Lift-slide hardware
Lift-Slide Hardware for Wood Windows and Doors

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Product Liability Guidelines

According to the defined manufacturer's liability described in paragraph 4 of the German "product liability law", the following information regarding sliding hardware for window and patio door sashes should be observed. Non-compliance exempts the manufacturer of his liability.

1. Product information and specified application

Sliding hardware as covered by this definition is hardware for sliding sashes of patio doors and windows, mainly used as glazed exterior structures. Fixed glazed units and/or further sashes i.e. side hung sashes for cleaning purposes can be situated in a window element in combination with the sliding sashes.

Sashes equipped with this sliding hardware are capable of:

- sliding,
- lifting and sliding.

Sliding hardware is used on vertically installed window and balcony door sashes made of timber, PVC, aluminium or steel, and their corresponding material combinations.

Sliding hardware as covered by this definition, is equipped with a locking mechanism that locks the sliding sash to the frame, as well as rollers located on the bottom horizontal side of the sliding sash. By means of the hardware, the sashes are locked, brought into the ventilation position and pushed to the side.

Differing applications are not in compliance with the hardware’s specified application.

Burglar-resistant windows and patio doors, windows and patio doors for damp rooms and those for use in environments with aggressive, corrosive air content, require hardware adapted for the respective application and individually agreed upon performance features.

Opened window and patio door sashes achieve only a shielding function and do not meet any demands on joint impermeability, water tightness, sound reduction, heat insulation and burglary resistance.

In the case of wind and draught, the window and patio door sashes must be closed and locked.

2. Misuse

Misuse - therefore not the specified product utilization - of sliding hardware for windows and balcony doors occurs in particular:

- if obstacles are inserted into the opening vicinity, thus preventing its proper specified use,
- if additional loads are put on windows or balcony door sashes,
- if while sliding over and/or locking, someone reaches between the sash and frame, and/or a person or body part is in this vicinity while sliding.

3. Liability

The respective entire hardware set may only consist of G-U hardware components. In the case of inappropriately assembled hardware, and/or in case of non original accessory components and/or non factory-approved accessory components, no liability is accepted.

For professional assembly G-U working drawings and mounting instructions are to be consulted.

4. Product performance

4.1 Maximum sash weights

The following listed maximum sash weights for the individual hardware versions must not be exceeded.

<table>
<thead>
<tr>
<th>Type of hardware</th>
<th>Maximum sash weight kg</th>
<th>Maximum sash width (1) mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift-slide fittings G.U-934</td>
<td>300</td>
<td>3300</td>
</tr>
<tr>
<td>Lift-slide fittings G.U-937</td>
<td>150</td>
<td>2200</td>
</tr>
<tr>
<td>Lift-slide fittings G.U-939</td>
<td>90</td>
<td>1900</td>
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</tbody>
</table>

\(1\) The sash height must not exceed 2.5 times the sash width.

4.2 Hardware composition

The manufacturer's regulations concerning the composition of hardware are obligatory (for example the arrangement of exterior handles, the hardware layout for burglar resistant window and patio door sashes).

5. Product maintenance

Security relevant hardware components are to be examined at least once a year for stability and wear and tear. Depending on the requirements, the fixing screws are to be tightened and/or parts replaced. In addition to this, the following maintenance work is to be carried out annually:

- All movable parts and all locking points of the sliding hardware are to be greased and tested.
- Only cleaning and maintenance agents which do not damage the corrosion protection of the hardware components are to be used.

Hardware adjustments as well the replacement of parts are to be carried out by a specialist company.

6. Obligation to issue information and instructions

To fulfill the information and instruction obligations as well as the maintenance operations according to the "product liability law", the following documentation is made available:

- for planning engineers "planning documents"
- for fabricators "installation instructions" and "assembly drawings"

In order to safeguard the function of sliding hardware for windows and patio doors:

- Planning engineers are obliged to request and comply with the manufacturers' or authorized dealers' product information.
- The authorized dealers are obliged to observe and request the product information from the manufacturer and to pass them on to the fabricators, in particular installation instructions, assembly drawings, service and maintenance instructions as well as operating manuals.
- Fabricators are obliged to observe the product information and in particular to request service and maintenance instructions as well as operating manuals from the manufacturer or authorized dealer and to pass them on to the builders and end users.

7. Applicability for related hardware

Related hardware with sliding rollers and locks – for example hardware for slide-fold doors – is to be treated according to the corresponding valid features of product performance, product maintenance, specified use/application and misuse, product information and instruction obligations.
Application

Range of applications for G-U lift-slide fittings:
- Lift-slide patio doors with 2 to 4 sashes
- Lift-slide windows with 2 to 4 sashes
  each with threshold or frame covers and top guides, depending on sash clearance and sash thickness.

Designs

Lift-slide fittings GU-934, GU-937
Fittings with 4-wheel carriages and clamp fixed connecting bar. Wheels made of fabric reinforced laminated plastic with ball bearing. For sash thicknesses from 56 mm to 92 mm and sash clearances of 28 and 10 mm.
- Lift-locking gear with 37.5 and 27.5 mm backset and cylinder bore.
- Sash weights:
  - G.U-934 = single sash up to 300 kg
  - G.U-937 = single sash up to 150 kg

Lift-slide fittings GU-939/10, GU-939/5
Fittings with 4-wheel carriages and clamp fixed connecting bar. Wheels made of fabric reinforced laminated plastic with ball bearing. For sash clearance of 10 mm. Lift-locking gear with 26.5 mm backset and cylinder bore.
- Max. sash weight 90 kg
- Sash thicknesses:
  - G.U-939/10 = 46 mm
  - G.U-939/5 = 40 mm

Handles

The DIRIGENT handles are made of aluminum with concealed mounting screws. Standard version: handles without cylinder bore. Handles with cylinder bore, handles for operation on both sides with cylinder bore and removable handles complete the program.

Top guides

Top guide P 903
Aluminum gliding rail for lift-slide sashes with identical timber profile cross sections. Sash thickness from 56 to 92 mm.

Top guides P 739, P 740
Aluminum gliding rails for lift-slide sashes. P 739 = Sash thickness up to 60 mm
- P 740 = Sash thickness up to 70 mm

Top guides P 1695, P 30013
Aluminum gliding rails for lift-slide sashes.
- P 1695 = Sash thickness up to 40 mm
- P 30013 = Sash thickness up to 46 mm

Threshold and frame covers

G-U-thermostep
Threshold with thermal break for lift-slide elements of the frame material group 1:
- Subsequent exchange of running rail possible
- No drilling for running rail on the vertical frame profile
- Modular system: tread threshold, various drip rails and running rails to be clipped on
- Identical basic profile for timber and PVC doors
- Anti moisture foil directly connected to the drip rail
- Sash clearance 28 and 10 mm
- Timber profile thickness 56 and 68 mm
- Various sash arrangement schemes

Frame covers P 566, P 1090
Aluminum cover profiles for timber thresholds.
- Sash thickness 56 to 92 mm, sash clearance 28 mm.
- P 566 = Frame cover without thermal break
- P 1090 = Frame cover with thermal break

Standard colors

Lift-slide fittings are supplied in the following standard colors:
- EV 1 Visible aluminum parts anodized
- UC 5 Visible aluminum parts anodized dark bronze
- White Visible aluminum parts white (RAL 9016), tubular sills anodized EV 1.

Materials, surface sealing ferGUard* silver
The fitting parts are made of high quality steel, zinc die-casting and aluminum alloys. According to the material they are protected against corrosion by the surface sealing ferGUard* silver, aluminum parts are anodized.

Standard surface sealing of lift-slide fittings: ferGUard* silver
Locking components and runners of lift-slide come with the surface sealing ferGUard* silver.

Abbreviations

CB Cylinder bore
FS Fixed sash
G Fixed gear position
H Fittings for PVC patio doors
HF Fittings for PVC windows
lh left hand
PU Packing unit
rh right hand
SH Sash height
ST Sash thickness
SW Sash width
TFW Total frame width

<table>
<thead>
<tr>
<th>Fittings</th>
<th>Opening</th>
<th>Sash arrangement</th>
<th>Sash weight</th>
<th>Sash thickness</th>
<th>Sash clearance</th>
<th>Sash backset</th>
<th>Sash weight</th>
<th>Sash height</th>
<th>SH mm</th>
<th>Standard</th>
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<tr>
<td>Threshold method</td>
<td>according to scheme</td>
<td>kg</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>SW mm</td>
<td>P 903</td>
<td>P 739, 740</td>
<td>scheme A</td>
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<tr>
<td>G-U-934 H</td>
<td>Patio door</td>
<td>• • • • • • • • • •</td>
<td>300</td>
<td>56, 68</td>
<td>28, 10</td>
<td>37.5[1]</td>
<td>700-3300</td>
<td>1866-2765</td>
<td>1851-2750</td>
<td>0-44268/P 903</td>
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<tr>
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<td>Window</td>
<td>• • • • • • • •</td>
<td>300</td>
<td>56, 68</td>
<td>28, 10</td>
<td>37.5[1]</td>
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<td>850-1850</td>
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<td>470-1900</td>
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<td>P 566</td>
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<td>56, 68</td>
<td>28</td>
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<tr>
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</table>

[1] = Backset 27.5 mm also possible [2] = Backset 37.5 mm also possible
Lift-Slide Hardware for Wood Windows and Doors

Product Information

Lift-slide fittings HS-Master
for timber, PVC and aluminum patio doors

Application
HS-Master lift-slide fittings are applied:
- with lift-slide patio doors G.U-934 according to scheme A with HS-Master drive
- in domestic construction with high demands on operation
- with side entrances in projects frequented by the public
- in buildings for the disabled where easy and safe operation is required
- in "barrier free construction"

The installation in PVC and aluminium profiles requires sectional drawings of frame and sash profiles and must be clarified with G-U.

Design

Design and delivery
Compact drive unit made to measure in the following variants:
HS-Master in
- Standard design for
  - operation via handle / "Push and go function"
  - operation via switch (push-button switch on site)
- Optional design with additional equipment for
  - operation via radio transmitter
  - the installation of a light barrier set for safe use
  - radio transmitter and light barrier set
  - the installation of a light curtain for safe use
  - radio transmitter and light curtain
- Each variant requires a push-button switch on site.

Operation

Ease of operation
- Lifting and opening to the desired position as well as closing are effected by motor.
- Very simple operation.

Various modes of operation
- Via handle or push-button
- Via remote control
- Via radar sensor.

Safe operation
- As a standard, the HS-Master drive is equipped with load interruption.
- Due to an optional light barrier, the sliding door does not close as long as persons or objects – e.g. wheel chairs – are within the light barrier zone.
- An optional light curtain installed on the gear side controls the total height of the door and prevents it from closing, as soon as persons or objects are caught by the light. Obstacles are recognized via memory function.

Installation:
- inside: in the drive casing
- outside: in front of the sliding sash
- It is possible to operate the door by handle at any time (important in case of power failure).

Range of applications
- Scheme A
  - Min. length HS-Master drive 1900 mm
  - Sash width SW 950-3300 mm
  - Sash height SH 1855-2540 mm
  - Sash weight up to 250 kg

Handles
All handles of the lift-slide range can be used.

Retrofitting of lift-slide patio doors
Lift-slide units already installed can be retrofitted with HS-Master. It only takes the following measures:
- The lift-locking gear must be exchanged.
- Units with G.U-933 runners must be retrofitted with runners of the new lift-slide system GU-934.

The newly developed sealing ferGUard silver sets the standard

Surface coating free of chromate providing optimum corrosion protection = ferGUard
- Over the years, plaster, cement, paint and cleaning detergents considerably affect the surface of builder’s hardware. Possible consequence: claims
- Due to the surface sealing ferGUard silver, damage through corrosion involving reclamation is reliably prevented. The finish ferGUard silver consists of a new combined coating (zinc + passivation without hexavalent chromium + additional coating) of superior anti-corrosive qualities.
- The coats are applied without organic components, heavy metals and hexavalent chromium; that is, the new surface sealing ferGUard silver is environment-friendly and up to date.
- Another advantage:
  - The new finish ferGUard silver produces an impressively even, silvery finish on the fitting parts: A new, additional sales argument with your customers.

How does the additional coating work?
As before, the fitting parts are protected by a zinc coat with succeeding yellow passivation (method: zinc + standard chromizing). The new additional coat was developed in cooperation with leading suppliers of chemical engineering and with the automotive industry. After the usual treatment, the fitting components are covered with an inorganic coat in an additional procedure. This process step is carried out on a fully automatic and computer controlled production line. The additional coat deeply permeates into the passivated coat, sealing the whole component firmly and permanently. Special corrosion inhibitors additionally retard the beginning of corrosion.

All in all, the new G-U finish offers to dealers, manufacturers and customers a large variety of advantages:
- Considerably improved corrosion protection due to additional coating.
- Longer product life of windows and doors.
- Without organic components and heavy metals, the new G-U finish is environment-friendly and up to date.
- If there is mechanic damage to the surface or if a component is cut (e.g. forend cut to length), the blank spot will not corrode due to the sacrificial protective effect of the zinc coat.
- Fewer customer claims due to a finish more resistant against detergents and household chemicals than others.
- Even, silvery finish of fitting parts throughout our complete product range.
- Complying with the environmental regulations of the EC, our newly developed coating system ferGUard silver does not contain hexavalent chromium.
Product Information: schemes A to L

**Scheme A** [1]
1 lift-slide door, 1 fixed glazing
Drawing shows left hand fittings

**Scheme G**
1 lift-slide door, 2 fixed glazings
Drawing shows left hand fittings

**Scheme H**
3 lift-slide doors
Drawing shows left hand and right hand fittings

**Scheme E**
2 lift-slide doors, 1 fixed glazing
Drawing shows left hand fittings
(only with frame cover P 566)

**Scheme D**
2 lift-slide doors
Drawing shows left hand and right hand fittings

**Scheme C**
2 lift-slide doors, 2 fixed glazings
Drawing shows left hand and right hand fittings

**Scheme F**
4 lift-slide doors
Drawing shows left hand and right hand fittings

**Scheme L**
4 lift-slide doors, 2 fixed glazings
Drawing shows left hand and right hand fittings
(only with frame cover P 566)

[1] 939 - limited to scheme “A”
Optional parts

Handles DIRIGENT – aluminium

Lift-slide fittings
Bag of handle inside – G.U-934/937 H
DIRIGENT, without cylinder bore
Sash thickness 68 mm  K-13265-00-0-*

Contents:
1 handle DIRIGENT inside without cylinder bore
1 flush pull

Lift-slide fittings
Bag of handle inside – G.U-934/937 H
DIRIGENT with cylinder bore
Sash thickness up to 80 mm, adjustable spindle length  K-13266-00-0-*

Contents:
1 handle DIRIGENT inside with cylinder bore
1 flush pull

Lift-slide fittings
Bag of handle on both sides – G.U-934/937 H
DIRIGENT with cylinder bore
Sash thickness up to 90 mm, adjustable spindle length  K-13267-00-0-*

Contents:
1 handle DIRIGENT on both sides with cylinder bore
2 countersunk screws M 6 x 100

Contents:
1 handle DIRIGENT inside without cylinder bore
1 handle DIRIGENT inside with cylinder bore
2 countersunk screws

Contents:
1 handle DIRIGENT inside without cylinder bore
1 handle DIRIGENT inside with cylinder bore
2 countersunk screws

Contents:
1 handle DIRIGENT inside without cylinder bore
1 handle DIRIGENT inside with cylinder bore
2 countersunk screws

Contents:
1 handle DIRIGENT inside without cylinder bore
1 handle DIRIGENT inside with cylinder bore
2 countersunk screws

Handles DIRIGENT HL for G.U-939

Lift-slide fittings
Handle inside – G.U-939
DIRIGENT HL, not lockable
Sash thickness up to 56 mm Detent 180° 6-31809-27-0-*/

Lift-slide fittings
Handle inside – G.U-939
DIRIGENT HL, lockable
Sash thickness up to 56 mm Detent 180° 6-31810-27-0-*/

Lift-slide fittings
Box of handle on both sides
DIRIGENT HL, not lockable
Sash thickness from 40 mm Detent 180°  K-16714-40-0-1

Contents:
1 handle DIRIGENT HL inside
1 handle DIRIGENT HL outside
2 countersunk screws

Lift-slide fittings
Box of handle on both sides
DIRIGENT HL, lockable
Sash thickness from 40 mm Detent 180°  K-16715-40-0-1

Contents:
1 handle DIRIGENT HL inside
1 handle DIRIGENT HL outside
2 countersunk screws
Optional parts

Handles DIRIGENT – stainless steel

Lift-slide fittings
Bag of handle inside – G.U-934/937 H
DIRIGENT, without cylinder bore
Sash thickness up to 80 mm,
adjustable spindle length
K-16793-00-0-8

Contents:
1 handle DIRIGENT inside
without cylinder bore
1 flush pull

Lift-slide fittings
Bag of handle inside – G.U-934/937 H
DIRIGENT with cylinder bore
Sash thickness up to 80 mm,
adjustable spindle length
K-16794-00-0-8

Contents:
1 handle DIRIGENT inside
with cylinder bore
1 flush pull

Lift-slide fittings
Bag of handle on both sides – G.U-934/937 H
DIRIGENT with cylinder bore
Sash thickness up to 90 mm,
adjustable spindle length
K-16795-00-0-8

Contents:
1 handle DIRIGENT
on both sides
with cylinder bore
2 countersunk screws
M 6 x 100

Lift-slide fittings
Bag of handle inside – G.U-934/937 H
RONDO, without cylinder bore
Sash thickness up to 80 mm,
adjustable spindle length
K-16796-00-0-8

Contents:
1 handle RONDO inside
without cylinder bore
1 flush pull

Lift-slide fittings
Bag of handle inside – G.U-934/937 H
RONDO with cylinder bore
Sash thickness up to 80 mm,
adjustable spindle length
K-16797-00-0-8

Contents:
1 handle RONDO inside
with cylinder bore
1 flush pull

Lift-slide fittings
Bag of handle on both sides – G.U-934/937 H
RONDO with cylinder bore
Sash thickness up to 90 mm,
adjustable spindle length
K-16798-00-0-8

Contents:
1 handle RONDO
on both sides
with cylinder bore
2 countersunk screws
M 6 x 100
Optional parts

Handles DIRIGENT – polished brass

Lift-slide fittings
Handle inside – G.U-934/937
DIRIGENT without cylinder bore
Sash thickness up to 80 mm, adjustable spindle length
6-26728-01-0-3

Flush pull
9-34957-00-0-3

Lift-slide fittings
Handle inside – G.U-934/937
DIRIGENT with cylinder bore
Sash thickness up to 80 mm, adjustable spindle length
6-26728-02-0-3

Flush pull
9-34957-00-0-3

Lift-slide fittings
Handle on both sides – G.U-934/937
DIRIGENT with cylinder bore
Sash thickness up to 90 mm, adjustable spindle length
6-26731-00-0-3

Lift-slide fittings
Handle on both sides – G.U-934/937
DIRIGENT Se with cylinder bore
Sash thickness up to 90 mm, adjustable spindle length
6-24617-96-0-8

Countersunk screw M 6
Sash thickness 45-90 mm
9-32789-10-0-1

Countersunk screw M 6
Sash thickness 45-90 mm
9-32789-10-0-1

Handles RONDO, elongated – stainless steel

Lift-slide fittings
Handle inside – G.U-934/937
RONDO, without cylinder bore
Sash thickness 68 mm
6-29594-40-0-8

Lift-slide fittings
Handle inside – G.U-934/937
RONDO with cylinder bore
Sash thickness 68 mm
6-29593-40-0-8

Flush pull Se
9-29622-00-0-8

Countersunk screw M 6
Sash thickness 45-90 mm
9-32789-10-0-1
Optional parts

### Lift-slide fittings G.U-934/937 H

- **Removable handle**
  - DIRIGENT 6-24619-00-0-

- **Rosette inside**
  - without cylinder bore 6-22343-01-0-
  - with cylinder bore 6-22343-02-0-

- **Flush pull**
  - 9-29526-00-0-

- **Rosette outside**
  - 9-29527-00-0-

- **Countersunk screw**
  - M 6 ST 45-90 mm 9-32789-10-0-1

- **Packing**
  - for scheme G 9-28815-00-0-1

- **Bag of stop 90**
  - K-32924-00-0-6

- **Gasket Se**
  - on meeting stile
  - Sash clearance, mm
    - 25-29 K-15799-00-0-1/7
    - 16-20 K-15798-00-0-1/7
    - 10 K-15797-00-0-1

- **Gasket, P 1483**
  - W-751048

- **Drive in nut**
  - for locking bolt
  - 9-39113-00-0-1
  - WZ 0-44188

- **Locking bolt 1**
  - 9-29228-00-0-1

- **Connecting piece for P 903**
  - 9-29765-00-0-0

- **Bag of bottom keeper with hexagonal screw for slit ventilation**
  - K-11929-00-0-1

- **Anti-drill escutcheon for lift-locking gear**
  - 934 9-41309-02-0-0
  - 937 9-41309-01-0-0

- **Bag of security device for lowered position**
  - K-16621-00-0-0

- **Anti-drill escutcheon for lift-locking gear**
  - 934 9-41309-02-0-0
  - 937 9-41309-01-0-0

- **Bag of sliding lock**
  - K-11458-00-0-

- **Frame cover P 1090**
  - 6-32030-00-0-
  - 5-21652-67-0-

- **Frame cover P 566**
  - 9-23370-67-0-
  - 500 mm
  - SH up to max. 3265 mm
# Lift-slide fittings HS-Master

For lift-slide fittings G.U-934 – sash clearance 28 and 10 mm, guides P 903, P 739, P 740

## Lift-slide fittings HS-Master

### Fitting requirements for scheme A

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Description</th>
<th>Color</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 *</td>
<td>Manual radio transmitter HS-Master with G.U specific coding</td>
<td>grey-blue</td>
<td>6-32264-01-0-0</td>
<td></td>
</tr>
<tr>
<td>1 *</td>
<td>Manual radio transmitter HS-Master for HS-Master with radio receiver</td>
<td>grey-burgundy</td>
<td>6-32264-02-0-0</td>
<td></td>
</tr>
<tr>
<td>1 *</td>
<td>Manual radio transmitter HS-Master</td>
<td>grey-anthracite</td>
<td>6-32264-03-0-0</td>
<td></td>
</tr>
<tr>
<td>1 *</td>
<td>Manual radio transmitter HS-Master</td>
<td>grey-red</td>
<td>6-32264-04-0-0</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Radar sensor HS-Master</td>
<td></td>
<td>A-7032830</td>
<td></td>
</tr>
</tbody>
</table>

* = min. 1 units, max. 85 units possible

---

### Drive HS-Master – standard version

1. **Drive HS-Master**
   - Standard version for:
     - Operation via handle / "Push and go function"
     - Operation via rocker switch (switch supplied by customer)
   - Manufacture according to order specification

   **Alternatively:**
   - Drive HS-Master
     - Same as standard version, but additionally prepared for operation via manual radio transmitter (radio receiver installed – transmitter as accessory)

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Description</th>
<th>Color</th>
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<th>Article No.</th>
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</thead>
<tbody>
<tr>
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<td>Drive HS-Master</td>
<td></td>
<td>6-32205-98-L/R-*</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Drive HS-Master</td>
<td></td>
<td>6-32654-98-L/R-*</td>
<td></td>
</tr>
</tbody>
</table>

### Drive HS-Master with light barrier set

1. **Drive HS-Master**
   - Same as standard version, but additionally prepared for installation of light barrier set

   **Alternatively:**
   - Drive HS-Master
     - Same as standard version, but additionally prepared for operation via manual radio transmitter (radio receiver installed – transmitter as accessory) and for installation of light barrier set

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Description</th>
<th>Color</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Light barrier set HS-Master</td>
<td></td>
<td>K-16772-00-0-*</td>
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</tbody>
</table>

### Drive HS-Master with light curtain

1. **Drive HS-Master**
   - Same as standard version, but additionally prepared for installation of light curtain inside

   **Alternatively:**
   - Drive HS-Master
     - Same as standard version, but additionally prepared for operation via manual radio transmitter (radio receiver installed – transmitter as accessory) and for installation of light curtain inside

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Description</th>
<th>Color</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Light curtain HS-Master – outside</td>
<td></td>
<td>6-32640-00-0-0</td>
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</tbody>
</table>

### Components generally required with versions I, II and III

1. **Box of linkage HS-Master**
   - Contents:
     1 linkage
     1 rosette outside
     1 fixing material

2. **Box of lift-locking gear HS-Master**
   - Sash height SH for P 903 = 1855-2540 mm
   - Sash height SH for P 740 = 1840-2525 mm
   - Contents:
     1 lift-locking gear HS-Master, top
     1 lift-locking gear HS-Master, bottom
     1 connecting bar
     1 drilling jig

---

* Color: 1 = EV 1, 5 = UC 5, 7 = white

---

**Diagram:**

- Lift-locking gear - top
- Lift-locking gear - bottom
- Manual radio transmitter HS-Master
- Rocker Switch < > to be supplied by the customer
- Manual radio transmitter HS-Master
- Light Barrier set HS-Master
- Linkage
- Rosette outside
- Rocker Switch < >

---

**Notes:**

- * = min. 1 units, max. 85 units possible
Lift-slide fittings HS-Master

Security functions

Safe operation with light barrier

Order references

Safe operation of HS-Master with light curtain
Inside curtain installed, outside curtain delivered separately

Section A - A

<table>
<thead>
<tr>
<th>Description</th>
<th>Dimensions mm</th>
<th>Specification of profile</th>
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<tbody>
<tr>
<td>Length of drive</td>
<td>LA =</td>
<td></td>
</tr>
<tr>
<td>Dim. X (min. 90)</td>
<td>X =</td>
<td></td>
</tr>
<tr>
<td>Position of handle</td>
<td>[ ] lh [ ] rh</td>
<td></td>
</tr>
<tr>
<td>Clearance</td>
<td>CL =</td>
<td></td>
</tr>
<tr>
<td>Total frame width</td>
<td>TFW =</td>
<td></td>
</tr>
<tr>
<td>Sash width</td>
<td>SW =</td>
<td></td>
</tr>
<tr>
<td>Sash height</td>
<td>SH =</td>
<td></td>
</tr>
</tbody>
</table>
Lift-slide fittings G.U-934

Sash clearance 28 mm

Fitting requirements, sash clearance 28 mm according to size of sashes for schemes A to L

<table>
<thead>
<tr>
<th>Qty</th>
<th>Ref.</th>
<th>Description</th>
<th>PU</th>
<th>Article No.</th>
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<tbody>
<tr>
<td>A C D E F G H L</td>
<td>dim.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 2 2 4 1 3 4</td>
<td></td>
<td>Box of runners – G.U-934</td>
<td>1</td>
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<tr>
<td>1 2 2 2 1 2 2</td>
<td></td>
<td>Bag of accessories</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 2 2 2 1 2 2 1</td>
<td></td>
<td>Cover plate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 2 2 4 1 3 4</td>
<td></td>
<td>Lift-locking gear D 37.5</td>
<td>10</td>
<td>6-30021-**-0-1</td>
</tr>
<tr>
<td>1 2 2 4 1 3 4</td>
<td></td>
<td>Lift-locking gear D 27.5</td>
<td>10</td>
<td>6-30019-**-0-1</td>
</tr>
<tr>
<td>1 2 2 2 4 1 3 4</td>
<td></td>
<td>SW Connecting rod Ø 8</td>
<td>1</td>
<td>9-25476-**-0-1</td>
</tr>
<tr>
<td>1 2 1 1 1 1 1</td>
<td></td>
<td>Running Rail, P 432 (6.7 meter)</td>
<td>1</td>
<td>9-09547-67-0-1</td>
</tr>
<tr>
<td>1 2 1 1 2 1 1</td>
<td></td>
<td>Screw, Rail mounting (20 per 3 meters)</td>
<td>1</td>
<td>9-13132-32</td>
</tr>
<tr>
<td>1 2 – 1 – 2</td>
<td></td>
<td>Rail for fixed sash P 1070 (3.3 meter)</td>
<td>1</td>
<td>9-28298-33-0-1</td>
</tr>
<tr>
<td>1 2 – 1 – 2</td>
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<td>End cap, P 1070</td>
<td>1</td>
<td>9-27556-00-0-0</td>
</tr>
<tr>
<td>1 2 – 1 – 1</td>
<td></td>
<td>Running Rail w/drain P 774 (6.7 meter)</td>
<td>1</td>
<td>9-27535-67-0-1</td>
</tr>
<tr>
<td>1 2 – 1 – 1</td>
<td></td>
<td>End Cap, P 774</td>
<td>1</td>
<td>9-27954-00-0-6</td>
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<tr>
<td>1 2 – 1 – 1</td>
<td></td>
<td>Screw, P 774 (6 per meter)</td>
<td>1</td>
<td>9-13253-32-0-0</td>
</tr>
<tr>
<td>1 2 – 1 – 1</td>
<td></td>
<td>Gasket P 809, m</td>
<td>1</td>
<td>W-751014</td>
</tr>
</tbody>
</table>

*= Color: 1 = EV 1, 5 = UC 5

SH = sash height
SW = sash width
TFW = Total frame width

Top guide P 903

- 865-1285 mm = 11
- 1280-1850 mm = 19
- 1850-2350 mm = 24
- 2115-2750 mm = 28

Top guide P 739/740

- 850-1270 mm = 11
- 1270-1850 mm = 19
- 1850-2350 mm = 24
- 2100-2750 mm = 28

Guide, P 739/740

- 1600 mm = 11
- 2000 mm = 14
- 2400 mm = 19
- 3200 mm = 33
- 4000 mm = 40
- 5000 mm = 45
- 6000 mm = 50
- 6700 mm = 67
Fitting requirements, sash clearance 28 mm

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Ref. dim.</th>
<th>Description</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 2 2 4 1 3 4</td>
<td>Box of runners – G.U-937</td>
<td>1</td>
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### Bag of accessories

<table>
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<th>Description</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1 2 3 4</td>
<td>Scheme A – G.U-937</td>
<td>1</td>
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<tr>
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<td>1 2</td>
<td>Scheme C – G.U-937</td>
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<tr>
<td>1</td>
<td>1 2 3</td>
<td>Scheme D and F – G.U-934/937</td>
<td>1</td>
<td>K-16610-00-0-1</td>
</tr>
<tr>
<td>1</td>
<td>1 2 3</td>
<td>Scheme E and L – G.U-934/934</td>
<td>1</td>
<td>K-16611-00-0-1</td>
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<tr>
<td>1</td>
<td>1</td>
<td>Scheme G – G.U-934/937</td>
<td>1</td>
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</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Scheme H – G.U-934/937</td>
<td>1</td>
<td>K-16613-00-0-1</td>
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</table>

### Bag of locking bolt 2/14

<table>
<thead>
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<th>Qty.</th>
<th>Ref. dim.</th>
<th>Description</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2 2 2 4 1 3 4</td>
<td>Handle inside – G.U-934/937</td>
<td>1</td>
<td>6-24606-00-0-1</td>
</tr>
<tr>
<td>1</td>
<td>2 2 2 4 1 3 4</td>
<td>Lift-locking gear D 27.5</td>
<td>10</td>
<td>6-30019-00-0-1</td>
</tr>
<tr>
<td>1</td>
<td>2 2 2 4 1 3 4</td>
<td>Lift-locking gear D 37.5</td>
<td>10</td>
<td>6-30021-00-0-1</td>
</tr>
</tbody>
</table>

### Bag of stop 90

<table>
<thead>
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<th>Ref. dim.</th>
<th>Description</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1 1 1 1 1 1 1</td>
<td>Running Rail, P 432 (6.7 meter)</td>
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<td>9-09547-67-0-1</td>
</tr>
<tr>
<td>1</td>
<td>1 1 1 1 1 1 1</td>
<td>Screw, Rail mounting (20 per 3 meters)</td>
<td>1</td>
<td>9-13132-32</td>
</tr>
</tbody>
</table>

### Sealing part, bottom

- SH = sash height
- Top guide P 903
  - 865-1265 mm = 11
  - 1235-1635 mm = 19
  - 1685-2395 mm = 24
  - 2115-2765 mm = 29

### Gasket P 743

### Runner, front

- P 432
- P 379, 9-08228-67-0-1
- End Cap, P 774
- P 1070
- P 1012

### Cover plate

- 9-24880-00-0-6
- Rubber buffer 80

### Color:
- 1 = EV 1, 5 = UC 5
## Lift-slide fittings G.U-934 / 937

### Sash clearance 28 mm – top guide P 903

![Guide, C-1]

![Guide, C-2]

**Fitting requirements, sash clearance 28 mm according to size of sashes for schemes A & C**

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Description</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bag of top guide P 903</td>
<td>1</td>
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<tr>
<td></td>
<td>Guide, C-1</td>
<td>6-23298-00-0-6 D</td>
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<tr>
<td></td>
<td>Guide, C-2</td>
<td>6-23297-00-0-6 D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sealing Bridge</td>
<td>6-22582-00-0-0</td>
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</tr>
<tr>
<td></td>
<td>Sealing Piece 1</td>
<td>9-27835-00-0-0</td>
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<tr>
<td></td>
<td>Sealing Piece 2</td>
<td>9-27481-00-0-0</td>
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<tr>
<td>1</td>
<td>Guiding Rail, P 903 (6.7 meter)</td>
<td>1</td>
<td>9-27190-67-0-6*</td>
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<tr>
<td></td>
<td>Gasket, P 1156 (meter)</td>
<td>1M</td>
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<tr>
<td>2</td>
<td>Sash Width (SW)</td>
<td>1M</td>
<td>W751037-00-0-6</td>
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<tr>
<td>4</td>
<td>1451 - 1700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1701 - 1950</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1951 - 2200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>2201 - 2450</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2451 - 3300</td>
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**Screw, Rail mounting (20 per 3 meters)**

<table>
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<tr>
<th>Qty.</th>
<th>Description</th>
<th>PU</th>
<th>Article No.</th>
</tr>
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<tr>
<td>1</td>
<td>9-13132-32</td>
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<td></td>
</tr>
</tbody>
</table>

* = Color: 1 = EV 1, 5 = UC 5
** = Finish: 1 = EV1 (silver), 6 = Black

### Sash clearance 28 mm – top guides P 739, P 740

![Sealing Bridge]

![Sealing Piece]

**Fitting requirements, sash clearance 28 mm according to size of sashes for schemes A to L**

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Description</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Top guiding rail P 739 (sash thickness to 60 mm)</td>
<td>1</td>
<td>9-25839-67-0-6*</td>
</tr>
<tr>
<td></td>
<td>(6.7 meter)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Top guiding rail P 740 (sash thickness to 70 mm)</td>
<td>1</td>
<td>9-24633-67-0-6*</td>
</tr>
<tr>
<td></td>
<td>(6.7 meter)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Top guiding rail P 741 (6.7 meter)</td>
<td>1</td>
<td>9-24573-67-0-6*</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Guide 1</td>
<td>1</td>
<td>9-24378-00-0-6</td>
</tr>
<tr>
<td>1</td>
<td>Guide 2</td>
<td>1</td>
<td>9-24379-00-0-6</td>
</tr>
<tr>
<td>1</td>
<td>Sealing Bridge</td>
<td>1</td>
<td>6-22154-02-0-0</td>
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<tr>
<td>1</td>
<td>Sealing Piece</td>
<td>1</td>
<td>9-29699-00-0-6</td>
</tr>
<tr>
<td>3</td>
<td>Sash Width (SW)</td>
<td>1M</td>
<td>W751037-00-0-6</td>
</tr>
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<td>4</td>
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<td></td>
</tr>
<tr>
<td>4</td>
<td>1451 - 1700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1701 - 1950</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1951 - 2200</td>
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<td></td>
</tr>
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<td>5</td>
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</tr>
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<td>7</td>
<td>2451 - 3300</td>
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**Screw, Rail mounting (20 per 3 meters)**

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Description</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
</tr>
</tbody>
</table>

* = Color: 1 = EV 1, 5 = UC 5
Lift-slide fittings G.U-939/10  
Discontinued - call for availability

Sash thickness 46 mm, sash clearance 10 mm

Fitting requirements, sash clearance 10 mm according to size of sashes for scheme A

<table>
<thead>
<tr>
<th>Qty. A</th>
<th>Description</th>
<th>PU</th>
<th>Article No.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Box of runners – G.U-939</td>
<td>1</td>
<td>K-16580-00-0-1</td>
</tr>
<tr>
<td>1</td>
<td>Box of accessories – G.U-939/10</td>
<td>1</td>
<td>K-16735-00-0-1</td>
</tr>
<tr>
<td>1</td>
<td>Handle DIRIGENT HL [1]</td>
<td>1</td>
<td>6-31809-27-0-*</td>
</tr>
<tr>
<td>2</td>
<td>Countersunk screw M 5 x 30</td>
<td>400</td>
<td>9-13255-30-0-1</td>
</tr>
<tr>
<td>1</td>
<td>Lift-locking gear SH</td>
<td>Length</td>
<td>Handle position</td>
</tr>
<tr>
<td>1175-1850</td>
<td>1790</td>
<td>415</td>
<td>1</td>
</tr>
<tr>
<td>1805-2350</td>
<td>2290</td>
<td>1015</td>
<td>1</td>
</tr>
<tr>
<td>Alternatively: Lockable gears w/US lock case</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1805-2350</td>
<td>2290</td>
<td>1015</td>
</tr>
<tr>
<td>Alternatively: Lockable gears for EU lock case</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1805-2350</td>
<td>2290</td>
<td>1015</td>
</tr>
<tr>
<td>1</td>
<td>EU Case, lockable, with cylinder bore</td>
<td>1</td>
<td>K-16734-00-0-6</td>
</tr>
<tr>
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[1] *= Color: 1 = EV 1 or ferGUard®silver, 5 = UC 5, 6 = black, 7 = white
[2] TFW with sash profile width 96 mm and frame profile thickness 46 mm
Lift-slide fittings G.U-939/5  Discontinued - call for availability

Sash thickness 40 mm, sash clearance 10 mm

Fitting requirements, sash clearance 10 mm according to size of sashes for scheme A

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1 * = Color: 1 = EV 1 or ferGUard® silver, 5 = UC 5, 6 = black, 7 = white
2 TFW with sash profile width 96 mm and frame profile thickness 40 mm