

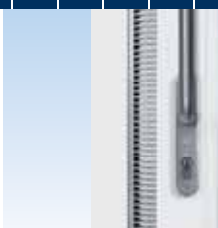


WINDOW TECHNOLOGY
DOOR TECHNOLOGY
AUTOMATIC ENTRANCE SYSTEMS
BUILDING MANAGEMENT SYSTEMS



TIMBER, PVC, AND ALUMINIUM WINDOWS AND BALCONY-DOORS

The Lift&Slide hardware range



Securing technology for you



Modular System of Lift&Slide hardware

State-of-the-art solutions for individual requirements



Courtesy of photographer Oliver Schuster, D-Stuttgart, pages 1, 2, 4, 14

Tradition obliges – setting the highest design and quality standards

Gretsch-Unitas Group

In 1958, Gretsch-Unitas was the first company to develop and launch a Lift&Slide system. This technical innovation shaped a market trend and set standards with regard to profile geometry, function, and quality which still apply today.

Innovation for more than 50 years

As a result of the consistent further development of Lift&Slide hardware to suit market requirements, a multitude of top-quality hardware solutions including profile system-related variants is available today for all customary joinery materials.

Lift&Slide systems – more than just hardware

With their Lift&Slide hardware, GU offer a modular system allowing to fulfil the individual demands of end users with regard to safety, convenience, and functionality. The modular system also provides state-of-the-art upgrades of Lift&Slide elements existing already.

System solutions for individual requirements

In accordance with our declared system approach, we ensure that for each profile system an individual, market-conform hardware solution can be offered in the form of a complete CE-certified system. In its capacity as system supplier for timber elements, Gretsch-Unitas is in a position to pursue completely new paths and to meet all market requirements.

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Optimum adaptation to profile systems through choice of thresholds	



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Lift&Slide elements creating space and translucence

Safe and convenient living areas



Outstanding operating convenience and functionality leave nothing to be desired

The classic Lift&Slide elements with hardware from Gretsche-Unitas have always provided for well-lit rooms and a pleasant living atmosphere.

The Group of Companies presents a new generation of hardware meeting any demands when it comes to convenient operation, burglar inhibition and variable room ventilation.

'Simple, fast, safe' is the name of the game when it comes to window and door fabrication. The fabricator-friendly design of the hardware components, the versatile range of installation accessories as well as the elaborate technical documentation enable products from Gretsche-Unitas to be installed easily and safely in no time.

Product overview						
	Timber				PVC/Aluminium	PVC/Aluminium
Type of element	GU-934 door	GU-934 window	GU-937 door	GU-937 Window	GU-934 door/window	GU-937 door/window
Sash weight in kg	up to 300*	up to 300*	up to 150***	up to 150*	up to 300*	up to 150*
Sash width, mm	700 – 3300	700 – 3300	700 – 3300	700 – 3300	depending on profile system	depending on profile system
Sash height, mm	1851 – 3250 **	850 – 1865	1851 – 3250 **	850 – 1865	depending on profile system	depending on profile system
Number of sashes	2 to 6	2 to 4	2 to 6	2 to 4	2 to 4	2 to 6
* With tandem bogie up to 400 kg. Maximum of 600 kg upon request. ** With gear extension 3750 mm upon request *** With tandem bogie up to 200 kg						

All hardware variants boast the following features:

- Outstandingly smooth and quiet movement of sliding sashes
- Delightfully easy operation even of large and heavy sashes thanks to the perfect interplay of functional components such as bogies, drive gear and turn handle
- Wide range of accessories to enhance your home comfort
- Gears for sash heights up to 3250 mm, 3750 mm on request
- Optimum thermal break in the bottom area achieved with the GU-thermostep 204 threshold
- Alternative threshold solutions requiring a minimum of material input allow for a wide range of applications
- High burglar inhibition as a standard due to rugged hardware components
- Tested burglar inhibition achieved with optional security components
- Optimum protection against corrosion with the surface sealing ferGUard*silver
- Turn handles for comfortable operation in different materials and appealing designs

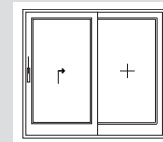
CE marking for windows and balcony-doors:

At our premises we provide fabricators with the possibility of acquiring the prerequisites needed for the CE marking of timber windows and balcony-doors. For further details please call +49 (0) 71 56 3 01-2 08.

Sash configuration patterns A to L

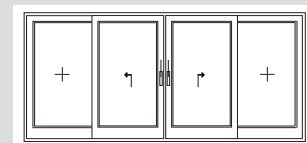
Pattern A

1 Lift&Slide sash,
1 fixed-glazed sash;
Fig.: sliding direction to the right



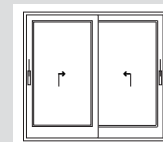
Pattern C

2 Lift&Slide sashes,
2 fixed-glazed sashes;
Fig: sliding direction to the right and left



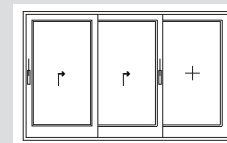
Pattern D

2 Lift&Slide sashes,
Fig: sliding direction to the right and left



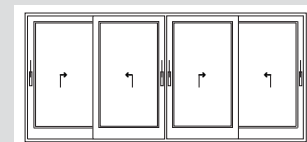
Pattern E

2 Lift&Slide sashes,
1 fixed-glazed sash;
Fig.: sliding direction to the right



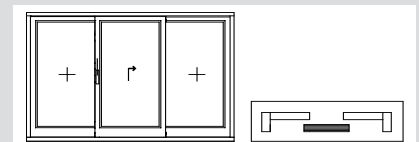
Pattern F

4 Lift&Slide sashes,
Fig: sliding direction to the right and left



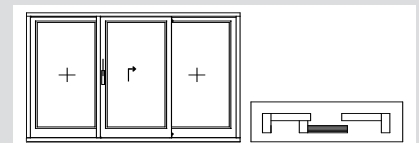
Pattern G1 symmetrical

1 Lift&Slide sash
2 fixed-glazed sashes
Fig.: sliding direction to the right



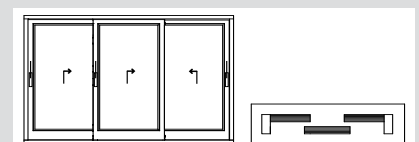
Pattern G2 asymmetrical

With fixed mullion
1 Lift&Slide sash
2 fixed-glazed sashes
Fig.: sliding direction to the right



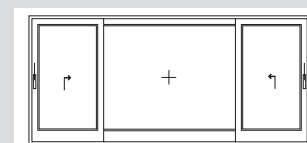
Pattern H

3 Lift&Slide sashes,
(like pattern G1 symmetrical)
Fig: sliding direction to the right and left



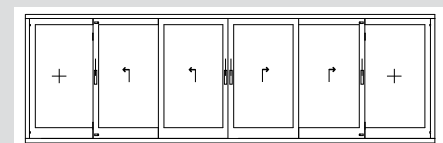
Pattern K

2 Lift&Slide sashes,
1 fixed-glazed sash;
Fig: sliding direction to the right and left



Pattern L

4 Lift&Slide sashes,
2 fixed-glazed sashes;
Fig: sliding direction to the right and left



Basics

Turn handles – versatile handle variants in a classical design



Turn handles in appealing designs for convenient operation

For operating Lift&Slide elements, the following handle variants from our series DIRIGENT, RONDO and BELCANTO are available:

- Interior handle, optionally lockable, with profile cylinder or Swiss round cylinder hole
- Interior handle, removable version
- Interior/exterior handle set, optionally lockable on both sides, with profile cylinder or Swiss round cylinder hole

Easy retrofitting:

All existing handles can be exchanged for a new and different handle model at any time!



DIRIGENT series

Interior handle with PC hole,
extended exterior flush pull



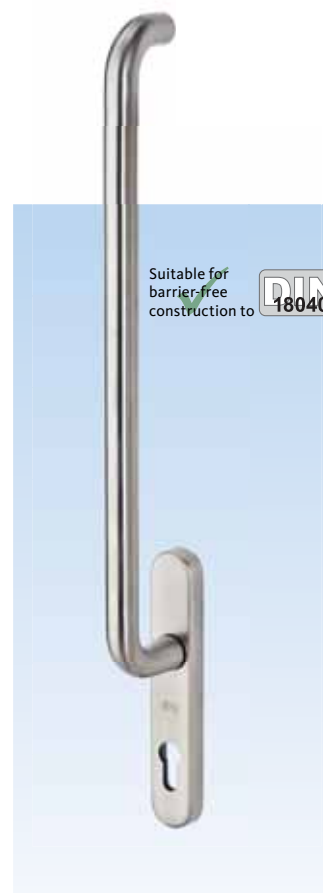
BELCANTO series

Interior handle with PC hole,
exterior flush pull



RONDO series

Interior handle with PC hole,
exterior flush pull



RONDO series

Interior handle with PC hole,
extended handle to reduce
operational forces



Finish: 1

Silver / EV1 look

With its cool, slightly reflective finish, the silver/EV1 look offers the perfect complement to modern interiors. This robust finish stands out thanks to its high impact- and scratch-resistance.



Finish: 8

Matt stainless steel

The matt stainless steel finish is particularly durable, making it an ideal, environmentally friendly alternative to other surface coatings.



Finish: 7

White (RAL 9016)

Thanks to product-specific coating processes, GU achieves optimum resistant finishes with particularly long-lasting durability, also in various RAL tones.



Finish: 3

Solid brass

One of the outstanding features of the Lift&Slide handles is that they are cast from solid brass. The hardware is corrosion-resistant, highly durable, and hardly needs any care.

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 thus be realised throughout the entire building.

Variety of profile cylinders

Delivery can be completed with compatible profile cylinders from the BKS locking cylinder range.



Energy-efficiency, barrier freedom, optimum adaptability

The new thermally-broken GU-thermostep 204 threshold saves a considerable amount of energy as it substantially reduces the thermal flow in the bottom area of Lift&Slide elements.

The thresholds are, of course, suited for use with all timber systems and market-leading PVC systems and different sash arrangement patterns. The adaptation to the different profile systems is achieved with individually shaped components.

- Identical threshold base for timber and PVC doors
- The complete outside (weathering side) is protected by an aluminium profile
- Flexible modular system: threshold, variety of drip rails and roller tracks for snap-in attachment
- All roller tracks can be exchanged subsequently
- Anti-moisture foil attached directly to the drip rail
- Suitable for 'Accessible Dwellings' to DIN 18040



Modular design for alternative solutions

For each particular profile system, the modular threshold design enables the use of the same corner connector and accessories regardless of which of the threshold types shown on page 9 is used.

- Roller tracks can be exchanged subsequently
- Due to small heights especially useful in the context of reusing existing buildings.

Innovative GU-thermostep 204

With the new GU-thermostep 204 threshold, Gretsich-Unitas demonstrate their competence as system partner for Lift&Slide element fabricators: new extension profiles are attached flush with the threshold so that threshold and frame form a continuous, plane surface on the inside and outside of the element. This provides optimum tightness.

Threshold types

Suitable for	Timber profile, sash thickness							PVC profile	Height
	56 mm	68 mm	78 mm	88 mm	90 mm	92 mm	110 mm		
GU-thermostep 164	■	■	■	■	■	■	■	■	67 mm
GU-thermostep 204	-	-	■	■	■	■	■	■	68 mm
GU-threshold 47	■	■	-	-	-	-	-	■	47 mm
GU-flatstep 164	■	■	-	-	-	-	-	■	22 mm
GU-flatstep 222	-	-	-	■	■	■	-	■	24 mm
GU-timberstep 164	■	■	-	-	-	-	-	-	22 mm
GU-timberstep 204	-	-	■	■	■	■	-	■	22 mm

Lift&Slide bogies – the new easiness

Gretsich-Unitas Lift&Slide bogies convince with a well-conceived design and outstanding product quality. They guarantee ease of operation and comfortable running smoothness throughout the whole application range.

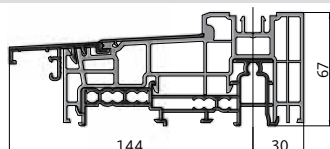


GU-934 Lift&Slide bogie with ferGUard*silver finish

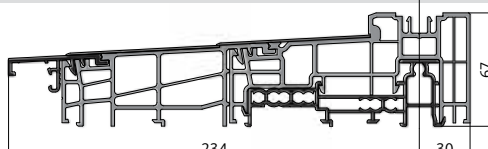
GU-934 Lift&Slide bogie with ferGUard*silver finish



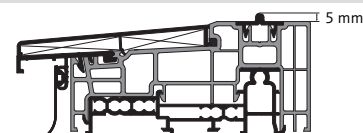
GU-937 Lift&Slide bogie with ferGUard*silver finish



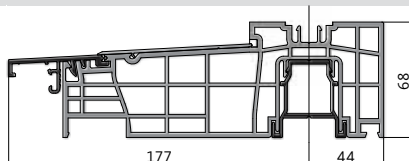
GU-thermostep 164 IV 56 up to IV 68



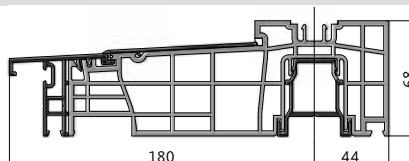
GU-thermostep-164 up to IV 110



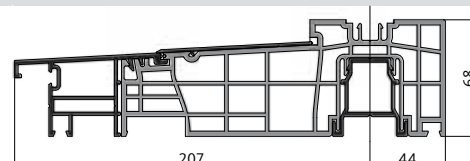
Example: GU-thermostep 164 with 5 mm roller track, COMFORT profile and anti-moisture foil



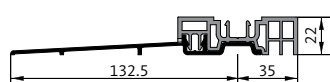
GU-thermostep 204 IV 78



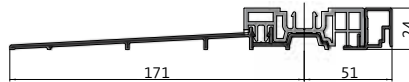
GU-thermostep-204 IV 88 up to IV 92



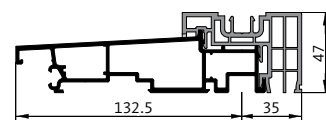
GU-thermostep-204 up to IV 110



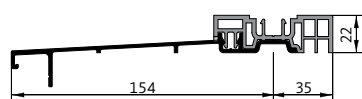
GU-flatstep 164



GU-flatstep 222



GU-threshold 47



GU-timberstep 164



GU-timberstep 204

Application range

Pattern											Roller track			Meeting stile			
A	C	D	E	F	G1	G2	G3	H	K	L	5 mm	10 mm	15 mm	10 mm	22 mm	25 mm	28 mm
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
■	■	■	-	-	■	■	■	■	■	-	■	■	■	■	■	■	■
■	■	■	-	■	■	■	■	■	■	-	■	■	■	■	-	-	■
■	■	■	-	■	■	■	■	-	■	-	■	■	■	■	-	-	■
■	■	■	-	-	■	■	■	-	■	-	■	■	■	■	■	■	■
■	■	■	-	■	■	■	■	-	■	-	■	■	■	■	-	-	■
■	■	■	-	-	■	■	■	-	■	-	■	■	■	■	■	■	■

Lift&Slide gear – Precision and quality

Gretsch-Unitas Lift&Slide gears stand out due to maximum load-bearing capacity and durability. Their design has been optimised throughout decades and sets the standard in the market.

Lift&Slide gear BS 37.5 mm

Frame cam position

SKG** approval

Security

Enhancing the security of Lift&Slide elements



Upgrade your Lift&Slide element to meet your individual security requirements!

Insufficiently secured windows and doors make it easy for unwelcome visitors to intrude into your home. Windows and doors constitute the weak spots in a building unless they are fitted with adequate security components.

Half of all burglar attempts made on window and door elements with robust security hardware are abandoned within a few minutes. The police therefore recommend burglar inhibiting hardware as the most efficient safeguard against housebreakers.

The choice of security components shown below will make your Lift&Slide elements comply with today's security requirements, regardless of whether it is in the context of new construction or reuse of existing buildings.

1. Anti-jemmy device

2. Locked status monitoring device

3. Sec lever handle, lockable

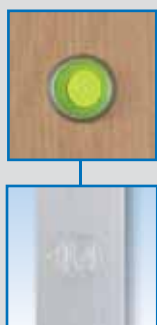
4. Bottom keeper

5. Sec sealing profile

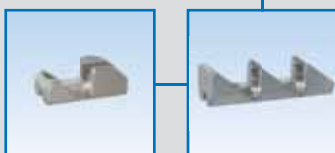
1 Anti-jemmy device

protects the sash from being jemmied and lifted by force

2 Magnetic switch for locked status monitoring
Lift&Slide gears with mark for magnetic switch can be upgraded easily.



3 Sec turn handle, Lift&Slide gear, lockable with cylinder
Handle set for interior and exterior locking can be retrofitted at any time as the Lift&Slide gear is prepared for profile cylinder as standard.



4 Bottom keeper
allows for different ventilation positions of the sash (for night ventilation with special night-vent frame cams).

Additional information about renovation can be found in our brochure "Making renovation a piece of cake – timber Lift&Slide elements"

5 Sec meeting stile gasket strip

The Sec meeting stile gasket strip provides enhanced burglar inhibition: robust aluminium profiles engaging into one another prevent the sashes from being jemmied by force.



Lift&Slide night vent module, RC 2 tested

One-piece module that locks the sash over its entire height also in ventilation position.

Lift&Slide night vent module

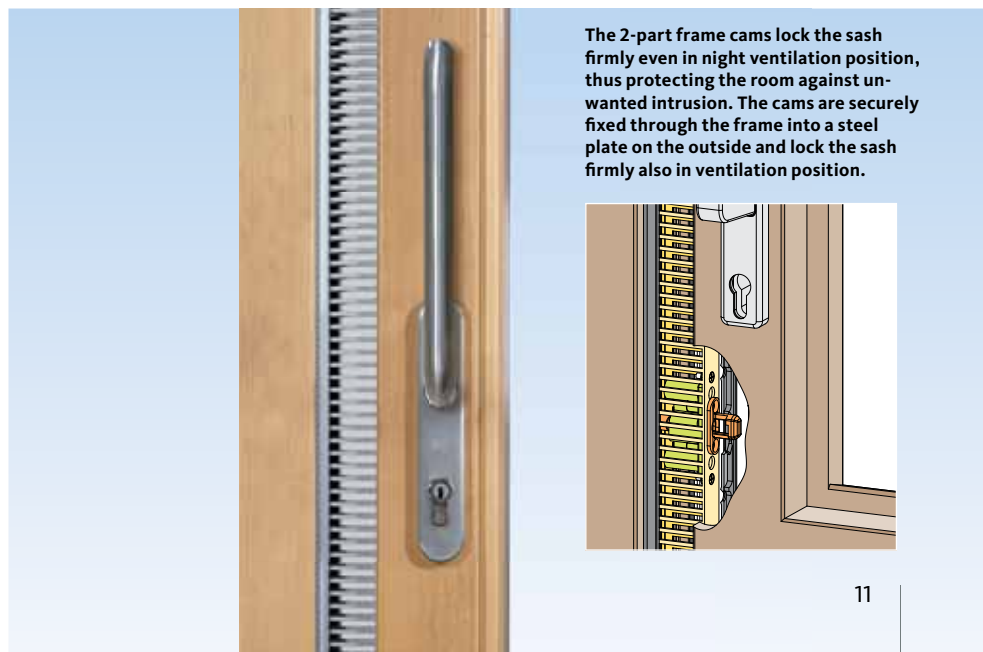
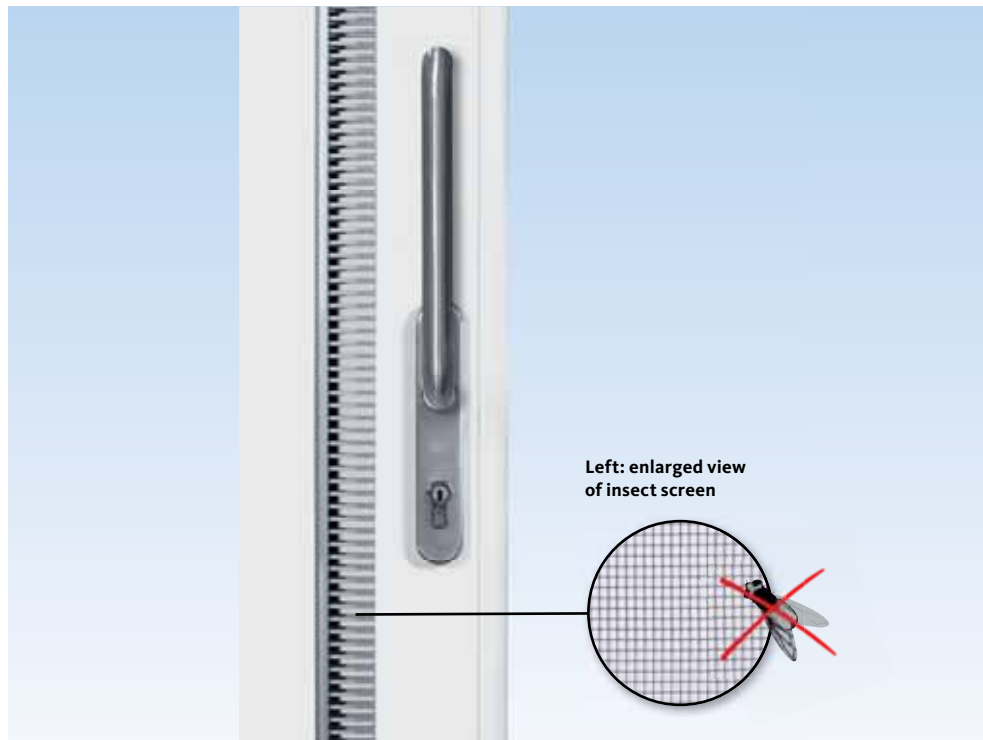
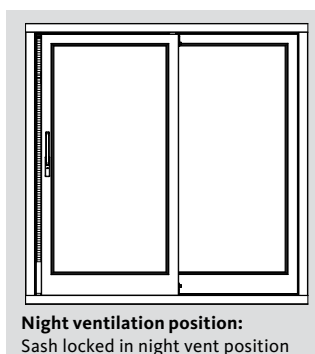
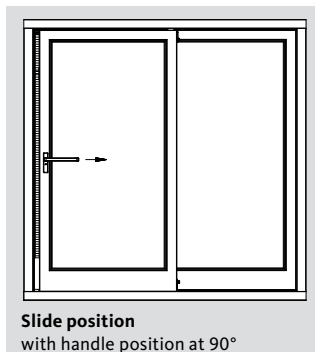
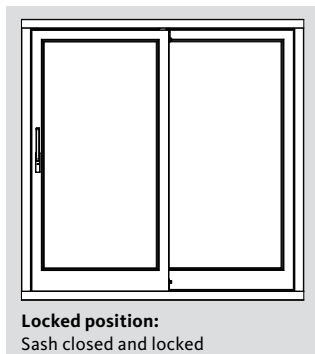
With the Lift&Slide night vent module, a system has been developed which at the same time offers optimum ventilation comfort and high burglar protection. Elements fitted with a Lift&Slide night vent module are

- securely locked even in ventilation position
- tested to ENV 1627 for burglar resistance class RC 2 (also in ventilation position)

Other features:

The L&S night vent module can be retrofitted in existing GU-934 and GU-937 Lift&Slide units (timber and various PVC systems) with minimal effort.

- Ventilation grid profile made of anodised aluminium, with integral insect mesh
- Gasketing against upper frame and threshold with optimally adapted connectors



Convenience

Easy, motor-driven opening and closing



HS-Master concealed for timber and aluminium elements



HS-Master pattern A (left) and HS-Master pattern C (right)

HS-Master CONCEALED Lift&Slide system – electric drive concealed in the profile

A highlight in our range of motor-driven Lift&Slide hardware is the new HS-Master CONCEALED type which is installed in the profile.

An exceptional feature of this system is that the drive unit is completely integrated into the frame profile. This was only possible by positioning the linkage at the same vertical level as the drive gear. The linkage itself disappears in the sash profile.

- Meets the highest demands with regard to appearance and design
- The system including all safety components is tested by DEKRA.
- Suitable for 'Accessible Dwellings' to DIN 18040
- Tailor-made and preassembled unit
- Same easy operation as with the standard HS-Master
- Technical design and function correspond to those of the standard HS-Master

Suitable for barrier-free construction to



HS-Master Lift&Slide system – electric drive attached to the frame

Tried-and-tested Lift&Slide hardware combined with modern drive technology – the HS-Master, suitable for use with timber, PVC and aluminium elements, meets the demand for comfortable living and allows for solutions in compliance with DIN 18040 ('Accessible Dwellings').

With the proven HS-Master technology, all sash movements (lifting, sliding to the desired opening width, closing) are motor-driven whilst the sash is free of current and cables.

The HS-Master drive features a standard limit switch and is tested by DEKRA. Sophisticated safety technology guarantees for outstandingly safe operation. The HS-Master can be optionally retrofitted with additional safety devices.

Recommended for use in hospitals, retirement and care homes, handicapped facilities and kindergartens. The system is operated by

- wall switch/key switch
- radio remote control
- Push & Go
- turn handle

Easy retrofitting to existing GU-934 Lift&Slide elements.

Suitable for barrier-free construction to



Lift&Slide hardware	
Application range	
	HS-Master pattern A
Sash weight (kg)	up to 300
Sash width (mm)	1200 – 3300
Sash height (mm)	1840 – 2765

Lift&Slide hardware		
Application range		
	HS-Master pattern A	HS-Master pattern C
Sash weight (kg)	up to 300	up to 300
Sash width (mm)	950 – 3300	950 – 3300
Sash height (mm)	1855 – 2765	1855 – 2765



The HS-SPEED *Limiter* is discreetly concealed under a cover profile.



Thanks to its mature safety technology, the HS-SPEED *Limiter* excludes the risk of injuries that might occur when heavy sliding sashes are moved. The picture shows a transparent cover revealing the mechanism.

Lift&Slide element with HS-SPEED *Limiter*

When a large and heavy Lift&Slide element is opened or closed, the sash gains momentum due to the built-up kinetic energy and can only be slowed down with difficulty.

The HS-SPEED *Limiter* prevents the sliding sash from accelerating too fast, thus avoiding personal injury and damage to the structure.

The system is therefore especially suited for buildings with enhanced safety requirements, for children's facilities such as, e.g., elementary schools and kindergartens, and for all public facilities subject to any accident prevention regulation.

Furthers benefits:

- No restriction of the usual ease of use
- Simple installation
- Retrofittable
- Suitable for elements of timber, PVC, and aluminium

HS-SPEED *Limiter* for lift-slide element GU-934 / GU-937

Application range		
	GU-934	GU-937
Max. sash width	3300 mm	2200 mm
Max. sash height	2765 mm	2765 mm
Max. sash weight	400 kg	200 kg

For sash arrangement schemes A, C, G and K.

Renovation

Making renovation a piece of cake – concept & solutions



Yesterday



Today

State-of-the-art upgrade of Lift&Slide elements – safe, easy, and fast

How to make a Lift&Slide element function again as if it were new and perform a state-of-the-art upgrade at the same time is explained in a separate Gretsch-Unitas Group brochure concerned with renovation.

With regard to convenience, safety and functionality, there are numerous ways to upgrade old Lift&Slide elements to meet the requirements of today. With our renovation initiative we furthermore intend to provide fabricators with the possibility to acquire successive orders.

We provide special documentation helping fabricators to convert their end user customers to our modular Lift&Slide renovation system which spares them dirty and noisy demolition or plastering work.

Convenience and stylishness

- Lift&Slide gear
- Bogies
- GU thresholds
- Turn handles
- Motor-driven Lift&Slide hardware
- **HS-Master**
- **HS-SPEED Limiter**

Security

- Anti-jemmy device
- Locked status monitoring
- Bottom keeper
- Sec turn handles
- Sec meeting stile gasket strip

Functionality

- Lift&Slide gear
- Bogies

Barrier freedom

We remove barriers for you – all about barrier-free Lift&Slide doors from a single source

Keyword 'tension spring for gears': reduced operational forces for easy operation.



- Turn handle 400 mm
- Tension spring for gears (see fig.)
- COMFORT profile for thresholds
- HS-*Master*

Burglar protection

Upgrade your Lift&Slide element to meet your individual security requirements.

Keyword 'anti-jemmy device': prevents the sash from being jemmied and lifted in its closed position.



- Sec centre-closer
- Anti-jemmy device (see fig.)
- Anti-drill plate for gear
- Locked status monitoring
- L&S meeting stile security profile

Child safety

Safe operation of large and heavy elements.

Keyword 'handle dampener': for controlled sash-lowering without rebound of the handle.



- HS-*SPEED Limiter*
- Handle dampener for controlled lowering of the sliding sash (see fig.)

Design

Trendsetting design with unrestricted functionality.

Keyword 'concealed P 1850 guide track': concealed, safe guidance of the sliding sash.



- LED lighting
- Stainless steel turn handle
- Concealed P 1850 guide track (see fig.)

Ventilation

Comfortable ventilation systems to meet individual requirements

Key word 'L&S night vent': comfortable ventilation and burglar protection in one system.



- Bottom keeper and night vent frame cam
- Lift&Slide night vent module (see fig.)
- Humidity-sensitive ventilators



WINDOW TECHNOLOGY
DOOR TECHNOLOGY
AUTOMATIC ENTRANCE SYSTEMS
BUILDING MANAGEMENT SYSTEMS

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Securing technology for you

