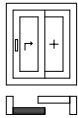
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

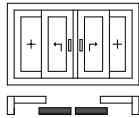


SH = sash height / TFH = total frame width

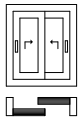
Possible patterns



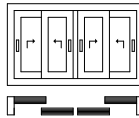
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



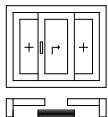
Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig: sliding direction to the right and left



Pattern G1 symmetrical
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie										
Pattern					Designation	Contents	Finish	PU	Order no.	
A	C	D	F	G1						
1	2	2	4	1	L&S bogie GU-934	1 x L&S front bogie	ferGUard	1	K-16488-00-0-1	
						1 x L&S rear bogie	faceGUard	1	K-16488-00-0-18	

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
								faceGUard	1	9-25476-11-0-18
						1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
								faceGUard	1	9-25476-14-0-18
						1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
								faceGUard	1	9-25476-18-0-18
						2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
								faceGUard	1	9-25476-33-0-18

L&S bogie and rod – for sash weights up to 400 kg



L&S bogie										
Pattern					Designation	Contents	Finish	PU	Order no.	
A	C	D	F	G1						
1	2	2	4	1	L&S bogie GU-934	1 x L&S front bogie	ferGUard	1	K-16488-00-0-1	
						1 x L&S rear bogie	faceGUard	1	K-16488-00-0-18	
1	2	2	4	1	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1	
							faceGUard	1	K-17804-01-0-18	

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	1	Rod Ø 8 mm	1210 – 1600	1100	ferGUard	1	9-25476-11-0-1
								faceGUard	1	9-25476-11-0-18
						1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
								faceGUard	1	9-25476-14-0-18
						1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
								faceGUard	1	9-25476-18-0-18
						2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
								faceGUard	1	9-25476-33-0-18

Etem E70 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset											
Pattern					SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F	G1				Cover rail	Lock case, connecting rod		
1	2	2	4	1	849 – 1269	1190	406	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
					1239 – 1849	1770	406	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
					1849 – 2349	2270	1006	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
								UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
					2099 – 2749	2670	1006	EV 1 / light grey	faceGUard	10	6-30021-24-0-18
								EV 1 / light grey	ferGUard	10	6-30021-28-0-1
UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5								
							EV 1 / light grey	faceGUard	10	6-30021-28-0-18	
Optional: Gear extension set 500 mm											
1	2	2	4	1	max. 3249	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
								UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
								EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm											
1	2	2	4	1	max. 3249	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
								UC 5 / dark bronze	–	10	9-28483-05-0-5
Frame cam											
Pattern					Designation		Finish	PU	Order no.		
A	C	D	F	G1							
2	2	4	6	–	Frame cam		stainless steel	1	6-22648-02-0-8		
–	4	–	4	–	Countersunk screw 4.8 x 38 mm		stainless steel	1	9-13089-38-R-8		
Packer, spacer, PC screw-hole cover cap											
Pattern					Designation		Finish	PU	Order no.		
A	C	D	F	G1							
1	2	2	4	1	Vertical packer for L&S bogie GU-934, front		–	1	9-47295-06-0-1		
5	10	10	20	6	Spacer for Lift&Slide gear		–	1	9-47296-07-0-1		
1	2	2	4	1	PC cover cap		grey	1	9-26687-00-0-1		
L&S buffer 90											
Pattern					Designation		Finish	PU	Order no.		
A	C	D	F	G1							
2	4	2	4	2	L&S buffer 90		black	1	K-17134-00-0-6		
							white	1	K-17134-00-0-7		
Contains: 1 x buffer, 1 x cover cap, fixing screws											
L&S bottom keeper											
Pattern					Designation		Finish	PU	Order no.		
A	C	D	F	G1							
–	–	–	–	1	L&S bottom keeper		stainless steel	1	K-12057-00-0-1		
Contains: 1 x bottom keeper, fixing screws											

Additional kit L&S night vent module

Frame cam									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
2	4	4	4	–	Frame cam	stainless steel	1	9-43830-04-0-8	
L&S bottom keeper									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	2	–	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws									

Etem E70 / L&S bogie GU-934

Optional additional components



Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]						PU	Order no.
Pattern					Designation		
A	C	D	F	G1			
1	2	2	4	1	Tension spring	1	9-40235-05-0-0
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.							

L&S handle damper [1]						PU	Order no.
Pattern					Designation		
A	C	D	F	G1			
1	2	2	4	1	L&S handle damper	1	K-19053-00-0-6
Contains: 1 x handle damper, accessory [1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.							



HS LiftUnit GU-934*
The use of HS LiftUnit is recommended.
The operating forces can be reduced by up to 50 %.
Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
						UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws									

L&S anti-jemmy device									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket									

Vertical packer									
Pattern					Designation		PU	Order no.	
A	C	D	F	G1					
1	2	2	4	–	Vertical packer		1	9-47295-06-0-1	

P 959 connecting rod for L&S anti-jemmy device										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F	G1						
1	2	2	4	–	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
						1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
						1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
						2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
						Stock length	4800	ferGUard	1	9-28355-48-0-1

Etem E70 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1	
						dark brown [2]	1	6-24606-00-0-5	
						white, RAL 9016	1	6-24606-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
						dark brown [2]	1	6-24607-00-0-5	
						white, RAL 9016	1	6-24607-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1	
						dark brown [2]	1	6-24606-00-0-5	
						white, RAL 9016	1	6-24606-00-0-7	
1	2	2	4	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
						dark brown [2]	1	6-24607-00-0-5	
						white, RAL 9016	1	6-24607-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
						dark brown [1]	1	9-29992-01-0-5	
						white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022									

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]									
Pattern					Designation	Finish	PU	Order no.	
A	C	D	F	G1					
1	2	2	4	1	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
						dark brown [2]	1	6-24615-96-0-5	
						white, RAL 9016	1	6-24615-96-0-7	

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
 [2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws									
Pattern					Designation	Example of application	PU	Order no.	
A	C	D	F	G1					
2	4	4	8	2	Countersunk screw M6 x 20 mm	1	1	9-13274-20-0-1	
2	4	4	8	2	Countersunk screw M6 x 80 mm	2 + 3	1	9-13274-80-0-1	

Optional: gasket plates									
Pattern					Designation	Example of application	Finish	PU	Order no.
A	C	D	F	G1					
1	2	2	4	1	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	2	4	1	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Etem E70 / L&S bogie GU-937

Application ranges



RC2

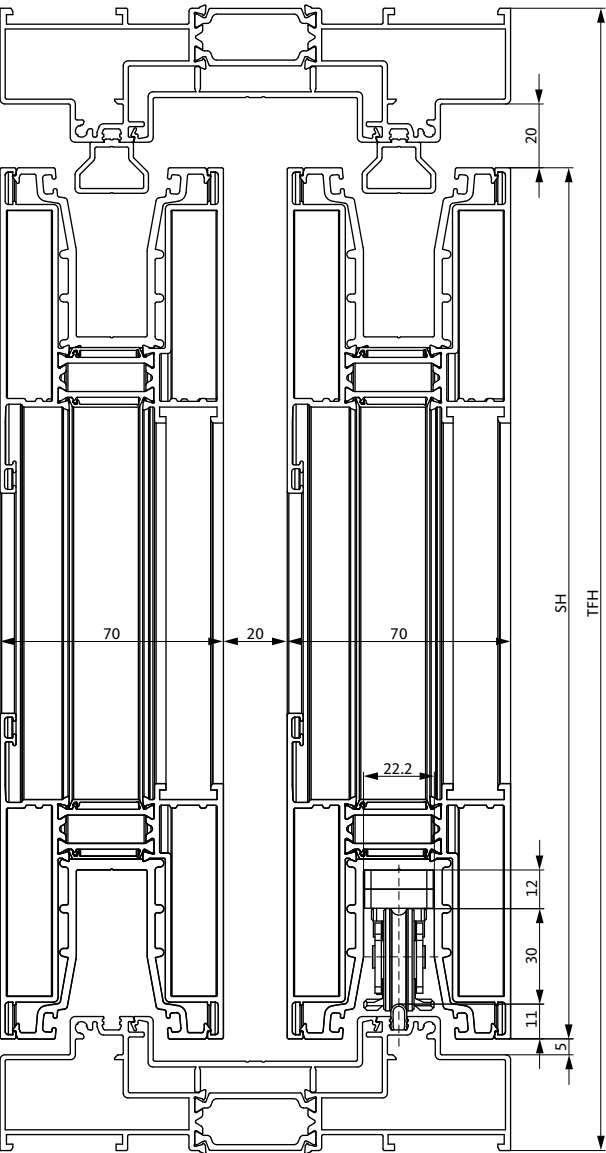
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	849–2749 mm	200 kg	GU-937

SH : SW = 2.5 : 1

Installation drawings

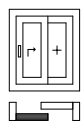
Application	Drawing	Order information
Lift&Slide hardware GU-937	0-46564	from page 91
HS LiftUnit GU-937	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270



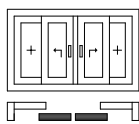
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

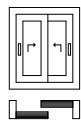
Possible patterns



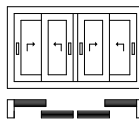
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 200 kg

L&S bogie									
Pattern				Designation	Contents	Finish	PU	Order no.	
A	C	D	F						
1	2	2	4	L&S bogie GU-937	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16493-00-0-1	
						faceGUard	1	K-16493-00-0-18	

Rod Ø 8 mm									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F						
1	2	2	4	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
							faceGUard	1	9-25476-11-0-18
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
							faceGUard	1	9-25476-14-0-18
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
							faceGUard	1	9-25476-18-0-18
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
							faceGUard	1	9-25476-33-0-18

Lift&Slide gear, 27.5 mm backset										
Pattern				SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F				Cover rail	Lock case, connecting rod		
1	2	2	4	849 – 1269	1190	406	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
				1239 – 1849	1770	406	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
							EV 1 / light grey	faceGUard	10	6-30019-19-0-18
				1849 – 2349	2270	1006	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
							EV 1 / light grey	faceGUard	10	6-30019-24-0-18
				2099 – 2749	2670	1006	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
							EV 1 / light grey	faceGUard	10	6-30019-28-0-18
				Optional: Gear extension set 500 mm						
1	2	2	4	max. 3249	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
							UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
							EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm										
1	2	2	4	max. 3249	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
							UC 5 / dark bronze	–	10	9-28483-05-0-5

Etem E70 / L&S bogie GU-937

Hardware requirements



Frame cam									
Pattern				Designation			Finish	PU	Order no.
A	C	D	F						
2	2	4	6	Frame cam			stainless steel	1	6-22648-02-0-8
–	4	–	4	Countersunk screw 4.8 x 38 mm			stainless steel	1	9-13089-38-R-8

Horizontal packers							
Pattern				Designation	PU	Order no.	
A	C	D	F				
2	4	4	8	Horizontal packer for GU-937 L&S front bogie	1	9-41680-16-0-1	
2	4	4	8	Horizontal packer for L&S bogie GU-937, rear	1	9-41681-16-0-1	

Packer, spacer, PC screw-hole cover cap									
Pattern				Designation			Finish	PU	Order no.
A	C	D	F						
1	2	2	4	Vertical packer for L&S bogie GU-937, front			–	1	9-47295-06-0-1
5	10	10	20	Spacer for Lift&Slide gear			–	1	9-47296-07-0-1
1	2	2	4	PC cover cap			grey	1	9-26687-00-0-1

L&S buffer 90							
Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
2	4	2	4	L&S buffer 90	black	1	K-17134-00-0-6
					white	1	K-17134-00-0-7
Contains: 1 x buffer, 1 x cover cap, fixing screws							

Additional kit L&S night vent module

Frame cam								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
2	4	4	4	Frame cam	stainless steel	1	9-43830-04-0-8	
L&S bottom keeper								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	2	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws								

Additional kit 'comfort' (see Chapter 4.2)

L&S handle damper [1]						
Pattern				Designation	PU	Order no.
A	C	D	F			
1	2	2	4	L&S handle damper	1	K-19053-00-0-6

Contains: 1 x handle damper, accessory
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-937*

The use of HS LiftUnit is recommended.
 The operating forces can be reduced by up to 50 %.
 Order information from page 236.

Additional kit 'burglary' (see Chapter 4.4)

L&S corner-drive with anti-jemmy device								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
					UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws								

L&S anti-jemmy device					Designation	Finish	PU	Order no.
Pattern								
A	C	D	F					
1	2	2	4	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket								

Vertical packer					Designation	PU	Order no.
Pattern							
A	C	D	F				
1	2	2	4	Vertical packer	1	9-47295-06-0-1	

P 959 connecting rod for L&S anti-jemmy device										
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.	
A	C	D	F							
1	2	2	4	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1	
					1236 – 1735	1500	ferGUard	1	9-28355-15-0-1	
					1736 – 2035	1800	ferGUard	1	9-28355-18-0-1	
					2036 – 2835	2600	ferGUard	1	9-28355-26-0-1	
					Stock length	4800	ferGUard	1	9-28355-48-0-1	

* Please observe the application ranges and processing guidelines of the system provider.

Etem E70 / L&S bogie GU-937

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1	
					dark brown [2]	1	6-24606-00-0-5	
					white, RAL 9016	1	6-24606-00-0-7	
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
					dark brown [2]	1	6-24607-00-0-5	
					white, RAL 9016	1	6-24607-00-0-7	
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.								
[2] Similar to RAL 8022								

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1	
					dark brown [2]	1	6-24606-00-0-5	
					white, RAL 9016	1	6-24606-00-0-7	
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
					dark brown [2]	1	6-24607-00-0-5	
					white, RAL 9016	1	6-24607-00-0-7	
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] Similar to RAL 8022								

L&S flush pull								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
					dark brown [1]	1	9-29992-01-0-5	
					white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022								

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
					dark brown [2]	1	6-24615-96-0-5	
					white, RAL 9016	1	6-24615-96-0-7	

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
 [2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws								
Pattern				Designation	Example of application	PU	Order no.	
A	C	D	F					
2	4	4	8	Countersunk screw M6 x 20 mm	1	1	9-13274-20-0-1	
2	4	4	8	Countersunk screw M6 x 80 mm	2 + 3	1	9-13274-80-0-1	

Optional: gasket plates								
Pattern				Designation	Example of application	Finish	PU	Order no.
A	C	D	F					
1	2	2	4	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	2	4	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Exalco Albio 230 / L&S bogie GU-934

Application ranges



Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	825–2725 mm	350 kg	GU-934

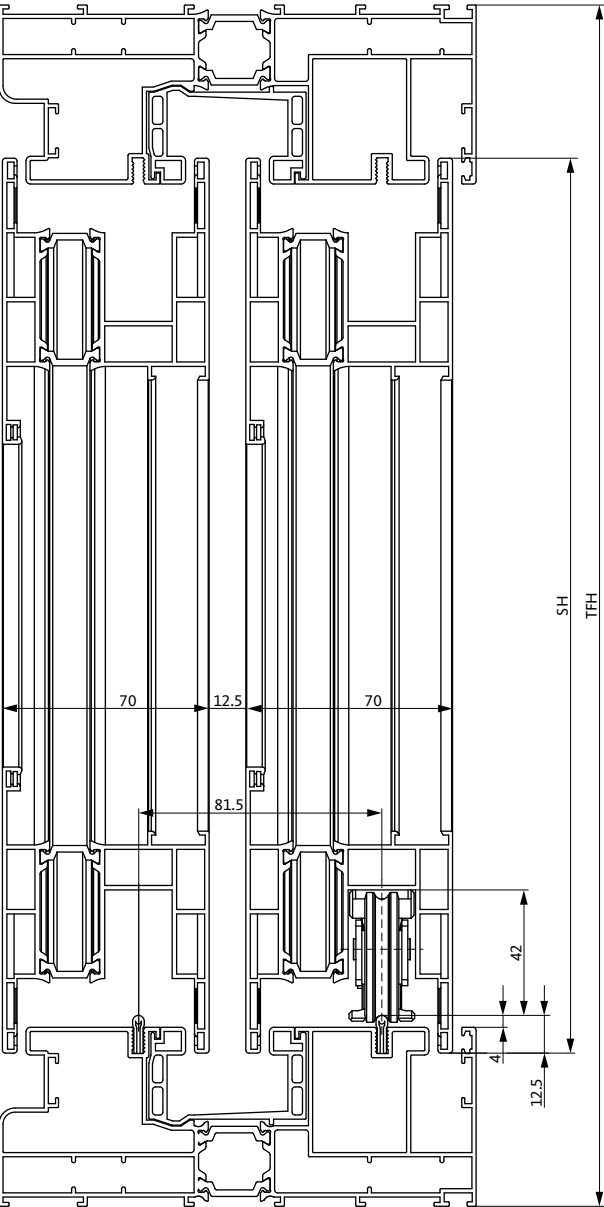
SH : SW = 2.5 : 1

Installation drawings

Application	Drawing	Order information
Lift&Slide hardware GU-934	0-44822	from page 97
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270

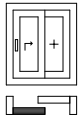
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

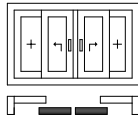


SH = sash height / TFW = total frame width

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie						
Pattern		Designation	Contents	Finish	PU	Order no.
A	C					
1	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1
				faceGUard	1	K-16488-00-0-18

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C						
1	2	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
					faceGUard	1	9-25476-11-0-18
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					faceGUard	1	9-25476-14-0-18
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					faceGUard	1	9-25476-18-0-18
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
					faceGUard	1	9-25476-33-0-18

Exalco Albio 230 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset									
Pattern		SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.	
A	C				Cover rail	Lock case, connecting rod			
1	2	825 – 1245	1190	407.5	EV 1 / light grey	ferGUard	10	6-30021-11-0-1	
					UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5	
		1195 – 1825	1770	407.5	EV 1 / light grey	ferGUard	10	6-30021-19-0-1	
					UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5	
		1825 – 2325	2270	1007.5	EV 1 / light grey	ferGUard	10	6-30021-24-0-1	
					UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5	
		2075 – 2725	2670	1007.5	EV 1 / light grey	ferGUard	10	6-30021-28-0-1	
					UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5	
Optional: Gear extension set 500 mm									
1	2	max. 3225	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1	
					UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5	
Optional: Cover-rail extension set 500 mm									
1	2	max. 3225	500	–	EV 1 / light grey	–	10	9-28483-05-0-1	
					UC 5 / dark bronze	–	10	9-28483-05-0-5	
Basic hardware set for Exalco Albio 230									
Pattern		Designation						PU	Order no.
A	C								
1	2	Basic hardware set for Exalco Albio 230						1	K-17482-00-0-0
Contains: 1 x packer, 5 x spacer, 2 x frame cam, 2 x rubber buffer, 1 x PC screw-hole cover cap, fixing screws									
Counterplate									
Pattern		Designation						PU	Order no.
A	C								
–	2	Counterplate						1	9-24414-00-0-0
Fixing screws									
Pattern		Designation				Finish	PU	Order no.	
A	C								
–	4	Countersunk screw M5 x 55 mm				stainless steel	1	9-13133-55-0-8	
Optional: L&S buffer 90									
Pattern		Designation				Finish	PU	Order no.	
A	C								
2	4	L&S buffer 90				black	1	K-17134-00-0-6	
						white	1	K-17134-00-0-7	
Contains: 1 x buffer, 1 x cover cap, fixing screws									

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]				
Pattern		Designation	PU	Order no.
A	C			
1	2	Tension spring	1	9-40235-05-0-0
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.				

L&S handle damper [1]				
Pattern		Designation	PU	Order no.
A	C			
1	2	L&S handle damper	1	K-19053-00-0-6
Contains: 1 x handle damper, accessory				
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.				



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Exalco Albio 230 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1][2]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
			dark brown [3]	1	6-24608-00-0-5
			white, RAL 9016	1	6-24608-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
			dark brown [3]	1	6-24609-00-0-5
			white, RAL 9016	1	6-24609-00-0-7
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] The fixing screws are contained in the basic hardware set for Exalco Albio 230 / order number K-17482-00-0-0. [3] Similar to RAL 8022					

L&S flush pull					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
			dark brown [1]	1	9-29992-01-0-5
			white, RAL 9016	1	9-29992-01-0-7
[1] Similar to RAL 8022					

Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Gasket plate for flush pull	black	1	9-47211-01-0-6

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1][2]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
			dark brown [3]	1	6-24615-96-0-5
			white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] The fixing screws are contained in the basic hardware set for Exalco Albio 230 / order number K-17482-00-0-0. [3] Similar to RAL 8022					

Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6

Feal T 120 / L&S bogie GU-934

Application ranges



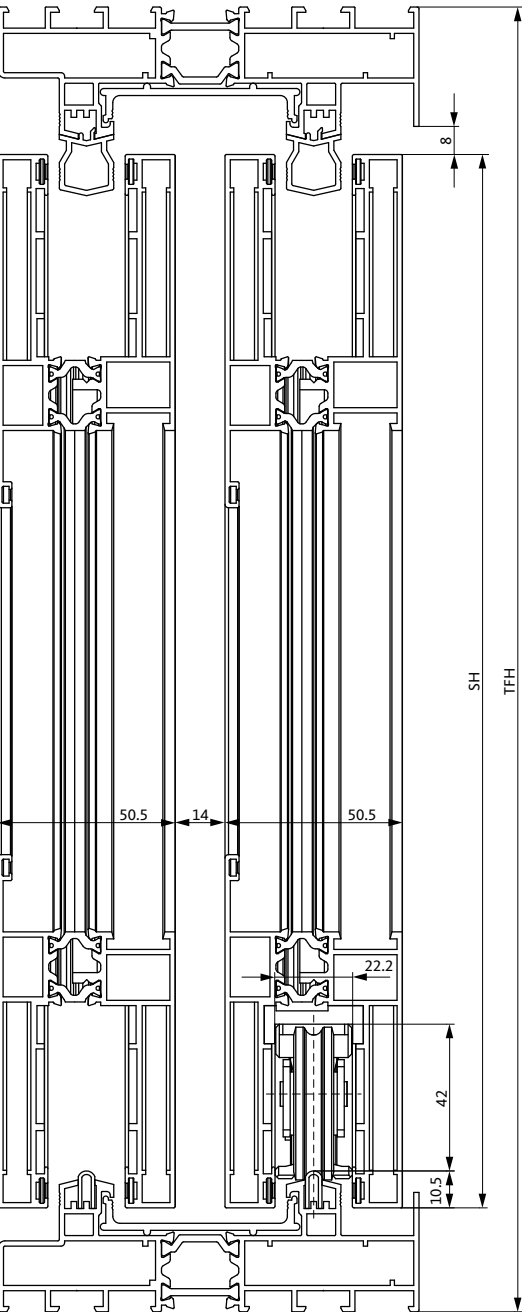
RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	847–2747 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

SH : SW = 2.5 : 1

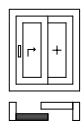
Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45732	from page 103
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270



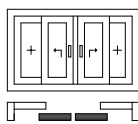
SH = sash height / TFW = total frame width

- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie						
Pattern		Designation	Contents	Finish	PU	Order no.
A	C					
1	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1
				faceGUard	1	K-16488-00-0-18

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C						
1	2	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
					faceGUard	1	9-25476-11-0-18
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					faceGUard	1	9-25476-14-0-18
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					faceGUard	1	9-25476-18-0-18
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
					faceGUard	1	9-25476-33-0-18



L&S bogie and rod – for sash weights up to 400 kg

L&S bogie						
Pattern		Designation	Contents	Finish	PU	Order no.
A	C					
1	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1
				faceGUard	1	K-16488-00-0-18
1	2	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1
				faceGUard	1	K-17804-01-0-18

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C						
1	2	Rod Ø 8 mm	1230 – 1600	1100	ferGUard	1	9-25476-11-0-1
					faceGUard	1	9-25476-11-0-18
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					faceGUard	1	9-25476-14-0-18
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					faceGUard	1	9-25476-18-0-18
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
					faceGUard	1	9-25476-33-0-18

Feal T 120 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset								
Pattern		SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C				Cover rail	Lock case, connecting rod		
1	2	847 – 1267	1190	405.5	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
		1217 – 1874	1770	405.5	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
		1874 – 2347	2270	1005.5	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
					EV 1 / light grey	faceGUard	10	6-30021-24-0-18
		2097 – 2747	2670	1005.5	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
					EV 1 / light grey	faceGUard	10	6-30021-28-0-18
Alternative: Lift&Slide gear, 27.5 mm backset								
1	2	847 – 1267	1190	405.5	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
		1217 – 1874	1770	405.5	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
					EV 1 / light grey	faceGUard	10	6-30019-19-0-18
		1874 – 2347	2270	1005.5	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
					EV 1 / light grey	faceGUard	10	6-30019-24-0-18
		2097 – 2747	2670	1005.5	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
EV 1 / light grey	faceGUard				10	6-30019-28-0-18		
Optional: Gear extension set 500 mm								
1	2	max. 3247	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
					UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
					EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm								
1	2	max. 3247	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
					UC 5 / dark bronze	–	10	9-28483-05-0-5

Horizontal/vertical packers				
Pattern		Designation	PU	Order no.
A	C			
1	2	Horizontal packer for L&S bogie GU-934, front	1	9-41680-05-0-1
1	2	Horizontal packer for L&S bogie GU-934, rear	1	9-41681-05-0-1
2	4	Horizontal packer for L&S tandem bogie GU-934, centre	1	9-41681-05-0-1
1	2	Vertical packer for L&S bogie GU-934, front	1	9-47295-05-0-1

Frame cam, spacers, PC screw-hole cover cap					
Pattern		Designation	Finish	PU	Order no.
A	C				
2	–	Frame cam	stainless steel	1	9-47530-01-0-8
–	2	Frame cam	stainless steel	1	6-22648-02-0-8
5	10	Spacer for Lift&Slide gear	–	1	9-47296-07-0-1
1	2	PC cover cap	grey	1	9-26687-00-0-1

Optional: L&S buffer 90

Pattern		Designation	Finish	PU	Order no.
A	C				
2	4	L&S buffer 90	black	1	K-17134-00-0-6
			white	1	K-17134-00-0-7

Contains: 1 x buffer, 1 x cover cap, fixing screws

Additional kit L&S night vent module

Frame cam

Pattern		Designation	Finish	PU	Order no.
A	C				
–	4	Frame cam	stainless steel	1	9-43830-04-0-8

L&S bottom keeper

Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S bottom keeper	stainless steel	1	K-12057-00-0-1

Contains: 1 x bottom keeper, fixing screws

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]

Pattern		Designation	PU	Order no.
A	C			
1	2	Tension spring	1	9-40235-05-0-0

[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.

L&S handle damper [1]

Pattern		Designation	PU	Order no.
A	C			
1	2	L&S handle damper	1	K-19053-00-0-6

Contains: 1 x handle damper, accessory

[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Feal T 120 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
			dark brown [2]	1	6-24608-00-0-5
			white, RAL 9016	1	6-24608-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
			dark brown [2]	1	6-24609-00-0-5
			white, RAL 9016	1	6-24609-00-0-7
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] Similar to RAL 8022					

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
			dark brown [2]	1	6-24608-00-0-5
			white, RAL 9016	1	6-24608-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
			dark brown [2]	1	6-24609-00-0-5
			white, RAL 9016	1	6-24609-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
			dark brown [1]	1	9-29992-01-0-5
			white, RAL 9016	1	9-29992-01-0-7
[1] Similar to RAL 8022					

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
			dark brown [2]	1	6-24615-96-0-5
			white, RAL 9016	1	6-24615-96-0-7

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
 [2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws					
Pattern		Designation	Example of application	PU	Order no.
A	C				
2	4	Countersunk screw M6 x 20 mm	1	1	9-13274-20-0-1
2	4	Countersunk screw M6 x 60 mm	2 + 3	1	9-13274-60-0-1

Optional: gasket plates						
Pattern		Designation	Example of application	Finish	PU	Order no.
A	C					
1	2	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Gastaldello Sistemi / L&S bogie GU-934

Application ranges



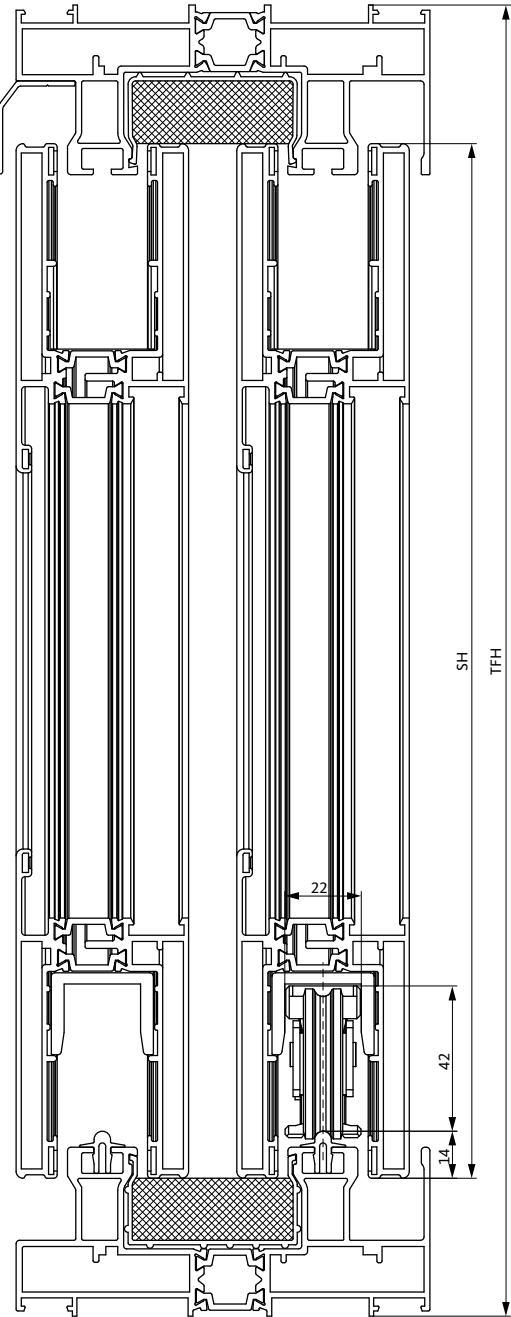
RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	852–2752 mm	350 kg	GU-934

SH : SW = 2.5 : 1

Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-44395	from page 109
HS LiftUnit GU-934	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258



SH = sash height / TFH = total frame width

- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns

Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right

Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left

Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left

Pattern F
4 Lift&Slide doors
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie									
Pattern				Designation	Contents	Finish	PU	Order no.	
A	C	D	F						
1	2	2	4	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	[1]	

[1] The L&S bogies are included in the basic hardware set for Gastaldello Sistemi / order number K-16967-00-0-0.

Rod Ø 8 mm									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F						
1	2	2	4	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1

Lift&Slide gear, 27.5 mm backset										
Pattern				SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F				Cover rail	Lock case, connecting rod		
1	2	2	4	852 – 1272	1190	409.5	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
				1222 – 1852	1770	409.5	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
				1852 – 2352	2270	1009.5	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
				2102 – 2752	2670	1009.5	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
Optional: Gear extension set 500 mm										
1	2	2	4	max. 3252	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
							UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
Optional: Cover-rail extension set 500 mm										
1	2	2	4	max. 3252	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
							UC 5 / dark bronze	–	10	9-28483-05-0-5

Basic hardware set for Gastaldello Sistemi						
Pattern				Designation	PU	Order no.
A	C	D	F			
1	2	2	4	Basic hardware set for Gastaldello Sistemi	1	K-16967-00-0-0
Contains: 1 x front bogie, 1 x rear bogie, 2 x rubber buffer, 2 x frame cam, 1 x PC screw-hole cover cap, fixing screws						

Contains: 1 x front bogie, 1 x rear bogie, 2 x rubber buffer, 2 x frame cam, 1 x PC screw-hole cover cap, fixing screws

Gastaldello Sistemi / L&S bogie GU-934

Hardware requirements / Optional additional components



Cover plate							
Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
1	2	2	4	Cover plate, bottom	black	1	9-45585-00-0-6

Spacer, guides							
Pattern				Designation	PU	Order no.	
A	C	D	F				
1	1	2	3	Spacer	1	[1]	
1	1	2	3	Guide 1	1	[1]	
1	2	2	4	Guide 2	1	[1]	

[1] Delivered by Gretsch-Unitas Italia S.r.l.

Optional: L&S buffer 90							
Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
2	4	2	4	L&S buffer 90	black	1	K-12024-00-0-6
					white	1	K-12024-00-0-7
					cream white	1	K-12024-00-0-7Z

Contains: 1 x buffer, 1 x cover cap, fixing screws

Optional: packer for L&S buffer 90							
Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
-	-	4	8	Packer for L&S buffer 90 Height 8.0 mm	black	1	9-30294-01-0-6
					white	1	9-30294-01-0-7
					cream white	1	9-30294-01-0-7Z

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]							
Pattern				Designation	PU	Order no.	
A	C	D	F				
1	2	2	4	Tension spring	1	9-40235-05-0-0	

[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.

L&S handle damper [1]						
Pattern				Designation	PU	Order no.
A	C	D	F			
1	2	2	4	L&S handle damper	1	K-19053-00-0-6

Contains: 1 x handle damper, accessory

[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

L&S turn handles

The turn handle versions used in the following application examples are exemplary.

You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
					dark brown [2]	1	6-24608-00-0-5	
					white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
					dark brown [2]	1	6-24609-00-0-5	
					white, RAL 9016	1	6-24609-00-0-7	

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.
 [2] Similar to RAL 8022

Fixing screws								
Pattern				Designation	PU	Order no.		
A	C	D	F					
2	4	4	8	Countersunk screw 5.5 x 32 mm	1	9-13253-32-0-0		

Gutmann SC 180 / L&S bogie GU-934

Application ranges



RC2

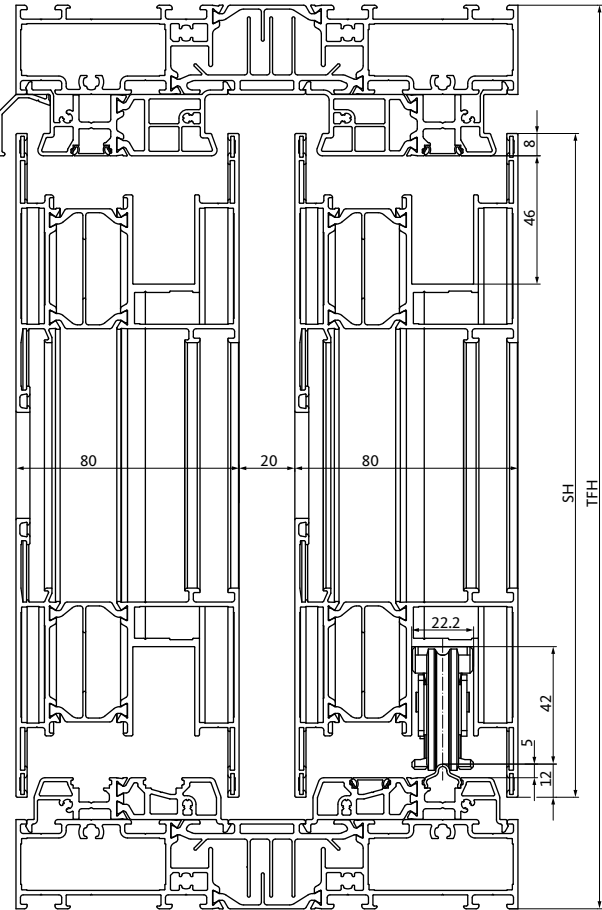
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–2220 mm	851–2751 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

SH : SW = 2.5 : 1

Installation drawings

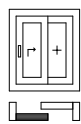
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-46014	from page 113
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS StopUnit / HS SilentClose	0-46014	from page 268



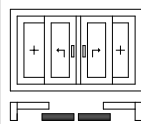
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

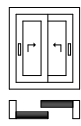
Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie			Designation	Contents	Finish	PU	Order no.
Pattern	A	C	D				
1	2	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard faceGUard	1 1	K-16488-00-0-1 K-16488-00-0-18

Rod Ø 8 mm			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
Pattern	A	C	D					
1	2	2	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
						faceGUard	1	9-25476-11-0-18
				1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
						faceGUard	1	9-25476-14-0-18
				1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
						faceGUard	1	9-25476-18-0-18
				2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
						faceGUard	1	9-25476-33-0-18



L&S bogie and rod – for sash weights up to 400 kg

L&S bogie			Designation	Contents	Finish	PU	Order no.
Pattern	A	C	D				
1	2	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard faceGUard	1 1	K-16488-00-0-1 K-16488-00-0-18
1	2	2	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard faceGUard	1 1	K-17804-01-0-1 K-17804-01-0-18

Rod Ø 8 mm			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
Pattern	A	C	D					
1	2	2	Rod Ø 8 mm	1230 – 1600	1100	ferGUard	1	9-25476-11-0-1
						faceGUard	1	9-25476-11-0-18
				1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
						faceGUard	1	9-25476-14-0-18
				1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
						faceGUard	1	9-25476-18-0-18
				2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
						faceGUard	1	9-25476-33-0-18

Gutmann SC 180 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset									
Pattern			SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D				Cover rail	Lock case, connecting rod		
1	2	1	851 – 1271	1190	407	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
			1221 – 1851	1770	407	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
			1852 – 2351	2270	1007	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
						EV 1 / light grey	faceGUard	10	6-30021-24-0-18
			2101 – 2751	2670	1007	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
						EV 1 / light grey	faceGUard	10	6-30021-28-0-18
Optional: Gear extension set 500 mm									
1	2	1	max. 3251	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
						UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
						EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm									
1	2	1	max. 3251	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
						UC 5 / dark bronze	–	10	9-28483-05-0-5
PC cover cap									
Pattern			Designation	Finish	PU	Order no.			
A	C	D							
1	2	2	PC screw-hole cover cap	grey	1	9-26687-00-0-1			
Basic hardware set for Gutmann SC 180									
Pattern			Designation	Finish	PU	Order no.			
A	C	D							
1	2	2	Basic hardware set for Gutmann SC 180		1	K-18330-00-0-0			
Contains: 1 x packer, 5 x spacer, 2 x frame cam, fixing screws									
Packers for frame cams									
Pattern			Designation	Finish	PU	Order no.			
A	C	D							
1	1	1	Packer 0.5 mm	stainless steel	1	K-18309-01-0-8			
1	1	1	Packer 1.0 mm	stainless steel	1	K-18309-02-0-8			
L&S buffer 90									
Pattern			Designation	Finish	PU	Order no.			
A	C	D							
–	4	2	L&S buffer 90	black	1	K-17134-00-0-6			
				white	1	K-17134-00-0-7			
Contains: 1 x buffer, 1 x cover cap, fixing screws									
Rubber buffer 80									
Pattern			Designation	Finish	PU	Order no.			
A	C	D							
2	–	–	Rubber buffer 80	light grey	1	9-08488-00-0-1			
				black	1	9-08488-00-0-6			

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]						
Pattern			Designation	PU	Order no.	
A	C	D				
1	2	1	Tension spring	1	9-40235-05-0-0	
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.						

L&S handle damper [1]						
Pattern			Designation	PU	Order no.	
A	C	D				
1	2	1	L&S handle damper	1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory						
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.						



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1
				UC 5 / dark bronze	1	K-16570-00-0-5
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws						

L&S anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket						

Vertical packer						
Pattern			Designation	PU	Order no.	
A	C	D				
1	2	2	Vertical packer	1	9-25740-07-0-0	

P 959 connecting rod for L&S anti-jemmy device								
Pattern			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D						
1	2	2	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
				1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
				1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
				2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
				Stock length	4800	ferGUard	1	9-28355-48-0-1

* Please observe the application ranges and processing guidelines of the system provider.

Gutmann SC 180 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
				dark brown [2]	1	6-24608-00-0-5
				white, RAL 9016	1	6-24608-00-0-7
1	2	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
				dark brown [2]	1	6-24609-00-0-5
				white, RAL 9016	1	6-24609-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
				dark brown [1]	1	9-29992-01-0-5
				white, RAL 9016	1	9-29992-01-0-7

[1] Similar to RAL 8022

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1]						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
				dark brown [2]	1	6-24615-96-0-5
				white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022						

Accessories for application examples 1 and 2

Fixing screws					
Pattern			Designation	Example of application	PU
A	C	D			Order no.
2	4	4	Countersunk screw M6 x 90 mm	1 + 2	1
					9-13274-90-0-1

Optional: gasket plates					
Pattern			Designation	Example of application	Finish
A	C	D			PU
1	2	2	Gasket plate for flush pull	1	black
					1
1	2	2	Gasket plate for exterior and interior turn handle	2	black
					1
					9-47211-01-0-6
					9-47210-01-0-6

Gutmann SC 180 / L&S bogie GU-937

Application ranges



RC2

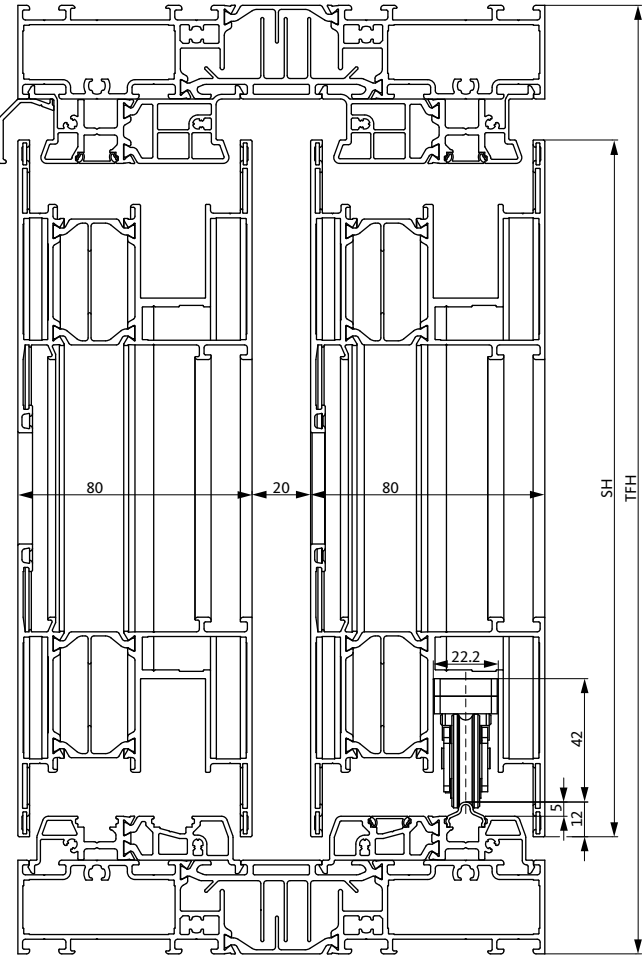
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–2220 mm	851–2751 mm	200 kg	GU-937

SH : SW = 2.5 : 1

Installation drawings

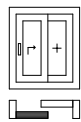
Application	Drawing	Order information
Lift&Slide hardware GU-937	0-46014	from page 119
HS LiftUnit GU-937	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258
HS StopUnit / HS SilentClose	0-46014	from page 268



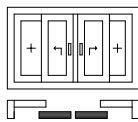
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

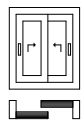
Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 200 kg

L&S bogie							
Pattern			Designation	Contents	Finish	PU	Order no.
A	C	D					
1	2	2	L&S bogie GU-937	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16721-00-0-1

Rod Ø 8 mm								
Pattern			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D						
1	2	2	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
						faceGUard	1	9-25476-11-0-18
				1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
						faceGUard	1	9-25476-14-0-18
				1851 – 2220	1850	ferGUard	1	9-25476-18-0-1
						faceGUard	1	9-25476-18-0-18

Lift&Slide gear, 37.5 mm backset									
Pattern			SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D				Cover rail	Lock case, connecting rod		
1	2	1	851 – 1271	1190	407	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
			1221 – 1851	1770	407	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
			1852 – 2351	2270	1007	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
						EV 1 / light grey	faceGUard	10	6-30021-24-0-18
			2101 – 2751	2670	1007	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
						EV 1 / light grey	faceGUard	10	6-30021-28-0-18
Optional: Gear extension set 500 mm									
1	2	1	max. 3251	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
						UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
						EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm									
1	2	1	max. 3251	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
						UC 5 / dark bronze	–	10	9-28483-05-0-5

Gutmann SC 180 / L&S bogie GU-937

Hardware requirements



PC cover cap					
Pattern			Designation	Finish	PU
A	C	D			
1	2	2	PC screw-hole cover cap	grey	1
9-26687-00-0-1					

Basic hardware set for Gutmann SC 180					
Pattern			Designation	PU	Order no.
A	C	D			
1	2	2	Basic hardware set for Gutmann SC 180	1	K-18330-00-0-0
Contains: 1 x packer, 5 x spacer, 2 x frame cam, fixing screws					

Packers for frame cams					
Pattern			Designation	Finish	PU
A	C	D			
1	1	1	Packer 0.5 mm	stainless steel	1
1	1	1	Packer 1.0 mm	stainless steel	1
K-18309-01-0-8 K-18309-02-0-8					

Horizontal packers for L&S bogies GU-937					
Pattern			Designation	PU	Order no.
A	C	D			
1	2	2	Packer for L&S bogie GU-937, front	1	9-41680-16-0-1
2	4	4	Packer for L&S bogie GU-937, rear	1	9-41681-06-0-1

L&S buffer 90					
Pattern			Designation	Finish	PU
A	C	D			
-	4	2	L&S buffer 90	black	1
				white	1
K-17134-00-0-6 K-17134-00-0-7					
Contains: 1 x buffer, 1 x cover cap, fixing screws					

Rubber buffer 80					
Pattern			Designation	Finish	PU
A	C	D			
2	-	-	Rubber buffer 80	light grey	1
				black	1
9-08488-00-0-1 9-08488-00-0-6					

Additional kit 'comfort' (see Chapter 4.1)

L&S handle damper [1]						
Pattern			Designation	PU	Order no.	
A	C	D				
1	2	1	L&S handle damper	1	K-19053-00-0-6	

Contains: 1 x handle damper, accessory
 [1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-937*

The use of HS LiftUnit is recommended.
 The operating forces can be reduced by up to 50 %.
 Order information from page 236.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1
				UC 5 / dark bronze	1	K-16570-00-0-5

Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws

L&S anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1

Contains: 2 x lever, 2 x wedge, 2 x pivot bracket

Vertical packer						
Pattern			Designation	PU	Order no.	
A	C	D				
1	2	2	Vertical packer	1	9-25740-07-0-0	

P 959 connecting rod for L&S anti-jemmy device									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D							
1	2	2	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1	
				1236 – 1735	1500	ferGUard	1	9-28355-15-0-1	
				1736 – 2035	1800	ferGUard	1	9-28355-18-0-1	
				2036 – 2835	2600	ferGUard	1	9-28355-26-0-1	
				Stock length	4800	ferGUard	1	9-28355-48-0-1	

* Please observe the application ranges and processing guidelines of the system provider.

Gutmann SC 180 / L&S bogie GU-937

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
				dark brown [2]	1	6-24608-00-0-5
				white, RAL 9016	1	6-24608-00-0-7
1	2	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
				dark brown [2]	1	6-24609-00-0-5
				white, RAL 9016	1	6-24609-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.
[2] Similar to RAL 8022

L&S flush pull

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
				dark brown [1]	1	9-29992-01-0-5
				white, RAL 9016	1	9-29992-01-0-7

[1] Similar to RAL 8022

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1]						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
				dark brown [2]	1	6-24615-96-0-5
				white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022						

Accessories for application examples 1 and 2

Fixing screws						
Pattern			Designation	Example of application	PU	Order no.
A	C	D				
2	4	4	Countersunk screw M6 x 90 mm	1 + 2	1	9-13274-90-0-1

Optional: gasket plates							
Pattern			Designation	Example of application	Finish	PU	Order no.
A	C	D					
1	2	2	Gasket plate for flush pull	1	black	1	9-47211-01-0-6
1	2	2	Gasket plate for exterior and interior turn handle	2	black	1	9-47210-01-0-6

Metra NC 150 STH Rodos (45°) / L&S bogie GU-934

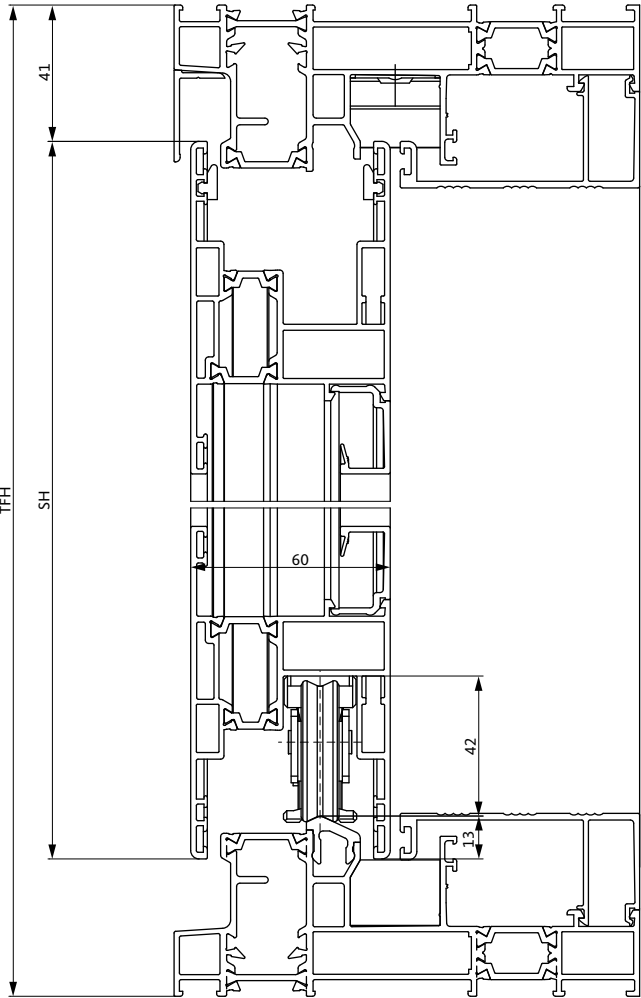
Application ranges



Application ranges

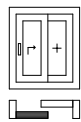
Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	855–2755 mm	350 kg	GU-934
SH : SW = 2.5 : 1			

Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45571	from page 125
HS LiftUnit GU-934	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258

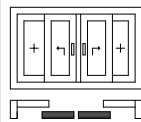


- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig: sliding direction to the right and left

Metra NC 150 STH Rodos (45°) / L&S bogie GU-934

Hardware requirements



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S bogie GU-934, front	ferGUard	1	[1]
1	2	L&S bogie GU-934, rear	ferGUard	1	[1]

[1] The L&S bogies are included in the basic hardware set for Metra NC 150 STH Rodos / order number K-17414-00-0-0.

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C						
1	2	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1

Lift&Slide gear, 27.5 mm backset								
Pattern		SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C				Cover rail	Lock case, connecting rod		
1	2	855 – 1275	1190	408	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
		1225 – 1855	1770	408	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
		1855 – 2355	2270	1008	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
		2105 – 2755	2670	1008	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
Optional: Gear extension set 500 mm								
1	2	max. 3255	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
					UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
Optional: Cover-rail extension set 500 mm								
1	2	max. 3255	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
					UC 5 / dark bronze	–	10	9-28483-05-0-5

Basic hardware set for Metra NC 150 STH Rodos				
Pattern		Designation	PU	Order no.
A	C			
1	2	Basic hardware set for Metra NC 150 STH Rodos	1	K-17414-00-0-0

Contains: 1 x front bogie, 1 x rear bogie, 1 x packer, 5 x spacer, 4 x rubber buffer, 2 x PC screw-hole cover cap, fixing screws

Metra NC 150 STH Rodos (45°) / L&S bogie GU-934

Hardware requirements



Gasket plate, bridging gasket, top guide track					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Gasket plate	black	1	9-44106-00-0-6
1	2	Bridging gasket	–	1	6-22154-13-0-0
1	2	Top guide track	black	1	K-14281-00-0-6

Frame cam

Pattern		Designation	Finish	PU	Order no.
A	C				
2	–	Frame cam set	stainless steel	1	K-17415-00-0-8

Contains: 1 x frame cam, fixing screws

Frame cam, counterplate, fixing screws

Pattern		Designation	Finish	PU	Order no.
A	C				
–	2	Frame cam	stainless steel	1	6-22623-05-0-8
–	2	Counterplate	–	1	9-24414-00-0-0
–	4	Countersunk screw M5 x 35 mm	–	1	9-13133-35-0-0

Optional: L&S buffer 90

Pattern		Designation	Finish	PU	Order no.
A	C				
2	4	L&S buffer 90	black	1	K-12024-00-0-6
			white	1	K-12024-00-0-7
			cream white	1	K-12024-00-0-7Z

Contains: 1 x buffer, 1 x cover cap, fixing screws

Optional: bottom keeper

Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Bottom keeper set	ferGUard	1	K-14568-00-0-1

Contains: 1 x bottom keeper, 1 x anti-jemmy device

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]					
Pattern		Designation	PU	Order no.	
A	C				
1	2	Tension spring	1	9-40235-05-0-0	
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.					

L&S handle damper [1]					
Pattern		Designation	PU	Order no.	
A	C				
1	2	L&S handle damper	1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory					
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.					



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device						
Pattern		Designation	Finish	PU	Order no.	
A	C					
1	2	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
			UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws						

L&S anti-jemmy device						
Pattern		Designation	Finish	PU	Order no.	
A	C					
1	2	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket						

Vertical packer						
Pattern		Designation	Finish	PU	Order no.	
A	C					
1	2	Vertical packer		1	9-47295-11-0-1	

P 959 connecting rod for L&S anti-jemmy device							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C						
1	2	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
			1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
			1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
			2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
			Stock length	4800	ferGUard	1	9-28355-48-0-1

* Please observe the application ranges and processing guidelines of the system provider.

Metra NC 150 STH Rodos (45°) / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
			dark brown [2]	1	6-24606-00-0-5
			white, RAL 9016	1	6-24606-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
			dark brown [2]	1	6-24607-00-0-5
			white, RAL 9016	1	6-24607-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
			dark brown [1]	1	9-29992-01-0-5
			white, RAL 9016	1	9-29992-01-0-7

[1] Similar to RAL 8022

Fixing screws					
Pattern		Designation		PU	Order no.
A	C				
2	4	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1

Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Gasket plate for flush pull	black	1	9-47211-01-0-6

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
			dark brown [2]	1	6-24615-96-0-5
			white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022					
Fixing screws					
Pattern		Designation		PU	Order no.
A	C				
2	4	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1
Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6

Metra NC 150 STH Rodos (45°) / L&S bogie GU-937

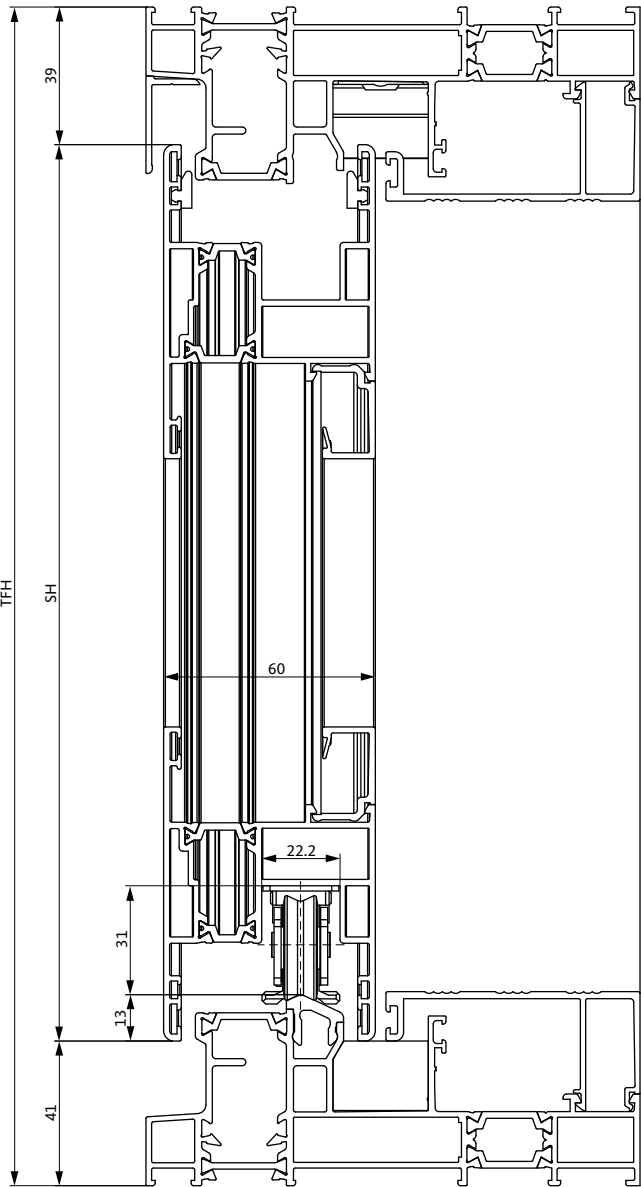
Application ranges



Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	830–2730 mm	200 kg	GU-937
SH : SW = 2.5 : 1			

Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-937	0-45079	from page 131
HS LiftUnit GU-937	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258

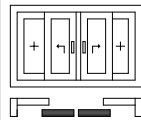


- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left

Metra NC 150 STH Rodos (45°) / L&S bogie GU-937

Hardware requirements



L&S bogie and rod – for sash weights up to 200 kg

L&S bogie					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S bogie GU-937, front	ferGUard	1	[1]
1	2	L&S bogie GU-937, rear	ferGUard	1	[1]

[1] The L&S bogies are included in the basic hardware set for Metra NC 150 STH Rodos / order number K-17687-00-0-0.

Rod Ø 8 mm						
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU
A	C					
1	2	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1
			1601 – 1850	1350	ferGUard	1
			1851 – 2350	1850	ferGUard	1
			2351 – 3300	3300	ferGUard	1

Lift&Slide gear, 27.5 mm backset								
Pattern		SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C				Cover rail	Lock case, connecting rod		
1	2	830 – 1250	1190	408	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
		1250 – 1830	1770	408	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
		1830 – 2330	2270	1008	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
		2080 – 2730	2670	1008	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
Optional: Gear extension set 500 mm								
1	2	max. 3230	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
					UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
Optional: Cover-rail extension set 500 mm								
1	2	max. 3230	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
					UC 5 / dark bronze	–	10	9-28483-05-0-5

Basic hardware set for Metra NC 150 STH Rodos					
Pattern		Designation	PU	Order no.	
A	C				
1	2	Basic hardware set for Metra NC 150 STH Rodos	1	K-17687-00-0-0	

Contains: 1 x front bogie, 1 x rear bogie, 3 x packer, 5 x spacer, 2 x rubber buffer, 1 x gasket plate, 2 x PC screw-hole cover cap, fixing screws

Metra NC 150 STH Rodos (45°) / L&S bogie GU-937

Hardware requirements



Gasket plate, top guide track

Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Bridging gasket	–	1	6-22154-13-0-0
1	2	Top guide track	black	1	K-14281-00-0-6

Frame cam

Pattern		Designation	Finish	PU	Order no.
A	C				
2	–	Frame cam set	stainless steel	1	K-17415-00-0-8

Contains: 1 x frame cam, fixing screws

Frame cam, counterplate, fixing screws

Pattern		Designation	Finish	PU	Order no.
A	C				
–	2	Frame cam	stainless steel	1	6-22623-05-0-8
–	2	Counterplate	–	1	9-24414-00-0-0
–	4	Countersunk screw M5 x 35 mm	–	1	9-13133-35-0-0

Optional: L&S buffer 90

Pattern		Designation	Finish	PU	Order no.
A	C				
2	4	L&S buffer 90	black	1	K-12024-00-0-6
			white	1	K-12024-00-0-7
			cream white	1	K-12024-00-0-7Z

Contains: 1 x buffer, 1 x cover cap, fixing screws

Optional: bottom keeper

Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Bottom keeper set	ferGUard	1	K-14568-00-0-1

Contains: 1 x bottom keeper, 1 x anti-jemmy device

Additional kit 'comfort' (see Chapter 4.1)

L&S handle damper [1]					
Pattern		Designation	PU	Order no.	
A	C				
1	2	L&S handle damper	1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory [1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.					



HS LiftUnit GU-937

The use of HS LiftUnit is recommended.
 The operating forces can be reduced by up to 50 %.
 Order information from page 236.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1
			UC 5 / dark bronze	1	K-16570-00-0-5
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws					

L&S anti-jemmy device					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket					

Vertical packer					
Pattern		Designation	PU	Order no.	
A	C				
1	2	Vertical packer	1	9-25740-08-0-0	

P 959 connecting rod for L&S anti-jemmy device						
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU
A	C					
1	2	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1
			1236 – 1735	1500	ferGUard	1
			1736 – 2035	1800	ferGUard	1
			2036 – 2835	2600	ferGUard	1
			Stock length	4800	ferGUard	1

* Please observe the application ranges and processing guidelines of the system provider.

Metra NC 150 STH Rodos (45°) / L&S bogie GU-937

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
			dark brown [2]	1	6-24606-00-0-5
			white, RAL 9016	1	6-24606-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
			dark brown [2]	1	6-24607-00-0-5
			white, RAL 9016	1	6-24607-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
			dark brown [1]	1	9-29992-01-0-5
			white, RAL 9016	1	9-29992-01-0-7
[1] Similar to RAL 8022					

Fixing screws					
Pattern		Designation		PU	Order no.
A	C				
2	4	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1

Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Gasket plate for flush pull	black	1	9-47211-01-0-6

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
			dark brown [2]	1	6-24615-96-0-5
			white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022					
Fixing screws					
Pattern		Designation		PU	Order no.
A	C				
2	4	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1
Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6

Metra NC 150 STH Rodos (90°) / L&S bogie GU-934

Application ranges



RC2

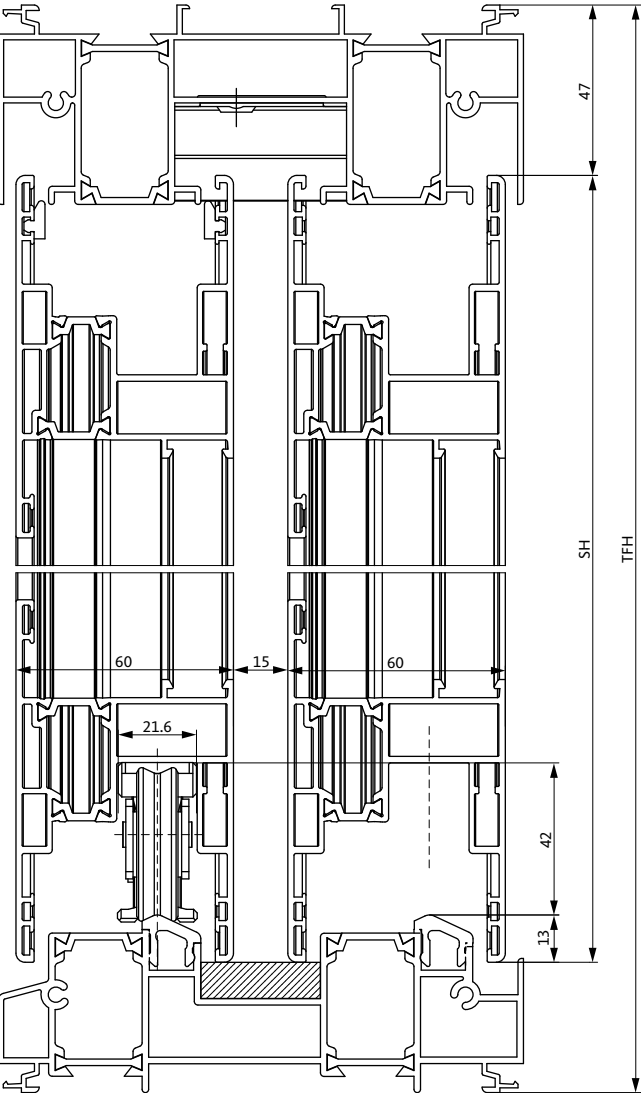
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	855–2755 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

SH : SW = 2.5 : 1

Installation drawings

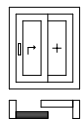
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-44415	from page 137
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS SpeedLimiter	0-44550	from page 270



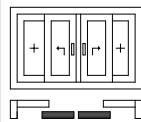
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

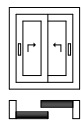
Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie			Designation	Contents	Finish	PU	Order no.
Pattern	A	C	D				
1	2	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	[1]

[1] The L&S bogies are included in the basic hardware set for Metra NC 150 STH Rodos / order number K-17414-00-0-0.

Rod Ø 8 mm			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
Pattern	A	C	D					
1	2	2	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
				1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
				1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
				2351 – 3300	3300	ferGUard	1	9-25476-33-0-1



L&S bogie and rod – for sash weights up to 400 kg

L&S bogie			Designation	Contents	Finish	PU	Order no.
Pattern	A	C	D				
1	2	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	[1]
1	2	2	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-02-0-1

[1] The L&S bogies are included in the basic hardware set for Metra NC 150 STH Rodos / order number K-17414-00-0-0.

Rod Ø 8 mm			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
Pattern	A	C	D					
1	2	2	Rod Ø 8 mm	1230 – 1600	1100	ferGUard	1	9-25476-11-0-1
				1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
				1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
				2351 – 3300	3300	ferGUard	1	9-25476-33-0-1

Metra NC 150 STH Rodos (90°) / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset										
Pattern			SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.	
A	C	D				Cover rail	Lock case, connecting rod			
1	2	2	855 – 1275	1190	408	EV 1 / light grey	ferGUard	10	6-30021-11-0-1	
						UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5	
			1225 – 1855	1770	408	EV 1 / light grey	ferGUard	10	6-30021-19-0-1	
						UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5	
			1855 – 2355	2270	1008	EV 1 / light grey	ferGUard	10	6-30021-24-0-1	
						UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5	
			2105 – 2755	2670	1008	EV 1 / light grey	ferGUard	10	6-30021-28-0-1	
						UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5	
Optional: Gear extension set 500 mm										
1	2	2	max. 3255	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1	
						UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5	
Optional: Cover-rail extension set 500 mm										
1	2	2	max. 3255	500	–	EV 1 / light grey	–	10	9-28483-05-0-1	
						UC 5 / dark bronze	–	10	9-28483-05-0-5	
Basic hardware set for Metra NC 150 STH Rodos										
Pattern			Designation						PU	Order no.
A	C	D								
1	2	2	Basic hardware set for Metra NC 150 STH Rodos						1	K-17414-00-0-0
Contains: 1 x front bogie, 1 x rear bogie, 1 x packer, 5 x spacer, 4 x rubber buffer, 2 x PC screw-hole cover cap, fixing screws										
Gasket plate, top guide track										
Pattern			Designation				Finish	PU	Order no.	
A	C	D								
1	2	2	Bridging gasket				–	1	6-22154-05-0-0	
1	2	4	Top guide track				black	1	K-14281-00-0-6	
L&S buffer 90 [1]										
Pattern			Designation				Finish	PU	Order no.	
A	C	D								
–	–	2	L&S buffer 90				black	1	K-12024-00-0-6	
							white	1	K-12024-00-0-7	
							cream white	1	K-12024-00-0-7Z	
Contains: 1 x buffer, 1 x cover cap, fixing screws [1] Optionally with patterns A and C										

Frame cam						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
2	–	4	Frame cam set		1	K-14388-00-0-1
Contains: 1 x frame cam, fixing screws						
Frame cam, counterplate, fixing screws						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
–	2	–	Frame cam	stainless steel	1	6-22623-05-0-8
–	2	–	Counterplate	–	1	9-24414-00-0-0
–	4	–	Countersunk screw M5 x 35 mm	–	1	9-13133-35-0-0
Optional: bottom keeper						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	Bottom keeper set	ferGUard	1	K-14568-00-0-1
Contains: 1 x bottom keeper, 1 x anti-jemmy device						

Metra NC 150 STH Rodos (90°) / L&S bogie GU-934

Optional additional components



Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]

Pattern			Designation	PU	Order no.
A	C	D			
1	2	2	Tension spring	1	9-40235-05-0-0

[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.

L&S handle damper [1]

Pattern			Designation	PU	Order no.
A	C	D			
1	2	2	L&S handle damper	1	K-19053-00-0-6

Contains: 1 x handle damper, accessory

[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-934*
The use of HS LiftUnit is recommended.
The operating forces can be reduced by up to 50 %.
Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1
				UC 5 / dark bronze	1	K-16570-00-0-5
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws						

L&S anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket						

Vertical packer						
Pattern			Designation		PU	Order no.
A	C	D				
1	2	2	Vertical packer		1	9-47295-11-0-1

P 959 connecting rod for L&S anti-jemmy device								
Pattern			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D						
1	2	2	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
				1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
				1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
				2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
				Stock length	4800	ferGUard	1	9-28355-48-0-1

Metra NC 150 STH Rodos (90°) / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
				dark brown [2]	1	6-24606-00-0-5
				white, RAL 9016	1	6-24606-00-0-7
1	2	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
				dark brown [2]	1	6-24607-00-0-5
				white, RAL 9016	1	6-24607-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.
[2] Similar to RAL 8022

L&S flush pull

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
				dark brown [1]	1	9-29992-01-0-5
				white, RAL 9016	1	9-29992-01-0-7

[1] Similar to RAL 8022

Fixing screws

Pattern			Designation		PU	Order no.
A	C	D				
2	4	4	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1

Optionally: gasket plate

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	Gasket plate for flush pull	black	1	9-47211-01-0-6

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1]						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
				dark brown [2]	1	6-24615-96-0-5
				white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022						
Fixing screws						
Pattern			Designation		PU	Order no.
A	C	D				
2	4	4	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1
Optionally: gasket plate						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6

Metra NC 150 STH Rodos (90°) / L&S bogie GU-937

Application ranges



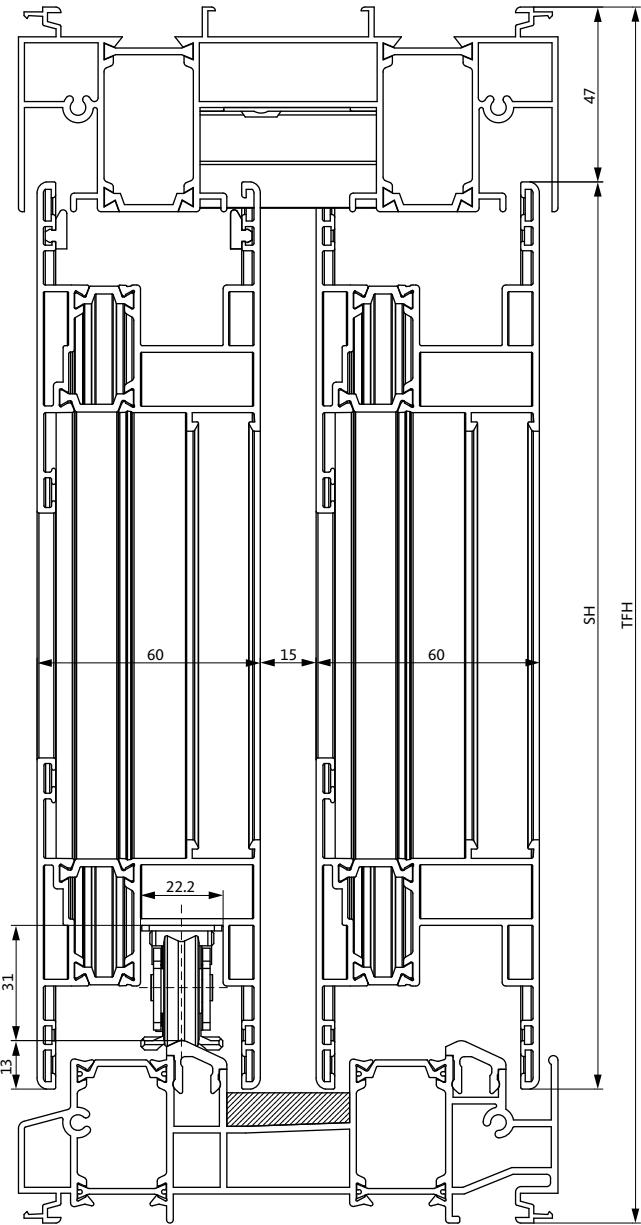
RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	830–2730 mm	200 kg	GU-937

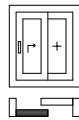
SH : SW = 2.5 : 1

Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-937	0-45553	from page 145
HS LiftUnit GU-937	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258

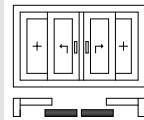


- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left

Metra NC 150 STH Rodos (90°) / L&S bogie GU-937

Hardware requirements



L&S bogie and rod – for sash weights up to 200 kg

L&S bogie						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S bogie GU-937, front	ferGUard	1	[1]
1	2	2	L&S bogie GU-937, rear	ferGUard	1	[1]

[1] The L&S bogies are included in the basic hardware set for Metra NC 150 STH Rodos / order number K-17687-00-0-0.

Rod Ø 8 mm									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D							
1	2	2	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1	
				1601 – 1850	1350	ferGUard	1	9-25476-14-0-1	
				1851 – 2350	1850	ferGUard	1	9-25476-18-0-1	
				2351 – 3300	3300	ferGUard	1	9-25476-33-0-1	

Lift&Slide gear, 27.5 mm backset									
Pattern			SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D				Cover rail	Lock case, connecting rod		
1	2	2	830 – 1250	1190	408	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
						UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
			1250 – 1830	1770	408	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
						UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
			1830 – 2330	2270	1008	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
						UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
			2080 – 2730	2670	1008	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
						UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
Optional: Gear extension set 500 mm									
1	2	2	max. 3230	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
						UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
Optional: Cover-rail extension set 500 mm									
1	2	2	max. 3230	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
						UC 5 / dark bronze	–	10	9-28483-05-0-5

Basic hardware set for Metra NC 150 STH Rodos						
Pattern			Designation	PU	Order no.	
A	C	D				
1	2	2	Basic hardware set for Metra NC 150 STH Rodos	1	K-17687-00-0-0	

Contains: 1 x front bogie, 1 x rear bogie, 3 x packer, 5 x spacer, 2 x rubber buffer, 1 x gasket plate, 2 x PC screw-hole cover cap, fixing screws

Metra NC 150 STH Rodos (90°) / L&S bogie GU-937

Hardware requirements



Gasket plate, top guide track						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	Bridging gasket	–	1	6-22154-05-0-0
1	2	4	Top guide track	black	1	K-14281-00-0-6

L&S buffer 90 [1]

Pattern			Designation	Finish	PU	Order no.
A	C	D				
–	–	2	L&S buffer 90	black	1	K-12024-00-0-6
				white	1	K-12024-00-0-7
				cream white	1	K-12024-00-0-7Z

Contains: 1 x buffer, 1 x cover cap, fixing screws
[1] Optionally with patterns A and C

Frame cam

Pattern			Designation		PU	Order no.
A	C	D				
2	–	4	Frame cam set		1	K-14388-00-0-1

Contains: 1 x frame cam, fixing screws

Frame cam, counterplate, fixing screws

Pattern			Designation	Finish	PU	Order no.
A	C	D				
–	2	–	Frame cam	stainless steel	1	6-22623-05-0-8
–	2	–	Counterplate	–	1	9-24414-00-0-0
–	4	–	Countersunk screw M5 x 35 mm	–	1	9-13133-35-0-0

Bottom keeper

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	Bottom keeper set	ferGUard	1	K-14568-00-0-1

Contains: 1 x bottom keeper, 1 x anti-jemmy device

Additional kit 'comfort' (see Chapter 4.1)

L&S handle damper [1]						
Pattern			Designation	PU	Order no.	
A	C	D				
1	2	2	L&S handle damper	1	K-19053-00-0-6	

Contains: 1 x handle damper, accessory
 [1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-937

The use of HS LiftUnit is recommended.
 The operating forces can be reduced by up to 50 %.
 Order information from page 236.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1
				UC 5 / dark bronze	1	K-16570-00-0-5

Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws

L&S anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1

Contains: 2 x lever, 2 x wedge, 2 x pivot bracket

Vertical packer						
Pattern			Designation	PU	Order no.	
A	C	D				
1	2	2	Vertical packer	1	9-25740-08-0-0	

P 959 connecting rod for L&S anti-jemmy device								
Pattern			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D						
1	2	2	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
				1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
				1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
				2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
				Stock length	4800	ferGUard	1	9-28355-48-0-1

* Please observe the application ranges and processing guidelines of the system provider.

Metra NC 150 STH Rodos (90°) / L&S bogie GU-937

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
				dark brown [2]	1	6-24606-00-0-5
				white, RAL 9016	1	6-24606-00-0-7
1	2	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
				dark brown [2]	1	6-24607-00-0-5
				white, RAL 9016	1	6-24607-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.
[2] Similar to RAL 8022

L&S flush pull

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
				dark brown [1]	1	9-29992-01-0-5
				white, RAL 9016	1	9-29992-01-0-7

[1] Similar to RAL 8022

Fixing screws

Pattern			Designation		PU	Order no.
A	C	D				
2	4	4	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1

Optionally: gasket plate

Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	Gasket plate for flush pull	black	1	9-47211-01-0-6

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1]						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
				dark brown [2]	1	6-24615-96-0-5
				white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022						
Fixing screws						
Pattern			Designation		PU	Order no.
A	C	D				
2	4	4	Countersunk screw M6 x 70 mm		1	9-13274-70-0-1
Optionally: gasket plate						
Pattern			Designation	Finish	PU	Order no.
A	C	D				
1	2	2	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6

Ponzio SL1600 / L&S bogie GU-934

Application ranges

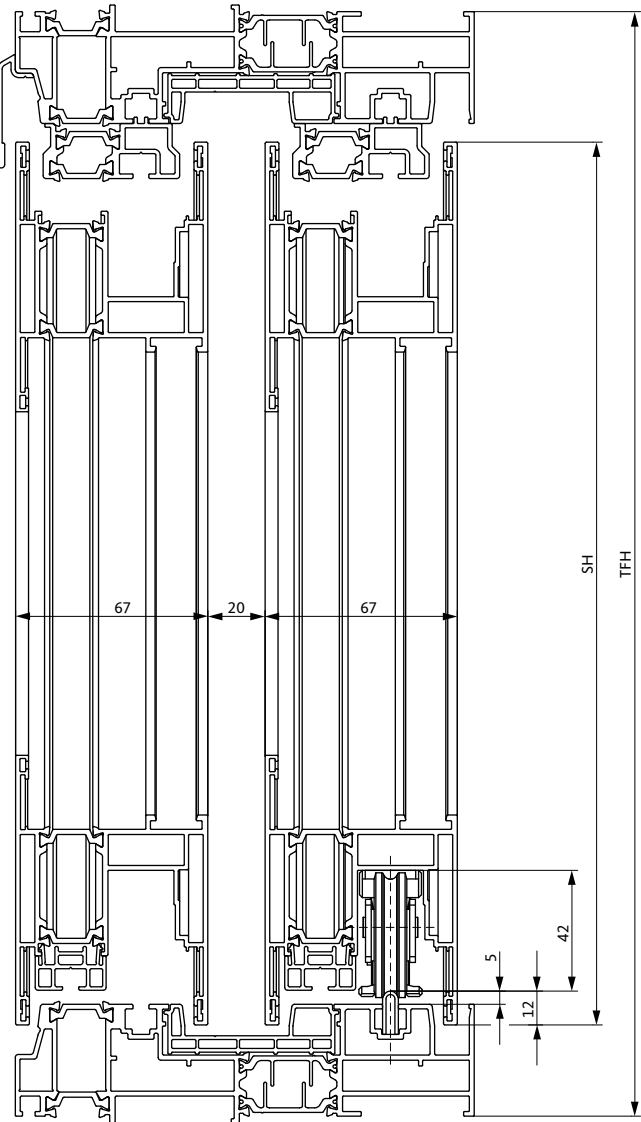


Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	852–2752 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

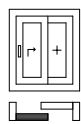
SH : SW = 2.5 : 1

Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-46501	from page 151
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS StopUnit / HS SilentClose	0-46501	from page 268
HS SpeedLimiter	0-44550	from page 270

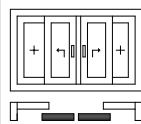


- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

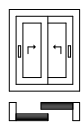
Possible patterns



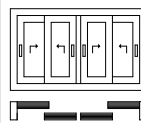
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie									
Pattern				Designation	Contents	Finish	PU	Order no.	
A	C	D	F						
1	2	2	4	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	[1]	

[1] The L&S bogies are included in the basic hardware set for Ponzio SL1600 / order number K-18435-00-0-0.

Rod Ø 8 mm									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F						
1	2	2	4	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1



L&S bogie and rod – for sash weights up to 400 kg

L&S bogie									
Pattern				Designation	Contents	Finish	PU	Order no.	
A	C	D	F						
1	2	2	4	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	[1]	
1	2	2	4	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1	

[1] The L&S bogies are included in the basic hardware set for Ponzio SL1600 / order number K-18435-00-0-0.

Rod Ø 8 mm									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F						
1	2	2	4	Rod Ø 8 mm	1230 – 1600	1100	ferGUard	1	9-25476-11-0-1
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1

Ponzio SL1600 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 27.5 mm backset										
Pattern				SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F				Cover rail	Lock case, connecting rod		
1	2	2	4	852 – 1272	1190	407	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
				1222 – 1852	1770	407	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
				1852 – 2352	2270	1007	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
				2102 – 2752	2670	1007	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
							UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
With HS Master, pattern A: Lift&Slide gear, 37.5 mm backset										
1	-	-	-	852 – 1272	1190	407	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
				1222 – 1852	1770	407	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
				1852 – 2352	2270	1007	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
				2102 – 2752	2670	1007	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
Optional: Gear extension set 500 mm										
1	2	2	4	max. 3252	500	-	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
							UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
Optional: Cover-rail extension set 500 mm										
1	2	2	4	max. 3252	500	-	EV 1 / light grey	-	10	9-28483-05-0-1
							UC 5 / dark bronze	-	10	9-28483-05-0-5
Basic hardware set for Ponzio SL1600										
Pattern				Designation					PU	Order no.
A	C	D	F							
1	2	2	4	Basic hardware set for Ponzio SL1600					1	K-18435-00-0-0
Contains: 1 x front bogie, 1 x rear bogie, 1 x packer, 5 x spacer, 2 x frame cam, 2 x rubber buffer, 2 x cover cap, fixing screws										
Accessories										
Pattern				Designation					PU	Order no.
A	C	D	F							
-	1	-	1	Accessories set					1	K-13392-00-0-5
Contains: 8 x pin, 4 x bushing, fixing screws										
L&S buffer 90 [1]										
Pattern				Designation			Finish	PU	Order no.	
A	C	D	F							
-	-	2	4	L&S buffer 90			black	1	K-17134-00-0-6	
							white	1	K-17134-00-0-7	
Contains: 1 x buffer, 1 x cover cap, fixing screws										
[1] Optionally with patterns A and C										

Optional: packers for frame cams

Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
1	1	1	1	Packer 0.5 mm	stainless steel	10	K-18309-01-0-8
1	1	1	1	Packer 1.0 mm	stainless steel	10	K-18309-02-0-8

Optional: L&S bottom keeper

Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
1	2	2	4	L&S bottom keeper	stainless steel	1	K-12057-00-0-1

Contains: 1 x bottom keeper, fixing screws

Ponzio SL1600 / L&S bogie GU-934

Optional additional components



Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]

Pattern				Designation	PU	Order no.
A	C	D	F			
1	2	2	4	Tension spring	1	9-40235-05-0-0

[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.

L&S handle damper [1]

Pattern				Designation	PU	Order no.
A	C	D	F			
1	2	2	4	L&S handle damper	1	K-19053-00-0-6

Contains: 1 x handle damper, accessory

[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-934*
The use of HS LiftUnit is recommended.
The operating forces can be reduced by up to 50 %.
Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device							
Pattern				Designation	Finish	PU	Order no.
A	C	D	F				
1	2	2	4	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1
					UC 5 / dark bronze	1	K-16570-00-0-5
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws							

L&S anti-jemmy device								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket								

Vertical packer								
Pattern				Designation		PU	Order no.	
A	C	D	F					
1	2	2	4	Vertical packer		1	9-47295-06-0-1	

P 959 connecting rod for L&S anti-jemmy device								
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU
A	C	D	F					
1	2	2	4	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1
					1236 – 1735	1500	ferGUard	1
					1736 – 2035	1800	ferGUard	1
					2036 – 2835	2600	ferGUard	1
					Stock length	4800	ferGUard	1

Ponzio SL1600 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1][2]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1	
					dark brown [3]	1	6-24606-00-0-5	
					white, RAL 9016	1	6-24606-00-0-7	
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
					dark brown [3]	1	6-24607-00-0-5	
					white, RAL 9016	1	6-24607-00-0-7	
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] The fixing screws are contained in the basic hardware set for Ponzio SL1600 / order number K-18435-00-0-0. [3] Similar to RAL 8022								

L&S flush pull – version 1								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
					dark brown [1]	1	9-29992-01-0-5	
					white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022								

L&S flush pull – version 2								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	L&S flush pull, round	silver/EV 1 look	1	9-46686-00-0-1	
					dark brown [1]	1	9-46686-00-0-5	
					white, RAL 9016	1	9-46686-00-0-7	
					stainless steel	1	9-46686-00-0-8	
[1] Similar to RAL 8022								

Optionally: gasket plate								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	Gasket plate for flush pull	black	1	9-47211-01-0-6	

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1][2]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
					dark brown [3]	1	6-24615-96-0-5	
					white, RAL 9016	1	6-24615-96-0-7	
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] The fixing screws are contained in the basic hardware set for Ponzio SL1600 / order number K-18435-00-0-0. [3] Similar to RAL 8022								

Optionally: gasket plate								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6	

Profilati / L&S bogie GU-934

Application ranges



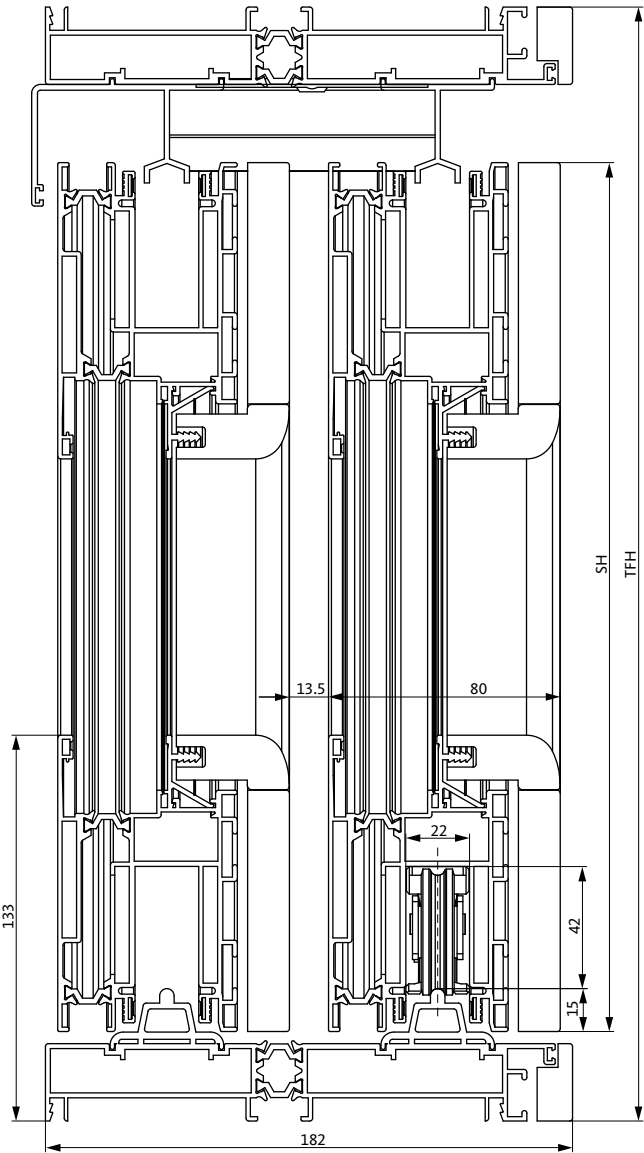
Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	830–2730 mm	350 kg	GU-934

SH : SW = 2.5 : 1

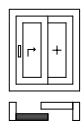
Installation drawings

Application	Drawing	Order information
Lift&Slide hardware GU-934	0-44499	from page 159
HS LiftUnit GU-934	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258

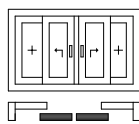


- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

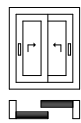
Possible patterns



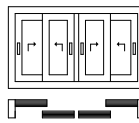
Pattern A
 1 Lift&Slide door
 1 Fixed-glazed sash
 Fig.: sliding direction to the right



Pattern C
 2 Lift&Slide doors
 2 Fixed-glazed sashes
 Fig.: sliding direction to the right and left



Pattern D
 2 Lift&Slide doors
 Fig.: sliding direction to the right and left



Pattern F
 4 Lift&Slide doors
 Fig.: sliding direction to the right and left

SH = sash height / TFW = total frame width



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie									
Pattern				Designation	Contents	Finish	PU	Order no.	
A	C	D	F						
1	2	2	4	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	[1]	
[1] The L&S bogies are included in the basic hardware set for Profilati / order number K-16978-00-0-0.									

Rod Ø 8 mm									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	F						
1	2	2	4	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1

Profilati / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset										
Pattern				SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F				Cover rail	Lock case, connecting rod		
1	2	2	4	830 – 1250	1190	410	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
				1200 – 1830	1770	410	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
				1830 – 2330	2270	1010	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
				2080 – 2730	2670	1010	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
Optional: Gear extension set 500 mm										
1	2	2	4	max. 3230	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
							UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
Optional: Cover-rail extension set 500 mm										
1	2	2	4	max. 3230	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
							UC 5 / dark bronze	–	10	9-28483-05-0-5
Basic hardware set for Profilati										
Pattern				Designation			Finish	PU	Order no.	
A	C	D	F							
1	2	2	4	Basic hardware set for Profilati				1	K-16978-00-0-0	
Contains: 1 x front bogie, 1 x rear bogie, 1 x packer, 5 x spacer, 2 x frame cam, 4 x rubber buffer, 3 x guide, 2 x cover plate, 1 x bridging gasket, 1 x spacer profile, 1 x PC screw-hole cover cap, fixing screws										
Frame cam, counterplate, fixing screws										
Pattern				Designation			Finish	PU	Order no.	
A	C	D	F							
–	2	–	2	Frame cam			stainless steel	1	6-22648-05-0-8	
–	2	–	2	Counterplate			–	1	9-24414-00-0-0	
–	4	–	4	Countersunk screw M5 x 20 mm			–	1	9-13133-20-0-0	
Optional: L&S buffer 90										
Pattern				Designation			Finish	PU	Order no.	
A	C	D	F							
2	4	2	4	L&S buffer 90			black	1	K-12024-00-0-6	
							white	1	K-12024-00-0-7	
							cream white	1	K-12024-00-0-7Z	
Contains: 1 x buffer, 1 x cover cap, fixing screws										

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]						
Pattern				Designation	PU	Order no.
A	C	D	F			
1	2	2	4	Tension spring	1	9-40235-05-0-0
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.						

L&S handle damper [1]						
Pattern				Designation	PU	Order no.
A	C	D	F			
1	2	2	4	L&S handle damper	1	K-19053-00-0-6
Contains: 1 x handle damper, accessory [1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.						



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Profilati / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1][2]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1	
					dark brown [3]	1	6-24608-00-0-5	
					white, RAL 9016	1	6-24608-00-0-7	
1	2	2	4	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1	
					dark brown [3]	1	6-24609-00-0-5	
					white, RAL 9016	1	6-24609-00-0-7	
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] The fixing screws are contained in the basic hardware set for Profilati / order number K-16978-00-0-0. [3] Similar to RAL 8022								

L&S flush pull								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
					dark brown [1]	1	9-29992-01-0-5	
					white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022								

Optionally: gasket plate								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	Gasket plate for flush pull	black	1	9-47211-01-0-6	

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1][2]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
					dark brown [3]	1	6-24615-96-0-5	
					white, RAL 9016	1	6-24615-96-0-7	
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] The fixing screws are contained in the basic hardware set for Profilati / order number K-16978-00-0-0. [3] Similar to RAL 8022								

Optionally: gasket plate								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	F					
1	2	2	4	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6	

Reynaers CP 130-LS / L&S bogie GU-934

Application ranges



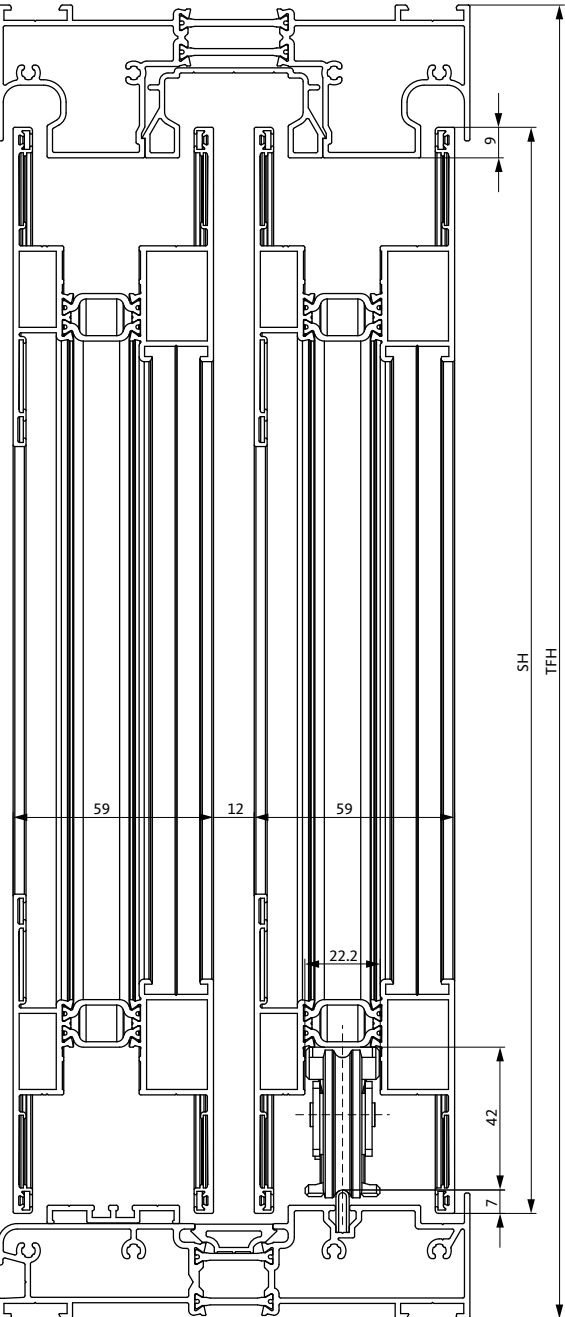
RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	853–2753 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

SH : SW = 2.5 : 1

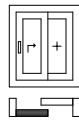
Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45873	from page 165
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
HS SpeedLimiter	0-44550	from page 270
L&S locking monitoring set	0-44449	from page 258



SH = sash height / TFW = total frame width

- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

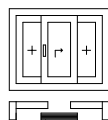
Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern G1 symmetrical
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie						
Pattern			Designation	Contents	Finish	PU
A	D	G1				
1	2	1	L&S bogie GU-934	1 x L&S front bogie	ferGUard	1
				1 x L&S rear bogie	faceGUard	1
						K-16488-00-0-1
						K-16488-00-0-18

Rod Ø 8 mm						
Pattern			Designation	SW [mm]	Length [mm]	Finish
A	D	G1				
1	2	1	Rod Ø 8 mm	700 – 1600	1100	ferGUard
						faceGUard
				1601 – 1850	1350	ferGUard
						faceGUard
				1851 – 2350	1850	ferGUard
						faceGUard
				2351 – 3300	3300	ferGUard
						faceGUard
						1
						9-25476-33-0-18
						9-25476-11-0-1
						9-25476-11-0-18
						9-25476-14-0-1
						9-25476-14-0-18
						9-25476-18-0-1
						9-25476-18-0-18
						9-25476-33-0-1
						9-25476-33-0-18

L&S bogie and rod – for sash weights up to 400 kg



L&S bogie						
Pattern			Designation	Contents	Finish	PU
A	D	G1				
1	2	1	L&S bogie GU-934	1 x L&S front bogie	ferGUard	1
				1 x L&S rear bogie	faceGUard	1
						K-16488-00-0-1
						K-16488-00-0-18
1	2	1	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1
					faceGUard	1
						K-17804-01-0-1
						K-17804-01-0-18

Rod Ø 8 mm						
Pattern			Designation	SW [mm]	Length [mm]	Finish
A	D	G1				
1	2	1	Rod Ø 8 mm	1210 – 1600	1100	ferGUard
						faceGUard
				1601 – 1850	1350	ferGUard
						faceGUard
				1851 – 2350	1850	ferGUard
						faceGUard
				2351 – 3300	3300	ferGUard
						faceGUard
						1
						9-25476-33-0-18
						9-25476-11-0-1
						9-25476-11-0-18
						9-25476-14-0-1
						9-25476-14-0-18
						9-25476-18-0-1
						9-25476-18-0-18
						9-25476-33-0-1
						9-25476-33-0-18

Reynaers CP 130-LS / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset									
Pattern			SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	D	G1				Cover rail	Lock case, connecting rod		
1	2	1	853 – 1273	1190	408	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
			1273 – 1853	1770	408	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
			1853 – 2353	2270	1008	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
						EV 1 / light grey	faceGUard	10	6-30021-24-0-18
			2103 – 2753	2670	1008	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
						UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
						EV 1 / light grey	faceGUard	10	6-30021-28-0-18
Optional: Gear extension set 500 mm									
1	2	1	max. 3253	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
						UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
						EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm									
1	2	1	max. 3253	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
						UC 5 / dark bronze	–	10	9-28483-05-0-5

Packer, spacer, frame cam, PC screw-hole cover cap, rubber buffer						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	Vertical packer for L&S bogie GU-934, front	–	1	9-47295-11-0-1
5	10	5	Spacer for Lift&Slide gear	–	1	9-47296-12-0-1
2	4	–	Frame cam	stainless steel	1	6-22648-02-0-8
1	2	1	PC cover cap	grey	1	9-26687-00-0-1
2	–	–	Rubber buffer 60	black	1	9-23793-00-0-0

L&S buffer 90 [1]						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
-	2	2	L&S buffer 90	black	1	K-17134-00-0-6
				white	1	K-17134-00-0-7
Contains: 1 x buffer, 1 x cover cap, fixing screws [1] Optionally with pattern A						

L&S bottom keeper						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
–	–	1	L&S bottom keeper	stainless steel	1	K-12057-00-0-1
Contains: 1 x bottom keeper, fixing screws						

Reynaers CP 130-LS / L&S bogie GU-934

Optional additional components



Additional kit L&S night vent module

Frame cam					
Pattern			Designation	Finish	PU
A	D	G1			
2	4	–	Frame cam	stainless steel	1
9-43830-04-0-8					
L&S bottom keeper					
Pattern			Designation	Finish	PU
A	D	G1			
1	2	–	L&S bottom keeper	stainless steel	1
K-12057-00-0-1					
Contains: 1 x bottom keeper, fixing screws					

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]					
Pattern			Designation	PU	Order no.
A	D	G1			
1	2	1	Tension spring	1	9-40235-05-0-0
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.					
L&S handle damper [1]					
Pattern			Designation	PU	Order no.
A	D	G1			
1	2	1	L&S handle damper	1	K-19053-00-0-6
Contains: 1 x handle damper, accessory					
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.					



HS LiftUnit GU-934*
The use of HS LiftUnit is recommended.
The operating forces can be reduced by up to 50 %.
Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	–	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1
				UC 5 / dark bronze	1	K-16570-00-0-5
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws						

L&S anti-jemmy device						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	–	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket						

Vertical packer						
Pattern			Designation		PU	Order no.
A	D	G1				
1	2	–	Vertical packer		1	9-47295-11-0-1

P 959 connecting rod for L&S anti-jemmy device								
Pattern			Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D	G1						
1	2	-	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
				1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
				1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
				2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
				Stock length	4800	ferGUard	1	9-28355-48-0-1

Reynaers CP 130-LS / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
				dark brown [2]	1	6-24606-00-0-5
				white, RAL 9016	1	6-24606-00-0-7
1	2	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
				dark brown [2]	1	6-24607-00-0-5
				white, RAL 9016	1	6-24607-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
				dark brown [2]	1	6-24606-00-0-5
				white, RAL 9016	1	6-24606-00-0-7
1	2	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
				dark brown [2]	1	6-24607-00-0-5
				white, RAL 9016	1	6-24607-00-0-7
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] Similar to RAL 8022						

L&S flush pull						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
				dark brown [1]	1	9-29992-01-0-5
				white, RAL 9016	1	9-29992-01-0-7
[1] Similar to RAL 8022						

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]						
Pattern			Designation	Finish	PU	Order no.
A	D	G1				
1	2	1	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
				dark brown [2]	1	6-24615-96-0-5
				white, RAL 9016	1	6-24615-96-0-7

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
[2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws						
Pattern			Designation	Example of application	PU	Order no.
A	D	G1				
2	4	2	Countersunk screw M6 x 20 mm	1	1	9-13274-20-0-1
2	4	2	Countersunk screw M6 x 70 mm	2 + 3	1	9-13274-70-0-1

Optional: gasket plates							
Pattern			Designation	Example of application	Finish	PU	Order no.
A	D	G1					
1	2	1	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	1	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Reynaers CP 155 / L&S bogie GU-934

Application ranges



RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	853–2753 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

SH : SW = 2.5 : 1

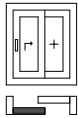
Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45582	from page 173
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
L&S locking monitoring set	0-44449	from page 258
HS StopUnit / HS SilentClose	0-45582	from page 268
HS SpeedLimiter	0-44550	from page 270

- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

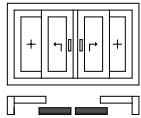


SH = sash height / TFW = total frame width

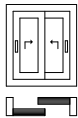
Possible patterns



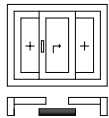
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern G1 symmetrical
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie					Designation	Contents	Finish	PU	Order no.
Pattern									
A	C	D	G1						
1	2	2	1	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard faceGUard	1 1	K-16488-00-0-1 K-16488-00-0-18	

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	G1							
1	2	2	1	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1	
							faceGUard	1	9-25476-11-0-18	
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1	
							faceGUard	1	9-25476-14-0-18	
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1	
							faceGUard	1	9-25476-18-0-18	
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1	
							faceGUard	1	9-25476-33-0-18	

L&S bogie and rod – for sash weights up to 400 kg



L&S bogie					Designation	Contents	Finish	PU	Order no.
Pattern									
A	C	D	G1						
1	2	2	1	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
						faceGUard	1	K-16488-00-0-18	
1	2	2	1	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1	
						faceGUard	1	K-17804-01-0-18	

Rod Ø 8 mm										
Pattern					Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	G1							
1	2	2	1	Rod Ø 8 mm	1210 – 1600	1100	ferGUard	1	9-25476-11-0-1	
							faceGUard	1	9-25476-11-0-18	
					1601 – 1850	1350	ferGUard	1	9-25476-14-0-1	
							faceGUard	1	9-25476-14-0-18	
					1851 – 2350	1850	ferGUard	1	9-25476-18-0-1	
							faceGUard	1	9-25476-18-0-18	
					2351 – 3300	3300	ferGUard	1	9-25476-33-0-1	
							faceGUard	1	9-25476-33-0-18	

Reynaers CP 155 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset										
Pattern				SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	G1				Cover rail	Lock case, connecting rod		
1	2	2	1	853 – 1273	1190	408	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
				1273 – 1853	1770	408	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
				1853 – 2353	2270	1008	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
				2103 – 2753	2670	1008	EV 1 / light grey	faceGUard	10	6-30021-24-0-18
							EV 1 / light grey	ferGUard	10	6-30021-28-0-1
							UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
							EV 1 / light grey	faceGUard	10	6-30021-28-0-18
Optional: Gear extension set 500 mm										
1	2	2	1	max. 3253	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
							UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
							EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm										
1	2	2	1	max. 3253	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
							UC 5 / dark bronze	–	10	9-28483-05-0-5

Basic hardware set for Reynaers CP 155						
Pattern				Designation	PU	Order no.
A	C	D	G1			
1	2	2	1	Basic hardware set for Reynaers CP 155	1	K-17936-00-0-0
Contains: 1 x packer, 5 x spacer, 2 x frame cam, 2 x rubber buffer						

PC cover cap											
Pattern				Designation				Finish	PU	Order no.	
A	C	D	G1								
1	2	2	1	PC cover cap				grey	1	9-26687-00-0-1	

L&S buffer 90								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	G1					
–	–	2	2	L&S buffer 90	black	1	K-17134-00-0-6	
					white	1	K-17134-00-0-7	
Contains: 1 x buffer, 1 x cover cap, fixing screws								
Frame cam, fixing screws								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	G1					
–	2	–	–	Frame cam	stainless steel	1	6-22648-03-0-8	
–	4	–	–	Countersunk-head tapping screw 4.8 x 16 mm	–	1	9-13089-16-R-1	
L&S bottom keeper								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	G1					
–	–	–	1	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws								

Reynaers CP 155 / L&S bogie GU-934

Optional additional components



Additional kit L&S night vent module

Frame cam								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	G1					
–	4	–	–	Frame cam	stainless steel	1	9-43830-03-0-8	
L&S bottom keeper								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	G1					
1	2	2	–	L&S bottom keeper	stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws								

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]

Pattern				Designation	PU	Order no.
A	C	D	G1			
1	2	2	1	Tension spring	1	9-40235-05-0-0

[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.

L&S handle damper [1]

Pattern				Designation	PU	Order no.
A	C	D	G1			
1	2	2	1	L&S handle damper	1	K-19053-00-0-6

Contains: 1 x handle damper, accessory

[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.



HS LiftUnit GU-934*
The use of HS LiftUnit is recommended.
The operating forces can be reduced by up to 50 %.
Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device							
Pattern				Designation	Finish	PU	Order no.
A	C	D	G1				
1	2	2	–	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1
					UC 5 / dark bronze	1	K-16570-00-0-5
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws							

L&S anti-jemmy device								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	G1					
1	2	2	–	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket								

Vertical packer								
Pattern				Designation		PU	Order no.	
A	C	D	G1					
1	2	2	–	Vertical packer		1	9-47295-11-0-1	

P 959 connecting rod for L&S anti-jemmy device									
Pattern				Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C	D	G1						
1	2	2	–	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
					1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
					1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
					2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
					Stock length	4800	ferGUard	1	9-28355-48-0-1

Reynaers CP 155 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]							
Pattern				Designation	Finish	PU	Order no.
A	C	D	G1				
1	2	2	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
					dark brown [2]	1	6-24606-00-0-5
					white, RAL 9016	1	6-24606-00-0-7
1	2	2	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
					dark brown [2]	1	6-24607-00-0-5
					white, RAL 9016	1	6-24607-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]							
Pattern				Designation	Finish	PU	Order no.
A	C	D	G1				
1	2	2	1	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
					dark brown [2]	1	6-24606-00-0-5
					white, RAL 9016	1	6-24606-00-0-7
1	2	2	1	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
					dark brown [2]	1	6-24607-00-0-5
					white, RAL 9016	1	6-24607-00-0-7
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] Similar to RAL 8022							

L&S flush pull								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	G1					
1	2	2	1	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1	
					dark brown [1]	1	9-29992-01-0-5	
					white, RAL 9016	1	9-29992-01-0-7	
[1] Similar to RAL 8022								

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]								
Pattern				Designation	Finish	PU	Order no.	
A	C	D	G1					
1	2	2	1	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1	
					dark brown [2]	1	6-24615-96-0-5	
					white, RAL 9016	1	6-24615-96-0-7	

[1] The use of buffers is recommended. For order information, refer to page 220 + 221.
 [2] Similar to RAL 8022

Accessories for application examples 1 to 3

Fixing screws								
Pattern				Designation	Example of application	PU	Order no.	
A	C	D	G1					
2	4	4	2	Countersunk screw M6 x 20 mm	1	1	9-13274-20-0-1	
2	4	4	2	Countersunk screw M6 x 80 mm	2 + 3	1	9-13274-80-0-1	

Optional: gasket plates								
Pattern				Designation	Example of application	Finish	PU	Order no.
A	C	D	G1					
1	2	2	1	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	2	1	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6

Reynaers TSL 110 / L&S bogie GU-934

Application ranges



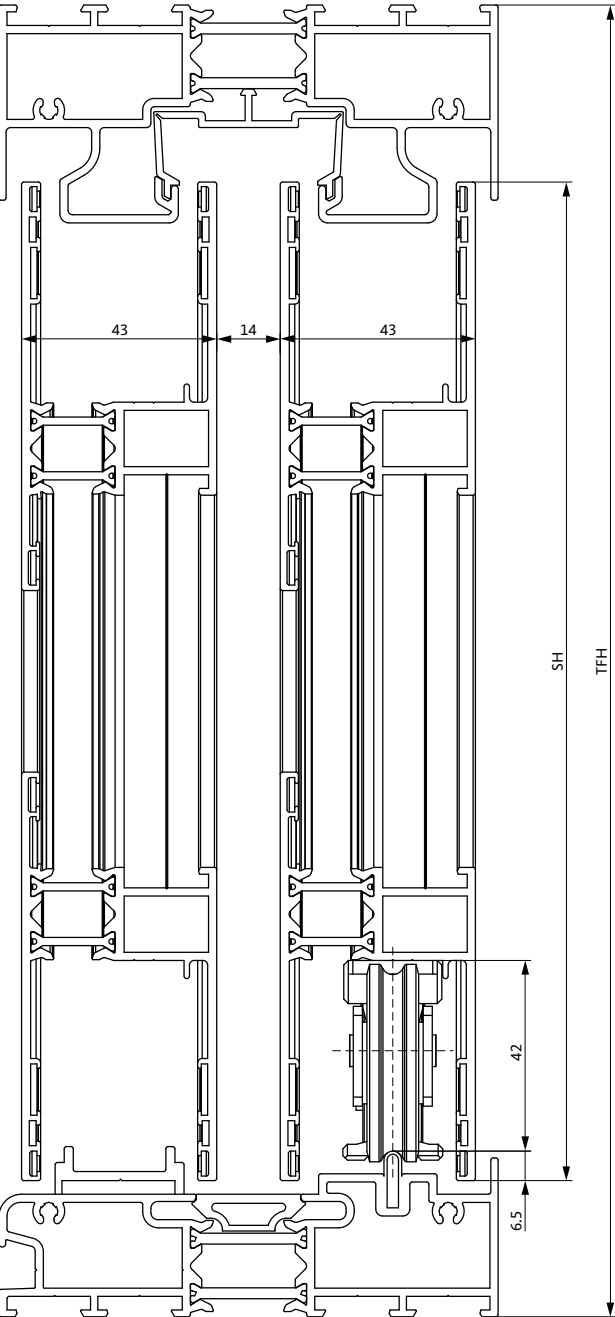
RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	864–2764 mm	350 kg	GU-934

SH : SW = 2.5 : 1

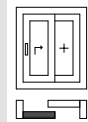
Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-934	0-45328	from page 181
HS LiftUnit GU-934	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258



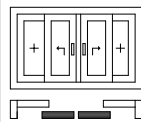
SH = sash height / TFH = total frame width

- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie						
Pattern		Designation	Contents	Finish	PU	Order no.
A	C					
1	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1
				faceGUard	1	K-16488-00-0-18

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	C						
1	2	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
					faceGUard	1	9-25476-11-0-18
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					faceGUard	1	9-25476-14-0-18
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					faceGUard	1	9-25476-18-0-18
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
					faceGUard	1	9-25476-33-0-18

Reynaers TSL 110 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset								
Pattern		SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C				Cover rail	Lock case, connecting rod		
1	2	864 – 1284	1190	406.5	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
		1234 – 1864	1770	406.5	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
		1864 – 2364	2270	1006.5	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
					EV 1 / light grey	faceGUard	10	6-30021-24-0-18
		2114 – 2764	2670	1006.5	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
UC 5 / dark bronze	ferGUard				10	6-30021-28-0-5		
EV 1 / light grey	faceGUard				10	6-30021-28-0-18		
Optional: Gear extension set 500 mm								
1	2	max. 3264	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
					UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
					EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm								
1	2	max. 3264	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
					UC 5 / dark bronze	–	10	9-28483-05-0-5

Basic hardware set for Reynaers TSL 110

Pattern		Designation	PU	Order no.
A	C			
1	2	Basic hardware set for Reynaers TSL 110	1	K-17133-00-0-0

Contains: 2 x frame cam, 1 x packer, 5 x spacer

Frame cam, rubber buffer, cover cap

Pattern		Designation	Finish	PU	Order no.
A	C				
–	2	Frame cam	stainless steel	1	6-23309-00-0-8
2	4	Rubber buffer 60	black	1	9-23793-00-0-0
1	2	PC cover cap	grey	1	9-26687-00-0-1

L&S buffer 90

Pattern		Designation	Finish	PU	Order no.
A	C				
2	4	L&S buffer 90	black	1	K-12024-00-0-6
			white	1	K-12024-00-0-7
			cream white	1	K-12024-00-0-7Z

Contains: 1 x buffer, 1 x cover cap, fixing screws

Additional kit L&S night vent module

Frame cam					
Pattern		Designation	Finish	PU	Order no.
A	C				
2	–	Frame cam	stainless steel	1	9-43830-04-0-8
L&S bottom keeper					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S bottom keeper	stainless steel	1	K-12057-00-0-1
Contains: 1 x bottom keeper, fixing screws					

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Tension spring		1	9-40235-05-0-0
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.					
L&S handle damper [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S handle damper		1	K-19053-00-0-6
Contains: 1 x handle damper, accessory					
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.					



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

Reynaers TSL 110 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24606-00-0-1
			dark brown [2]	1	6-24606-00-0-5
			white, RAL 9016	1	6-24606-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1
			dark brown [2]	1	6-24607-00-0-5
			white, RAL 9016	1	6-24607-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-01-0-1
			dark brown [1]	1	9-29992-01-0-5
			white, RAL 9016	1	9-29992-01-0-7
[1] Similar to RAL 8022					

Fixing screws					
Pattern		Designation		PU	Order no.
A	C				
2	4	Countersunk screw M6 x 20 mm		1	9-13274-20-0-1

Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Gasket plate for flush pull	black	1	9-47211-01-0-6

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
			dark brown [2]	1	6-24615-96-0-5
			white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022					
Fixing screws					
Pattern		Designation		PU	Order no.
A	C				
2	4	Countersunk screw M6 x 50 mm		1	9-13274-50-0-1
Optionally: gasket plate					
Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6

Sapa Ekonal 125 / L&S bogie GU-934

Application ranges



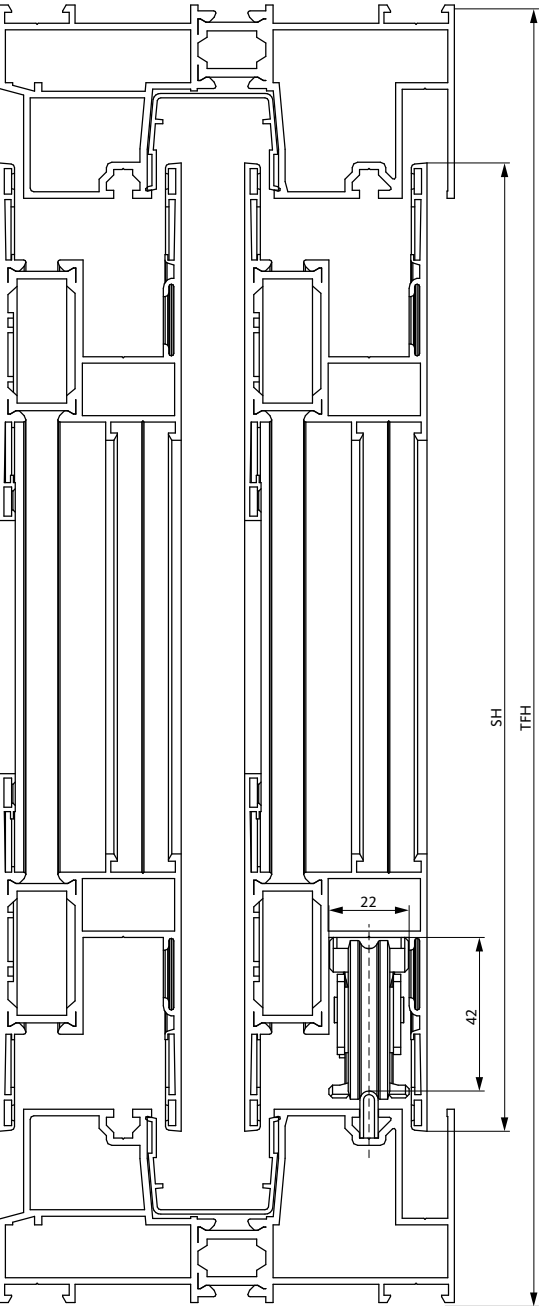
RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	774–2719 mm	350 kg	GU-934
SH : SW = 2.5 : 1			

Installation drawings

Application	Drawing	Order information
Lift&Slide hardware GU-934	0-44718	from page 187
HS LiftUnit GU-934	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258

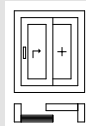


SH = sash height / TFW = total frame width

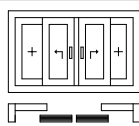
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".

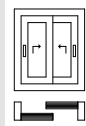
Possible patterns



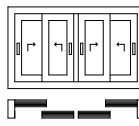
Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



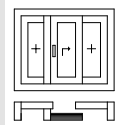
Pattern C
2 Lift&Slide doors
2 Fixed-glazed sashes
Fig.: sliding direction to the right and left



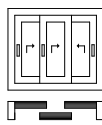
Pattern D
2 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern F
4 Lift&Slide doors
Fig.: sliding direction to the right and left



Pattern G2 asymmetrical
with fixed mullion
1 Lift&Slide door
2 Fixed-glazed sashes
Fig.: sliding direction to the right



Pattern H
3 Lift&Slide doors
(like pattern G1 symmetrical)
Fig.: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie											
Pattern						Designation	Contents	Finish	PU	Order no.	
A	C	D	F	G2	H						
1	2	2	4	1	3	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1	
								faceGUard	1	K-16488-00-0-18	

Rod Ø 8 mm												
Pattern						Designation	SW [mm]	Length [mm]	Finish	PU	Order no.	
A	C	D	F	G2	H							
1	2	2	4	1	3	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1	
									faceGUard	1	9-25476-11-0-18	
							1601 – 1850	1350	ferGUard	1	9-25476-14-0-1	
									faceGUard	1	9-25476-14-0-18	
							1851 – 2350	1850	ferGUard	1	9-25476-18-0-1	
									faceGUard	1	9-25476-18-0-18	
							2351 – 3300	3300	ferGUard	1	9-25476-33-0-1	
									faceGUard	1	9-25476-33-0-18	

Sapa Ekonal 125 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset												
Pattern						SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	C	D	F	G2	H				Cover rail	Lock case, connecting rod		
1	2	2	4	1	3	774 – 1239	1190	406	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
									UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
						1144 – 1819	1770	406	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
									UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
						1774 – 2319	2270	1006	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
									UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
									EV 1 / light grey	faceGUard	10	6-30021-24-0-18
						2024 – 2719	2670	1006	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
									UC 5 / dark bronze	ferGUard	10	6-30021-28-0-5
									EV 1 / light grey	faceGUard	10	6-30021-28-0-18
Optional: Gear extension set 500 mm												
1	2	2	4	1	3	max. 3219	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
									UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
									EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm												
1	2	2	4	1	3	max. 3219	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
									UC 5 / dark bronze	–	10	9-28483-05-0-5
Basic hardware set for Sapa Ekonal 125												
Pattern						Designation					PU	Order no.
A	C	D	F	G2	H							
1	2	2	4	1	3	Basic hardware set for Sapa Ekonal 125					1	K-17266-00-0-0
Contains: 2 x frame cam, 1 x packer, 5 x spacer, 1 x PC screw-hole cover cap, fixing screws												
Spacer												
Pattern						Designation					PU	Order no.
A	C	D	F	G2	H							
–	–	–	–	–	1	Spacer					1	9-47296-06-0-1
L&S bottom keeper												
Pattern						Designation			Finish	PU	Order no.	
A	C	D	F	G2	H							
–	–	–	–	–	1	L&S bottom keeper			stainless steel	1	K-12057-00-0-1	
Contains: 1 x bottom keeper, fixing screws												
Optional: L&S buffer 90												
Pattern						Designation			Finish	PU	Order no.	
A	C	D	F	G2	H							
2	4	2	4	2	4	L&S buffer 90			black	1	K-12024-00-0-6	
									white	1	K-12024-00-0-7	
									cream white	1	K-12024-00-0-7Z	
Contains: 1 x buffer, 1 x cover cap, fixing screws												

Additional kit L&S night vent module

Frame cam									
Pattern						Designation	Finish	PU	Order no.
A	C	D	F	G2	H				
2	4	4	4	–	–	Frame cam	stainless steel	1	9-43830-03-0-8
L&S bottom keeper									
Pattern						Designation	Finish	PU	Order no.
A	C	D	F	G2	H				
1	2	2	2	–	–	L&S bottom keeper	stainless steel	1	K-12057-00-0-1
Contains: 1 x bottom keeper, fixing screws									

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]									
Pattern						Designation	PU	Order no.	
A	C	D	F	G2	H				
1	2	2	4	1	3	Tension spring	1	9-40235-05-0-0	
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.									
L&S handle damper [1]									
Pattern						Designation	PU	Order no.	
A	C	D	F	G2	H				
1	2	2	4	1	3	L&S handle damper	1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory									
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.									



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Sapa Ekonal 125 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1][2]										
Pattern						Designation	Finish	PU	Order no.	
A	C	D	F	G2	H					
1	2	2	4	1	3	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24607-00-0-1	
							dark brown [3]	1	6-24607-00-0-5	
							white, RAL 9016	1	6-24607-00-0-7	
[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356. [2] The fixing screws are contained in the basic hardware set for Sapa Ekonal 125 / order number K-17266-00-0-0. [3] Similar to RAL 8022										

Application example 2: Interior/exterior handle set

DIRIGENT L&S turn handle [1]									
Pattern						Designation	Finish	PU	Order no.
A	C	D	F	G2	H				
1	2	2	4	1	3	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
							dark brown [2]	1	6-24615-96-0-5
							white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221. [2] Similar to RAL 8022									

Fixing screws									
Pattern						Designation		PU	Order no.
A	C	D	F	G2	H				
2	4	4	8	2	6	Countersunk screw M6 x 65 mm		1	9-13274-65-0-1

Optionally: gasket plate									
Pattern						Designation	Finish	PU	Order no.
A	C	D	F	G2	H				
1	2	2	4	1	3	Gasket plate for exterior and interior turn handle	black	1	9-47210-01-0-6

TS-Aluminium / L&S bogie GU-937

Application ranges



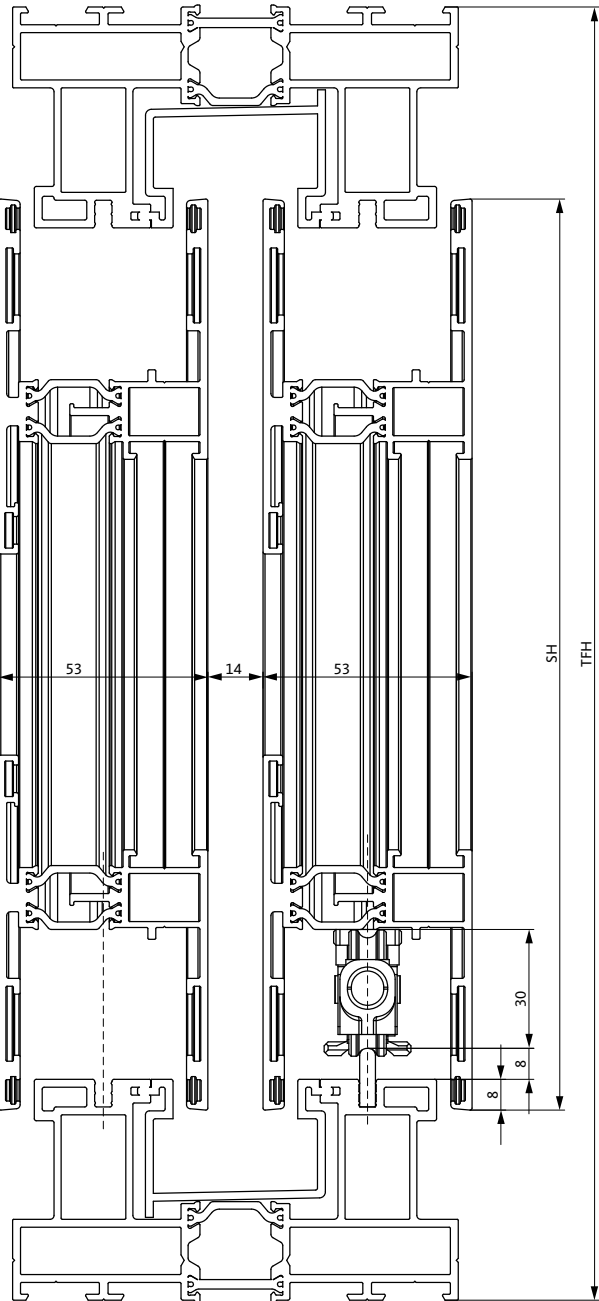
RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
700–3300 mm	830–2730 mm	200 kg	GU-937

SH : SW = 2.5 : 1

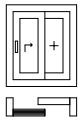
Installation drawings		
Application	Drawing	Order information
Lift&Slide hardware GU-937	0-44919	from page 193
HS LiftUnit GU-937	0-48605	from page 236
L&S locking monitoring set	0-44449	from page 258



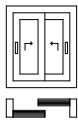
SH = sash height / TFW = total frame width

- Note:**
- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
 - RC2: for tested patterns please refer to our "System file RC2 Aluminium".

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 200 kg

L&S bogie					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	L&S bogie GU-937, front	ferGUard	1	[1]
1	2	L&S bogie GU-937, rear	ferGUard	1	[1]
[1] The L&S bogies are included in the basic hardware set for TS-Aluminium / order number K-17599-00-0-0.					

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D						
1	2	Rod Ø 8 mm	700 – 1600	1100	ferGUard	1	9-25476-11-0-1
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1

TS-Aluminium / L&S bogie GU-937

Hardware requirements



Lift&Slide gear, 27.5 mm backset								
Pattern		SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	D				Cover rail	Lock case, connecting rod		
1	2	830 – 1250	1190	411	EV 1 / light grey	ferGUard	10	6-30019-11-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-11-0-5
		1200 – 1830	1770	411	EV 1 / light grey	ferGUard	10	6-30019-19-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-19-0-5
		1830 – 2330	2270	1011	EV 1 / light grey	ferGUard	10	6-30019-24-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-24-0-5
		2080 – 2730	2670	1011	EV 1 / light grey	ferGUard	10	6-30019-28-0-1
					UC 5 / dark bronze	ferGUard	10	6-30019-28-0-5
Optional: Gear extension set 500 mm								
1	2	max. 3230	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
					UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
Optional: Cover-rail extension set 500 mm								
1	2	max. 3230	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
					UC 5 / dark bronze	–	10	9-28483-05-0-5

Basic hardware set for TS Aluminium					
Pattern		Designation	PU	Order no.	
A	D				
1	2	Basic hardware set for TS Aluminium	1	K-17599-00-0-0	
Contains: 1 x front bogie, 1 x rear bogie, 1 x packer, 2 x frame cam, 2 x rubber buffer, 2 x PC screw-hole cover cap, fixing screws					

Optional: L&S buffer 90							
Pattern		Designation			Finish	PU	Order no.
A	D						
2	2	L&S buffer 90			black	1	K-12024-00-0-6
					white	1	K-12024-00-0-7
					cream white	1	K-12024-00-0-7Z
Contains: 1 x buffer, 1 x cover cap, fixing screws							

Optional: L&S handle damper [1]					
Pattern		Designation	PU	Order no.	
A	D				
1	2	L&S handle damper	1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory [1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.					



HS LiftUnit GU-937*
The use of HS LiftUnit is recommended.
The operating forces can be reduced by up to 50 %.
Order information from page 236.

* Please observe the application ranges and processing guidelines of the system provider.

L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – with extended exterior flush pull

DIRIGENT L&S turn handle					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior L&S turn handle, without PC hole [1]	silver/EV 1 look	1	K-13265-00-0-1
			dark brown [3]	1	K-13265-00-0-5
			white, RAL 9016	1	K-13265-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole [2]	silver/EV 1 look	1	K-13266-00-0-1
			dark brown [3]	1	K-13266-00-0-5
			white, RAL 9016	1	K-13266-00-0-7
[1] Contains: DIRIGENT interior turn handle without PC hole, extended flush pull, square spindle [2] Contains: DIRIGENT interior turn handle with PC hole, extended flush pull, square spindle [3] Similar to RAL 8022					
Fixing screws					
Pattern		Designation		PU	Order no.
A	D				
2	4	Countersunk screw M6 x 50 mm		1	9-13274-50-0-1

Wicona Wicslide 160 / L&S bogie GU-934

Application ranges



RC2

Application ranges

Sash widths / sash heights / sash weights			
Sash width [SW]	Sash height [SH]	Sash weight [SW]	
		maximum	L&S bogie
720–3300 mm	843–2743 mm	350 kg	GU-934
		400 kg	GU-934 Tandem

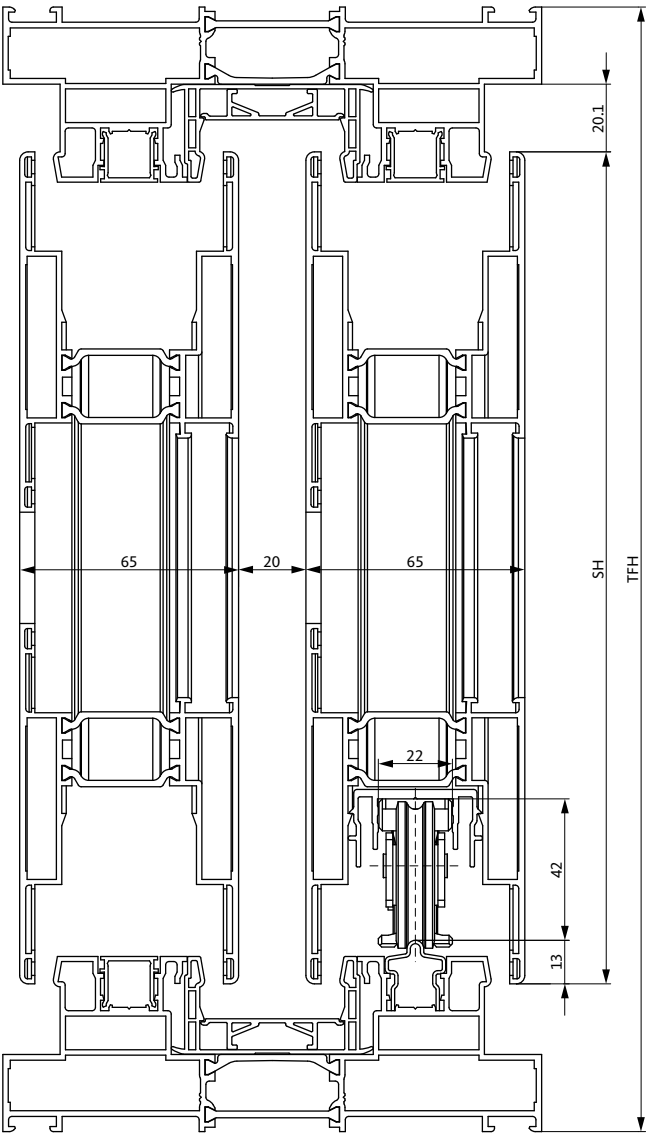
SH : SW = 2.5 : 1

Installation drawings

Application	Drawing	Order information
Lift&Slide hardware GU-934	0-46552	from page 197
HS LiftUnit GU-934	0-48605	from page 236
HS Master, pattern A	0-44355	from page 244
HS SpeedLimiter	0-44550	from page 270
L&S locking monitoring set	0-44449	from page 258

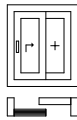
Note:

- The product guidelines of the system provider regarding construction, assembly, max. sash dimensions, max. sash weights and material qualities (e.g. linear profile expansion) are to be observed.
- RC2: for tested patterns please refer to our "System file RC2 Aluminium".



SH = sash height / TFW = total frame width

Possible patterns



Pattern A
1 Lift&Slide door
1 Fixed-glazed sash
Fig.: sliding direction to the right



Pattern D
2 Lift&Slide doors
Fig: sliding direction to the right and left



L&S bogie and rod – for sash weights up to 350 kg

L&S bogie						
Pattern		Designation	Contents	Finish	PU	Order no.
A	D					
1	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1
				faceGUard	1	K-16488-00-0-18

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D						
1	2	Rod Ø 8 mm	720 – 1600	1100	ferGUard	1	9-25476-11-0-1
					faceGUard	1	9-25476-11-0-18
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					faceGUard	1	9-25476-14-0-18
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					faceGUard	1	9-25476-18-0-18
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
					faceGUard	1	9-25476-33-0-18

L&S bogie and rod – for sash weights up to 400 kg



L&S bogie						
Pattern		Designation	Contents	Finish	PU	Order no.
A	D					
1	2	L&S bogie GU-934	1 x L&S front bogie 1 x L&S rear bogie	ferGUard	1	K-16488-00-0-1
				faceGUard	1	K-16488-00-0-18
1	2	L&S tandem bogie GU-934	2 x L&S central bogies	ferGUard	1	K-17804-01-0-1
				faceGUard	1	K-17804-01-0-18

Rod Ø 8 mm							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D						
1	2	Rod Ø 8 mm	1230 – 1600	1100	ferGUard	1	9-25476-11-0-1
					faceGUard	1	9-25476-11-0-18
			1601 – 1850	1350	ferGUard	1	9-25476-14-0-1
					faceGUard	1	9-25476-14-0-18
			1851 – 2350	1850	ferGUard	1	9-25476-18-0-1
					faceGUard	1	9-25476-18-0-18
			2351 – 3300	3300	ferGUard	1	9-25476-33-0-1
					faceGUard	1	9-25476-33-0-18

Wicona Wicslide 160 / L&S bogie GU-934

Hardware requirements



Lift&Slide gear, 37.5 mm backset								
Pattern		SH [mm]	Length [mm]	Handle height [mm]	Finish		PU	Order no.
A	D				Cover rail	Lock case, connecting rod		
1	2	843 – 1263	1190	408	EV 1 / light grey	ferGUard	10	6-30021-11-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-11-0-5
		1213 – 1843	1770	408	EV 1 / light grey	ferGUard	10	6-30021-19-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-19-0-5
		1843 – 2343	2270	1008	EV 1 / light grey	ferGUard	10	6-30021-24-0-1
					UC 5 / dark bronze	ferGUard	10	6-30021-24-0-5
					EV 1 / light grey	faceGUard	10	6-30021-24-0-18
		2093 – 2743	2670	1008	EV 1 / light grey	ferGUard	10	6-30021-28-0-1
UC 5 / dark bronze	ferGUard				10	6-30021-28-0-5		
EV 1 / light grey	faceGUard				10	6-30021-28-0-18		
Optional: Gear extension set 500 mm								
1	2	max. 3243	500	–	EV 1 / light grey	ferGUard	10	6-32030-00-0-1
					UC 5 / dark bronze	ferGUard	10	6-32030-00-0-5
					EV 1 / light grey	faceGUard	10	6-32030-00-0-18
Optional: Cover-rail extension set 500 mm								
1	2	max. 3243	500	–	EV 1 / light grey	–	10	9-28483-05-0-1
					UC 5 / dark bronze	–	10	9-28483-05-0-5

Packer, spacer, frame cam, PC screw-hole cover cap, rubber buffer					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	Vertical packer for L&S bogie GU-934, front	–	1	9-47295-08-0-1
5	10	Spacer for Lift&Slide gear	–	1	9-47296-09-0-1
2	4	Frame cam	stainless steel	1	6-22648-01-0-8
1	2	PC cover cap	grey	1	9-26687-00-0-1
2	–	Rubber buffer 62	black	1	9-24292-00-0-0

L&S buffer 90 [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
–	2	L&S buffer 90	black	1	K-17134-00-0-6
			white	1	K-17134-00-0-7
Contains: 1 x buffer, 1 x cover cap, fixing screws [1] Optionally with pattern A					

Optional: L&S bottom keeper					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	L&S bottom keeper	stainless steel	1	K-12057-00-0-1
Contains: 1 x bottom keeper, fixing screws					

Additional kit 'comfort' (see Chapter 4.1)

Tension spring [1]					
Pattern		Designation	PU	Order no.	
A	D				
1	2	Tension spring	1	9-40235-05-0-0	
[1] Recommended from a sash weight of 200 kg for reduction of the operating forces.					

L&S handle damper [1]					
Pattern		Designation	PU	Order no.	
A	D				
1	2	L&S handle damper	1	K-19053-00-0-6	
Contains: 1 x handle damper, accessory					
[1] Recommended from a sash weight of 100 kg for controlled lowering of the sliding sash.					



HS LiftUnit GU-934*

The use of HS LiftUnit is recommended.

The operating forces can be reduced by up to 50 %.

Order information from page 236.

Additional kit 'burglary' (see Chapter 4.2)

L&S corner-drive with anti-jemmy device						
Pattern		Designation	Finish	PU	Order no.	
A	D					
1	2	L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1	
			UC 5 / dark bronze	1	K-16570-00-0-5	
Contains: 1 x stay-arm slide block, 1 x lever, 1 x corner-drive, 1 x cover cap, 1 x extension, 2 x guides, fixing screws						

L&S anti-jemmy device						
Pattern		Designation	Finish	PU	Order no.	
A	D					
1	2	L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1	
Contains: 2 x lever, 2 x wedge, 2 x pivot bracket						

Vertical packer						
Pattern		Designation	PU	Order no.		
A	D					
1	2	Vertical packer	1	9-47295-08-0-1		

P 959 connecting rod for L&S anti-jemmy device							
Pattern		Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
A	D						
1	2	P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
			1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
			1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
			2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
			Stock length	4800	ferGUard	1	9-28355-48-0-1

* Please observe the application ranges and processing guidelines of the system provider.

Wicona Wicslide 160 / L&S bogie GU-934

L&S turn handles



L&S turn handles

The turn handle versions used in the following application examples are exemplary.
You can find other finishes and handle designs in Chapter 5.0 "Turn handles and accessories" from page 279.

Application example 1: Interior turn handle – without exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
			dark brown [2]	1	6-24608-00-0-5
			white, RAL 9016	1	6-24608-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
			dark brown [2]	1	6-24609-00-0-5
			white, RAL 9016	1	6-24609-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

Application example 2: Interior turn handle – with exterior flush pull

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior L&S turn handle, without PC hole	silver/EV 1 look	1	6-24608-00-0-1
			dark brown [2]	1	6-24608-00-0-5
			white, RAL 9016	1	6-24608-00-0-7
1	2	DIRIGENT interior L&S turn handle, with PC hole	silver/EV 1 look	1	6-24609-00-0-1
			dark brown [2]	1	6-24609-00-0-5
			white, RAL 9016	1	6-24609-00-0-7

[1] A removable service handle may be used alternatively for a fixed handle. Order information refer to page 356.

[2] Similar to RAL 8022

L&S flush pull					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	L&S flush pull MS, square	silver/EV 1 look	1	9-29992-02-0-1
			dark brown [1]	1	9-29992-02-0-5
			white, RAL 9016	1	9-29992-02-0-7
[1] Similar to RAL 8022					

Application example 3: Interior/exterior handle set

DIRIGENT L&S turn handle [1]					
Pattern		Designation	Finish	PU	Order no.
A	D				
1	2	DIRIGENT interior/exterior L&S turn handle set, with PC hole	silver/EV 1 look	1	6-24615-96-0-1
			dark brown [2]	1	6-24615-96-0-5
			white, RAL 9016	1	6-24615-96-0-7
[1] The use of buffers is recommended. For order information, refer to page 220 + 221.					
[2] Similar to RAL 8022					

Accessories for application examples 1 to 3

Fixing screws					
Pattern		Designation	Example of application	PU	Order no.
A	D				
2	4	Countersunk screw 5.5 x 32 mm	1	1	9-13253-32-0-0
2	4	Countersunk screw M6 x 75 mm	2	1	9-13274-75-0-1
2	4	Countersunk screw M6 x 85 mm	3	1	9-13274-85-0-3

Optional: gasket plates						
Pattern		Designation	Example of application	Finish	PU	Order no.
A	D					
1	2	Gasket plate for flush pull	2	black	1	9-47211-01-0-6
1	2	Gasket plate for exterior and interior turn handle	3	black	1	9-47210-01-0-6



2.0 Lift&Slide hardware

L&S bogies GU-934 / GU-934 Tandem	204
L&S bogies GU-937 / GU-937 Tandem	204
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L&S bogies

GU-934, GU-934 Tandem / GU-937, GU-937 Tandem



L&S bogie with rod Ø 8 mm

Use with a minimum sash width of 720 mm, respectively 700 mm depending on the profile

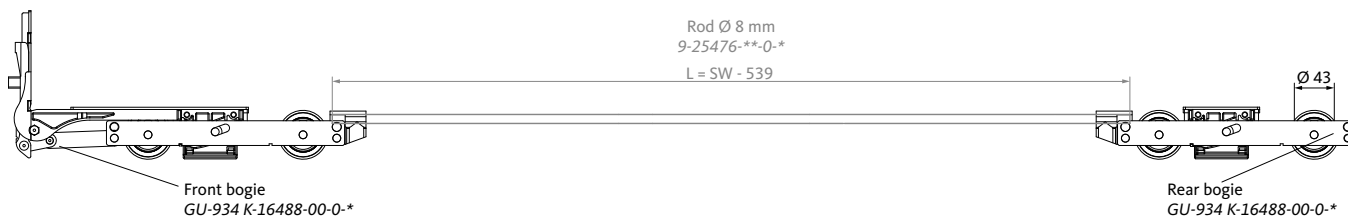


Fig.: L&S bogie GU-934

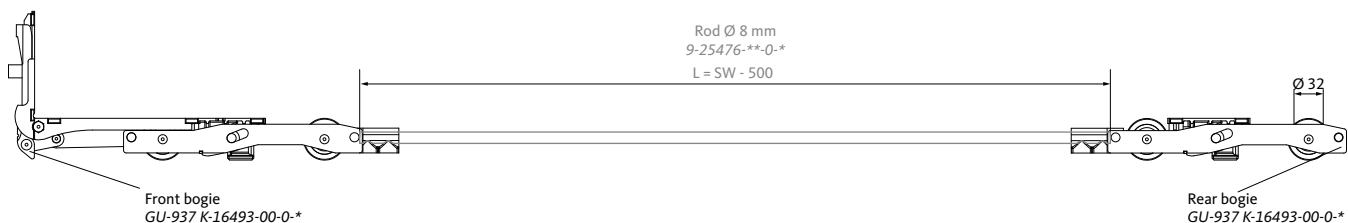


Fig.: L&S bogie GU-937

L&S tandem bogie with rod Ø 8 mm

Use with a minimum sash width of 1230 mm, respectively 1210 mm depending on the profile

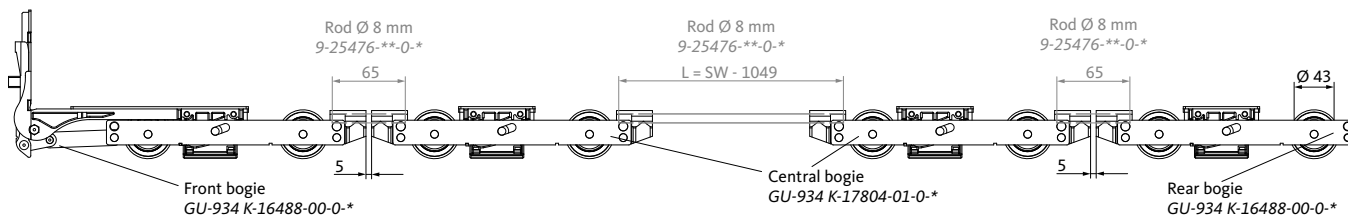


Fig.: L&S bogie GU-934 / L&S tandem bogie GU-934

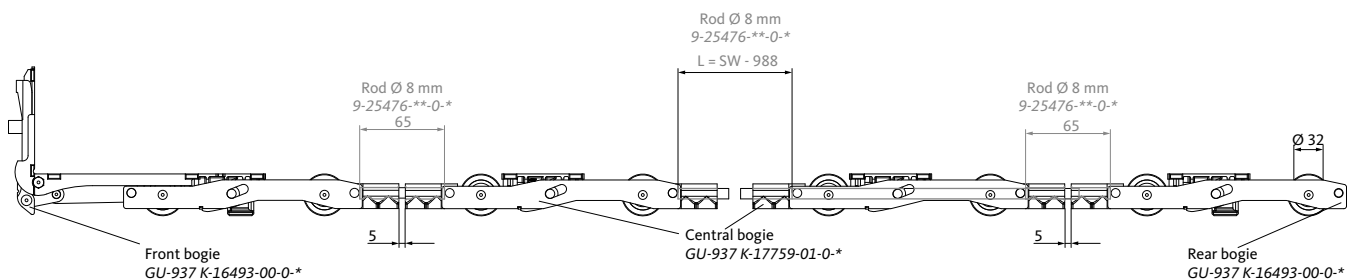


Fig.: L&S bogie GU-937 / L&S tandem bogie GU-937



L&S bogie GU-934 / L&S tandem bogie GU-934 [1]

Designation	Application range [kg]	Contents	PU [2]	Order no.	
				ferGUard	faceGUard
L&S bogie GU-934	max. 350	1 x front bogie 1 x rear bogie	1	K-16488-00-0-1	K-16488-00-0-18
L&S tandem bogie GU-934 [3]	max. 400	2 x central bogies	1	K-17804-01-0-1	K-17804-01-0-18

[1] You can find more bogie designs for specific profiles on the relevant order pages in Chapter 1.0 from page 9.

[2] One PU is required for each sliding sash.

[3] The L&S tandem bogies GU-934 must be used in combination with the corresponding L&S bogies GU-934.

L&S bogie GU-937 / L&S tandem bogie GU-937 [1]

Designation	Application range [kg]	Contents	PU [2]	Order no.	
				ferGUard	faceGUard
L&S bogie GU-937	max. 200	1 x front bogie 1 x rear bogie	1	K-16493-00-0-1	K-16493-00-0-18
L&S tandem bogie GU-937 [3]	max. 400	2 x central bogies	1	K-17759-01-0-1	K-17759-01-0-18

[1] You can find more bogie designs for specific profiles on the relevant order pages in Chapter 1.0 from page 9.

[2] One PU is required for each sliding sash.

[3] The L&S tandem bogies GU-937 must be used in combination with the corresponding L&S bogies GU-937.

L&S bogie GU-937 N22 / L&S tandem bogie GU-937 N22 [1]

Bogie groove width 22 mm

Designation	Application range [kg]	Contents	PU [2]	Order no.	
				ferGUard	faceGUard
L&S bogie GU-937 N22	max. 200	1 x front bogie 1 x rear bogie	1	K-20207-01-0-1	–
L&S tandem bogie GU-937 N22 [3]	max. 400	2 x central bogies	1	K-17759-03-0-1	–

[1] You can find more bogie designs for specific profiles on the relevant order pages in Chapter 1.0 from page 9.

[2] One PU is required for each sliding sash.

[3] The L&S tandem bogies GU-937 N22 must be used in combination with the corresponding L&S bogies GU-937 N22.

Rod

The rods between the bogies are not included in the scope of delivery and must be fabricated separately from the Ø 8 mm rod. For the respective lengths, refer to the adjacent figures.

Rod Ø 8 mm

Designation	Length [mm]	PU	Order no.	
			ferGUard	faceGUard
Rod Ø 8 mm	1100	1	9-25476-11-0-1	9-25476-11-0-18
	1350	1	9-25476-14-0-1	9-25476-14-0-18
	1850	1	9-25476-18-0-1	9-25476-18-0-18
	2800	1	9-25476-28-0-1	9-25476-28-0-18
	3300	1	9-25476-33-0-1	9-25476-33-0-18
	6000	1	9-25476-60-0-1	9-25476-60-0-18

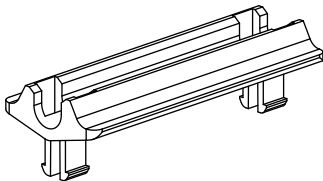
L&S bogie support, adapter VT

for L&S bogies GU-934 / GU-937 / GU-937 N22

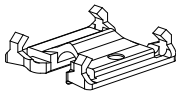


L&S bogie support

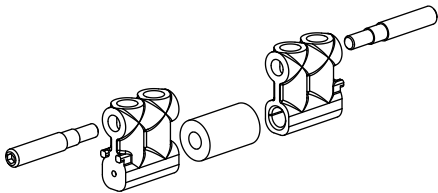
The L&S bogie supports can be used to ensure there is no load whatsoever on the rollers of the bogies when the sliding sash is lowered and its total weight is transmitted to the threshold via the roller track. Recommended for sliding sashes that are used infrequently.



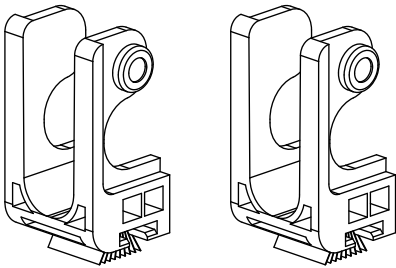
L&S bogie support GU-934 for roller track 'R 2.5'		
Designation	PU	Order no.
L&S bogie support GU-934	1	K-17455-03-0-0
Contains: 2 x bogie support R 2.5		



L&S bogie support GU-937 / GU-937 N22 for roller track 'R 2.5'		
Designation	PU	Order no.
L&S bogie support GU-937 / GU-937 N22	1	9-52084-01-0-6

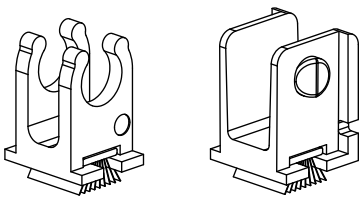


Adapter VT GU-934 for L&S bogie GU-934 with deep rod		
Designation	PU	Order no.
Adapter VT GU-934	1	K-19940-00-0-1
Contains: 2 x adapter VT, accessory		



HS CleanUnit GU-934

Designation	PU	Order no.
HS CleanUnit GU-934	1	K-19567-00-0-1
Contains: 2 x cleaning brush		

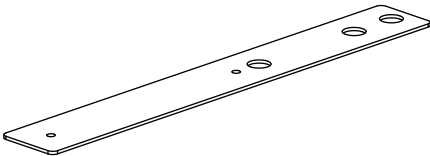


HS CleanUnit GU-937

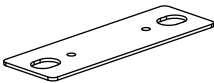
Designation	PU	Order no.
HS CleanUnit GU-937	1	K-19566-00-0-1
Contains: 2 x cleaning brush		

Horizontal packers

for L&S bogies GU-934 / GU-937



Packer for L&S bogie GU-934, front

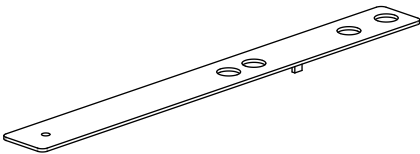


Packer for L&S bogie GU-934, rear

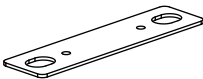
Horizontal packers

for L&S bogies GU-934

Versions/order numbers				
Designation	Thickness [mm]	PU	Order no.	
			L&S front bogie	L&S rear bogie
Horizontal packers for L&S bogies GU-934	1.0	1	9-41680-01-0-1	9-41681-01-0-1
	1.5	1	9-41680-17-0-1	9-41681-17-0-1
	2.0	1	9-41680-02-0-1	9-41681-02-0-1
	3.0	1	9-41680-20-0-1	9-41681-20-0-1
	4.0	1	9-41680-14-0-1	9-41681-14-0-1
	5.0	1	9-41680-05-0-1	9-41681-05-0-1
	6.0	1	9-41680-16-0-1	9-41681-06-0-1



Packer for L&S bogie GU-937, front

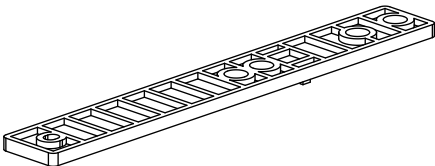


Packer for L&S bogie GU-937, rear

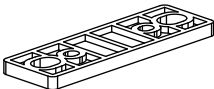
Horizontal packers

for L&S bogies GU-937

Versions/order numbers				
Designation	Thickness [mm]	PU	Order no.	
			L&S front bogie	L&S rear bogie
Horizontal packers for L&S bogies GU-937	1.0	1	9-41680-11-0-1	9-41681-11-0-1
	1.5	1	9-41680-17-0-1	9-41681-17-0-1
	4.0	1	9-41680-14-0-1	9-41681-14-0-1
	6.0	1	9-41680-16-0-1	9-41681-06-0-1
	8.6	1	9-41680-18-0-1	9-41681-18-0-1



Adapters for horizontal packer L&S front bogie

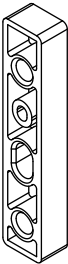


Adapters for horizontal packer L&S rear bogie

Adapters for horizontal packers

for exchanging L&S bogies GU-934 with GU-937

Versions/order numbers				
Designation	Thickness [mm]	PU	Order no.	
			L&S front bogie	L&S rear bogie
Adapters for horizontal packers	4.0	1	9-41680-14-0-1	9-41681-14-0-1
	6.0	1	9-41680-16-0-1	9-41681-06-0-1



Vertical packers

for L&S bogies GU-934 / GU-937

Versions/order numbers			
Designation	Height [mm]	PU	Order no.
			L&S front bogie
Vertical packers for L&S bogie GU-934 / GU-937	8.5	1	9-43818-02-0-1
	11.0	1	9-43818-04-0-1
	12,0	1	9-47295-23-0-1
	13.0	1	9-47295-01-0-1
	14.0	1	9-47295-02-0-1
	16.0	1	9-47295-04-0-1
	18.5	1	9-47295-06-0-1
	19.0	1	9-47295-07-0-1
	20.0	1	9-47295-08-0-1
	21.0	1	9-47295-09-0-1
	22.0	1	9-47295-10-0-1
	23.0	1	9-47295-11-0-1
	24.5	1	9-47295-12-0-1
	27.0	1	9-47295-13-0-1
	30.0	1	9-47295-16-0-1
	31.0	1	9-47295-17-0-1
	32.0	1	9-47295-18-0-1
	35.0	1	9-47295-20-0-1

Lift&Slide gears

for use with profile cylinders and round cylinders



Lift&Slide gears

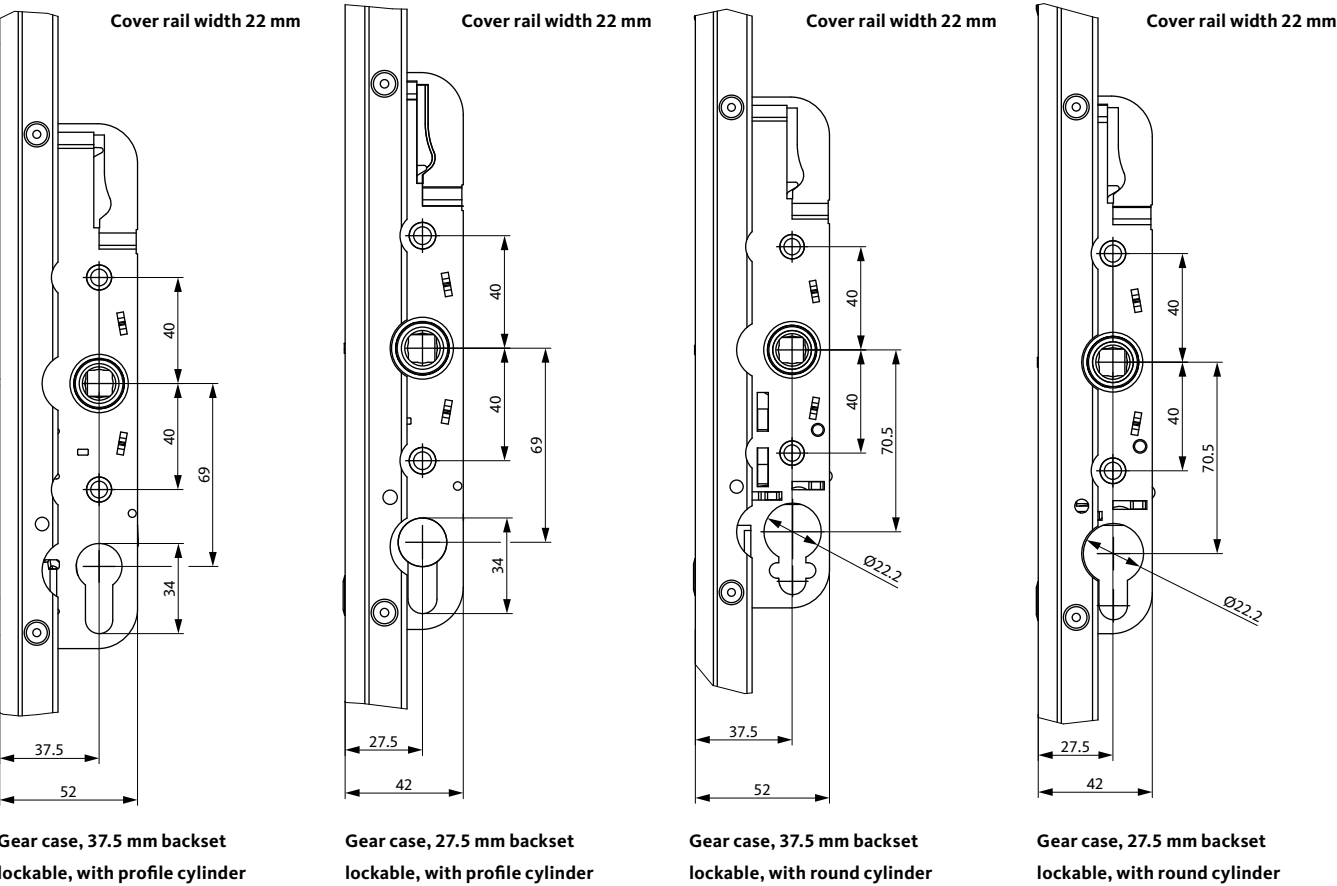
The specifications for the sash height and the handle height are general and may deviate minimally depending on the used roller track and profile system.

The system-related dimensions can be found in the profile system drawings.

Special size in the case of a non-standard handle height and gear length:

The gear size -98- specified in the following tables is a special size that is fabricated with the handle height at the customer's request. The application range depends on the basic size of the drive-gear that is used for the fabrication (sizes 19 to 44). Please request prices and delivery times in individual cases.

Installation drawing 0-44186





Lift&Slide gear – 37.5 mm backset – lockable, with profile cylinder

Designation	SH [1] [mm]	Handle height [1] [mm]	Quantity of locks	Cover rail finish		Lock case finish		PU	Order no.
				EV 1 anodised	UC 5 anodised	ferGUard	faceGUard		
Lift&Slide gear 37.5 mm backset Lockable, with profile cylinder (PC)	840 – 1260	400	1 + 1 optional	■		■		1	6-30021-11-0-1
					■	■		1	6-30021-11-0-5
	1260 – 1840	400	2	■		■		1	6-30021-19-0-1
					■	■		1	6-30021-19-0-5
	1620 – 2340	1000	2 + 1 optional	■		■		1	6-30021-44-0-1
					■	■		1	6-30021-44-0-5
				■			■	1	6-30021-44-0-18
	1840 – 2340	840	2	■		■		1	6-30021-20-0-1
					■	■		1	6-30021-20-0-5
	1840 – 2340	1000	2 + 1 optional	■		■		1	6-30021-24-0-1
					■	■		1	6-30021-24-0-5
				■			■	1	6-30021-24-0-18
	2340 – 2740	1000	2 + 1 optional	■		■		1	6-30021-28-0-1
					■	■		1	6-30021-28-0-5
				■			■	1	6-30021-28-0-18
	– 2740	min. 400	2 + 1 optional	■		■		1	6-30021-98-0-1

[1] Dimension specifications for use of the 4 mm roller track. When using the 10 and/or 15 mm roller tracks, the dimension specifications increase by 5 or 10 mm respectively.

Lift&Slide gear – 27.5 mm backset – lockable, with profile cylinder

Designation	SH [1] [mm]	Handle height [1] [mm]	Quantity of locks	Cover rail finish		Lock case finish		PU	Order no.
				EV 1 anodised	UC 5 anodised	ferGUard	faceGUard		
Lift&Slide gear 27.5 mm backset Lockable, with profile cylinder (PC)	840 – 1260	400	1 + 1 optional	■		■		1	6-30019-11-0-1
					■	■		1	6-30019-11-0-5
	1260 – 1840	400	2	■		■		1	6-30019-19-0-1
					■	■		1	6-30019-19-0-5
				■			■	1	6-30019-19-0-18
	1620 – 2340	1000	2 + 1 optional	■		■		1	6-30019-44-0-1
					■	■		1	6-30019-44-0-5
	1840 – 2120	700	2 + 1 optional	■		■		1	6-30019-40-0-1
	1840 – 2340	840	2	■		■		1	6-30019-20-0-1
				■		■		1	6-30019-24-0-1
	1840 – 2340	1000	2 + 1 optional		■	■		1	6-30019-24-0-5
				■			■	1	6-30019-24-0-18
				■		■		1	6-30019-28-0-1
	2340 – 2740	1000	2 + 1 optional		■	■		1	6-30019-28-0-5
				■			■	1	6-30019-28-0-18
	– 2740	min. 400	2 + 1 optional	■		■		1	6-30019-98-0-1

[1] Dimension specifications for use of the 4 mm roller track. When using the 10 and/or 15 mm roller tracks, the dimension specifications increase by 5 or 10 mm respectively.

Lift&Slide gears

for use with round cylinders – 37.5 mm and 27.5 mm backset



Lift&Slide gear – 37.5 mm backset – lockable, with round cylinder

Designation	SH [1] [mm]	Handle height [1] [mm]	Quantity of locks	Cover rail finish		Lock case finish	PU	Order no.
				EV 1 anodised	UC 5 anodised	ferGUard		
Lift&Slide gear 37.5 mm backset	840 – 1260	400	1 + 1 optional	■		■	1	6-31020-11-0-1
	1260 – 1840	400	2	■		■	1	6-31020-19-0-1
	1620 – 2340	1000	2 + 1 optional	■		■	1	6-31020-44-0-1
Lockable, with round cylinder (CH-RC)	1840 – 2340	1000	2 + 1 optional	■		■	1	6-31020-24-0-1
					■	■	1	6-31020-24-0-5
	2340 – 2740	1000	2 + 1 optional	■		■	1	6-31020-28-0-1

[1] Dimension specifications for use of the 4 mm roller track. When using the 10 and/or 15 mm roller tracks, the dimension specifications increase by 5 or 10 mm respectively.

Lift&Slide gear – 27.5 mm backset – lockable, with round cylinder

Designation	SH [1] [mm]	Handle height [1] [mm]	Quantity of locks	Cover rail finish		Lock case finish	PU	Order no.
				EV 1 anodised		ferGUard		
Lift&Slide gear 27.5 mm backset	840 – 1260	400	1 + 1 optional	■		■	1	6-31021-11-0-1
	1260 – 1840	400	2	■		■	1	6-31021-19-0-1
Lockable, with round cylinder (CH-RC)	1840 – 2340	1000	2 + 1 optional	■		■	1	6-31021-24-0-1
	2340 – 2740	1000	2 + 1 optional	■		■	1	6-31021-28-0-1

[1] Dimension specifications for use of the 4 mm roller track. When using the 10 and/or 15 mm roller tracks, the dimension specifications increase by 5 or 10 mm respectively.

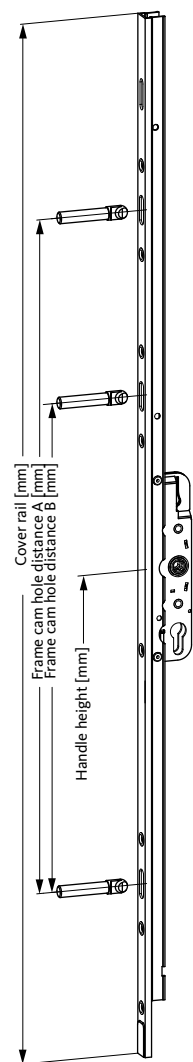
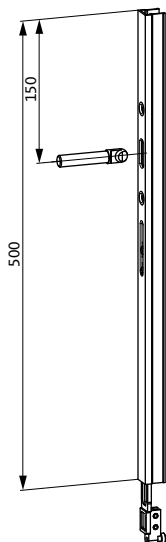


Fig.: Gear and cover-rail extensions

Gear extensions and cover-rail extensions

The gear and cover-rail extensions have a length of 500 mm and can be attached to any Lift&Slide gear. The extension is cropped to the necessary sash dimension on the Lift&Slide gear.

The gear extension features an additional locking point.

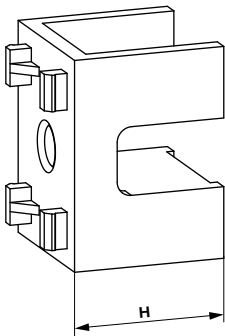
Position of the locking point: 150 mm below the top edge of the cover rail. See depiction "Gear extensions and cover-rail extensions".

If necessary, the gear extensions can be coupled. Sash heights greater than 3250 mm require a technical test and special approval from Gretsch-Unitas.

Versions/order numbers								
Designation	Application range [kg]	Quantity of locks	Finish				PU	Order no.
			Cover rail		Connecting rod			
			EV 1	UC 5	ferGUard	faceGUard		
GU-934 / GU-937 gear extension	max. 400	1	■	–	■	–	1	6-32030-00-0-1
			–	■	■	–	1	6-32030-00-0-5
			■	–	–	■	1	6-32030-00-0-18
GU-934 / GU-937 cover-rail extension	max. 400	–	■	–	–	–	1	9-28483-05-0-1
			–	■	–	–	1	9-28483-05-0-5

Spacers

for Lift&Slide gears

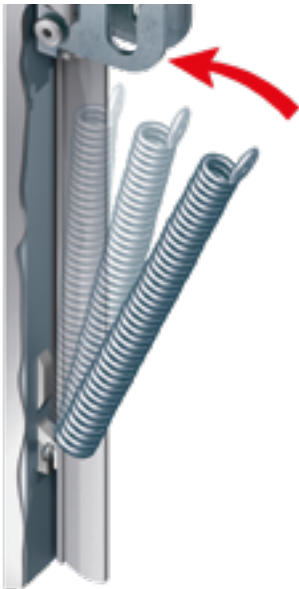


Dimension H = Height in mm

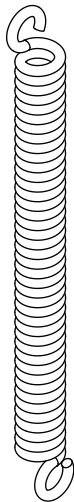
Spacer

for Lift&Slide gears, backset 37.5 and 27.5 mm

Versions/order numbers			
Designation	Height [mm]	PU	Order no.
Spacer for Lift&Slide gears, 37.5 and 27.5 mm backset	8.0	1	9-47296-02-0-1
	11.0	1	9-47296-24-0-1
	12.0	1	9-47296-25-0-1
	13.0	1	9-47296-04-0-1
	14.0	1	9-47296-05-0-1
	16.0	1	9-47296-06-0-1
	18.0	1	9-47296-07-0-1
	19.0	1	9-47296-08-0-1
	20.0	1	9-47296-09-0-1
	21.0	1	9-47296-10-0-1
	22.0	1	9-47296-11-0-1
	23.0	1	9-47296-12-0-1
	24.5	1	9-47296-13-0-1
	25.0	1	9-47296-14-0-1
	27.0	1	9-47296-16-0-1
	29.0	1	9-47296-17-0-1
	30.0	1	9-47296-18-0-1
	31.0	1	9-47296-19-0-1
	32.0	1	9-47296-20-0-1
	35.0	1	9-47296-22-0-1



Installation drawing 0-46862



Tension spring for Lift&Slide gears

To reduce the operating force of sashes weighing over 200 kg.

Thanks to the use of tension springs in Lift&Slide gears, the operational force at the turn handle is significantly reduced for the user, greatly increasing operating convenience. This makes the Lift&Slide door easy to operate, especially with high sash weights up to 400 kg.

The tension spring can be retrofitted quickly and easily in every standard Lift&Slide gear.

Versions/order numbers			
Designation	SW [kg]	PU	Order no.
Tension spring	from 200	1	9-40235-05-0-0



Installation drawing 0-46862



L&S handle damper for Lift&Slide gears

For even safer operation of sashes weighing more than 100 kg.

The L&S handle damper in Lift&Slide gears ensures controlled lowering of the sliding sash and prevents the turn handle from recoiling.

The L&S handle damper can also be retrofitted quickly and easily in every standard gear.

Versions/order numbers			
Designation	SW [kg]	PU	Order no.
L&S handle damper	from 100	1	K-19053-00-0-6
Contains: 1 x handle damper, accessory			

Frame cams



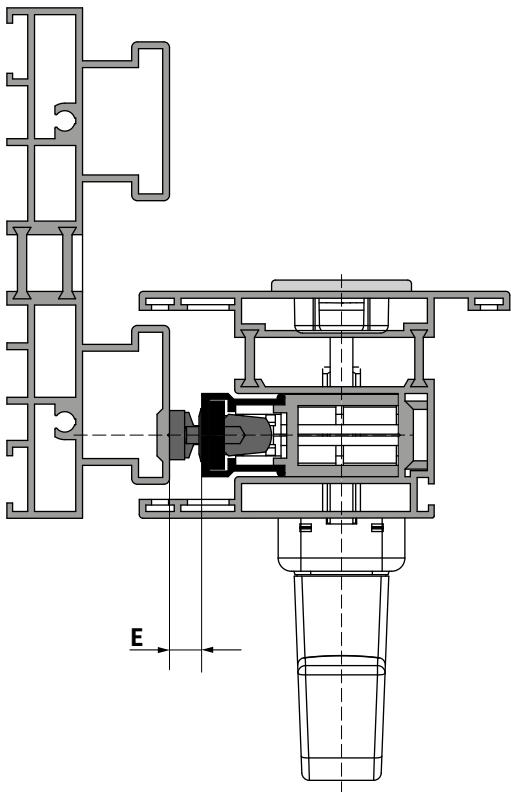
Frame cam

Profile-specific versions							
Profile system	L&S bogie	Patterns	Dim. E [mm]	Finish	PU	Order no.	
						Standard	Lift&Slide night vent module
Akotherm AT 750 HS	GU-934	depending on profile system	5.5	stainless steel	1	6-22648-01-0-8	–
Alcoa Europe	GU-934	depending on profile system	6.5	stainless steel	1	6-22648-02-0-8	9-43830-04-0-8
Aliplast Ultraglide	GU-934	A / D / F	8.5	stainless steel	1	6-22648-03-0-8	9-43830-03-0-8
		C / F	17.0	stainless steel	1	6-22623-03-0-8	–
Alsistem	GU-934	depending on profile system	8.5	stainless steel	1	6-22648-03-0-8	9-43830-03-0-8
AluK SC140	GU-934	depending on profile system	13.4	stainless steel	1	6-35190-00-0-8	–
Alumil M300	GU-934	depending on profile system	5.5	stainless steel	1	6-22648-01-0-8	–
Aluprof MB-77HS	GU-934	depending on profile system	8.5	stainless steel	1	6-22648-03-0-8	9-43830-03-0-8
Aluprof MB-77HS	GU-937	depending on profile system	8.5	stainless steel	1	6-22648-03-0-8	9-43830-03-0-8
Etem E3000	GU-934	depending on profile system	8.5	stainless steel	1	6-22648-03-0-8	9-43830-03-0-8
Etem E50	GU-937	A / D / F	13.4	stainless steel	1	9-38825-00-0-8	–
		C / F	5.5	stainless steel	1	6-22648-01-0-8	–
Etem E52	GU-937	A / D / F	8.3	stainless steel	1	9-47530-02-0-8	–
		C / F	8.5	stainless steel	1	6-22648-03-0-8	9-43830-03-0-8
Etem E70	GU-934	depending on profile system	6.5	stainless steel	1	6-22648-02-0-8	9-43830-04-0-8
Etem E70	GU-937	depending on profile system	6.5	stainless steel	1	6-22648-02-0-8	9-43830-04-0-8
Exalco Albio 230	GU-934	depending on profile system	5.5	stainless steel	1	6-22648-01-0-8	–
Feal T 120	GU-934	A	15.2	stainless steel	1	9-47530-01-0-8	–
		C	6.5	stainless steel	1	6-22648-02-0-8	9-43830-04-0-8
Gastaldello Sistemi	GU-934	depending on profile system	13.4	stainless steel	1	9-38825-00-0-8	–
Gutmann SC 180	GU-934	depending on profile system	9.5	stainless steel	1	6-22648-04-0-8	–
Gutmann SC 180	GU-937	depending on profile system	9.5	stainless steel	1	6-22648-04-0-8	–
Metra NC 150 STH Rodos (45°)	GU-934	A	13.0	stainless steel	1	9-44211-00-0-8	–
		C	21.5	stainless steel	1	6-22623-05-0-8	–
Metra NC 150 STH Rodos (45°)	GU-937	A	13.0	stainless steel	1	9-44211-00-0-8	–
		C	21.5	stainless steel	1	6-22623-05-0-8	–
Metra NC 150 STH Rodos (90°)	GU-934	A / D	17.5	ferGUard	1	6-23793-00-L-1	–
		C	21.5	stainless steel	1	6-22623-05-0-8	–
Metra NC 150 STH Rodos (90°)	GU-937	A / D	17.5	ferGUard	1	6-23793-00-L-1	–
		C	21.5	stainless steel	1	6-22623-05-0-8	–
Ponzio SL1600	GU-934	depending on profile system	13.4	stainless steel	1	9-38825-00-0-8	–
Profilati	GU-934	A / D / F	11.8	ferGUard	1	9-26072-55-0-1	–
		C / F	11.0	stainless steel	1	6-22648-05-0-8	–
Reynaers CP 130-LS	GU-934	depending on profile system	6.5	stainless steel	1	6-22648-02-0-8	9-43830-04-0-8
Reynaers CP 155	GU-934	A / D	19.5	stainless steel	1	6-22623-04-0-8	–
		C	8.5	stainless steel	1	6-22648-03-0-8	9-43830-03-0-8
Reynaers TSL 110	GU-934	A	6.5	stainless steel	1	6-22648-02-0-8	9-43830-04-0-8
		C	16.0	stainless steel	1	6-23309-00-0-8	–
Sapa Ekonol 125	GU-934	depending on profile system	8.5	stainless steel	1	6-22648-03-0-8	9-43830-03-0-8
TS Aluminium	GU-937	depending on profile system	5.5	stainless steel	1	6-22648-01-0-8	–
Wicona Wicslide 160	GU-934	depending on profile system	5.5	stainless steel	1	6-22648-01-0-8	–

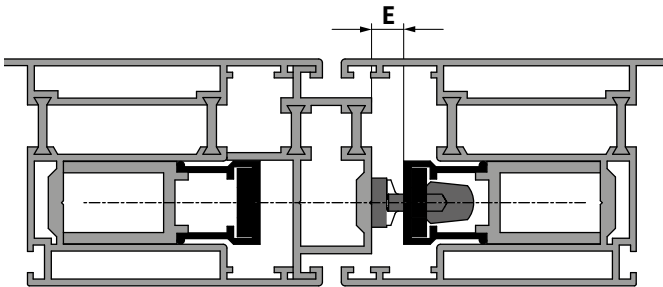


Packers for frame cams

Versions/order numbers			
Height [mm]	Finish	PU	Order no.
0.5	stainless steel	10	K-18309-01-0-8
1.0	stainless steel	10	K-18309-02-0-8

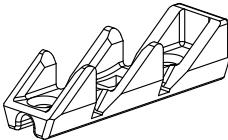


Locking into the frame, example shows pattern A



Sash locking at the meeting stile with pattern C and F

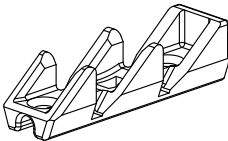
Bottom keepers



L&S bottom keeper

- With 2 bolt positions

Versions/order numbers			
Designation	Finish	PU	Order no.
L&S bottom keeper	stainless steel	1	K-12057-00-0-1
Contains: 1 x bottom keeper, fixing screws			

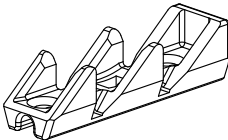


(milled off at the bottom)

Bottom keeper

- Profile systems Aluprof MB-77HS / Alumil M300
- With 2 bolt positions

Versions/order numbers			
Designation	Finish	PU	Order no.
Bottom keeper set	ferGUard	1	K-17864-00-0-1
Contains: 1 x bottom keeper, fixing screws			

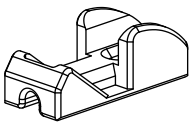


(for roller track with trapezoidal cross-section)

Bottom keeper

- Profile system Metra NC 150 STH Rodos
- With 2 bolt positions

Versions/order numbers			
Designation	Finish	PU	Order no.
Bottom keeper set	ferGUard	1	K-14568-00-0-1
Contains: 1 x bottom keeper, 1 x anti-jemmy device			

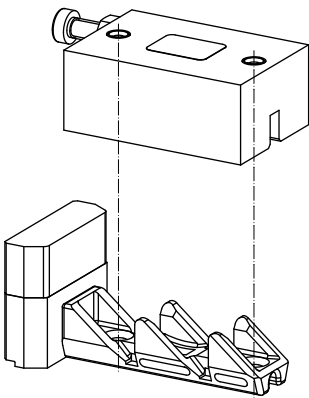


Bottom keeper

- With 1 bolt position

Versions/order numbers

Designation	Material	PU	Order no.
Bottom keeper	stainless steel	1	9-47330-00-0-8
Note: can be optionally used to hold the passive sash in the closed position with pattern C			



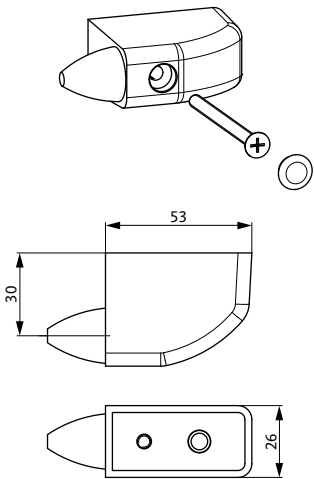
Drilling jig for the installation of the bottom keepers

Non-handed

Versions/order numbers

Designation	Application	PU	Order no.
Drilling jig for the installation of the bottom keepers	Hardware installation	1	6-34129-00-0-0

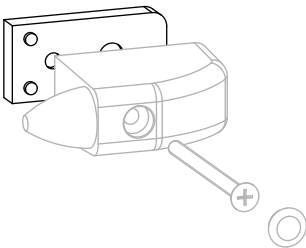
Buffers, rubber buffers



Buffer S

The buffer S is recommended for safe braking of the sliding sash in the opening direction and when using turn handles on both sides. It is positioned so that the sliding sash with the exterior handle cannot bump into the fixed-glazed sash. This prevents damage to the handle and the element. The buffer S brakes the sash in a particularly gentle way.

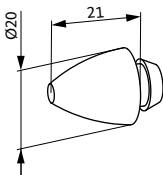
Versions/order numbers			
Designation	Finish	PU	Order no.
Buffer S	black	1	K-19035-00-0-6
	white	1	K-19035-00-0-7
	cream white	1	K-19035-00-0-7Z
Contains: 1 x buffer, 1 x cover cap, fixing screws			



Packers

for buffer S

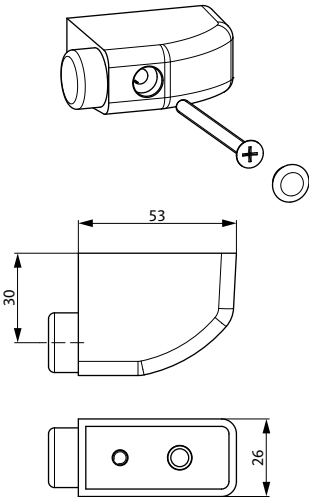
Versions/order numbers				
Designation	Height [mm]	Finish	PU	Order no.
Packers for buffer S	8.0	black	1	9-30294-01-0-6
		white	1	9-30294-01-0-7
		cream white	1	9-30294-01-0-7Z
	4.0	black	1	9-30294-02-0-6
		white	1	9-30294-02-0-7
		cream white	1	9-30294-02-0-7Z



Rubber buffer

for reliable stopping at the frame
to prevent damage to the element and the frame

Versions/order numbers			
Designation	Finish	PU	Order no.
Rubber buffer	light grey	1	9-48849-00-0-1
	black	1	9-48849-00-0-6



L&S buffer 90

The L&S buffer 90 is recommended for safe braking of the sliding sash in the opening direction and when using turn handles on both sides. It is positioned so that the sliding sash with the exterior handle cannot bump into the fixed-glazed sash. This prevents damage to the handle and the element.

Versions/order numbers

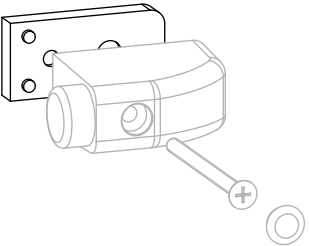
Designation	Finish	PU	Order no.
L&S buffer 90	black	1	K-12024-00-0-6
	white	1	K-12024-00-0-7
	cream white	1	K-12024-00-0-7Z

Contains: 1 x buffer, 1 x cover cap, fixing screws

Versions/order numbers

Designation	Finish	PU	Order no.
L&S buffer 90	black	1	K-17134-00-0-6
	white	1	K-17134-00-0-7

Contains: 1 x buffer, 1 x cover cap, fixing screws



Packers

for L&S buffer 90

Versions/order numbers

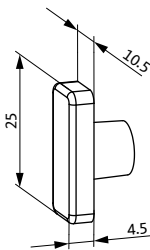
Designation	Height [mm]	Finish	PU	Order no.
Packers for L&S buffer 90	8.0	black	1	9-30294-01-0-6
		white	1	9-30294-01-0-7
		cream white	1	9-30294-01-0-7Z
	4.0	black	1	9-30294-02-0-6
		white	1	9-30294-02-0-7
		cream white	1	9-30294-02-0-7Z

Rubber buffers



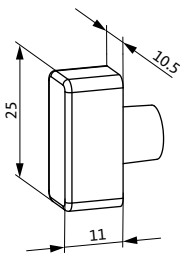
Rubber buffer

for reliable stopping at the frame
to prevent damage to the element and the frame



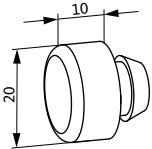
Rubber buffer 60

Versions/order numbers			
Designation	Finish	PU	Order no.
Rubber buffer 60	black	1	9-23793-00-0-0



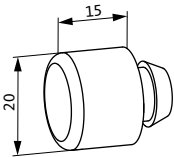
Rubber buffer 62

Versions/order numbers			
Designation	Finish	PU	Order no.
Rubber buffer 62	black	1	9-24292-00-0-0



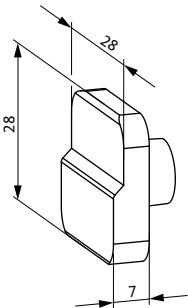
Rubber buffer 80

Versions/order numbers			
Designation	Finish	PU	Order no.
Rubber buffer 80	light grey	1	9-08488-00-0-1
	black	1	9-08488-00-0-6



Rubber buffer 80

Versions/order numbers			
Designation	Finish	PU	Order no.
Rubber buffer 80	light grey	1	9-08488-15-0-1
	black	1	9-08488-15-0-6



Rubber buffer 82

Versions/order numbers			
Designation	Finish	PU	Order no.
Rubber buffer 82	black	1	9-22820-00-0-0

L&S lowering safeguard



L&S lowering safeguard

The L&S lowering safeguard is recommended when the sliding sash of the element is very light (under 80 kg) which means that its own weight is not sufficient to lower and lock 100 % reliably and ensure sufficient contact pressure with the horizontal gaskets.

Versions/order numbers		
Designation	PU	Order no.
L&S lowering safeguard	1	K-16621-00-0-1
Contains: 1 x slider, 1 x reverser, 1 x pressure part, 1 x rod, 1 x rivet bolt		



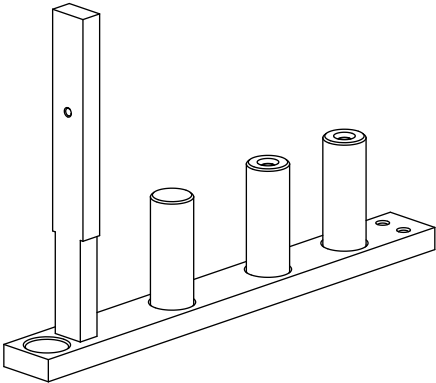


3.0 Drilling jigs and auxiliary tools

Drilling jigs and milling jigs	228
Mounting tools	231

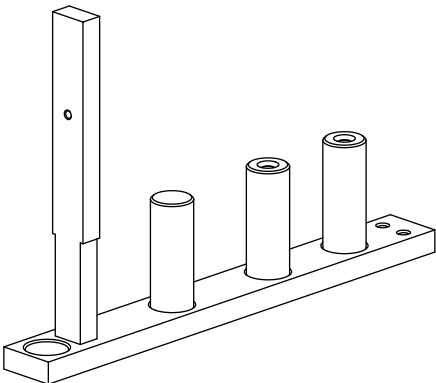
Drilling jigs

for installation of the L&S bogie GU-934 / GU-937



Drilling jig for installation of the L&S bogie GU-934

Versions/order numbers			
Designation	Application	PU	Order no.
Drilling jig for installation of the L&S bogie	GU-934	1	6-39690-01-0-0
	GU-934 Tandem	1	K-19878-01-0-0



Drilling jig for installation of the L&S bogie GU-937

Versions/order numbers			
Designation	Application	PU	Order no.
Drilling jig for installation of the L&S bogie	GU-937	1	6-39690-02-0-0
	GU-937 Tandem	1	K-19878-02-0-0

Milling jig, drilling jig

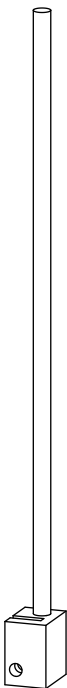
for installation of turn handles
for installation of the L&S handle damper



Drilling jig for the installation of turn handles

Non-handed
Used for aluminium profiles

Versions/order numbers			
Designation	Application	PU	Order no.
Drilling jig for the installation of turn handles Aluminium profiles with Euro-groove	Hardware installation	1	9-27272-01-0-0



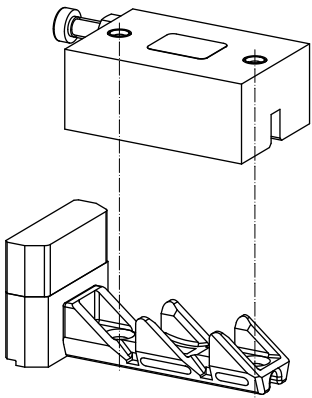
Drilling jig for L&S handle damper

Use according to installation drawing 0-46862

Versions/order numbers			
Designation	Application	PU	Order no.
Drilling jig for L&S handle damper [1]	Hardware installation	1	6-37928-01-0-1
[1] Required for retrofitting on all Lift&Slide gears installed before July 2014.			

Drilling jigs

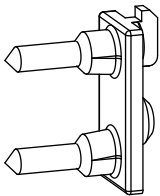
for installation of the bottom keepers



Drilling jig for the installation of the bottom keepers

Non-handed

Versions/order numbers			
Designation	Application	PU	Order no.
Drilling jig for the installation of the bottom keepers	Hardware installation	1	6-34129-00-0-0



Centre punch for the installation of the frame cams

Versions/order numbers				
Designation	For frame cams	Centre punch length [mm]	PU	Order no.
Centre punch for the installation of the frame cams	Hole spacing 25 mm	31	1	6-33500-00-0-0
		12	1	9-27315-00-0-0





4.1 Additional kit – comfort

HS LiftUnit	236
HS ePOWER motor-driven drive	243
HS Master motor-driven drive	244
Tension spring	250
L&S handle damper	251
Barrier freedom with regard to operation of the handle	252



4.2 Additional kit – burglary

Electronic security	258
Mechanical security	259



4.3 Additional kit – operation

HS SilentClose / HS StopUnit	268
HS SpeedLimiter	270



4.4 Additional kit – design

Lift&Slide turn handles in special design	274
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Uncompromising comfort

COMFORT

MAXIMISED



As inventor and leading specialist partner for Lift&Slide hardware, Gretsch-Unitas has built a formidable reputation as provider of technically optimised solutions, many of which are unique on the market. The expertise and innovative technical prowess of Gretsch-Unitas has a proven track record in effectively responding to the increasing demands in relation to user friendliness of Lift&Slide systems.

Lift&Slide elements are exceptionally easy to access and use in combination with Gretsch-Unitas hardware. They are impressive because all parts are perfectly harmonised which ensures via the interaction of all components smooth operation and unparalleled comfort for users and door/window fabricators. Barrier-free versions are of course also available.

ACCESS COMFORT

- 1 Makes light work of lifting heavy sashes
HS LiftUnit

Exclusively
available only from
Gretsch-Unitas

- 2 Elegant, comfortable and barrier-free
HS ePOWER motor-driven drive

Exclusively
available only from
Gretsch-Unitas

- 3 Added comfort which is easy to retrofit
HS Master motor-driven drive



EASY OPERATION

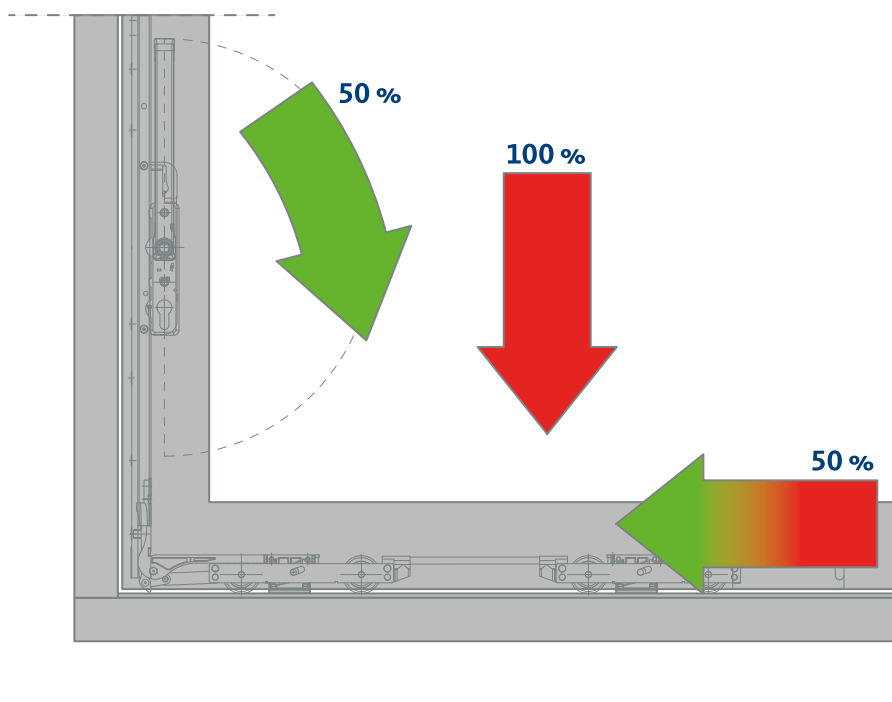
- 4 For rebound-free, controlled lowering of the sash
Handle damper
- 5 Reduces the operating force at the turn handle
Tension spring in Lift&Slide gear
- 6 Tight controlled closing, also for light window sashes
Lowering safeguard
- 7 Barrier-free in handle area
Extended RONDO handle 400 mm
- 8 Moving large elements with the greatest of ease
Lift&Slide bogies

HS LiftUnit

Important notes and range of application



Functional principle

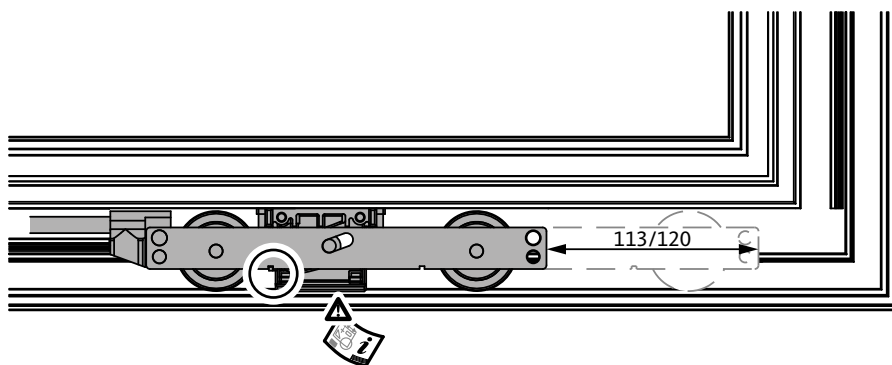


Thanks to the HS LiftUnit, operation of the Lift&Slide door is comfortable and simple, as the operating forces have been noticeably reduced

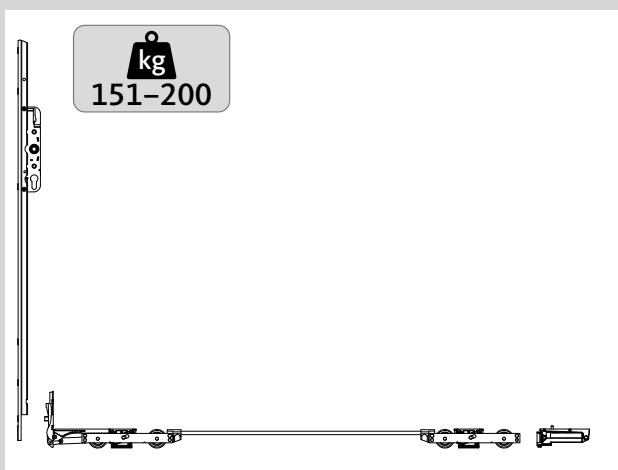
Notes

Please observe the application ranges and processing guidelines of the system provider. The following information applies for the hardware.

- The HS LiftUnit can be installed in any Lift&Slide system
 - with bogie
 - GU-934 / GU-937 / GU-937 N22
 - with hardware groove of min. 22 mm
- Suitable for all customary sash arrangement patterns
- Delivery includes installation instructions 0-48605 (GU-934) / 0-48807 (GU-937)



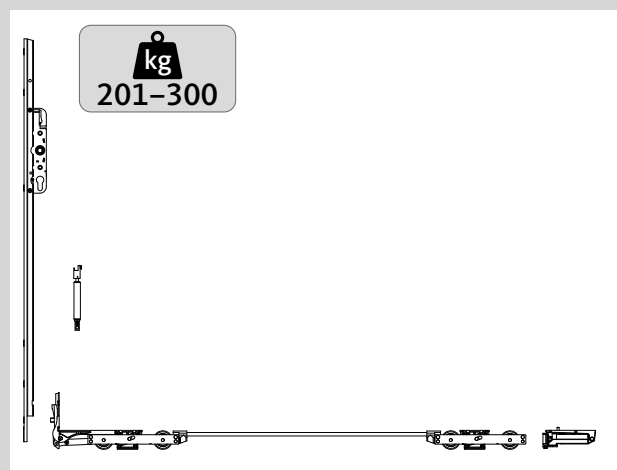
The rear bogie's position is moved towards the sash centre by 113 mm (GU-934) / 120 mm (GU-937)



kg
151–200

Hardware requirements

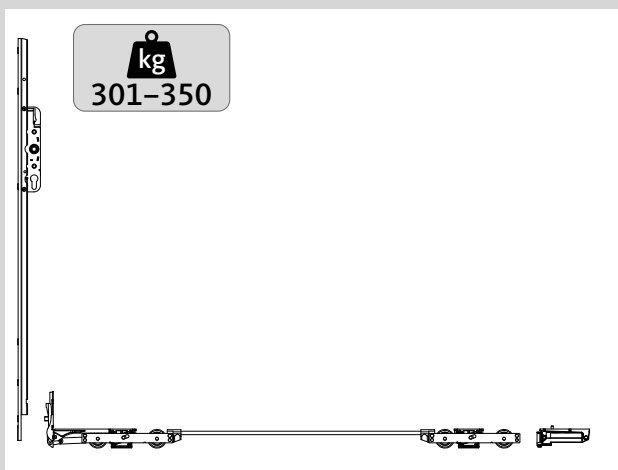
- 1 x Lift&Slide gear
- 1 x L&S bogie GU-934
- 1 x HS LiftUnit Standard



kg
201–300

Hardware requirements

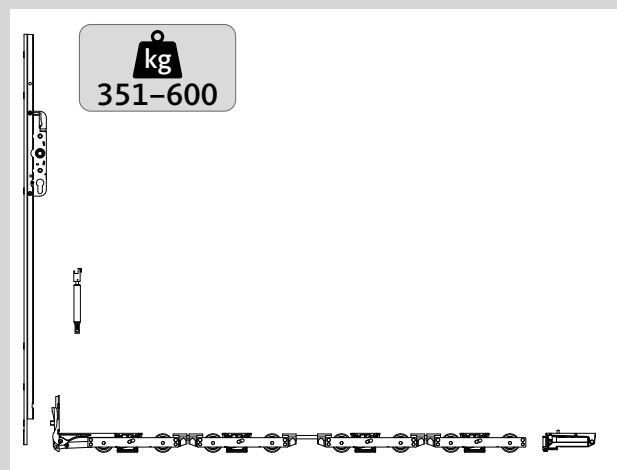
- 1 x Lift&Slide gear
- 1 x L&S handle damper
- 1 x L&S bogie GU-934
- 1 x HS LiftUnit Standard



kg
301–350

Hardware requirements

- 1 x Lift&Slide gear
- 1 x L&S bogie GU-934
- 1 x HS LiftUnit heavy



kg
351–600

Hardware requirements

- 1 x Lift&Slide gear
- 1 x L&S handle damper
- 1 x L&S bogie GU-934
- 1 x L&S tandem bogie GU-934
- 1 x HS LiftUnit heavy

The standard application range for the GU-934 bogie remains the same.
GU-934 bogie up to 350 kg / GU-934 tandem bogie up to 400 kg.

Sash weights exceeding 400 kg are only possible when using the HS LiftUnit.

Therefore please pay attention to the GU installation instructions as well as to the processing guidelines of the system provider.

HS LiftUnit GU-934

Order information



Application range 151–200 kg

Hardware requirements			
Designation	Finish	PU	Order no.
L&S bogie GU-934	ferGUard	1	K-16488-00-0-1
	faceGUard	1	K-16488-00-0-18
HS LiftUnit Standard	EV 1 / light grey	1	K-19877-01-0-1
Drilling jig for HS LiftUnit	–	1	K-20067-00-0-0
The Lift&Slide gear must be selected for the specific system. For the corresponding order information, see page 9 onwards.			

Application range 201–300 kg

Hardware requirements			
Designation	Finish	PU	Order no.
L&S bogie GU-934	ferGUard	1	K-16488-00-0-1
	faceGUard	1	K-16488-00-0-18
L&S handle damper	black	1	K-19053-00-0-6
HS LiftUnit Standard	EV 1 / light grey	1	K-19877-01-0-1
Drilling jig for HS LiftUnit	–	1	K-20067-00-0-0
The Lift&Slide gear must be selected for the specific system. For the corresponding order information, see page 9 onwards.			

Note regarding the application range: Deviations are possible depending on the profile.
Please pay attention to the GU installation instructions as well as to the processing guidelines of the system provider.



Application range 301–350 kg

Hardware requirements			
Designation	Finish	PU	Order no.
L&S bogie GU-934	ferGUard	1	K-16488-00-0-1
	faceGUard	1	K-16488-00-0-18
HS LiftUnit heavy	EV 1 / light grey	1	K-19877-00-0-1
Drilling jig for HS LiftUnit	–	1	K-20067-00-0-0

The Lift&Slide gear must be selected for the specific system. For the corresponding order information, see page 9 onwards.

Application range 351–600 kg

Hardware requirements			
Designation	Finish	PU	Order no.
L&S bogie GU-934	ferGUard	1	K-16488-00-0-1
	faceGUard	1	K-16488-00-0-18
L&S bogie GU-934 Tandem	ferGUard	1	K-17804-01-0-1
	faceGUard	1	K-17804-01-0-18
L&S handle damper	black	1	K-19053-00-0-6
HS LiftUnit heavy	EV 1 / light grey	1	K-19877-00-0-1
Drilling jig for HS LiftUnit	–	1	K-20067-00-0-0

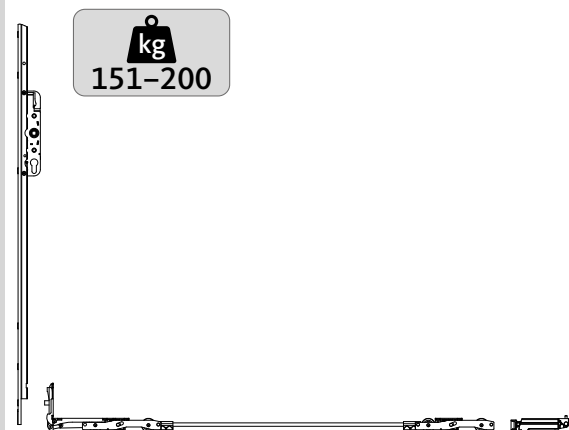
The Lift&Slide gear must be selected for the specific system. For the corresponding order information, see page 9 onwards.

Note regarding the application range: Deviations are possible depending on the profile.

Please pay attention to the GU installation instructions as well as to the processing guidelines of the system provider.

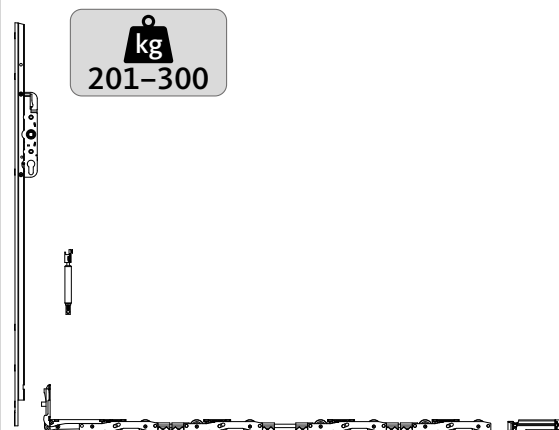
HS LiftUnit GU-937

Important notes and range of application



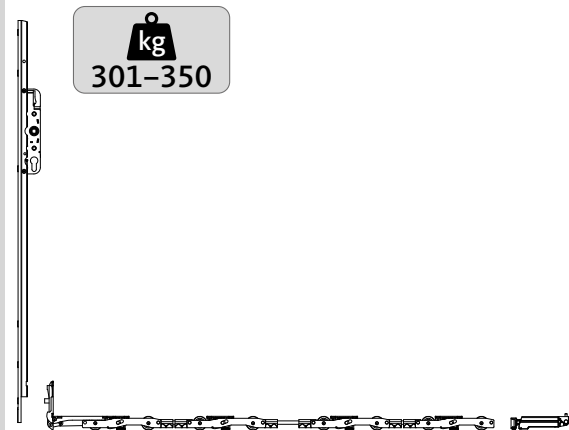
Hardware requirements

- 1 x Lift&Slide gear
- 1 x L&S bogie GU-937
- 1 x HS LiftUnit Standard



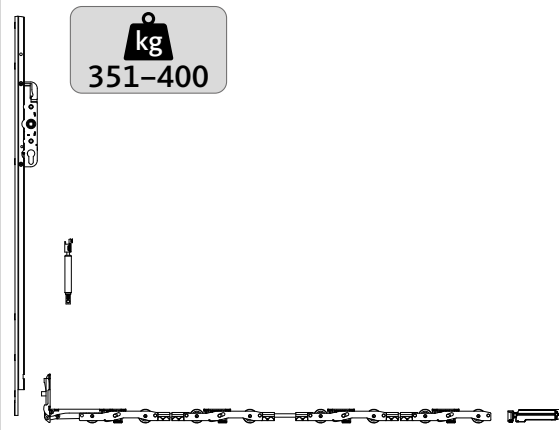
Hardware requirements

- 1 x Lift&Slide gear
- 1 x L&S handle damper
- 1 x L&S bogie GU-937
- 1 x L&S tandem bogie GU-937
- 1 x HS LiftUnit Standard



Hardware requirements

- 1 x Lift&Slide gear
- 1 x L&S bogie GU-937
- 1 x L&S tandem bogie GU-937
- 1 x HS LiftUnit heavy



Hardware requirements

- 1 x Lift&Slide gear
- 1 x L&S handle damper
- 1 x L&S bogie GU-937
- 1 x L&S tandem bogie GU-937
- 1 x HS LiftUnit heavy

The standard application range for the GU-937 bogie remains the same.
GU-937 bogie up to 200 kg / GU-937 tandem bogie up to 400 kg.

Therefore please pay attention to the GU installation instructions as well as to the processing guidelines of the system provider.



Application range 151–200 kg

Hardware requirements				
Designation	Finish	PU	Order no.	
			GU-937	GU-937 N22
L&S bogie GU-937 / GU-937 N22	ferGUard	1	K-16493-00-0-1	K-20207-01-0-1
	faceGUard	1	K-16493-00-0-18	–
HS LiftUnit Standard GU-937	EV 1 / light grey	1	K-20186-01-0-1	K-20186-01-0-1
Drilling jig for HS LiftUnit	–	1	K-20236-00-0-0	K-20901-00-0-0

The Lift&Slide gear must be selected for the specific system. For the corresponding order information, see page 9 onwards.

Application range 201–300 kg

Hardware requirements				
Designation	Finish	PU	Order no.	
			GU-937	GU-937 N22
L&S bogie GU-937 / GU-937 N22	ferGUard	1	K-16493-00-0-1	K-20207-01-0-1
	faceGUard	1	K-16493-00-0-18	–
L&S tandem bogie GU-937	ferGUard	1	K-17759-01-0-1	K-17759-03-0-1
	faceGUard	1	K-17759-01-0-18	–
L&S handle damper	black	1	K-19053-00-0-6	K-19053-00-0-6
HS LiftUnit Standard GU-937	EV 1 / light grey	1	K-20186-01-0-1	K-20186-01-0-1
Drilling jig for HS LiftUnit	–	1	K-20236-00-0-0	K-20901-00-0-0

The Lift&Slide gear must be selected for the specific system. For the corresponding order information, see page 9 onwards.

Note regarding the application range: Deviations are possible depending on the profile.

Please pay attention to the GU installation instructions as well as to the processing guidelines of the system provider.

HS LiftUnit GU-937

Order information



Application range 301–350 kg

Hardware requirements				
Designation	Finish	PU	Order no.	
			GU-937	GU-937 N22
L&S bogie GU-937 / GU-937 N22	ferGUard	1	K-16493-00-0-1	K-20207-01-0-1
	faceGUard	1	K-16493-00-0-18	–
L&S tandem bogie GU-937	ferGUard	1	K-17759-01-0-1	K-17759-03-0-1
	faceGUard	1	K-17759-01-0-18	–
HS LiftUnit Heavy GU-937	EV 1 / light grey	1	K-20186-00-0-1	K-20186-00-0-1
Drilling jig for HS LiftUnit	–	1	K-20236-00-0-0	K-20901-00-0-0
The Lift&Slide gear must be selected for the specific system. For the corresponding order information, see page 9 onwards.				

Application range 351–400 kg

Hardware requirements				
Designation	Finish	PU	Order no.	
			GU-937	GU-937 N22
L&S bogie GU-937 / GU-937 N22	ferGUard	1	K-16493-00-0-1	K-20207-01-0-1
	faceGUard	1	K-16493-00-0-18	–
L&S tandem bogie GU-937	ferGUard	1	K-17759-01-0-1	K-17759-03-0-1
	faceGUard	1	K-17759-01-0-18	–
L&S handle damper	black	1	K-19053-00-0-6	K-19053-00-0-6
HS LiftUnit Heavy GU-937	EV 1 / light grey	1	K-20186-00-0-1	K-20186-00-0-1
Drilling jig for HS LiftUnit	–	1	K-20236-00-0-0	K-20901-00-0-0
The Lift&Slide gear must be selected for the specific system. For the corresponding order information, see page 9 onwards.				

Note regarding the application range: Deviations are possible depending on the profile.
Please pay attention to the GU installation instructions as well as to the processing guidelines of the system provider.



Order notes:

- The HS ePOWER can be installed in any Lift&Slide system
 - with L&S bogie GU-934
 - with sash thicknesses from 78 mm
 - with roller track 4 mm / 5 mm
 - with sash weights up to 400 kg
 - Pattern A with sliding sashes on the inside
- Pre-assembled, plug-in modules allow the assembly to be carried out quickly, easily and safely according to the plug-and-play principle and the door can be commissioned immediately
- Permanent power supply in any position of the Lift&Slide door – whether closed, moving or in open position
- Control by means of operating element on Lift&Slide sash
- Optional extensions:
 - Locking monitoring set
 - Radio remote control
 - Status request can be triggered via Smartphone or Somfy

Technical documentation

Documentation	
Designation	Document no.
Installation drawing (timber)	0-48567
Installation instructions HS ePOWER (timber)	0-49119*
Commissioning instructions HS ePOWER	0-49117*
Brief commissioning instructions HS ePOWER	0-48062*
Operating instructions HS ePOWER	0-49118*
Maintenance specifications HS ePOWER	0-49116
Designation	Order no.
Instructions for handheld radio transmitter	B-55281-02-0-9*
Instructions for radio transmitter	B-55281-05-1-9*
Instructions for radio receiver	B-55280-03-0-6*

*contained in the scope of delivery

Delivery on request

Profile-specific installation is only possible following a technical check and approval by GU and the system provider. Please ask your field consultant for more information.

HS Master motor-driven drive

Important notes and range of application



Important notes

- The HS Master can be installed on every Lift&Slide system shown in Chapter 1.0 (pattern A)
- The standard Lift&Slide gear is replaced with the HS Master Lift&Slide gear
- With HS Master, the backset is always 37.5 mm. The sash profile must be dimensioned accordingly
- Due to the crush guard, the passage opening is reduced by 150 mm. The Lift&Slide door stops 150 mm before the door frame at the fixed-glazed sash; if necessary, the door can be opened fully manually
- The drive case at the rear is 17 mm shorter than the cover profile that is visible from the front and below
- The scope of delivery includes the installation and maintenance manual 0-46554
- The scope of delivery includes the operating manual 0-46555, which must be passed on to the end customer
- The valid installation drawing 0-44355 must be followed
- We shall be glad to advise you in the event of any deviations from the general conditions described here. Please feel free to contact your field consultant

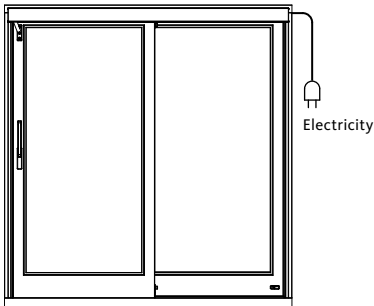
General application ranges

(Deviations possible depending on the profile)

Pattern A	
Min. length of drive [mm]	2050
Max. length of drive [mm]	6700
Sash width [mm]	950 – 3300
Sash height [mm]*	1855 – 2765 [1]
Max. sash weight [kg]	400

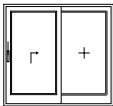
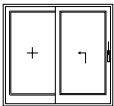
* The sash height depends on which top guide track is used and the height of the roller track.
For the dimensions of the various Lift&Slide systems, refer to the corresponding installation drawings.

[1] Sash heights from 2765 mm to 3265 mm can be implemented on request with the cover-rail extension set and require approval of the system provider.



Interior view – pattern A
(illustration shows version with handle on left; right laterally reversed)

Ordering specifications

Drive details			
Length of drive case	[mm]		
Finish of drive case	☐ EV 1 / light grey	☐ UC 5 / dark bronze	☐ white
Element details			
Dimension X (min. 90 mm) see page 246	[mm]		
Width of reveal	[mm]		
Sash thickness	[mm]		
Total frame width	[mm]		
Sash width	[mm]		
Sash height	[mm]		
Sash distance	[mm]		
Handle position, interior view	☐ on left 	☐ on right 	
Remote control	☐ yes	☐ no	
Number of handheld radio transmitters	[pc.]		
Profile details			
Manufacturer			
Profile series			

HS Master motor-driven drive

Important dimension specifications



The following dimension specifications must be observed and complied with without fail

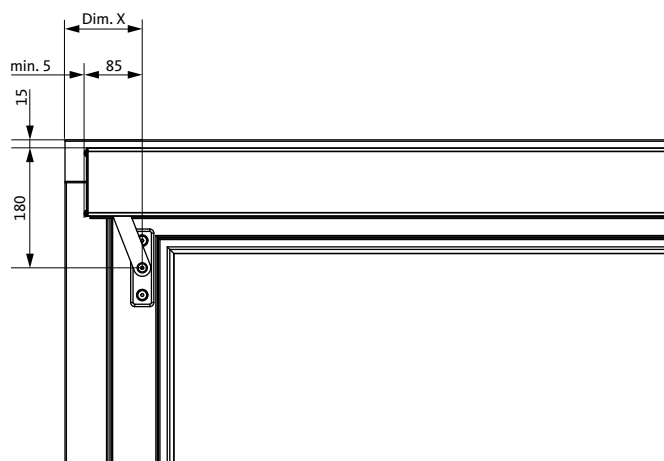
The space requirement for the linkage is 85 mm measured from the pivot of the gear to the outer edge of the drive case.

The minimum distance from the drive case to the edge of the plaster is 5 mm.

These two dimensions produce dimension X, which is necessary for the order.

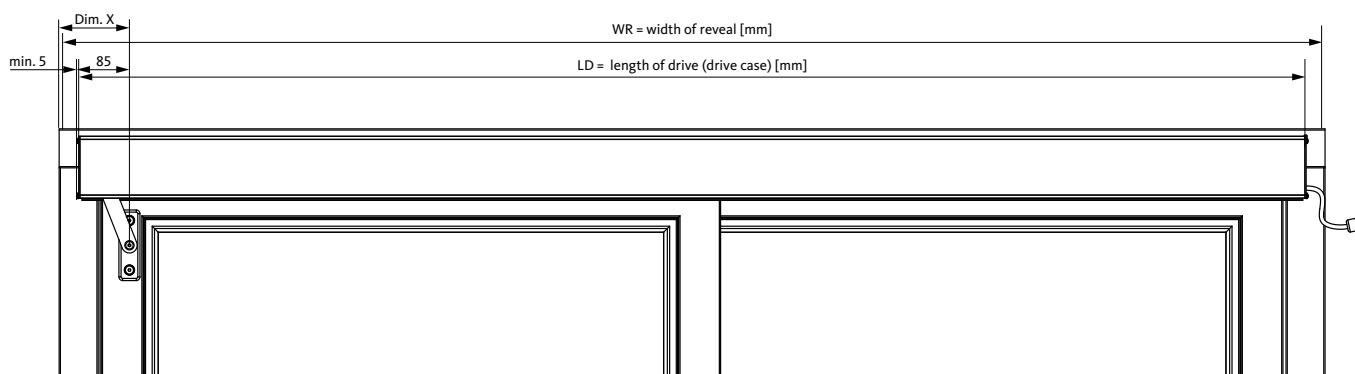
In order to guarantee error-free installation and function, these dimensions must be observed without fail: lower values are not acceptable.

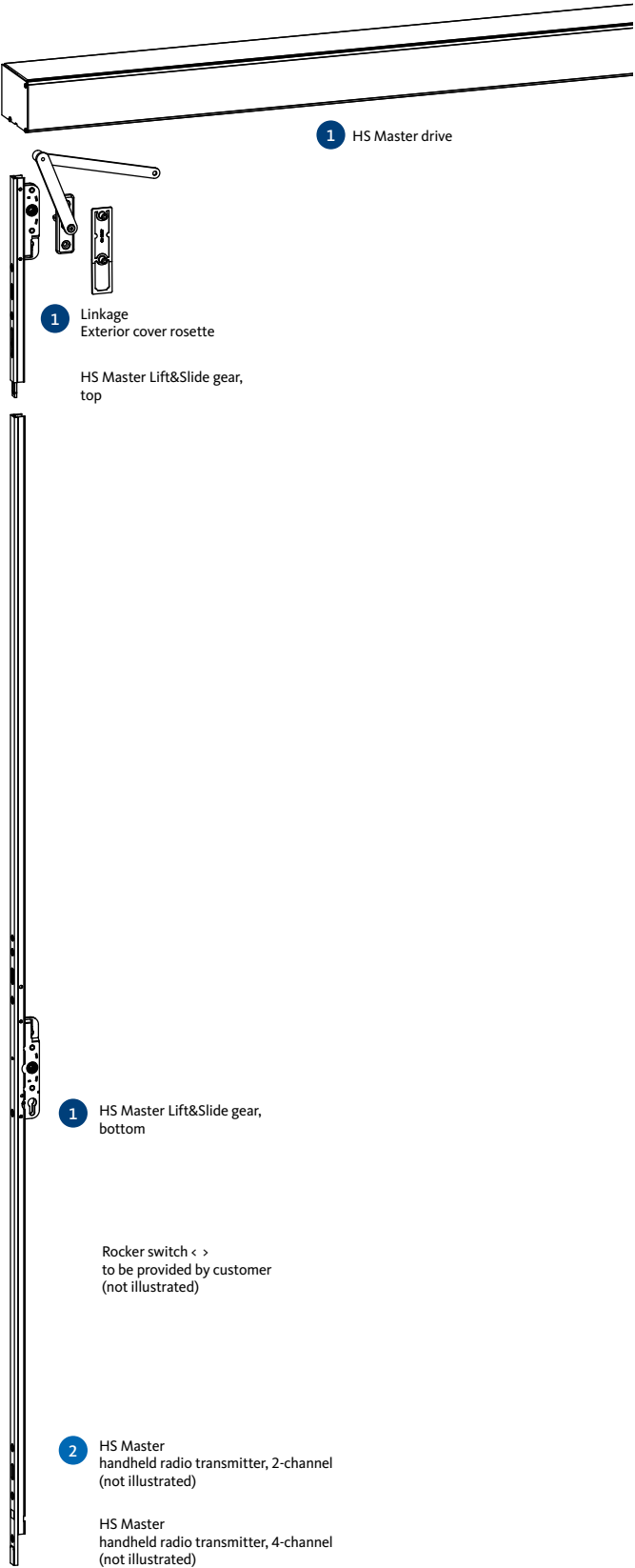
Installation drawing 0-44355



The drive case at the rear is 17 mm shorter than the cover profile that is visible from the front and below. If dimension X increases because the frame has been widened, the difference between the cover casing and the cover profile will also be greater than 17 mm.

A minimum distance of 5 mm must be measured on both sides between the drive case on the top door frame of the Lift&Slide element and the edge of the plaster of the neighbouring masonry. The dimension between the plaster edges at the sides is specified in the ordering specifications as the width of reveal.





Order overview

	Description
1	Required components
2	Accessories for new systems and for retrofitting

1 HS Master Lift&Slide gear, bottom

Rocker switch < >
to be provided by customer
(not illustrated)

2 HS Master handheld radio transmitter, 2-channel
(not illustrated)

HS Master handheld radio transmitter, 4-channel
(not illustrated)

HS Master motor-driven drive

Order information, pattern A



Step 1: Order your standard hardware set

- **Exception:** The standard Lift&Slide gear is replaced with the HS Master Lift&Slide gear

Standard hardware sets		
Pattern A	Standard hardware sets	Order information from page
1	Lift&Slide hardware GU-934 (without Lift&Slide gear)	see particular profile system
1	Lift&Slide hardware GU-934 Tandem (without Lift&Slide gear)	see particular profile system

Step 2: In addition to the standard hardware set, order the following components:

1 General hardware requirements for pattern A

HS Master drive – standard version [1]						
Pattern A	Designation	Description	Finish	PU	Order no.	
					on left	on right
1	HS Master drive	Standard version for – Operation via turn handle / Push & Go function – Operation via rocker switch (provided by customer)	EV 1 / light grey	1	6-32205-98-L-1	6-32205-98-R-1
			UC 5 / dark bronze	1	6-32205-98-L-5	6-32205-98-R-5
			white	1	6-32205-98-L-7	6-32205-98-R-7
Alternative: HS Master drive – radio-controlled version [2]						
1	HS Master drive	as standard version, and also prepared for operation via handheld radio transmitter	EV 1 / light grey	1	6-32654-98-L-1	6-32654-98-R-1
			UC 5 / dark bronze	1	6-32654-98-L-5	6-32654-98-R-5
			white	1	6-32654-98-L-7	6-32654-98-R-7

[1] Manufacture according to ordering specifications – see page 245.

[2] The radio receiver is installed. 1 handheld radio transmitter is included in the scope of delivery; other handheld radio transmitters may be ordered separately as accessories.

HS Master linkage				
Pattern A	Designation	Finish	PU	Order no.
1	HS Master linkage	EV 1 / light grey	1	K-16750-00-0-1
		UC 5 / dark bronze	1	K-16750-00-0-5
		white	1	K-16750-00-0-7

Contains: 1 x linkage, 1 x outside cover rosette, fixing material

HS Master Lift&Slide gear [1]				
Pattern A	Designation	Finish	PU	Order no.
1	HS Master Lift&Slide gear	EV 1 / light grey	1	K-16748-00-0-1

Contains: 2 x Lift&Slide gear, 1 x connecting rod, 1 x drilling template
[1] Sash heights from 2765 mm to 3265 mm can be implemented on request with the cover-rail extension set.

HS Master cover-rail extension				
Pattern A	Designation	Finish	PU	Order no.
1	HS Master cover-rail extension	EV 1 / light grey	1	K-18896-00-0-1

Contains: 1 x cover rail, 1 x connecting rod



2 Accessories for new systems and for retrofitting

HS Master handheld radio transmitter

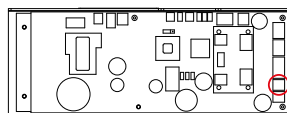
Pattern A	Designation	Description	Finish	PU	Order no.
1	HS Master handheld radio transmitter	2-channel with GU-specific coding, for HS Master drives in radio-controlled version, spare button battery CR 2016, 2 x	grey-blue	1	6-32264-01-0-0
			grey-anthracite	1	6-32264-03-0-0
Alternative: HS Master handheld radio transmitter, 4-channel					
1	HS Master handheld radio transmitter	4-channel	grey-yellow	1	6-33788-00-0-0

HS Master radio receiver card

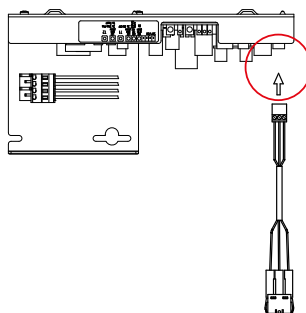
Pattern A	Designation	Finish	PU	Order no.
1	HS Master radio receiver card	–	1	6-32627-00-0-0

HS Master commissioning set / operating sticker

Pattern A	Designation	Finish	PU	Order no.
1	HS Master commissioning set	–	1	6-36125-00-0-0
1	Operating sticker	–	1	9-47818-01-0-0

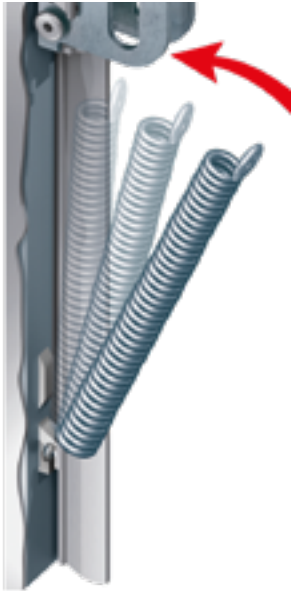


HS Master commissioning set
Plug-in position on inside: slots 4 5 6

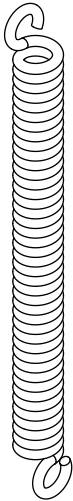


Tension spring

for Lift&Slide gears



Installation drawing 0-46862

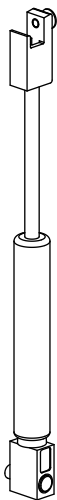


Tension spring for Lift&Slide gears

To reduce the operating force of sashes weighing over 200 kg.

Thanks to the use of tension springs in Lift&Slide gears, the operational force at the turn handle is significantly reduced for the user, greatly increasing operating convenience. This makes the Lift&Slide door easy to operate, especially with high sash weights up to 400 kg.

Versions/order numbers			
Designation	SW [kg]	PU	Order no.
Tension spring	from 200	1	9-40235-05-0-0



L&S handle damper for Lift&Slide gears

For even safer operation of sashes weighing more than 100 kg.

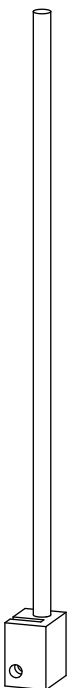
The L&S handle damper in Lift&Slide gears ensures controlled lowering of the sliding sash and prevents the turn handle from recoiling. The L&S handle damper can also be retrofitted quickly and easily in every standard gear.

Versions/order numbers			
Designation	SW [kg]	PU	Order no.
L&S handle damper	from 100	1	K-19053-00-0-6

Installation drawing 0-46862

Drilling jig for L&S handle damper

Versions/order numbers		
Designation	PU	Order no.
Drilling jig for L&S handle damper [1]	1	6-37928-01-0-1
[1] Required for retrofitting on all Lift&Slide gears installed before July 2014.		



Installation drawing 0-46862

Barrier freedom with regard to operation of the handle

Extended handle – RONDO series – interior turn handle with PC hole

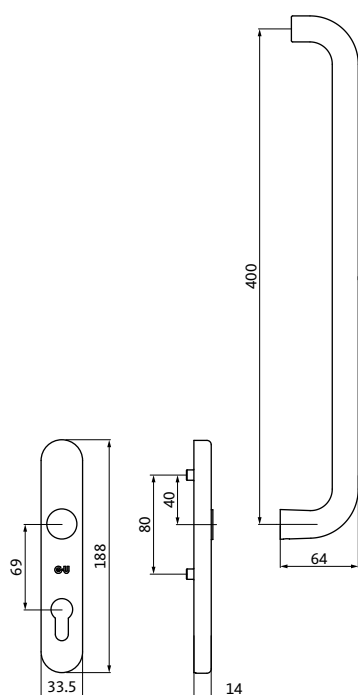


Product information

- High-quality stainless steel handle with PC hole
- Handle length 400 mm
- Handle height 78 mm
- With 10 mm square size and 80 mm distance between screw centres
- Square spindle adjustable
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- For sash thicknesses up to 110 mm

Suitable for barrier-free construction in accordance with DIN 18040

The operating force for raising the sliding sash can be reduced by up to 50% due to the extended turn handle.



You can find ordering information on the individual handle variants in Chapter 5.0 "Turn handles and accessories" on pages 296 – 297.

Barrier freedom with regard to operation of the handle

Extended handle – RONDO series – interior turn handle without PC hole

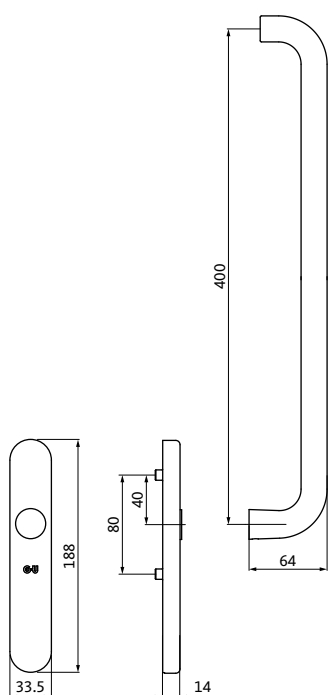


Product information

- High-quality stainless steel turn handle without PC hole
- Handle length 400 mm
- Handle height 78 mm
- With 10 mm square size and 80 mm distance between screw centres
- Square spindle adjustable
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- For sash thicknesses up to 110 mm

Suitable for barrier-free construction in accordance with DIN 18040

The operating force for raising the sliding sash can be reduced by up to 50% due to the extended turn handle.



You can find ordering information on the individual handle variants in Chapter 5.0 "Turn handles and accessories" on pages 298 – 299.

Barrier freedom with regard to operation of the handle

Lift&Slide gear with profile cylinder – handle height 840 mm and handle height variable



Note

The specifications for the range of applications (sash heights) and the handle height are general and may deviate minimally depending on the roller track height and the used profile system. The system-related dimensions can be found in the profile system drawings.

Special size -98-

The size -98- specified in the table is a special size that is fabricated with the handle height at the customer's request.

The application range depends on the basic size of the drive-gear that is used for the fabrication (sizes -19- to -44-).

Please request prices and delivery times in individual cases.

Installation drawing 0-44186

Lift&Slide gear – 37.5 mm backset – lockable, with profile cylinder

Backset [mm]	SH [mm]	Handle height [mm]	Quantity of locks	Cover rail finish		Lock case finish		PU	Order no.
				EV 1 anodised	UC 5 anodised	ferGUard			
37.5	1840 – 2340	840	2	■		■		1	6-30021-20-0-1
					■	■		1	6-30021-20-0-5
	up to 2740	min. 400	2 + 1 optional	■		■		1	6-30021-98-0-1

Lift&Slide gear – 27.5 mm backset – lockable, with profile cylinder

Backset [mm]	SH [mm]	Handle height [mm]	Quantity of locks	Cover rail finish		Lock case finish		PU	Order no.
				EV 1 anodised	UC 5 anodised	ferGUard			
27.5	1840 – 2340	840	2	■		■		1	6-30019-20-0-1
	up to 2740	min. 400	2 + 1 optional	■		■		1	6-30019-98-0-1



Tested security for maximum burglar inhibition

BURGLARY

PROTECTED



Protection against burglary is one of the greatest challenges for Lift&Slide systems. After all, insufficiently secured windows and doors make it easy for unwelcome visitors to intrude into your home. It is therefore important also to equip Lift&Slide elements with security-relevant components.

Thanks to the burglar-inhibiting design of many of its hardware components, Gretschi-Unitas gives its customers greater peace of mind, because they know they are effectively protected against manipulation attempts.

All timber and PVC systems are tested at least to DIN EN 1627-1630 RC 2, and also up to RC 3 in timber. With Gretschi-Unitas, every element can essentially be designed to satisfy the stringent requirements of resistance class RC 3. We provide assistance with planning and design.

1 Open or locked, recognisable at a glance
Electronic locking monitoring with magnetic switch, VdS-tested

2 An anti-jemmy device with a secure grip
L&S meeting-stile security profile

3 A firm handle on security
SK3-tested DIRIGENT turn-handle

4 Anti-jemmy protection of sash
Anti-jemmy device top horizontal

Exclusively
available only from
Gretschi-Unitas

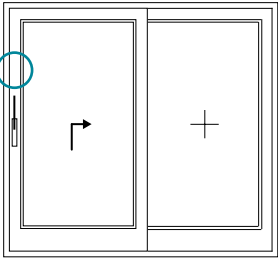


Electronic security

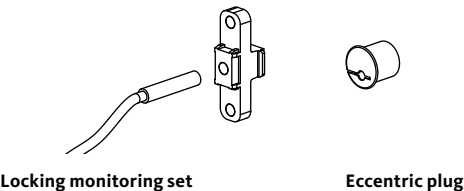
L&S locking monitoring set



Pattern A



Installation instructions 0-44449
VdS certificate no. G 105012



Locking monitoring set

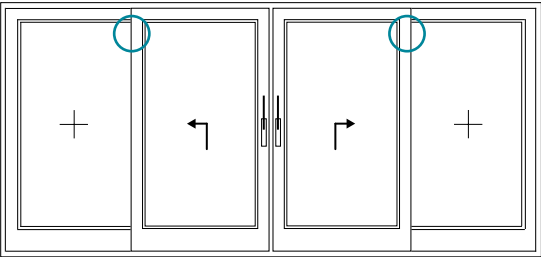
Eccentric plug

L&S locking monitoring set

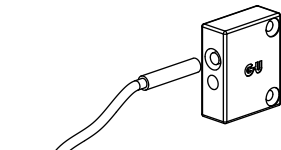
Magnetic locking monitoring
between door frame and sliding sash

Versions/order numbers			
Designation	Cable length [m]	PU	Order no.
L&S locking monitoring set	4.0	1	K-16752-00-0-0
	10.0	1	K-16752-10-0-0
Contains: 1 x magnetic cam, 1 x magnetic switch, accessories			
Designation	Finish	PU	Order no.
Eccentric plug	brown	1	6-33079-00-0-5
	white	1	6-33079-00-0-7

Pattern C



Installation instructions 0-44768



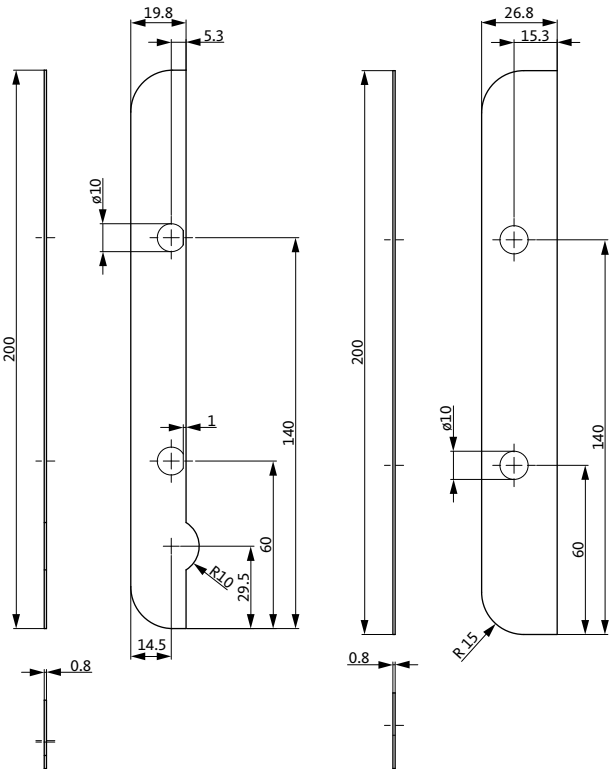
L&S locking monitoring set

Magnetic locking monitoring
between sliding sashes and fixed-glazed sashes

Versions/order numbers			
Designation	Cable length [m]	PU	Order no.
L&S locking monitoring set	4.0	1	K-17322-00-0-7
	10.0	1	K-17322-10-0-7
Contains: 2 x magnetic switch, 2 x magnet holder, accessories			



RC2



9-41309-01-0-0

9-41309-02-0-0

Anti-drill plate
for L&S geared turn handles

Accessories for RC 2 versions

Versions/order numbers			
Designation	Lift&Slide gear Backset [mm]	PU	Order no.
Anti-drill plate for gear	27.5	1	9-41309-01-0-0
	37.5	1	9-41309-02-0-0

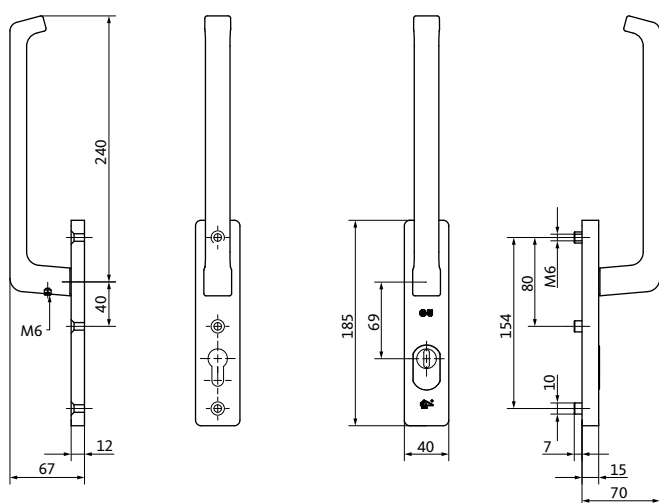
Mechanical security

L&S interior/exterior turn handle set, with PC hole – DIRIGENT – PZ ZA – SK3



Product information

- High-quality aluminium turn handle, interior and exterior, with PC hole
- Exterior handle with cylinder cover
- The security cylinder cover is suitable for a cylinder projection of 9–12 mm
- With 10 mm square size and 80/74 mm distance between screw centres
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Tested according to EN 1906 burglar protection category in the protection classes 2 and 3
- With SKG*** certificate
- Handle length 240 mm
- Handle height 74 mm
- **Note:** We recommend the use of a buffer – see pages 220 and 221





RC2

RC3



Versions/order numbers

Designation	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT L&S turn handle exterior PZ ZA, SK3	180°	aluminium	with lugs	yes	EV 1	1	H-01230-00-0-1
					white, RAL 9016	1	H-01230-00-0-7
					cream white	1	H-01230-00-0-7V
DIRIGENT L&S turn handle interior	180°	aluminium	without lugs	yes	EV 1	1	H-01231-00-0-1
					white, RAL 9016	1	H-01231-00-0-7
					cream white	1	H-01231-00-0-7V

Note: With square spindle for sash thicknesses up to 90 mm. If the sash thicknesses vary the square spindle must be ordered separately.

Note: For other sash thicknesses, the fixing screws must be ordered separately.

Square spindle

Versions/order numbers

Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	145	Included in PU for turn handle
	68		
	78		
	88		
	90		
	92	150	9-24377-15-0-1
	110	170	9-24377-18-0-1

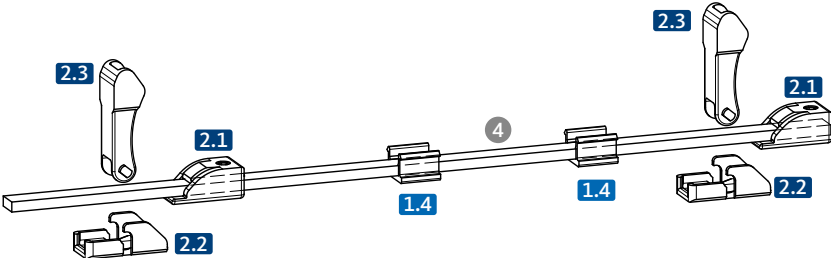
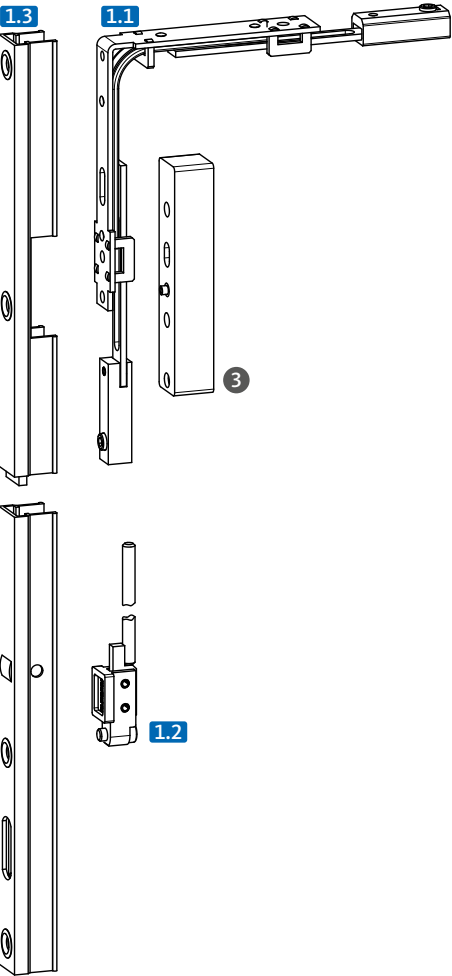
Fixing screws

Versions/order numbers

Designation	ST [mm]	Order no.
Set of fixing screws M6 (DIN 7991)	54 – 60	H-01232-01-0-1
	59 – 65	H-01232-02-0-1
	64 – 70	H-01232-03-0-1
	69 – 75	H-01232-04-0-1
	74 – 80	H-01232-05-0-1
	84 – 90	H-01232-06-0-1
	109 – 115	H-01232-07-0-1

Mechanical security

Anti-jemmy device – hardware requirements



Anti-jemmy device (standard)*

Hardware requirements

1 L&S corner-drive with anti-jemmy device			
Designation	Finish	PU	Order no.
L&S corner-drive with anti-jemmy device	EV 1 / light grey	1	K-16570-00-0-1
	UC 5 / dark bronze	1	K-16570-00-0-5
Contents			
1.1	Corner-drive		
1.2	Extension, complete		
1.3	Cover		
1.4	Guide		
Stay arm slide block			
Lever complete			
Countersunk screw M5 x 16 mm			

2 L&S anti-jemmy device			
Designation	Finish	PU	Order no.
L&S anti-jemmy device	EV 1 / light grey	1	K-16569-00-0-1
Contents			
2.1	Wedge		
2.2	Support		
2.3	Lever		

3

Vertical packer

Designation	PU	Order no.
Vertical packer	1	[1]

[1]

The profile-specific version can be found on the next page and on the corresponding order pages in Section 1.0 from page 9.

4 P 959 connecting rod for L&S anti-jemmy device					
Designation	SW [mm]	Length [mm]	Finish	PU	Order no.
P 959 connecting rod for L&S anti-jemmy device	600 – 1235	1000	ferGUard	1	9-28355-10-0-1
	1236 – 1735	1500	ferGUard	1	9-28355-15-0-1
	1736 – 2035	1800	ferGUard	1	9-28355-18-0-1
	2036 – 2835	2600	ferGUard	1	9-28355-26-0-1
	Stock length	4800	ferGUard	1	9-28355-48-0-1

* Profile-specific versions can be found on the next page and on the corresponding order pages in Section 1.0 from page 9.



RC2



Versions/order numbers

Profile system	L&S bogie	Anti-jemmy device components				Page
		L&S anti-jemmy device	L&S corner-drive with anti-jemmy device	Packer vertical	P 959 connecting rod for L&S anti-jemmy device	
Akothem AT 750 HS	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-08-0-1	9-28355-**-0-1	13
Alcoa Europe	GU-934	–	–	–	–	–
Aliplast Ultraglide	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-06-0-1	9-28355-**-0-1	27
Alsistem	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-06-0-1	9-28355-**-0-1	35
AluK SC140	GU-934	K-16569-00-0-1	K-16570-00-0-*	–	9-28355-**-0-1	41
Alumil M300	GU-934	–	–	–	–	–
Aluprof MB-77HS	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-04-0-1	9-28355-**-0-1	55
Aluprof MB-77HS	GU-937	K-16569-00-0-1	K-16570-00-0-*	9-47295-06-0-1	9-28355-**-0-1	61
Etem E3000	GU-934	–	–	–	–	–
Etem E50	GU-937	–	–	–	–	–
Etem E52	GU-937	–	–	–	–	–
Etem E70	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-06-0-1	9-28355-**-0-1	87
Etem E70	GU-937	K-16569-00-0-1	K-16570-00-0-*	9-47295-06-0-1	9-28355-**-0-1	93
Exalco Albio 230	GU-934	–	–	–	–	–
Feal T 120	GU-934	–	–	–	–	–
Gastaldello Sistemi	GU-934	–	–	–	–	–
Gutmann SC 180	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-25740-07-0-1	9-28355-**-0-1	115
Gutmann SC 180	GU-937	K-16569-00-0-1	K-16570-00-0-*	9-25740-07-0-1	9-28355-**-0-1	121
Metra NC 150 STH Rodos (45°)	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-11-0-1	9-28355-**-0-1	127
Metra NC 150 STH Rodos (45°)	GU-937	K-16569-00-0-1	K-16570-00-0-*	9-25740-08-0-0	9-28355-**-0-1	133
Metra NC 150 STH Rodos (90°)	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-11-0-1	9-28355-**-0-1	141
Metra NC 150 STH Rodos (90°)	GU-937	K-16569-00-0-1	K-16570-00-0-*	9-25740-08-0-0	9-28355-**-0-1	147
Ponzio SL1600	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-06-0-1	9-28355-**-0-1	155
Profilati	GU-934	–	–	–	–	–
Reynaers CP 130-LS	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-11-0-1	9-28355-**-0-1	169
Reynaers CP 155	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-11-0-1	9-28355-**-0-1	177
Reynaers TSL 110	GU-934	–	–	–	–	–
Sapa Ekonol 125	GU-934	–	–	–	–	–
TS Aluminium	GU-937	–	–	–	–	–
Wicono Wicslide 160	GU-934	K-16569-00-0-1	K-16570-00-0-*	9-47295-08-0-1	9-28355-**-0-1	199

* Finish 1 = EV 1 / light grey or 5 = UC 5 / dark bronze

** Size 10, 15, 18, 26 or 48 (depending on the sash width)

Mechanical security

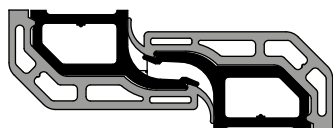
Meeting stile security profiles


RC2


Meeting-stile security profile L&S 10 RC



Meeting-stile security profile L&S 16/22 RC



Meeting-stile security profile L&S 25/29 RC

Installation drawing 0-44188

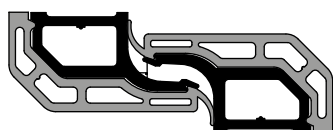
L&S meeting stile security profile set

Versions/order numbers

Designation	SD [mm]	Length [mm]	Finish	PU	Order no.
Meeting-stile security profile set L&S 10 RC	10	2400	grey	1	K-15797-24-0-1
			black	1	K-15797-24-0-6
			white	1	K-15797-24-0-7
	10	2900	grey	1	K-15797-29-0-1
			black	1	K-15797-29-0-6
			white	1	K-15797-29-0-7
Meeting-stile security profile set L&S 16/22 RC	16 – 22	2400	grey	1	K-15798-24-0-1
			black	1	K-15798-24-0-6
			white	1	K-15798-24-0-7
	16 – 22	2900	grey	1	K-15798-29-0-1
			black	1	K-15798-29-0-6
			white	1	K-15798-29-0-7
Meeting-stile security profile set L&S 25/29 RC	25 – 29	2400	grey	1	K-15799-24-0-1
			black	1	K-15799-24-0-6
			white	1	K-15799-24-0-7
	25 – 29	2900	grey	1	K-15799-29-0-1
			black	1	K-15799-29-0-6
			white	1	K-15799-29-0-7



Extension L&S 10 RC



Extension L&S 25/29 RC

L&S extension set

Versions/order numbers

Designation	SD [mm]	Length [mm]	Finish	PU	Order no.
Extension set L&S 10 RC	10	500	grey	1	K-16855-00-0-1
Extension set L&S 25/29 RC	25 – 29	500	grey	1	K-16857-00-0-1
			black	1	K-16857-00-0-6
			white	1	K-16857-00-0-7

Accessories for meeting stile security profile

Versions/order numbers

Designation	Dim. [mm]	Requirements per meeting stile security profile set	PU	Order no.
Spax screw	5 x 50	24	1	H-00112-50-0-1
Spax screw	5 x 60	24	1	H-00112-60-0-1
Spax screw	3.5 x 35	1	1	H-00109-35-0-1



Moving safely and easily

OPERATION

SAFED



In modern construction, the requirements in relation to functionality and operating reliability of Lift&Slide elements are becoming increasingly complex. The experience and technical expertise of Gretsch-Unitas gives it the leading edge which is proving successful in moving large and heavy Lift&Slide elements comfortably and safely.

A trend which is becoming more and more prevalent, not only in residential buildings but also in commercial or public buildings, is the use of large-format Lift&Slide systems to maximise opening widths that are also subject to intensive use, often by different persons. As Lift&Slide sashes become increasingly heavier, the challenge is to ensure they can still be moved safely and easily, without causing injury to persons, or damage to the element or building structure.

1 Gentle braking operation
HS SilentClose

2 Reliable stopping before end position
HS StopUnit

3 Outstanding operating reliability
HS SpeedLimiter

Exclusively
available only from
Gretsch-Unitas

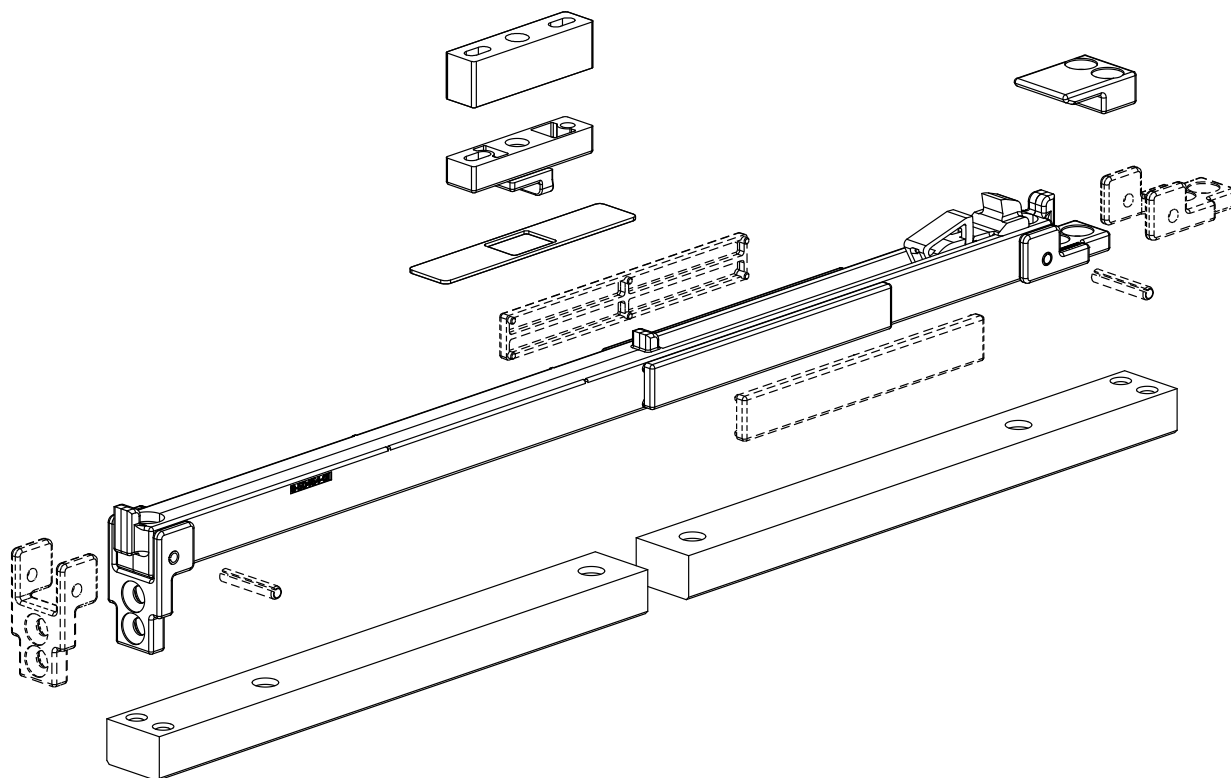


4 For rebound-free lowering of the sash
Handle damper

5 Damped installation without damages
Buffer S

HS SilentClose and HS StopUnit damping units

Order information



HS SilentClose / HS StopUnit for aluminium profiles (neutral representation; profile-specific deviations are possible)

Installation instructions 0-48095 / installation drawings depending on profile system

Note:

The HS SilentClose and HS StopUnit damping units are not designed as safety components to protect people. They are designed to provide convenience and to protect the element.

The HS SilentClose and HS StopUnit damping units cannot always be used in the open position direction due to different profile systems.

Due to the profile-specific sealing systems, the closing force of the HS SilentClose may not be sufficient to move the L&S sash completely into the closed position.

Using the HS StopUnit does not increase the operating force. Depending on the damping unit design, the HS SilentClose slightly increases the operating force because the damping unit must be pretensioned in order to move the L&S sash to the end position.



HS SilentClose damping unit

For even safer operation of sashes weighing up to 200 kg and up to 400 kg

HS SilentClose damping unit gently brakes the L&S sash as it travels to the open and closed position and moves it to the corresponding end position. The installation is concealed.

Up to two damping units can be used per sliding sash (open and closed position). The HS StopUnit damping unit and the HS SilentClose damping unit can be combined. Opening and closing can be controlled separately via both products.

For the profile-specific application options, please refer to the installation drawing for the profile system.

Versions/order numbers

Designation	SW [kg]	PU	Order no.
HS SilentClose damping unit	up to 200	1	K-19463-01-0-6
	up to 400	1	K-19463-00-0-6

HS StopUnit damping unit

For even safer operation of sashes weighing up to 200 kg and up to 400 kg

HS StopUnit damping unit gently brakes the L&S sash as it travels to the open and closed position. The L&S sash must be consciously moved to the corresponding end position. The installation is concealed.

Up to two damping units can be used per sliding sash (open and closed position). The HS StopUnit damping unit and the HS SilentClose damping unit can be combined. Opening and closing can be controlled separately via both products.

For the profile-specific application options, please refer to the installation drawing for the profile system.

Versions/order numbers

Designation	SW [kg]	PU	Order no.
HS StopUnit damping unit	up to 200	1	K-19955-01-0-6
	up to 400	1	K-19955-00-0-6

Accessories for HS SilentClose and HS StopUnit

- Depending on profile system
- Depending on the damping unit, an accessories PU must be ordered

Versions/Order numbers

Profile system	Finish	PU	Order no.
Gutmann SC 180 Installation drawing 0-46014	black	1	K-19781-00-0-6
Ponzio SL1600 Installation drawing 0-46501	black	1	K-19834-00-0-6
Reynaers CP 155 Installation drawing 0-45582	black	1	K-19889-00-0-6

HS SpeedLimiter

Benefits and application ranges



Benefits

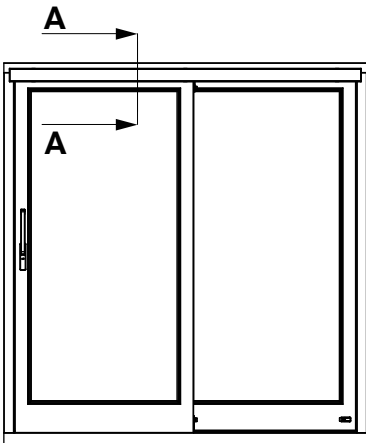
- The HS SpeedLimiter prevents the sliding sash from accelerating to avoid
 - personal injury
 - damage to the structure
- Unrestricted ease of operation
- Simple installation; retrofittable
- Ideally suited for installation in public buildings such as, e.g. schools
- Suitable for elements of timber, PVC, and aluminium
- Sticker with operating instructions 9-50594-00-0-1 to be ordered separately

Application ranges

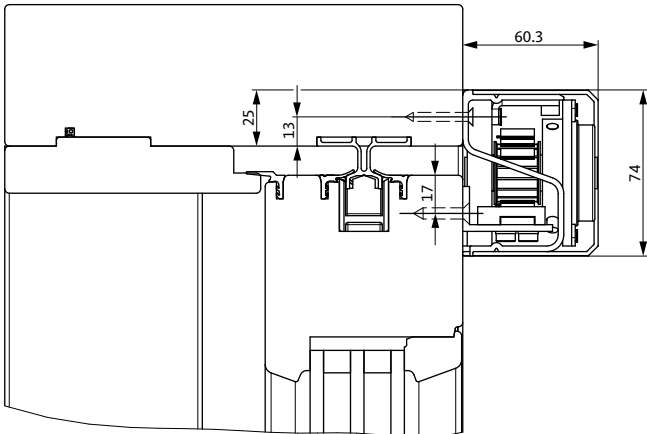
HS SpeedLimiter	
Sliding speed [m/s]	0.2 [1]
Sash width [mm]	max. 3300 [2] [3]
Sash height [mm]	max. 2765 [2] [3]
Sash weight [kg]	max. 400 [2]
Sash configurations	Pattern A and C

[1] The HS SpeedLimiter complies with the maximum sliding speed of 0.2 m/s stipulated in the German accident prevention regulations and in the VHBH directive.
[2] Coordinated with Lift&Slide hardware GU-934
[3] Coordinated with Lift&Slide hardware GU-937

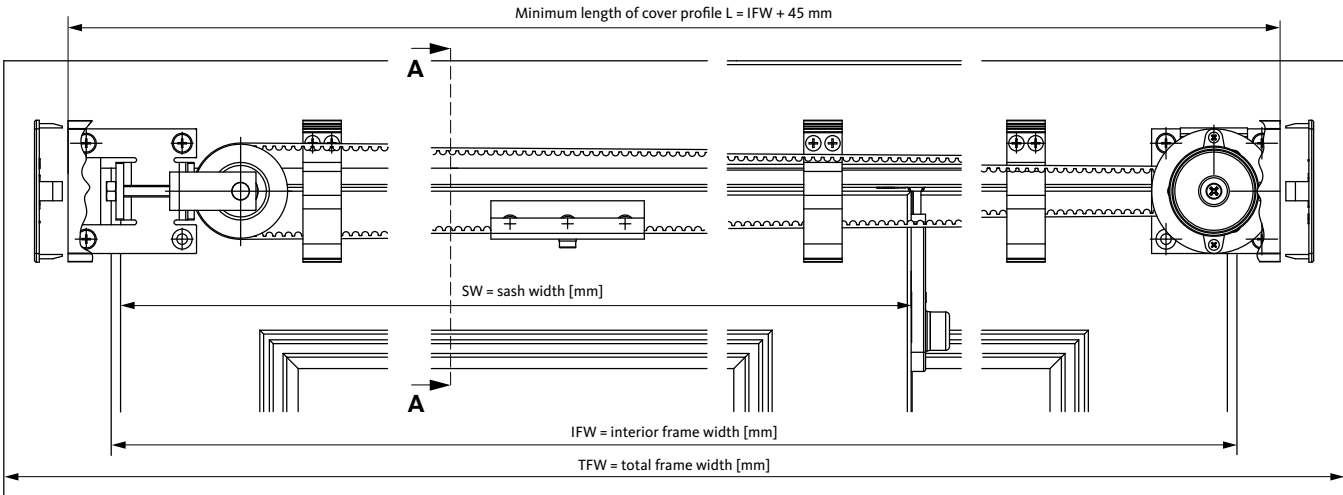
Installation drawing 0-44550



Interior view – pattern A



Section A – A





Hardware requirements depending on sash size for pattern A and C

HS SpeedLimiter basic hardware set

Pattern		Designation	Finish	PU	Order no.
A	C				
1	2	HS SpeedLimiter basic hardware set	EV 1 / light grey	1	K-17179-20-0-1

Set of profiles for HS SpeedLimiter

Pattern		SW [mm]	TFW [mm]	Finish	PU	Order no.
A	C					
1	–	– 1950	– 4000	EV 1 / light grey	1	K-17180-40-0-1
1	–	1951 – 3300	4001 – 6700	EV 1 / light grey	1	K-17180-67-0-1
–	1	– 1450	– 6700	EV 1 / light grey	1	K-17180-67-0-1
–	2	1451 – 1950	6701 – 8000	EV 1 / light grey	1	K-17180-40-0-1
–	2	1951 – 3300	8001 – 13400	EV 1 / light grey	1	K-17180-67-0-1

Design and function are not mutually exclusive

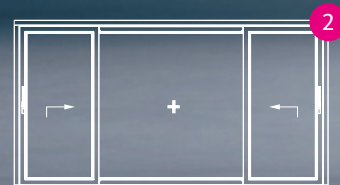
DESIGN

HONED TO PERFECTION



Large-format glass frontages have a decisive impact on the architectural design of modern buildings. They must inspire and enthuse both functionally and aesthetically.

Complex technical solutions are required to meet the increasing demands in relation to the security and comfort of Lift&Slide doors. The expectations in relation to the aesthetic quality of buildings that provide an environment that is highly conducive to living and working are however also increasing. As far as Gretsche-Unitas is concerned, perfect functionality always goes hand in hand with aesthetic design that can be adapted to the required ambience in each case.



The right sash configuration for every room design – up to a total width of 20 metres.

1 Comfortable operation with appealing design
Turn handles

2 Versatile and multi-faceted
Patterns A–L

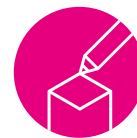
3 Elegant, comfortable and barrier-free
HS ePOWER motor-driven drive

Exclusively
available only from
Gretsche-Unitas



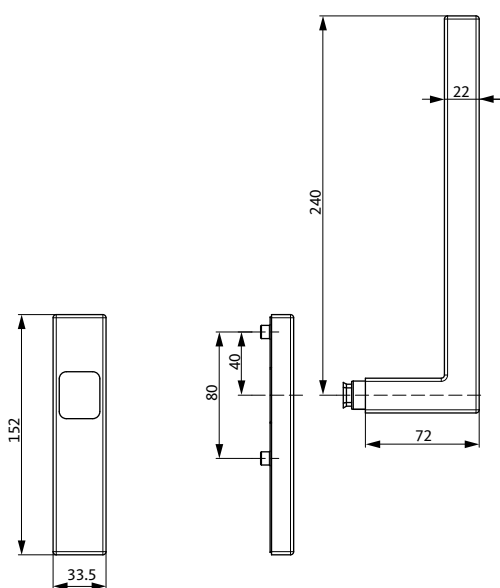
L&S turn handles in special design

Special form, square

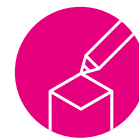


Product information

- High-quality stainless steel turn handle, interior, with dummy backplate
- With 10 mm square size and 80 mm distance between screw centres
- Flush pull must be ordered separately
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16

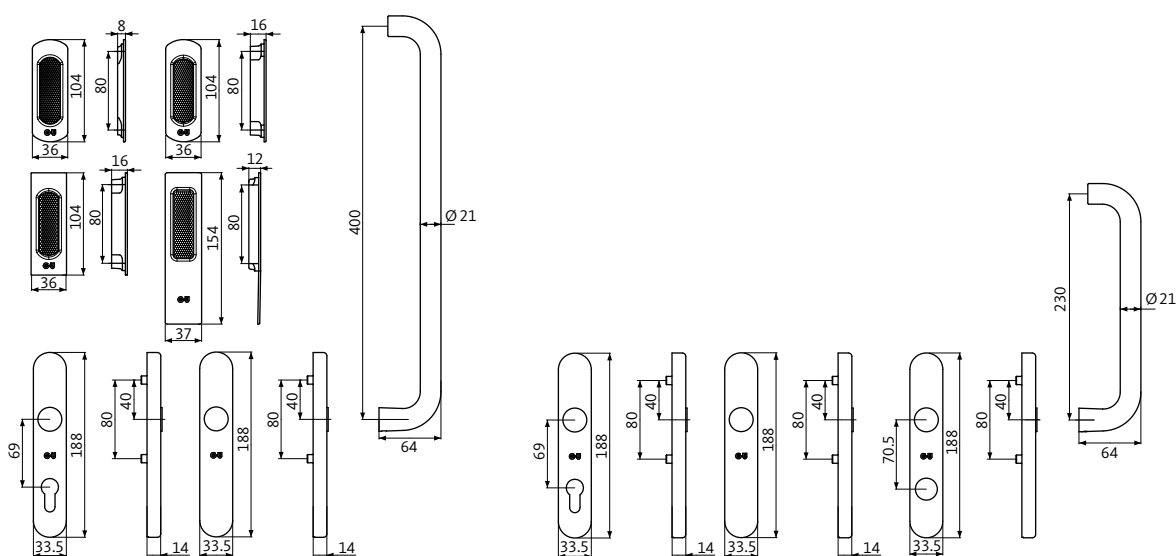


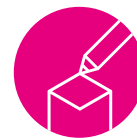
You can find detailed overviews, specifications about dimensions and various versions in the catalogue section 5.0 "Turn handles and accessories".



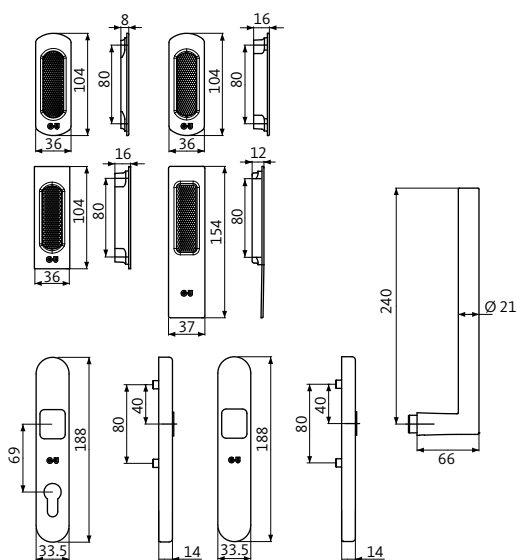
Product information

- High-quality stainless steel turn handles, optionally with
 - Dummy backplate
 - Profile cylinder hole (PC) or
 - Round cylinder hole (CH-RC)
- With 10 mm square size and 80 mm distance between screw centres
- Optionally with exterior handle or exterior flush pull
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16





- High-quality stainless steel turn handles, optionally with
 - Dummy backplate or
 - Profile cylinder hole (PC)
- With 10 mm square size and 80 mm distance between screw centres
- Optionally with exterior handle or exterior flush pull
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16



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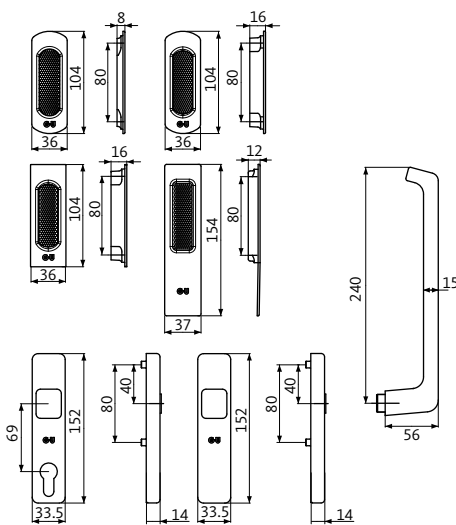
L&S turn handles in special design

DIRIGENT series



Product information

- High-quality stainless steel turn handles, optionally with
 - Dummy backplate or
 - Profile cylinder hole (PC)
- With 10 mm square size and 80 mm distance between screw centres
- Optionally with exterior handle or exterior flush pull
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16



You can find detailed overviews, specifications about dimensions and various versions in the catalogue section 6.0 "Turn handles and accessories".



5.0 Turn handles and accessories

Turn handle – Special form	280
RONDO series	283
BELCANTO series	301
DIRIGENT series	313
Accessories	352

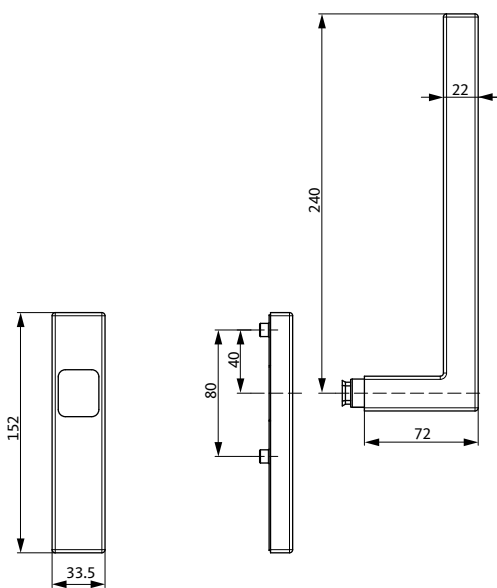
Special form, square – interior L&S turn handle without PC hole

without flush pull



Product information

- High-quality stainless steel turn handle, interior, without PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 78 mm
- The cover rosette cannot subsequently be exchanged



Special form, square – interior L&S turn handle without PC hole

without flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
Special form, square – interior L&S turn handle without PC hole	180°	stainless steel	with lugs	no	1	K-18684-00-0-8

Contents	Piece(s)
Special form, square – interior L&S turn handle without PC hole	1
Square spindle (suitable for ST 88 to 92 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	9-24377-40-0-1
	68	80	9-24377-40-0-1
	78	80	9-24377-40-0-1
	88	90	Included in PU for turn handle
	90	90	
	92	90	
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

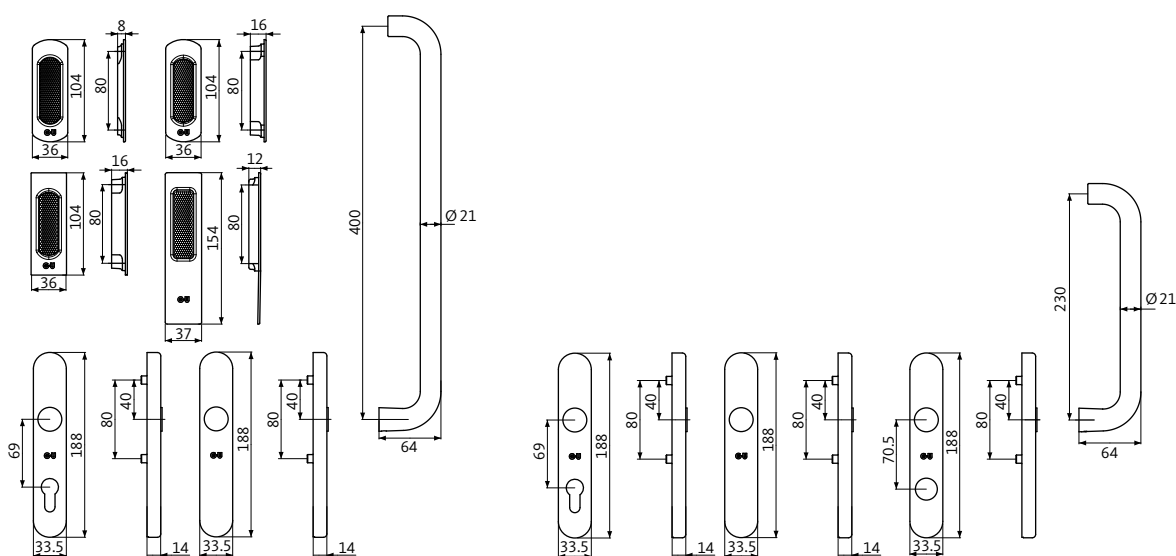
Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0





Product information

- High-quality stainless steel turn handles, optionally with
 - Dummy backplate
 - Profile cylinder hole (PC) or
 - Round cylinder hole (CH-RC)
- With 10 mm square size and 80 mm distance between screw centres
- Optionally with exterior handle or exterior flush pull
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16



Some products in this series are suitable for



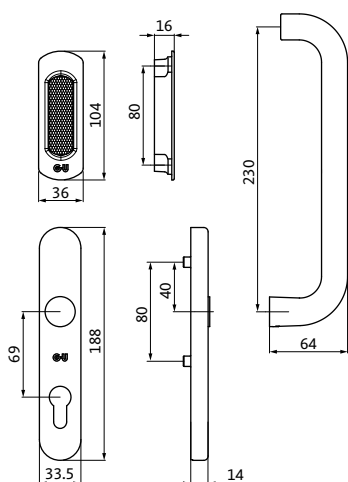
RONDO – interior L&S turn handle with PC hole

with exterior flush pull



Product information

- High-quality stainless steel turn handle, interior, with PC hole
- Exterior flush pull
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 78 mm



RONDO – interior L&S turn handle with PC hole

with exterior flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
RONDO interior L&S turn handle, with PC hole	180°	stainless steel	with lugs	yes	1	K-16797-00-0-8
	90°	stainless steel	with lugs	yes	1	K-16863-00-0-8

Contents	Piece(s)
RONDO interior L&S turn handle, with PC hole	1
L&S flush pull	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	65	9-13274-65-0-1
	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3
	110	110	9-13274-98-R-3

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

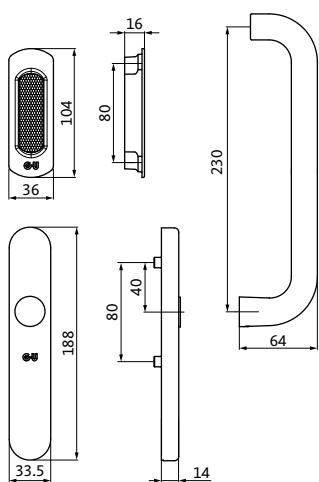
RONDO – interior L&S turn handle without PC hole

with exterior flush pull



Product information

- High-quality stainless steel turn handle, interior, without PC hole
- Exterior flush pull
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber and PVC Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 78 mm



RONDO – interior L&S turn handle without PC hole

with exterior flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
RONDO interior L&S turn handle without PC hole	180°	stainless steel	with lugs	no	1	K-16796-00-0-8
	90°	stainless steel	with lugs	no	1	K-16862-00-0-8

Contents	Piece(s)
RONDO interior L&S turn handle without PC hole	1
L&S flush pull	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	65	9-13274-65-0-1
	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3
	110	110	9-13274-98-R-3

Drilling jigs

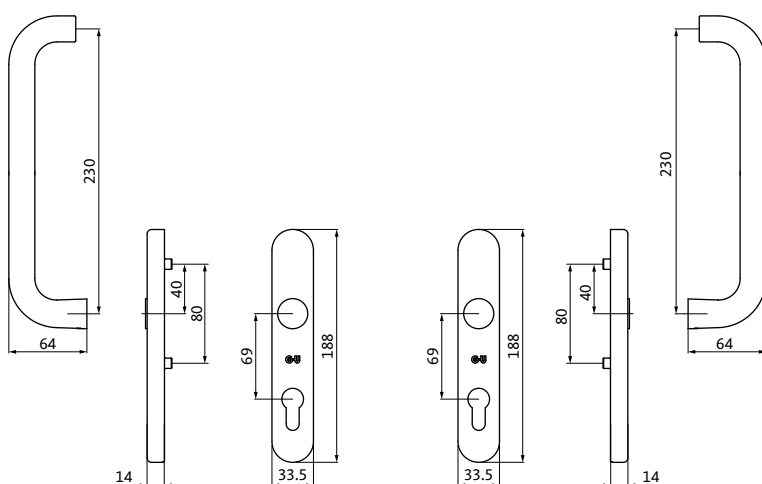
Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0

RONDO – interior/exterior L&S turn handle set with PC hole



Product information

- High-quality stainless steel turn handles, interior and exterior, with PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 78 mm
- **Note:** We recommend the use of a buffer – see pages 220 and 221



RONDO – interior/exterior L&S turn handle set with PC hole



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
RONDO interior/exterior L&S turn handle set with PC hole	180°	stainless steel	with lugs	yes	1	K-16798-00-0-8

Contents	Piece(s)
RONDO interior/exterior L&S turn handle set with PC hole	1
Fixing screws M6 x 100 mm	2
Square spindle (sash thickness up to 90 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: For other sash thicknesses, the fixing screws must be ordered separately.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	145	Included in PU for turn handle
	68		
	78		
	88		
	90		
	92	150	9-24377-15-0-1
	110	170	9-24377-18-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	80	9-13274-80-0-1
	68	80	9-13274-80-0-1
	78	90	9-13274-90-0-1
	88	100	Included in PU for turn handle
	90		
	92		
	110	125	9-13274-96-R-1

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

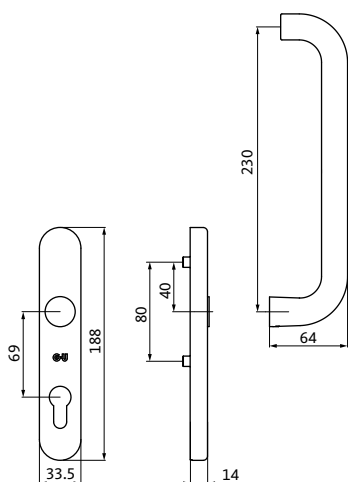
RONDO – interior L&S turn handle with PC hole

without flush pull



Product information

- High-quality stainless steel turn handle, interior, with PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 78 mm



RONDO – interior L&S turn handle with PC hole

without flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
RONDO interior L&S turn handle with PC hole	180°	stainless steel	with lugs	yes	1	K-16808-00-0-8

Contents	Piece(s)
RONDO interior L&S turn handle with PC hole	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

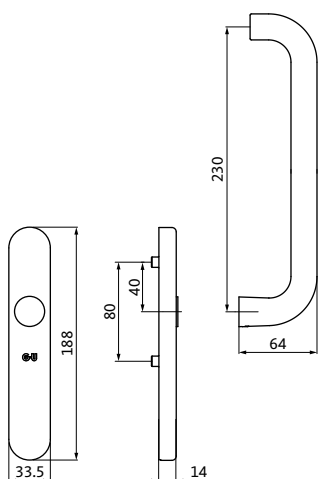
RONDO – interior L&S turn handle without PC hole

without flush pull



Product information

- High-quality stainless steel turn handle, interior, without PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 78 mm



RONDO – interior L&S turn handle without PC hole

without flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
RONDO interior L&S turn handle without PC hole	180°	stainless steel	with lugs	no	1	K-16807-00-0-8

Contents	Piece(s)
RONDO interior L&S turn handle without PC hole	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

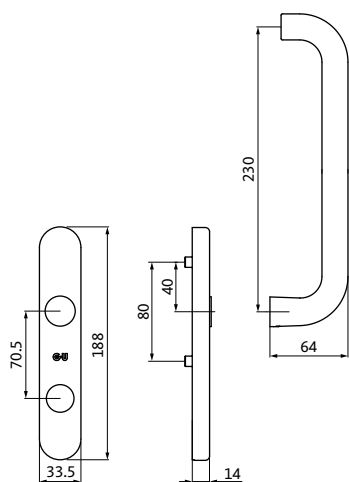
RONDO – interior L&S turn handle with CH-RC hole

without flush pull



Product information

- High-quality stainless steel turn handle, interior, with 22 mm CH-RC hole-type
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 78 mm



RONDO – interior L&S turn handle with CH-RC hole

without flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
RONDO interior L&S turn handle with CH-RC hole	180°	stainless steel	with lugs	yes	1	K-17624-00-0-8

Contents	Piece(s)
RONDO interior L&S turn handle with CH-RC hole	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

RONDO – interior L&S turn handle with PC hole

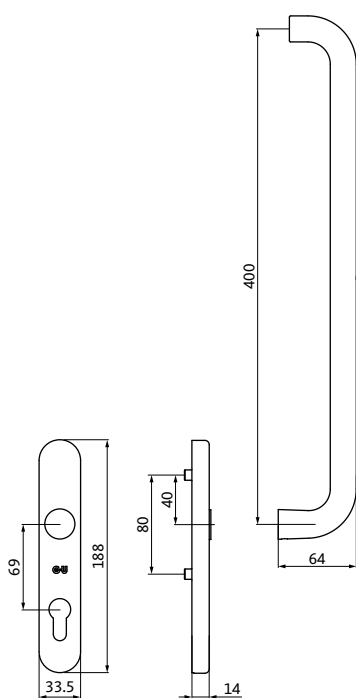
extended handle



Product information

- High-quality stainless steel turn handle, interior, with PC hole
- Special length 400 mm
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 400 mm
- Handle height 78 mm

This product is suitable for use in accordance with



RONDO – interior L&S turn handle with PC hole

extended handle



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
RONDO interior L&S turn handle with PC hole	180°	stainless steel	with lugs	yes	1	K-17232-00-0-8

Contents	Piece(s)
RONDO interior L&S turn handle with PC hole	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

RONDO – interior L&S turn handle without PC hole

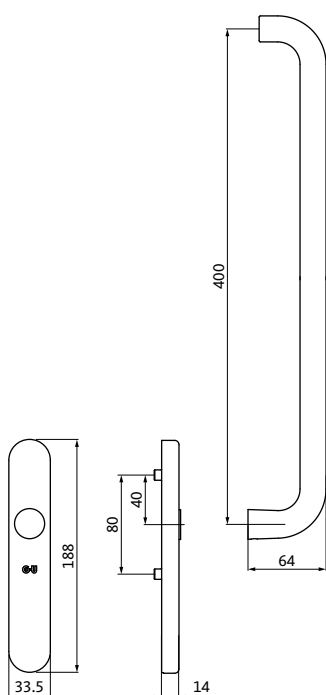
extended handle



Product information

- High-quality stainless steel turn handle, interior, without PC hole
- Special length 400 mm
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 400 mm
- Handle height 78 mm

This product is suitable for use in accordance with



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
RONDO interior L&S turn handle without PC hole	180°	stainless steel	with lugs	no	1	K-17231-00-0-8

Contents	Piece(s)
RONDO interior L&S turn handle without PC hole	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

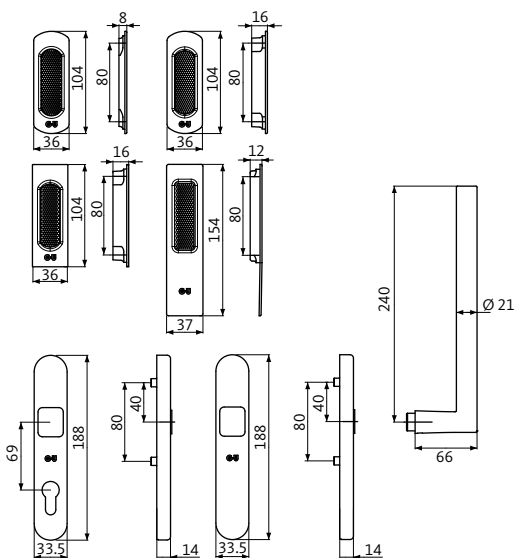
Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0





Product information

- High-quality stainless steel turn handles, optionally with
 - Dummy backplate
 - Profile-cylinder hole (PC)
- With 10 mm square size and 80 mm distance between screw centres
- Optionally with exterior handle or exterior flush pull
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16



Some products in this series are suitable for



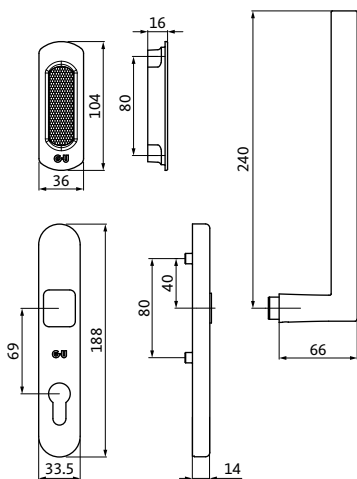
BELCANTO – interior L&S turn handle with PC hole

with exterior flush pull



Product information

- High-quality stainless steel turn handle, interior, with PC hole
- Exterior flush pull
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber and PVC Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 80 mm



BELCANTO – interior L&S turn handle with PC hole

with exterior flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
BELCANTO interior L&S turn handle with PC hole	180°	stainless steel	with lugs	yes	1	K-17016-00-0-8
	90°	stainless steel	with lugs	yes	1	K-17021-00-0-8

Contents	Piece(s)
BELCANTO interior L&S turn handle with PC hole	1
L&S flush pull	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	65	9-13274-65-0-1
	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3
	110	110	9-13274-98-R-3

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0

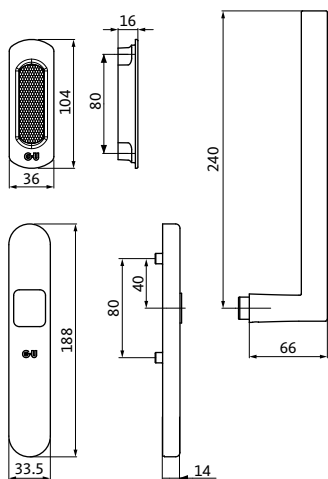
BELCANTO – interior L&S turn handle without PC hole

with exterior flush pull



Product information

- High-quality stainless steel turn handle, interior, without PC hole
- Exterior flush pull
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber and PVC Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 80 mm



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
BELCANTO interior L&S turn handle without PC hole	180°	stainless steel	with lugs	no	1	K-17015-00-0-8
	90°	stainless steel	with lugs	no	1	K-17020-00-0-8

Contents	Piece(s)
BELCANTO interior L&S turn handle without PC hole	1
L&S flush pull	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	65	9-13274-65-0-1
	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3
	110	110	9-13274-98-R-3

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0

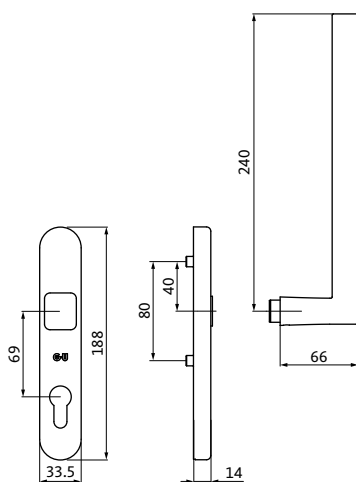
BELCANTO – interior L&S turn handle with PC hole

without flush pull



Product information

- High-quality stainless steel turn handle, interior, with PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 80 mm



BELCANTO – interior L&S turn handle with PC hole

without flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
BELCANTO interior L&S turn handle with PC hole	180°	stainless steel	with lugs	yes	1	K-17014-00-0-8
	90°	stainless steel	with lugs	yes	1	K-17019-00-0-8

Contents	Piece(s)
BELCANTO interior L&S turn handle with PC hole	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

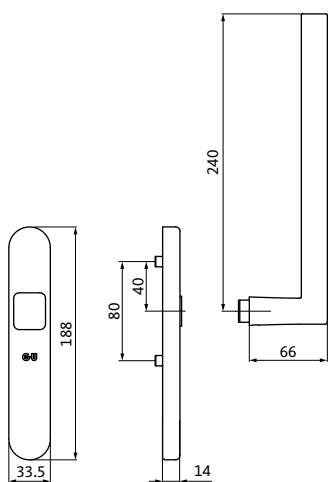
BELCANTO – interior L&S turn handle without PC hole

without flush pull



Product information

- High-quality stainless steel turn handle, interior, without PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 80 mm



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
BELCANTO interior L&S turn handle without PC hole	180°	stainless steel	with lugs	no	1	K-17013-00-0-8
	90°	stainless steel	with lugs	no	1	K-17018-00-0-8

Contents	Piece(s)
BELCANTO interior L&S turn handle without PC hole	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

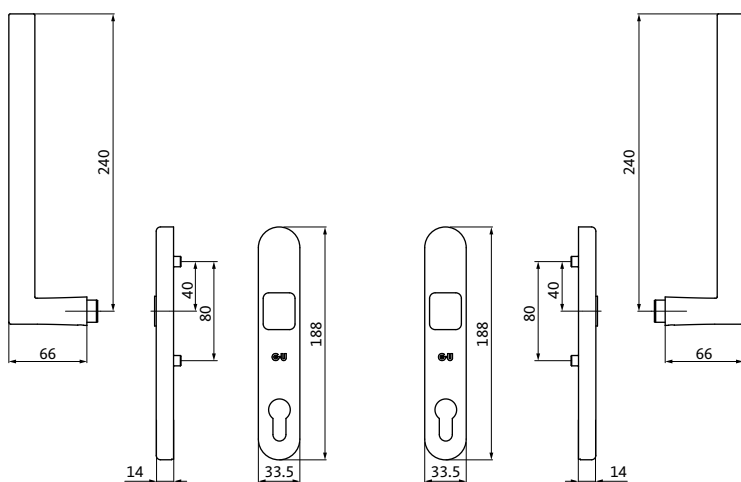
Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

BELCANTO – L&S interior/exterior turn handle set with PC hole



Product information

- High-quality stainless steel turn handles, interior and exterior, with PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 80 mm
- **Note:** We recommend the use of a buffer – see pages 220 and 221



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
BELCANTO interior/exterior L&S turn handle with PC hole	180°	stainless steel	with lugs	yes	1	K-17017-00-0-8
	90°	stainless steel	with lugs	yes	1	K-17022-00-0-8

Contents	Piece(s)
BELCANTO interior/exterior L&S turn handle with PC hole	1
Fixing screws M6 x 100 mm	2
Square spindle (sash thickness up to 90 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: For other sash thicknesses, the fixing screws must be ordered separately.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	145	Included in PU for turn handle
	68		
	78		
	88		
	90		
	92	150	9-24377-15-0-1
	110	170	9-24377-18-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	80	9-13274-80-0-1
	68	80	9-13274-80-0-1
	78	90	9-13274-90-0-1
	88	100	Included in PU for turn handle
	90		
	92		
	110	125	9-13274-96-R-1

Drilling jigs

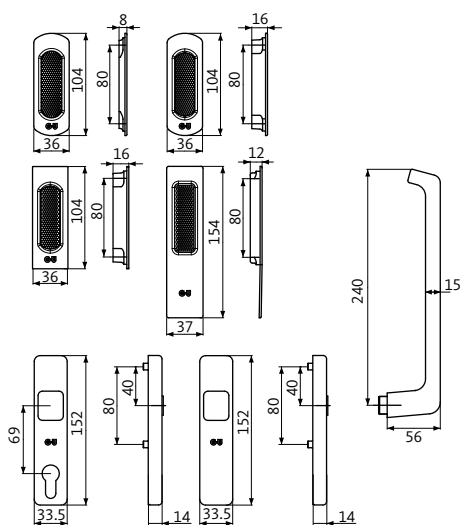
Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0





Product information

- High-quality stainless steel turn handles, optionally with
 - Dummy backplate
 - Profile-cylinder hole (PC)
- With 10 mm square size and 80 mm distance between screw centres
- Optionally with exterior handle or exterior flush pull
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16



Some products in this series are suitable for



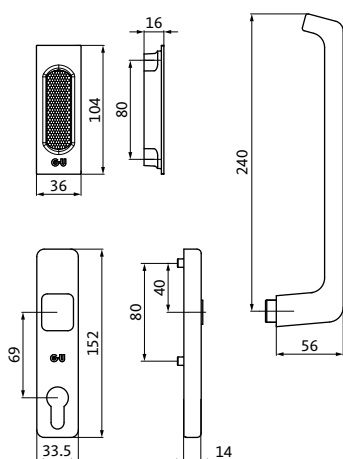
DIRIGENT – interior L&S turn handle with PC hole

with exterior flush pull



Product information

- High-quality stainless steel turn handle, interior, with PC hole
- Exterior flush pull
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber and PVC Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 70 mm



DIRIGENT – interior L&S turn handle with PC hole

with exterior flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
DIRIGENT interior L&S turn handle with PC hole	180°	stainless steel	with lugs	yes	1	K-16794-00-0-8

Contents	Piece(s)
DIRIGENT interior L&S turn handle with PC hole	1
L&S flush pull	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	65	9-13274-65-0-1
	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3
	110	110	9-13274-98-R-3

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0

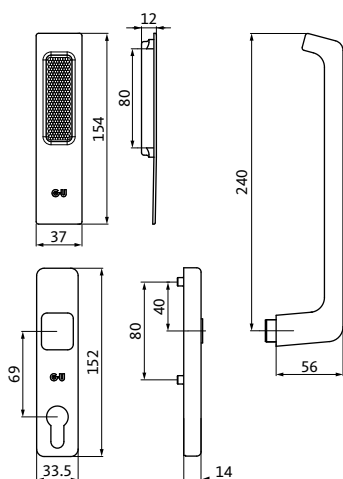
DIRIGENT – interior L&S turn handle with PC hole

with extended exterior flush pull



Product information

- High-quality aluminium turn handle, interior, with PC hole
- Exterior flush pull, extended
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber and PVC Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 70 mm



DIRIGENT – interior L&S turn handle with PC hole

with extended exterior flush pull



L&S turn handles

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT interior L&S turn handle with PC hole	180°	aluminium	with lugs	yes	silver/EV 1 look	1	K-13266-00-0-1
					dark brown [1]	1	K-13266-00-0-5
					white, RAL 9016	1	K-13266-00-0-7
	90°	aluminium	with lugs	yes	silver/EV 1 look	1	K-13263-00-0-1
					dark brown [1]	1	K-13263-00-0-5
					white, RAL 9016	1	K-13263-00-0-7

[1] Similar to RAL 8022

Contents	Piece(s)
DIRIGENT interior L&S turn handle with PC hole	1
L&S flush pull, extended	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	65	9-13274-65-0-1
	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3
	110	110	9-13274-98-R-3

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0

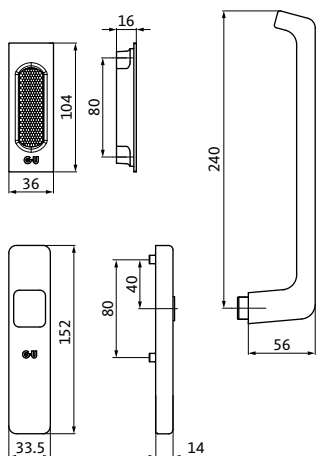
DIRIGENT – interior L&S turn handle without PC hole

with exterior flush pull



Product information

- High-quality stainless steel turn handle, interior, without PC hole
- Exterior flush pull
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber and PVC Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 70 mm



DIRIGENT – interior L&S turn handle without PC hole

with exterior flush pull



L&S turn handles

Versions/order numbers						
Designation	Detent	Material	Specifications	Lockable	PU	Order no.
DIRIGENT interior L&S turn handle without PC hole	180°	stainless steel	with lugs	no	1	K-16793-00-0-8
	90°	stainless steel	with lugs	no	1	K-16859-00-0-8

Contents	Piece(s)
DIRIGENT interior L&S turn handle without PC hole	1
L&S flush pull	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	65	9-13274-65-0-1
	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3
	110	110	9-13274-98-R-3

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0

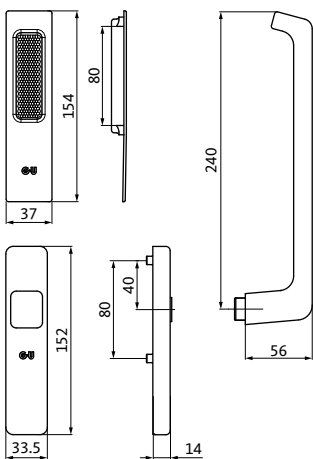
DIRIGENT – interior L&S turn handle without PC hole

with extended exterior flush pull



Product information

- High-quality aluminium turn handle, interior, without PC hole
- Exterior flush pull, extended
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber and PVC Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thickness up to 56 mm, fixed square spindle
- Suitable for sash thickness from 68 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 70 mm



DIRIGENT – interior L&S turn handle without PC hole

with extended exterior flush pull



L&S turn handles

Versions/order numbers								
Designation	Detent	ST [mm]	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT interior L&S turn handle without PC hole	180°	up to 56 [1]	aluminium	with lugs	no	silver/EV 1 look	1	K-13265-00-0-1
						dark brown [3]	1	K-13265-00-0-5
						white, RAL 9016	1	K-13265-00-0-7
	180°	up to 78 [2]	aluminium	with lugs	no	silver/EV 1 look	1	K-13785-00-0-1
						dark brown [3]	1	K-13785-00-0-5
						white, RAL 9016	1	K-13785-00-0-7
	90°	up to 56 [1]	aluminium	with lugs	no	silver/EV 1 look	1	K-13262-00-0-1
						dark brown [3]	1	K-13262-00-0-5
						white, RAL 9016	1	K-13262-00-0-7
	90°	up to 78 [2]	aluminium	with lugs	no	silver/EV 1 look	1	K-13787-00-0-1
						dark brown [3]	1	K-13787-00-0-5
						white, RAL 9016	1	K-13787-00-0-7

[1] Square spindle, fixed
 [2] Square spindle, adjustable
 [3] Similar to RAL 8022

Contents (with ST up to 56 mm)	Piece(s)
DIRIGENT interior L&S turn handle without PC hole	1
L&S flush pull, extended	1
Square spindle (sash thickness up to 56 mm)	1

Note:

The fixing screws must be ordered separately depending on the sash thickness.

Contents (with sash thickness up to 78 mm)	Piece(s)
DIRIGENT interior L&S turn handle without PC hole	1
L&S flush pull, extended	1
Square spindle (suitable for ST 68 to 80 mm)	1

Note:

For other sash thicknesses, the square spindle must be ordered separately.

Note:

The fixing screws must be ordered separately depending on the sash thickness.

DIRIGENT – interior L&S turn handle without PC hole

with extended exterior flush pull



Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	65	9-13274-65-0-1
	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3
	110	110	9-13274-98-R-3

Drilling jigs

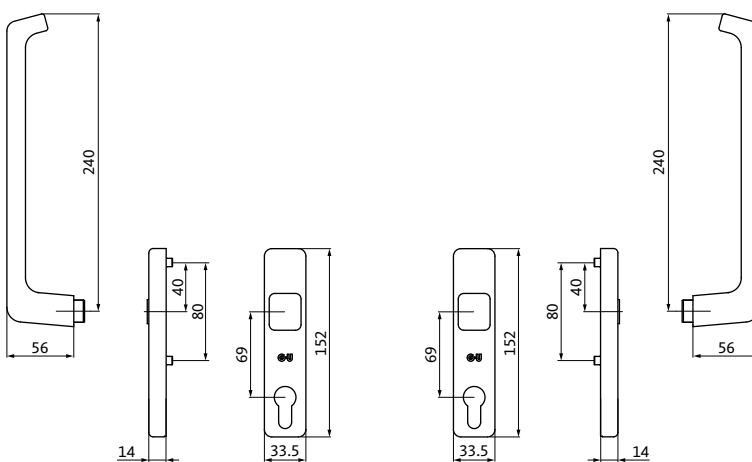
Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0

DIRIGENT – interior/exterior L&S turn handle set with PC hole



Product information

- High-quality aluminium, stainless steel or brass turn handles, interior and exterior, with PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 70 mm
- Note: We recommend the use of a buffer – see pages 220 and 221



DIRIGENT – interior/exterior L&S turn handle set with PC hole



L&S turn handles – aluminium

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT interior/exterior L&S turn handle with PC hole with fixing screws	180°	aluminium	with lugs	yes	silver/EV 1 look	1	K-13267-00-0-1
					dark brown [1]	1	K-13267-00-0-5
					white, RAL 9016	1	K-13267-00-0-7
	90°	aluminium	with lugs	yes	silver/EV 1 look	1	K-13264-00-0-1
					dark brown [1]	1	K-13264-00-0-5
					white, RAL 9016	1	K-13264-00-0-7
For aluminium profiles only							
DIRIGENT interior/exterior L&S turn handle with PC hole without fixing screws	180°	aluminium	with lugs	yes	silver/EV 1 look	1	6-24615-96-0-1
					dark brown [1]	1	6-24615-96-0-5
					white, RAL 9016	1	6-24615-96-0-7
	90°	aluminium	with lugs	yes	silver/EV 1 look	1	6-24616-96-0-1
					dark brown [1]	1	6-24616-96-0-5
					white, RAL 9016	1	6-24616-96-0-7
[1] Similar to RAL 8022							

L&S turn handles – stainless steel

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable		PU	Order no.
DIRIGENT interior/exterior L&S turn handle with PC hole with fixing screws	180°	stainless steel	with lugs	yes		1	K-16795-00-0-8
	90°	stainless steel	with lugs	yes		1	K-16861-00-0-8

L&S turn handles – brass

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable		PU	Order no.
DIRIGENT interior/exterior L&S turn handle with PC hole without fixing screws	180°	polished brass	with lugs	yes		1	6-26731-00-0-B

Contents: set, DIRIGENT turn handle: aluminium, stainless steel or brass

Contents	Piece(s)
DIRIGENT interior/exterior L&S turn handle set with PC hole	1
Fixing screws M6 x 100 mm	2
Square spindle (sash thickness up to 90 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: For other sash thicknesses, the fixing screws must be ordered separately.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	145	Included in PU for turn handle
	68		
	78		
	88		
	90		
	92	150	9-24377-15-0-1
	110	170	9-24377-18-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	80	9-13274-80-0-1
	68	80	9-13274-80-0-1
	78	90	9-13274-90-0-1
	88	100	9-13274-97-R-3 *
	90	100	9-13274-97-R-3 *
	92	100	9-13274-97-R-3 *
	110	125	9-13274-96-R-1
* Order only with version without lugs			

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

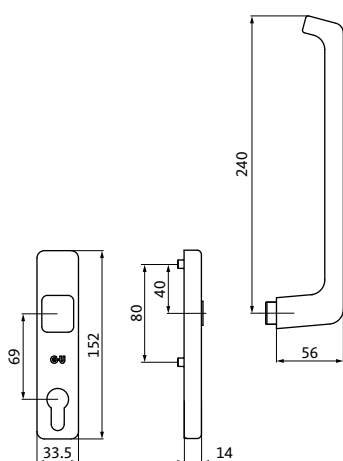
DIRIGENT – interior L&S turn handle with PC hole

without flush pull



Product information

- High-quality aluminium, stainless steel or brass turn handle, interior, with PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 70 mm



DIRIGENT – interior L&S turn handle with PC hole

without flush pull



L&S turn handles – aluminium

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
For aluminium profiles only							
DIRIGENT interior L&S turn handle with PC hole	180°	aluminium	with lugs	yes	silver/EV 1 look	1	6-24607-00-0-1
					dark brown [1]	1	6-24607-00-0-5
					white, RAL 9016	1	6-24607-00-0-7
	180°	aluminium	without lugs	yes	silver/EV 1 look	1	6-24609-00-0-1
					dark brown [1]	1	6-24609-00-0-5
					white, RAL 9016	1	6-24609-00-0-7
	90°	aluminium	without lugs	yes	silver/EV 1 look	1	6-24614-00-0-1
					dark brown [1]	1	6-24614-00-0-5
					white, RAL 9016	1	6-24614-00-0-7

[1] Similar to RAL 8022

L&S turn handles – stainless steel

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable		PU	Order no.
DIRIGENT interior L&S turn handle with PC hole	180°	stainless steel	with lugs	yes		1	K-16805-00-0-8
	90°	stainless steel	with lugs	yes		1	K-16865-00-0-8

L&S turn handles – brass

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable		PU	Order no.
DIRIGENT interior L&S turn handle with PC hole	180°	polished brass	with lugs	yes		1	6-26728-02-0-B
	90°	polished brass	with lugs	yes		1	6-26729-02-0-B

Contents: DIRIGENT L&S turn handle: aluminium, stainless steel or brass

Contents	Piece(s)
DIRIGENT interior L&S turn handle with PC hole	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

DIRIGENT – interior L&S turn handle with PC hole

without flush pull



Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

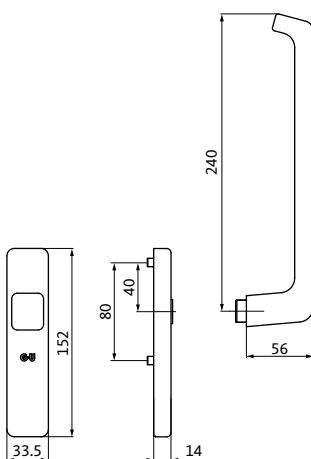
DIRIGENT – interior L&S turn handle without PC hole

without flush pull



Product information

- High-quality aluminium, stainless steel or brass turn handle, interior, without PC hole
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 70 mm



DIRIGENT – interior L&S turn handle without PC hole

without flush pull



L&S turn handles – aluminium

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT interior L&S turn handle without PC hole	180°	aluminium	with lugs	no	silver/EV 1 look	1	6-24606-00-0-1 [2]
					dark brown [1]	1	6-24606-00-0-5 [2]
					white, RAL 9016	1	6-24606-00-0-7 [2]
	180°	aluminium	without lugs	no	silver/EV 1 look	1	6-24608-00-0-1
					dark brown [1]	1	6-24608-00-0-5
					white, RAL 9016	1	6-24608-00-0-7
	90°	aluminium	without lugs	no	silver/EV 1 look	1	6-24613-00-0-1
					dark brown [1]	1	6-24613-00-0-5
					white, RAL 9016	1	6-24613-00-0-7
[1] Similar to RAL 8022 [2] Sash thickness up to 78 mm, square spindle not adjustable							

L&S turn handles – stainless steel

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable		PU	Order no.
DIRIGENT interior L&S turn handle without PC hole	180°	stainless steel	with lugs	no		1	K-16804-00-0-8

L&S turn handles – brass

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable		PU	Order no.
DIRIGENT interior L&S turn handle without PC hole	180°	polished brass	with lugs	no		1	6-26728-01-0-B
	90°	polished brass	with lugs	no		1	6-26729-01-0-B

Contents: DIRIGENT L&S turn handle: aluminium, stainless steel or brass

Contents	Piece(s)
DIRIGENT interior L&S turn handle without PC hole	1
Square spindle (sash thickness up to 80 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	Included in PU for turn handle
	68		
	78		
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	9-24377-60-0-1

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

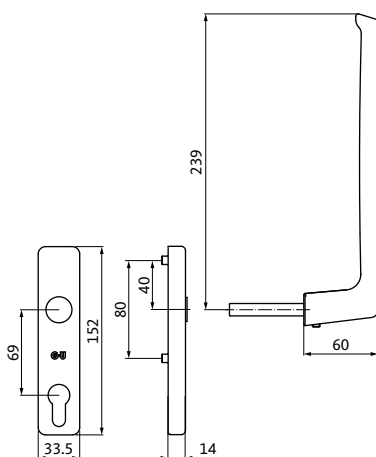
DIRIGENT – interior L&S turn handle with PC hole

without flush pull, removable



Product information

- High-quality aluminium turn handle, interior, with PC hole
- Removable, suitable for customer's own coating
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 74 mm



DIRIGENT – interior L&S turn handle with PC hole

without flush pull, removable



L&S turn handles

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT interior L&S turn handle with PC hole	180°	aluminium	with lugs	yes	silver/EV 1 look	1	K-17397-00-0-1
					dark brown [1]	1	K-17397-00-0-5
					white, RAL 9016	1	K-17397-00-0-7

[1] Similar to RAL 8022

Contents	Piece(s)
DIRIGENT interior L&S turn handle with PC hole	1
Square spindle (suitable for ST 110 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	9-24377-40-0-1
	68	80	9-24377-40-0-1
	78	80	9-24377-40-0-1
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	Included in PU for turn handle

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

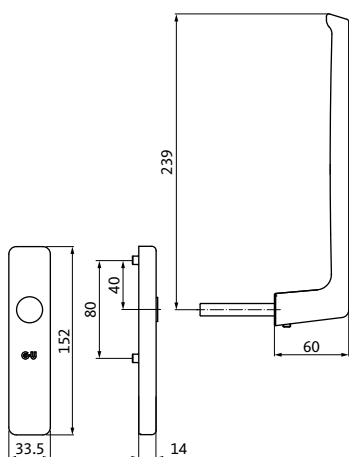
DIRIGENT – interior L&S turn handle without PC hole

without flush pull, removable



Product information

- High-quality aluminium turn handle, interior, without PC hole
- Removable, suitable for customer's own coating
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 74 mm



DIRIGENT – interior L&S turn handle without PC hole

without flush pull, removable



L&S turn handles

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT interior L&S turn handle without PC hole	180°	aluminium	with lugs	no	silver/EV 1 look	1	K-17396-00-0-1
					dark brown [1]	1	K-17396-00-0-5
					white, RAL 9016	1	K-17396-00-0-7

[1] Similar to RAL 8022

Contents	Piece(s)
DIRIGENT interior L&S turn handle without PC hole	1
Square spindle (suitable for ST 110 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	80	9-24377-40-0-1
	68	80	9-24377-40-0-1
	78	80	9-24377-40-0-1
	88	90	9-24377-50-0-1
	90	90	9-24377-50-0-1
	92	90	9-24377-50-0-1
	110	100	Included in PU for turn handle

Fixing screws

When attaching L&S turn handles on one side, please use suitable fixing screws for the material type and sash thickness of the Lift&Slide element.

Drilling jigs

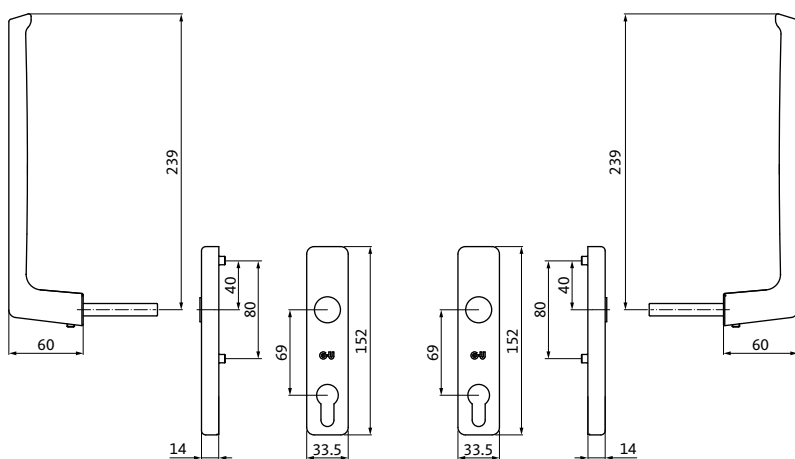
Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

DIRIGENT – interior/exterior L&S turn handle set with PC hole removable



Product information

- High-quality aluminium turn handles, interior and exterior, with PC hole
- Removable, suitable for customer's own coating
- With 10 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- Suitable for sash thicknesses up to 110 mm, adjustable square spindle
- Handle length 240 mm
- Handle height 74 mm
- **Note:** We recommend the use of a buffer – see pages 220 and 221



DIRIGENT – interior/exterior L&S turn handle set with PC hole

removable



L&S turn handles

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT interior/exterior L&S turn handle with PC hole	180°	aluminium	with lugs	yes	silver/EV 1 look	1	K-17400-00-0-1
					dark brown [1]	1	K-17400-00-0-5
					white, RAL 9016	1	K-17400-00-0-7
[1] Similar to RAL 8022							

Contents	Piece(s)
DIRIGENT interior/exterior L&S turn handle set with PC hole	1
Square spindle (suitable for ST 92 mm)	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: The fixing screws must be ordered separately depending on the sash thickness.

Square spindle

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 10 mm	56	145	9-24377-96-0-1
	68	145	9-24377-96-0-1
	78	145	9-24377-96-0-1
	88	145	9-24377-96-0-1
	90	145	9-24377-96-0-1
	92	150	Included in PU for turn handle
	110	170	9-24377-18-0-1

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	80	9-13274-80-0-1
	68	80	9-13274-80-0-1
	78	90	9-13274-90-0-1
	88	100	9-13274-97-R-3
	90	100	9-13274-97-R-3
	92	100	9-13274-97-R-3
	110	125	9-13274-96-R-1

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

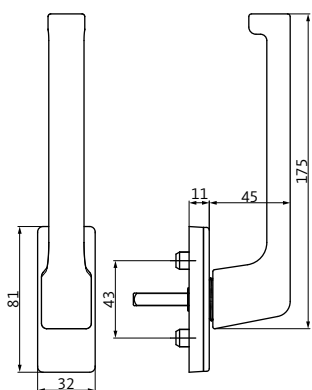
DIRIGENT – HL interior L&S turn handle without PC hole

for light Lift&Slide elements



Product information

- High-quality aluminium turn handle, interior, without PC hole
- With 7 x 37 mm square spindle, 43 mm distance between screw centres
- The square spindle can be enlarged to 10 mm (requires handle adapter set K-16554-01-0-1)
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 120 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16
- For sash thicknesses up to 56 mm
- Handle length 160 mm
- Handle height 58 mm



DIRIGENT – HL interior L&S turn handle without PC hole

for light Lift&Slide elements



Versions/order numbers – L&S turn handle

Designation	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT HL interior L&S turn handle without PC hole	aluminium	with lugs	no	silver/EV 1 look	1	6-31809-37-0-11
				dark brown [1]	1	6-31809-37-0-5
				white, RAL 9016	1	6-31809-37-0-7

[1] Similar to RAL 8022

Versions/order numbers – required accessories

Designation	PU	Order no.
Handle adapter set	1	K-16554-01-0-1

Contains: 1 x fixing plate, 1 x spindle sleeve, fixing screws

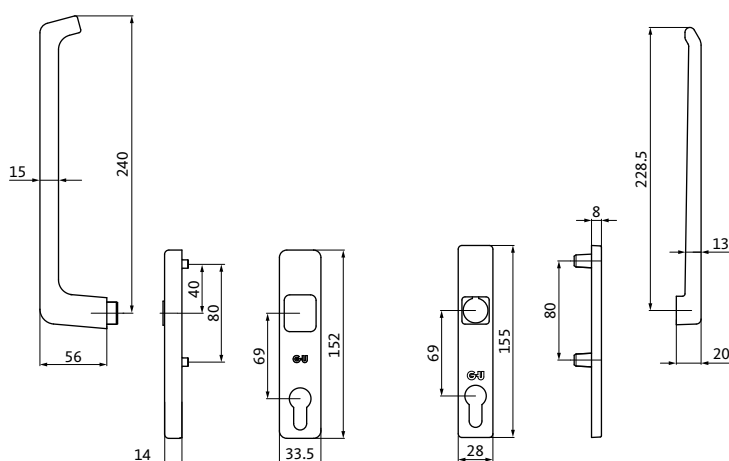
DIRIGENT – interior/exterior L&S turn handle set with PC hole

flat on the outside – outside height 30 mm



Product information

- High-quality aluminium turn handles, interior and exterior, with PC hole
- With 8 mm square size and 80 mm distance between screw centres
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 17
- Suitable for sash thickness up to 110 mm, square spindle can be cropped to necessary sash thickness
- Interior handle
 - Handle length 240 mm
 - Handle height 70 mm
- Exterior handle
 - Handle length 228.5 mm
 - Handle height 30 mm
- **Note:** We recommend the use of a buffer – see pages 220 and 221



DIRIGENT – interior/exterior L&S turn handle set with PC hole

flat on the outside – outside height 30 mm



L&S turn handles

Versions/order numbers							
Designation	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT interior/exterior L&S turn handle with PC hole	90°	aluminium	with lugs	yes	silver/EV 1 look	1	K-12919-00-0-1
					dark brown [1]	1	K-12919-00-0-5
					white, RAL 9016	1	K-12919-00-0-7

[1] Similar to RAL 8022

Contents	Piece(s)
DIRIGENT interior turn handle	1
DIRIGENT exterior turn handle	1
Fixing screws M6 x 75 mm (sash thickness up to 56 mm)	2
Square spindle 8 x 150 mm (sash thickness > 88 mm)	1
Spindle sleeve	1

Note: For other sash thicknesses, the square spindle must be ordered separately.

Note: For other sash thicknesses, the fixing screws must be ordered separately.

Square spindle

Versions/Order numbers			
Designation	ST [mm]	Length [mm]	Order number
Square size 8 mm	up to 88	90	9-30482-90-0-1
	> 88	150	Included in PU for turn handle

Fixing screws

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
M6 fixing screws	56	75	Included in PU for turn handle
	68	80	9-13274-80-0-1
	78	90	9-13274-90-0-1
	88	100	9-13274-97-R-3
	90	100	9-13274-97-R-3
	92	100	9-13274-97-R-3
	110	125	9-13274-96-R-1

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

DIRIGENT 4.0 – interior L&S turn handle with PC hole

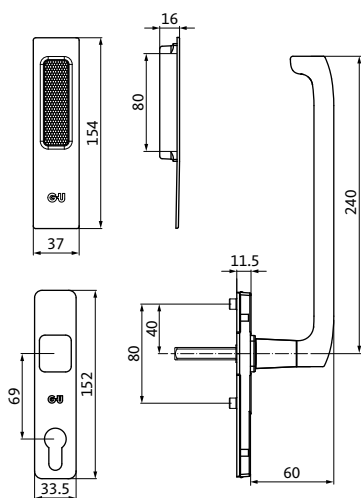
with exterior flush pull



Product information

The Lift&Slide turn handle generation DIRIGENT 4.0 adapts to the design of our DIRIGENT door handle hardware and, with a large distance between the handle and PC cover, offers users outstanding operating comfort.

- High-quality aluminium turn handle, interior, with PC hole
- Exterior flush pull
- Version with 10 mm fixed square with concealed fixing
- Distance between screw centres 80 mm
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Fixed backplate with friction washer
- Concealed screw connection
- Handle length 240 mm
- Handle height 78 mm



DIRIGENT 4.0 – interior L&S turn handle with PC hole

with exterior flush pull



L&S turn handles

Versions/Order numbers								
Designation	For sash thickness [mm]	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT 4.0 interior L&S turn handle with PC hole	68–78 [1]	180°	aluminium	with lugs	yes	EV1 silver	1	K-20216-50-0-1
						brown	1	K-20216-50-0-5
						black	1	K-20216-50-0-6
						white	1	K-20216-50-0-7
						titanium colour	1	K-20216-50-0-C
	88–92 [1]	180°	aluminium	with lugs	yes	EV1 silver	1	K-20216-60-0-1
						brown	1	K-20216-60-0-5
						black	1	K-20216-60-0-6
						white	1	K-20216-60-0-7
						cream white	1	K-20216-60-0-7V
						titanium colour	1	K-20216-60-0-C

[1] May vary, depending on the material type and handle height

Contents (K-20216-50)	Piece(s)
DIRIGENT 4.0 interior L&S turn handle with PC hole	1
L&S flush pull	1
Fixed spindle square, with 50 mm projection (sash thickness 68–78 mm)	1

Contents (K-20216-60)	Piece(s)
DIRIGENT 4.0 interior L&S turn handle with PC hole	1
L&S flush pull	1
Fixed spindle square, with 60 mm projection (sash thickness 88–92 mm)	1

Note: The fixing screws must be ordered separately depending on the sash thickness.

Fixing screws

Versions/Order numbers			
Designation	ST [mm]	Length [mm]	Order number
M6 fixing screws	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

DIRIGENT 4.0 – interior L&S turn handle without PC hole-type

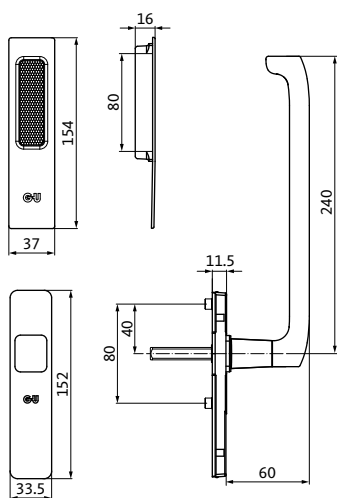
with exterior flush pull



Product information

The Lift&Slide turn handle generation DIRIGENT 4.0 adapts to the design of our DIRIGENT door handle hardware and, with a large distance between the handle and PC cover, offers users outstanding operating comfort.

- High-quality aluminium turn handle, interior, without PC hole-type
- Exterior flush pull
- Version with 10 mm fixed square with concealed fixing
- Distance between screw centres 80 mm
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Fixed backplate with friction washer
- Concealed screw connection
- Handle length 240 mm
- Handle height 78 mm



DIRIGENT 4.0 – interior L&S turn handle without PC hole-type with exterior flush pull



L&S turn handles

Versions/Order numbers								
Designation	For sash thickness [mm]	Detent	Material	Specifications	Lockable	Finish	PU	Order no.
DIRIGENT 4.0 interior L&S turn handle without PC hole	68–78 [1]	180°	aluminium	with lugs	no	EV1 silver	1	K-19844-50-0-1
						brown	1	K-19844-50-0-5
						black	1	K-19844-50-0-6
						white	1	K-19844-50-0-7
						titanium colour	1	K-19844-50-0-C
	88–92 [1]	180°	aluminium	with lugs	no	EV1 silver	1	K-19844-60-0-1
						brown	1	K-19844-60-0-5
						black	1	K-19844-60-0-6
						white	1	K-19844-60-0-7
						cream white	1	K-19844-60-0-7V
						titanium colour	1	K-19844-60-0-C

[1] May vary, depending on the material type and handle height

Contents (K-19844-50)	Piece(s)
DIRIGENT 4.0 interior L&S turn handle without PC hole-type	1
L&S flush pull	1
Fixed spindle square, with 50 mm projection (sash thickness 68–78 mm)	1

Contents (K-19844-60)	Piece(s)
DIRIGENT 4.0 interior L&S turn handle without PC hole-type	1
L&S flush pull	1
Fixed spindle square, with 60 mm projection (sash thickness 88–92 mm)	1

Note: The fixing screws must be ordered separately depending on the sash thickness.

Fixing screws

Versions/Order numbers			
Designation	ST [mm]	Length [mm]	Order number
M6 fixing screws	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

DIRIGENT 4.0 – interior L&S turn handle without PC hole-type

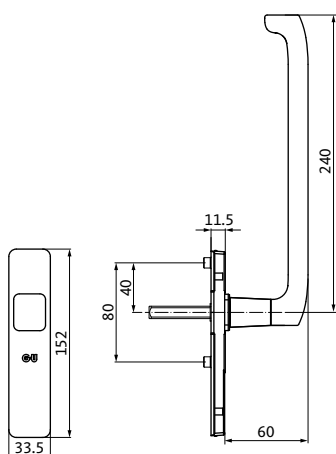
without flush pull



Product information

The Lift&Slide turn handle generation DIRIGENT 4.0 adapts to the design of our DIRIGENT door handle hardware and, with a large distance between the handle and PC cover, offers users outstanding operating comfort.

- High-quality stainless steel turn handle, interior, without PC hole
- Version with 10 mm fixed square with concealed fixing
- Distance between screw centres 80 mm
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Fixed backplate with friction washer
- Concealed screw connection
- Handle length 240 mm
- Handle height 78 mm



DIRIGENT 4.0 – interior L&S turn handle without PC hole-type without flush pull



L&S turn handles

Versions/Order numbers								
Designation	For sash thickness [mm]	Detent	Material	Specifications	Lockable		PU	Order no.
DIRIGENT 4.0 interior L&S turn handle without PC hole	68–78 [1]	180°	stainless steel	with lugs	no		1	K-19846-50-0-8

[1] May vary, depending on the material type and handle height

Contents	Piece(s)
DIRIGENT 4.0 interior L&S turn handle without PC hole-type	1
Fixed spindle square, with 50 mm projection (sash thickness 68–78 mm)	1

Note: The fixing screws must be ordered separately depending on the sash thickness.

Fixing screws

Versions/Order numbers			
Designation	ST [mm]	Length [mm]	Order number
M6 fixing screws	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

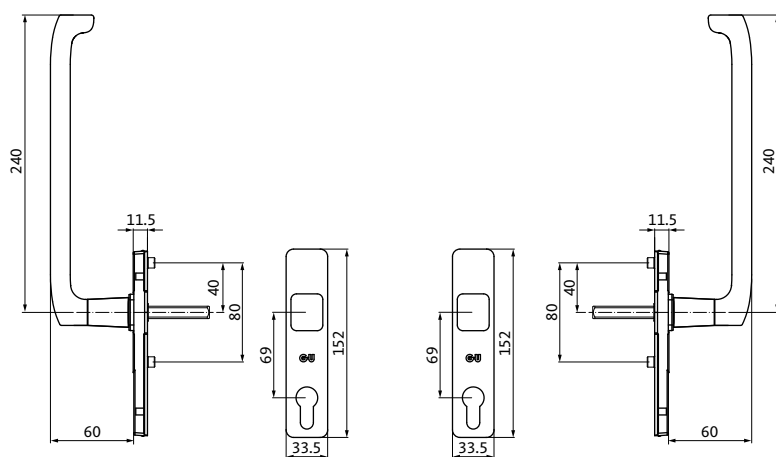
DIRIGENT 4.0 – interior/exterior L&S turn handle set with PC hole



Product information

The Lift&Slide turn handle generation DIRIGENT 4.0 adapts to the design of our DIRIGENT door handle hardware and, with a large distance between the handle and PC cover, offers users outstanding operating comfort.

- High-quality aluminium turn handles, interior and exterior, with PC hole
- Version with 10 mm fixed square with concealed fixing
- Distance between screw centres 80 mm
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Fixed backplate with friction washer
- Concealed screw connection
- Handle length 240 mm
- Handle height 78 mm
- **Note:** We recommend the use of a buffer – see pages 220 and 221



DIRIGENT 4.0 – interior/exterior L&S turn handle set with PC hole



L&S turn handles

Versions/Order numbers								
Designation	For sash thickness [mm]	Detent	Material	Specifications	Lockable	Finish	PU	Order number
DIRIGENT 4.0 interior/exterior L&S turn handle with PC hole	68–92 [1]	180°	aluminium	with lugs	yes	EV1 silver	1	K-20217-C0-0-1
						brown	1	K-20217-C0-0-5
						black	1	K-20217-C0-0-6
						white	1	K-20217-C0-0-7
						titanium colour	1	K-20217-C0-0-C
[1] May vary, depending on the material type and handle height								

Contents	Piece(s)
DIRIGENT 4.0 interior/exterior L&S turn handle set with PC hole	1
Fixed square spindle (sash thickness 68-92 mm)	1

Note: The fixing screws must be ordered separately depending on the sash thickness.

Fixing screws

Versions/Order numbers			
Designation	ST [mm]	Length [mm]	Order number
M6 fixing screws	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1
	90	95	9-13274-95-R-1
	92	100	9-13274-97-R-3

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

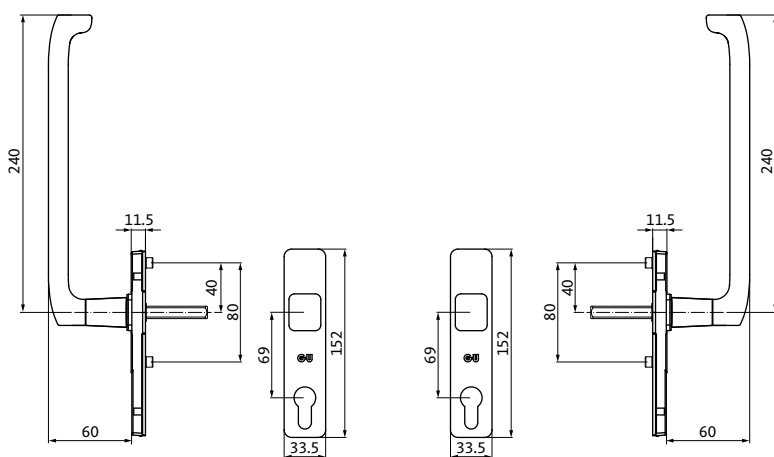
DIRIGENT 4.0 – interior/exterior L&S turn handle set with PC hole



Product information

The Lift&Slide turn handle generation DIRIGENT 4.0 adapts to the design of our DIRIGENT door handle hardware and, with a large distance between the handle and PC cover, offers users outstanding operating comfort.

- High-quality stainless steel turn handles, interior and exterior, with PC hole
- Version with 10 mm fixed square with concealed fixing
- Distance between screw centres 80 mm
- Suitable for use with all customary timber, PVC or aluminium Lift&Slide profile systems for up to 400 kg sash weight
- Fixed backplate with friction washer
- Concealed screw connection
- Handle length 240 mm
- Handle height 78 mm
- **Note:** We recommend the use of a buffer – see pages 220 and 221



L&S turn handles

Versions/Order numbers								
Designation	For sash thickness [mm]	Detent	Material	Specifications	Lockable		PU	Order number
DIRIGENT 4.0 interior/exterior L&S turn handle with PC hole	68–88 [1]	180°	stainless steel	with lugs	yes		1	K-19847-C0-0-8

[1] May vary, depending on the material type and handle height

Contents	Piece(s)
DIRIGENT 4.0 interior/exterior L&S turn handle set with PC hole	1
Fixed square spindle (sash thickness 68-88 mm)	1

Note: The fixing screws must be ordered separately depending on the sash thickness.

Fixing screws

Versions/Order numbers			
Designation	ST [mm]	Length [mm]	Order number
M6 fixing screws	68	75	9-13274-75-0-1
	78	85	9-13274-85-0-1
	88	95	9-13274-95-R-1

Drilling jigs

Versions/order numbers		
Drilling jigs	PU	Order no.
Drilling jig for the installation of turn handles – timber profiles	1	6-35524-00-0-1
Drilling jig for the installation of turn handles – PVC profiles	1	9-27272-00-0-0
Drilling jig for the installation of turn handles – aluminium profiles with Euro-groove	1	9-27272-01-0-0

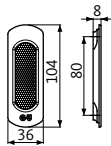
Accessories

L&S flush pull, round



Product information

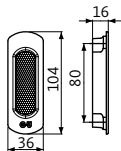
- High-quality flush pull made of stainless steel
- Distance between screw centres 80 mm
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16



L&S flush pull, stainless steel

Designation	GU logo	Overall depth	Specifications	Finish	PU	Order no.
L&S flush pull, round	yes	6 mm	without lugs	silver/EV 1 look	1	9-46686-00-0-1
				dark brown [1]	1	9-46686-00-0-5
				white, RAL 9016	1	9-46686-00-0-7
				stainless steel	1	9-46686-00-0-8
L&S flush pull, round	yes	6 + 3 mm	with lugs (3 mm)	stainless steel	1	9-46686-01-0-8

[1] Similar to RAL 8022



L&S flush pull, stainless steel

Designation	GU logo	Overall depth	Specifications	Finish	PU	Order no.
L&S flush pull, round	yes	14 mm	without lugs	stainless steel	1	9-39035-01-0-8
L&S flush pull, round	no	14 mm	without lugs	stainless steel	1	9-39035-02-0-8

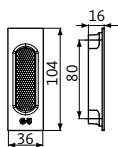
Accessories

L&S flush pull, square



Product information

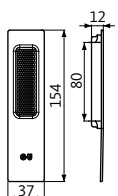
- High-quality flush pull made of stainless steel, aluminium or brass
- Distance between screw centres 80 mm
- Suitable for use with all customary Lift&Slide profile systems for up to 400 kg sash weight
- Durability test with 25 000 cycles in compliance with DIN 13126 part 16



L&S flush pull, stainless steel

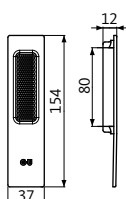
Designation	GU logo	Overall depth	Specifications	Finish	PU	Order no.
L&S flush pull, square	yes	14 mm	without lugs	stainless steel	1	9-42539-01-0-8
L&S flush pull, square	no	14 mm	without lugs	stainless steel	1	9-42539-02-0-8
Sec L&S flush pull square	no	12 mm	without lugs	silver/EV 1 look	1	9-29622-00-0-1
				dark brown [1]	1	9-29622-00-0-5
				white, RAL 9016	1	9-29622-00-0-7
				stainless steel	1	9-29622-00-0-8

[1] Similar to RAL 8022



L&S flush pull, stainless steel

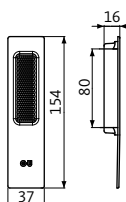
Designation	GU logo	Overall depth	Specifications	Finish	PU	Order no.
L&S flush pull, square	yes	10 mm	without lugs	stainless steel	1	9-42737-01-0-8
L&S flush pull, square	no	10 mm	without lugs	stainless steel	1	9-42737-00-0-8



L&S flush pull, aluminium

Designation	GU logo	Overall depth	Specifications	Finish	PU	Order no.
L&S flush pull MS, square	yes	10 mm	without lugs	silver/EV 1 look	1	9-29992-02-0-1
				dark brown [1]	1	9-29992-02-0-5
				white, RAL 9016	1	9-29992-02-0-7
L&S flush pull MS, square	yes	10 mm	without lugs	silver/EV 1 look	1	9-29992-01-0-1
				dark brown [1]	1	9-29992-01-0-5
				white, RAL 9016	1	9-29992-01-0-7
L&S flush pull, square	yes	14 mm	without lugs	silver/EV 1 look	1	9-29526-00-0-1
				dark brown [1]	1	9-29526-00-0-5
				white, RAL 9016	1	9-29526-00-0-7

[1] Similar to RAL 8022



L&S flush pull, brass

Designation	GU logo	Overall depth	Specifications	Finish	PU	Order no.
L&S flush pull MS, square	yes	14 mm	without lugs	brass	1	9-34957-00-0-B

Accessories

Service handle, cover rosette



DIRIGENT service handle

Versions/order numbers			
Designation	Finish	PU	Order no.
DIRIGENT service handle Handle length 240 mm	silver/EV 1 look	1	6-24619-00-0-1
	dark brown [1]	1	6-24619-00-0-5
	white, RAL 9016	1	6-24619-00-0-7
[1] Similar to RAL 8022			



Interior cover rosette
without PC hole

Versions/order numbers			
Designation	Finish	PU	Order no.
Interior cover rosette without PC hole	silver/EV 1 look	1	6-23243-01-0-1
	dark brown [1]	1	6-23243-01-0-5
	white, RAL 9016	1	6-23243-01-0-7
[1] Similar to RAL 8022			



Interior cover rosette
with PC hole

Versions/order numbers			
Designation	Finish	PU	Order no.
Interior cover rosette with PC hole	silver/EV 1 look	1	6-23243-02-0-1
	dark brown [1]	1	6-23243-02-0-5
	white, RAL 9016	1	6-23243-02-0-7
[1] Similar to RAL 8022			



Exterior cover rosette

Versions/order numbers			
Designation	Finish	PU	Order no.
Exterior cover rosette	silver/EV 1 look	1	9-29527-00-0-1
	dark brown [1]	1	9-29527-00-0-5
	white, RAL 9016	1	9-29527-00-0-7
[1] Similar to RAL 8022			



Set of cover discs

Versions/order numbers			
Designation	Finish	PU	Order no.
Set of cover discs	silver/EV 1 look	1	K-17481-00-0-1
	dark brown [1]	1	K-17481-00-0-5
	white, RAL 9016	1	K-17481-00-0-7
Contains: 1 x cover disc, 1 x bushing, fixing screws			
[1] Similar to RAL 8022			

Accessories

Gasket plates



Gasket plate for exterior and interior turn handle

The optional gasket plate which is universally applicable for all handle models provides increased tightness, especially in Blower Door Tests. The profile cylinder insert is removable so the gasket ensures optimal sealing for all handle variants.

Versions/order numbers			
Designation	Finish	PU	Order no.
Gasket plate for turn handle	black	1	9-47210-01-0-6



Gasket plate for flush pull

The optional gasket plate which is universally applicable for all flush pulls provides increased tightness, especially in Blower Door Tests. The adaptable gasket plate ensures optimal sealing for all flush pull models.

Versions/order numbers			
Designation	Finish	PU	Order no.
Gasket plate for flush pull	black	1	9-47211-01-0-6



Square spindles

The length of the optional square spindles must be determined depending on the follower square size of the lock case. Wrongly dimensioned or short square spindles are not permissible as they cause damage to the window gear and the turn handle.

Versions/order numbers					
Designation	ST [mm]	Interior turn handle / exterior flush pull / exterior cover rosette		Interior/exterior turn handle set	
		Length [mm]	Order no.	Length [mm]	Order no.
Square spindle 10 mm	56	80	9-24377-40-0-1	145	9-24377-96-0-1
	68	80	9-24377-40-0-1	145	9-24377-96-0-1
	78	80	9-24377-40-0-1	145	9-24377-96-0-1
	88	90	9-24377-50-0-1	145	9-24377-96-0-1
	90	90	9-24377-50-0-1	145	9-24377-96-0-1
	92	90	9-24377-50-0-1	150	9-24377-15-0-1
	110	100	9-24377-60-0-1	170	9-24377-18-0-1

Versions/order numbers			
Designation	ST [mm]	Length [mm]	Order no.
Square spindle 8 mm	up to 88	90	9-30482-90-0-1
	> 88	150	9-30482-96-0-1



Spindle sleeve

to convert a 8 mm square size spindle to 10 mm

Versions/order numbers		
Designation	PU	Order no.
Spindle sleeve	1	9-43986-00-0-1

Accessories

Fixing screws



Fixing screws

The approved Lift&Slide handles must be screwed into the mounting thread of the gear lock case using 2 metric screws M6 x length. Make sure that the full length of the threads is used. Fastening the handles on the sash using screws for timber constructions is not permitted.

Versions/order numbers					
Designation	ST [mm]	Interior turn handle / exterior flush pull / exterior cover rosette		Interior/exterior turn handle set	
		Length [mm]	Order no.	Length [mm]	Order no.
Fixing screw M6	56	65	9-13274-65-0-1	80	9-13274-80-0-1
	68	75	9-13274-75-0-1	80	9-13274-80-0-1
	78	85	9-13274-85-0-1	90	9-13274-90-0-1
	88	95	9-13274-95-R-1	100	9-13274-97-R-3
	90	95	9-13274-95-R-1	100	9-13274-97-R-3
	92	100	9-13274-97-R-3	100	9-13274-97-R-3
	110	110	9-13274-98-R-3	125	9-13274-96-R-1







Lift&Slide hardware

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L&S bogie, Lift&Slide gears

Installation dimensions, drilling dimensions, milling dimensions	365
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L&S turn handles and flush pulls

Materials and finishes	366
Drilling-hole patterns and dimensions	367

List of abbreviations

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Lift&Slide hardware

Product information



Applications

With Lift&Slide hardware from Gretsch-Unitas, it is possible to produce Lift&Slide elements as

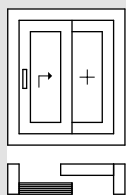
- Lift&Slide doors in 2- to 6-part versions and
- Lift&Slide windows in 2- to 6-part versions

Sash configuration according to patterns A to L

The patterns to be implemented are system-dependent.

In Chapter 1.0 | System overviews for aluminium Lift&Slide elements, you will find the respective, possible patterns for all the systems.

Sash configurations

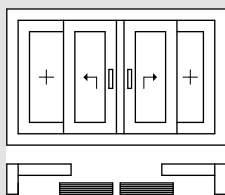


Pattern A

1 Lift&Slide door

1 Fixed-glazed sash

Fig.: sliding direction to the right

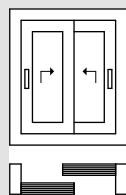


Pattern C

2 Lift&Slide doors

2 Fixed-glazed sashes

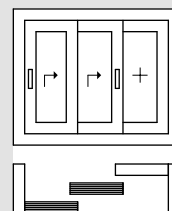
Fig.: sliding direction to the right and left



Pattern D

2 Lift&Slide doors

Fig.: sliding direction to the right and left

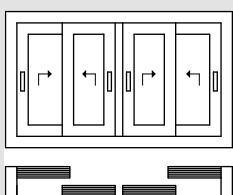


Pattern E

2 Lift&Slide doors

1 Fixed-glazed sash

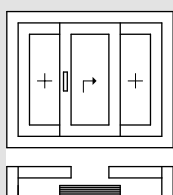
Fig.: sliding direction to the right



Pattern F

4 Lift&Slide doors

Fig.: sliding direction to the right and left

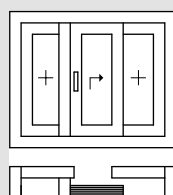


Pattern G1 symmetrical

1 Lift&Slide door

2 Fixed-glazed sashes

Fig.: sliding direction to the right



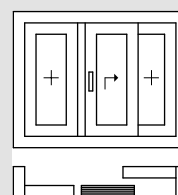
Pattern G2 asymmetrical

With fixed mullion

1 Lift&Slide door

2 Fixed-glazed sashes

Fig.: sliding direction to the right

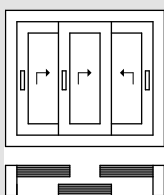


Pattern G3 symmetrical

1 Lift&Slide door

2 Fixed-glazed sashes

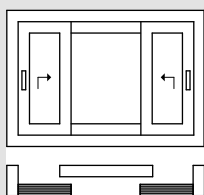
Fig.: sliding direction to the right



Pattern H

3 Lift&Slide doors

Fig.: sliding direction to the right and left

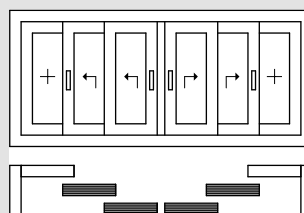


Pattern K

2 Lift&Slide doors

1 Fixed-glazed sash

Fig.: sliding direction to the right and left

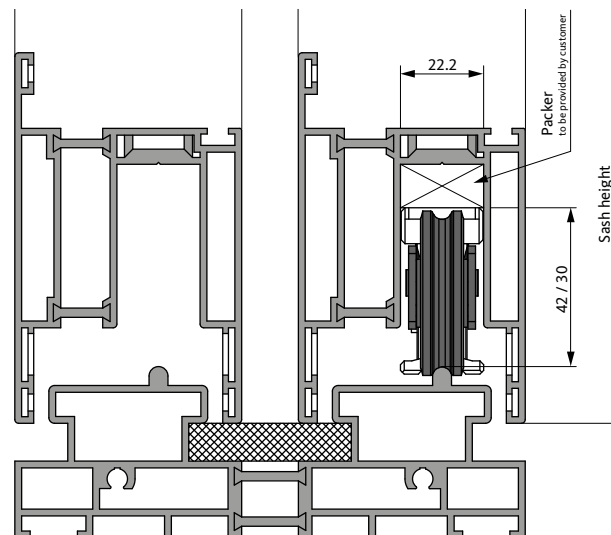
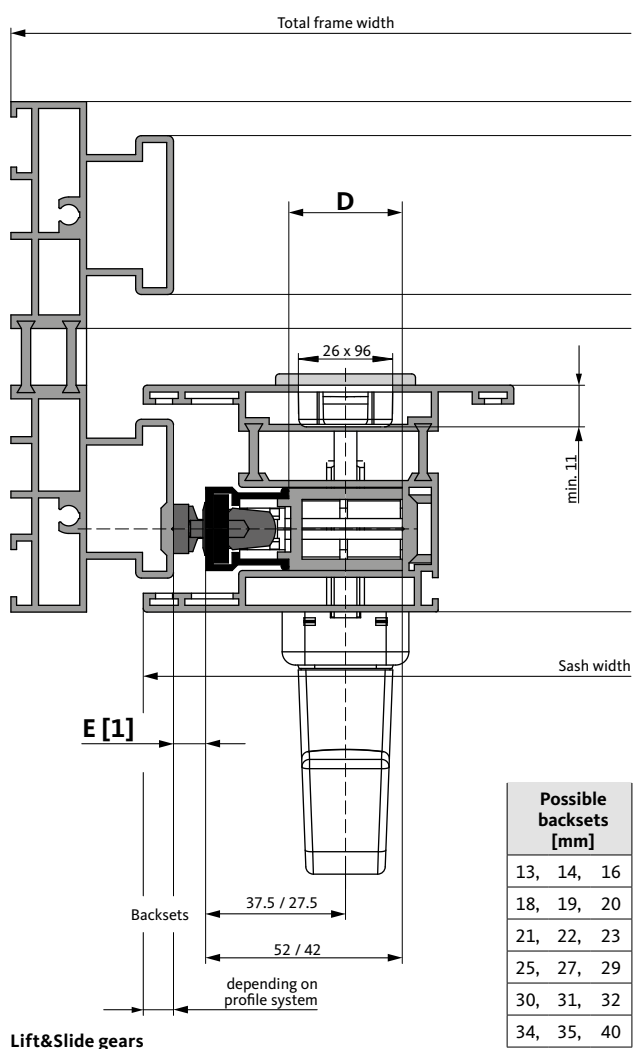


Pattern L

4 Lift&Slide doors

2 Fixed-glazed sashes

Fig.: sliding direction to the right and left

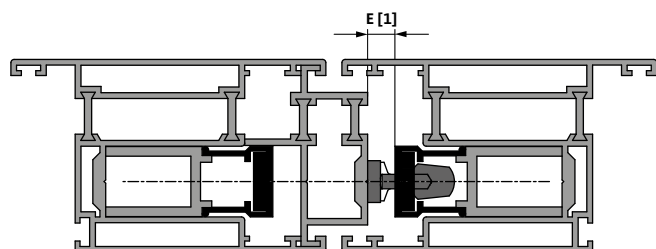


L&S bogie GU-934 / GU-937

Installation heights

GU-934 = 42 mm

GU-937 = 30 mm



Sash locking at the meeting stile with pattern C and F

[1] Details of Dimension E for specific profiles can be found in Chapter 2.0 "Individual parts overviews for Lift&Slide hardware" on pages 216 and 217.

L&S turn handles

Materials and finishes



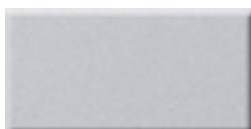
RONDO series



BELCANTO series



DIRIGENT series



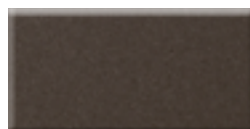
Silver / EV 1 look

With its cool, slightly reflective finish, the silver/EV 1 look offers the perfect complement to modern interiors. The robust finish is also impressive owing to its high impact- and scratch-resistance.



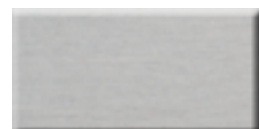
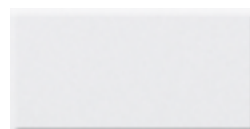
Solid brass

One of the outstanding versions of Lift&Slide turn handles is the brass cast made of solid metal. This important hardware is characterized in long-term use by its excellent corrosion resistance and its extremely low maintenance requirements.



Dark brown (similar to RAL 8022) White (RAL 9016)

Gretsch-Unitas creates ideally resistant surfaces – even in various different RAL colour shades – through product-specific coating procedures, which are characterized by a high-quality appearance and a particularly long service life.



Satin stainless steel

The satin stainless steel finish is particularly durable, which makes it an ideal alternative to other surface finishes.

Finish: 9 – more finishes available on request

Our turn handles are also available in various special colours on request. Individual design solutions and colour concepts can therefore be realised harmoniously throughout the entire building thanks to the expertise of Gretsch-Unitas.

Variety of profile cylinders

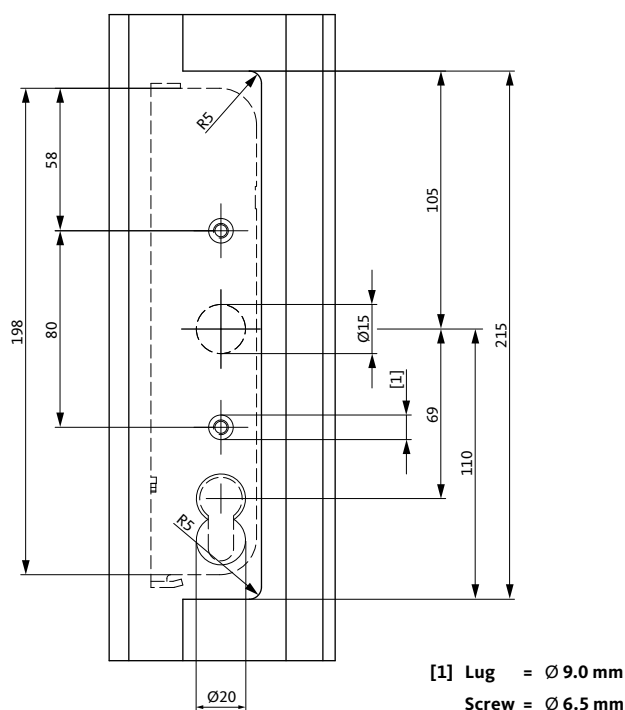
Delivery can be completed with compatible profile cylinders from the BKS locking cylinder range. Swiss round cylinders (CH-RC hole-type) round off the range.



The turn handles and flush pulls for Lift&Slide elements are available in various materials and finishes. The turn handle range is rounded off with turn handles for actuation on both sides and variants with a CH-RC hole-type, as well as special versions.

Choose the right solution for you from our RONDO, BELCANTO and DIRIGENT series.

Drilling and milling dimensions for installation in the sash



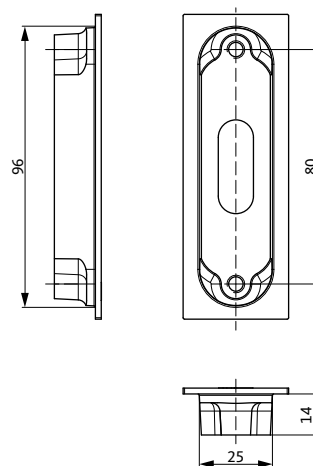
Drilling-hole pattern for turn handle

Drilling jig

The corresponding drilling jig can be found in Chapter 3.0 Drilling jigs and auxiliary tools on page 229.

Drilling and milling pattern for flush pull

The milling depth depends on the overall depth of the flush pull. Depending on the version, the milling depth varies between 6 and 14 mm.



List of abbreviations



List of abbreviations	
CH-RC	Swiss round cylinder
FGSW	Fixed-glazed sash width
FW	Frame profile width
HD	Handle distance
IFW	Interior frame width
LD	Length of drive case
PC	Profile cylinder
PU	Packing unit
RT	Roller track
SD	Sash distance
SH	Sash height
ST	Sash thickness
SW	Sash weight
SW	Sash width
TFH	Total frame height
TFW	Total frame width
WR	Width of reveal





Indication character of the technical information, exclusion of liability

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