# Drehvolution - KS4

## Drehvolution Set 1
Set consists of KS4 R and casement bracket F55R

<table>
<thead>
<tr>
<th>Application:</th>
<th>Application:</th>
</tr>
</thead>
<tbody>
<tr>
<td>for side-hung window (DIN) left side hinged</td>
<td>for side-hung window (DIN) right side hinged</td>
</tr>
</tbody>
</table>

![Diagram](image1.png)

**Version:** Set 1  
**Part.-No.:** 522035

**FAB** = to max. 1200 mm  
FAB ≤ 1000 mm use 1x Drehvolution  
FAB > 1000 mm use 2x Drehvolution Set 1 + Set 2  
(synchron operation)

**FAH** = to max. 2000 mm  
FAH ≤ 1200 mm use 1x Drehvolution  
FAH > 1200 mm use 2x Drehvolution Set 1 + Set 2  
(synchron operation)

* ) FAB = Overall width of casement  
** ) FAH = Overall height of casement

**Space requirement on the frame = 26 mm**

These window sizes are only recommendations, additional wind loads must be taken into account. A stable side-hung window - with an additional locking drive - is required!

## Drehvolution Set 2
Set consists of KS4 L and casement bracket F55L

<table>
<thead>
<tr>
<th>Application:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>for side-hung window DIN left</td>
<td>for side-hung window DIN right</td>
</tr>
</tbody>
</table>

![Diagram](image2.png)

**Version:** Set 2  
**Part.-No.:** 520035

**FAB** = Overall width of casement  
**FAH** = Overall height of casement
Scope of delivery:
Prior to assembly, check items quantity in the delivery for completeness.

Chain drive: **KS4 400 S12 24V DC** depending on the version: L (left) or R (right)

Connecting cable: non-halogen, grey 5 x 0,5 mm², ~ 2 m

Casement bracket: **F55** depending on the version: L (left) or R (right)

The drive KS4 is pre-programmed for a stroke of 350 mm. The window opening angle is ~70°.

**Scope of delivery: Drehvolution - KS4**

**Preparing Assembly:**

- Determine fastenings for drive KS4 and casement bracket F55.

- Produce drill holes with appropriate cross-section (mounting dimensions see below).

**NOTE** Screws - for mounting on the window - are to be provided by the customer!

**Casement bracket F55**

Drilling dimensions for drive KS4 and casement bracket F55

- Center “chain output” on-site
- Locking drive e.g. FVUB
- Reference edge ▲ outer edge of casement
- Flush: outer edge of casement to outer edge of drive KS4
- M4 on-site
- M5 on-site
- KS4 - R on-site
- M4 on-site

21.5 mm

316 mm

28,32,5 mm

521 mm

55 mm

43 mm

12, 12, 29 mm

55,5 mm

73 mm
Assembly: KS4 and casement bracket F55

- Screw the drive KS4 onto window frame (M4).
  Make sure it is parallel to casement edge. The drive body must lie completely flush on the window frame surface.

- Fix and align the casement bracket F55 onto casement (M5) (insert rivet nuts on-site). See the drawing "Drilling dimensions for drive KS4 and casement bracket F55" on the previous page.

- Open the casement manually.
- Connect control voltage of the drive KS4 (e.g. using a tester) and move out the chain completely.

  **Note**
  There is a preloaded spring in the chain holder. Hold the Allen-wrench SW 4 to prevent it being thrown out of the screw (risk of injury)!

- Insert the chain in the casement bracket F55
  Example: Synchronous operation with Drehvolution Set 1 and Set 2

- Secure the chain in the casement bracket F55 with the included screw M3 (Allen-wrench SW 2,5).

  **Note**
  Position Allen-wrench SW 4 correctly to ensure a 135° turn.

**Insert the chain in the casement bracket F55**

**Example:** Synchronous operation with Drehvolution Set 1 and Set 2

**Note**
Position Allen-wrench SW 4 correctly to ensure a 135° turn.

**Insert the chain in the casement bracket F55**

**Example:** Synchronous operation with Drehvolution Set 1 and Set 2

**Note**
Position Allen-wrench SW 4 correctly to ensure a 135° turn.

**Insert the chain in the casement bracket F55**

**Example:** Synchronous operation with Drehvolution Set 1 and Set 2

**Note**
Position Allen-wrench SW 4 correctly to ensure a 135° turn.

**Insert the chain in the casement bracket F55**

**Example:** Synchronous operation with Drehvolution Set 1 and Set 2

**Note**
Position Allen-wrench SW 4 correctly to ensure a 135° turn.
Demounting:

- Loosen the screw M3 \( \mathbb{4} \) (with Allen-wrench SW 2,5) at the casement bracket F55 \( \mathbb{2} \) on the open window casement.
- Use Allen-wrench SW 4 \( \mathbb{3} \) to relax the chain holder of the casement bracket F55 \( \mathbb{2} \).

![Diagonal line warning]

There is a preloaded spring in the casement bracket F55 \( \mathbb{2} \). Hold the Allen-wrench SW 4 \( \mathbb{3} \) to prevent it being thrown out of the screw (risk of injury)!

Contact persons for any inquiries is the branch office responsible for you or the responsible person at AUMÜLLER Aumatic GmbH.
Contact data are available at our homepage: (www.aumueller-gmbh.de)

ORDER DATA

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>350</td>
<td>551</td>
<td>E6/C-0</td>
<td>1</td>
<td>520035</td>
</tr>
<tr>
<td>350</td>
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<td>1</td>
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OPTIONEN

Drive housing painted in other RAL colours

<table>
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<tr>
<th>Lump sum for coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>PU / pcs.</td>
</tr>
<tr>
<td>Part.-No.</td>
</tr>
<tr>
<td>516030</td>
</tr>
<tr>
<td>516004</td>
</tr>
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Specify at order stage:

- 1 – 20
- 21 – 50
- 51 – 100
- from 101

Paint the angle of the casement bracket F55 in other RAL colours

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Specify at order stage:

- Painting:
  - Only the angle of F55

Microprocessor programming S12

<table>
<thead>
<tr>
<th>Electronic stroke reduction 24V S12</th>
</tr>
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<tbody>
<tr>
<td>Programming drives 24V/230V S12</td>
</tr>
<tr>
<td>PU / pcs.</td>
</tr>
<tr>
<td>Part.-No.</td>
</tr>
<tr>
<td>524190</td>
</tr>
<tr>
<td>524180</td>
</tr>
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</table>

Optional accessories

| M-COM® Click Configuration module for synchronised multi-drive systems |
| M-COM Configuration module for synchronised multi-drive systems |
| PU / pcs.                           |
| Part.-No.                            |
| 524167                              |
| 524177                              |

AUMÜLLER-Click plug solution

| 3 m cable length - 24V DC |
| 5 m cable length - 24V DC |
| 10 m cable length - 24V DC |
| PU / pcs.                           |
| Part.-No.                            |
| 501251                              |
| 501252                              |
| 501253                              |

Warranty claims require proper and professional assembly, installation and maintenance in accordance with national regulations and manufacturer’s instructions as to drives.

The safety of the supplied product documentation are to be observed.

Strictly observe the information given in this and in the instructions for installation of drives KS4 when mounting the Rotation Volution Sets. Details can be found on our website www.aumueller-gmbh.de
Keep this instruction over the lifetime of