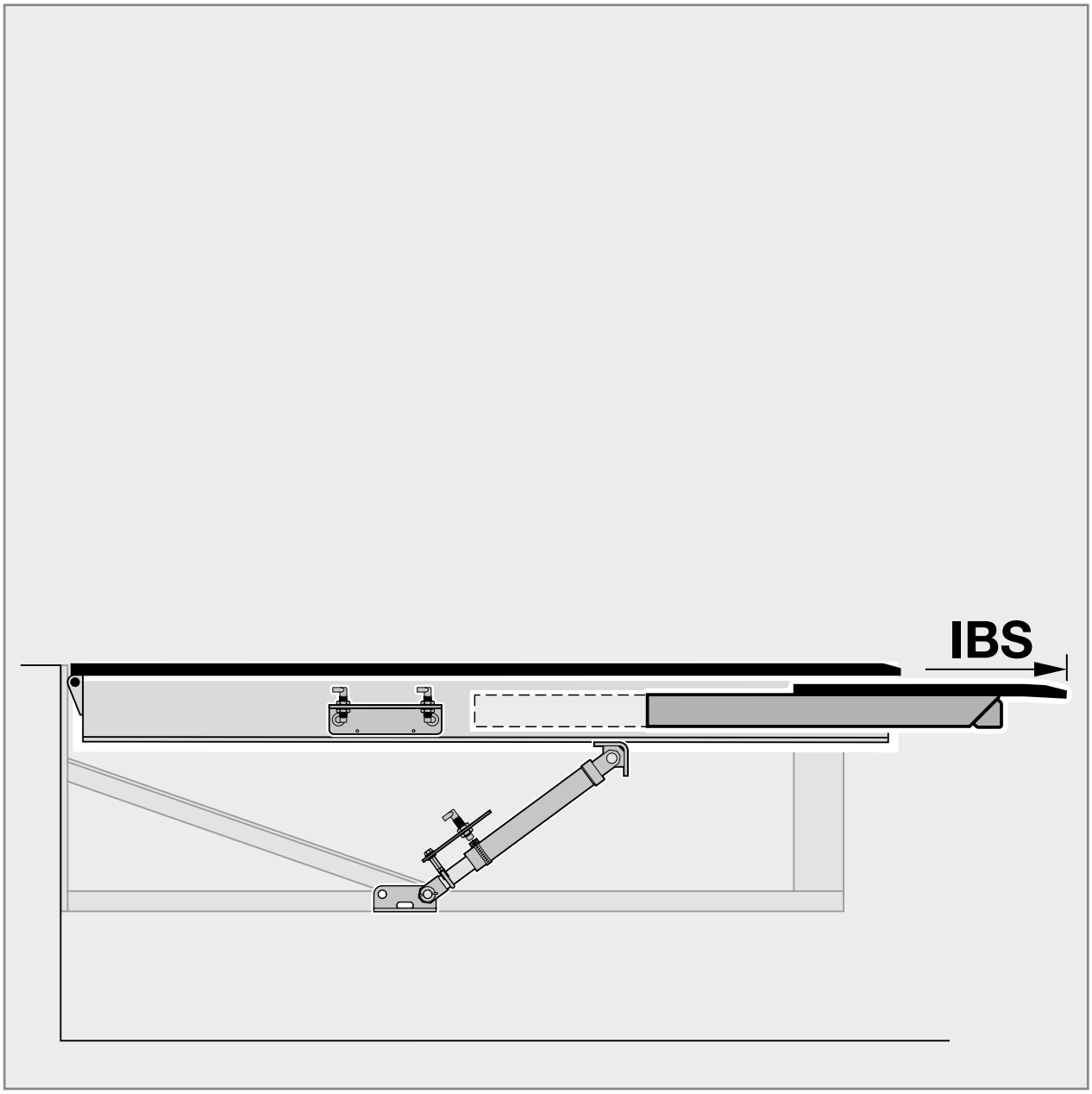

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EN

Instructions for adjustment work and operating

IBS

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1 ⚠ Safety

If the instructions are not followed, this could result in injury or damage to the product.

- ▶ Read and follow the instructions carefully.
- ▶ Observe the instructions for the dock leveller and the control 560 T/V.
- ▶ Keep these instructions accessible at all times.
- ▶ Only allow persons to work on the product who have been authorised and instructed by the operator. This applies to fitters, maintenance personnel and operators.

2 Description

IBS is a semi-automatic intermediate stop when extending and retracting the telescopic lip. The equipment is suitable for Hörmann telescopic lip dock levellers with control 560 T/V.

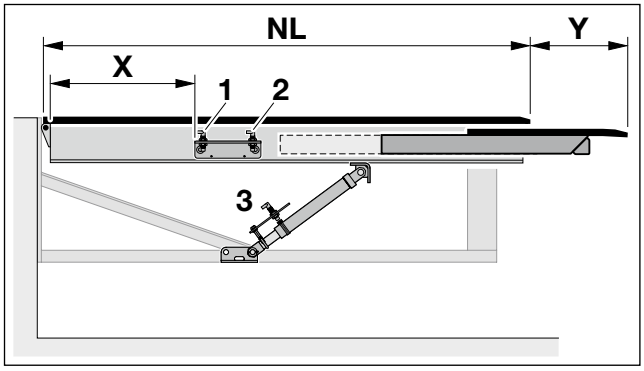
3 Electrical connection

- ▶ See the control documentation.

4 Adjustment

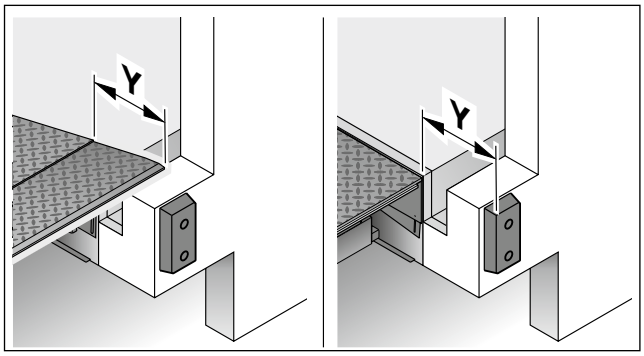
- ▶ Ensure that the following conditions are met when performing adjustment work:
  - – The working area is cordoned off.
  - – The control is secured against unauthorised operation.
  - – The dock leveller is undamaged and in a proper state.
  - – Cables are not kinked, squeezed or damaged.
  - – The dock leveller is secured using the maintenance support.

Dimensions and legend



1, 2 Sensors for intermediate stop
3 Sensor for platform position
X Position of the sensor holder
Y Intermediate stop of extension range
NL Dock leveller length (see data label)

4.1 Intermediate stop



1. Measure the required extension range (Y) for the intermediate stop of the telescopic lip.
   - – When installed at the factory, the intermediate stop is preset to an extension range of 100 mm.
   - – Maximum extension range (Y_{max}) = distance between front edge platform and front edge buffer
2. Determine the position X for the sensor holder, see table “Determination of position X”.

Determination of position X

Position X = extension range Y + table value

Dock leveller type*	Length of lip (L)*	Dock leveller length (NL)*							
		2000	2500	2750	3000	3500	4000	4500	5000
HTL2 / HRT 60 kN	1000	**200**	**700**	**950**	**1200**	**1700**	**2200**	**2700**	**3200**
	1200	**—**	**500**	**750**	**1000**	**1500**	**2000**	**2500**	**3000**
HTL2 100 kN	1000	**–10**	**490**	**740**	**990**	**1490**	**1990**	**2490**	**—**
	1200	**—**	**290**	**540**	**790**	**1290**	**1790**	**2290**	**—**
HTL2 ISO	950 / 1150	**100**	**400**	**650**	**900**	**1400**	**1900**	**2400**	**—**
HTLV4	1000	**—**	**—**	**—**	**1205**	**1705**	**2205**	**2705**	**—**

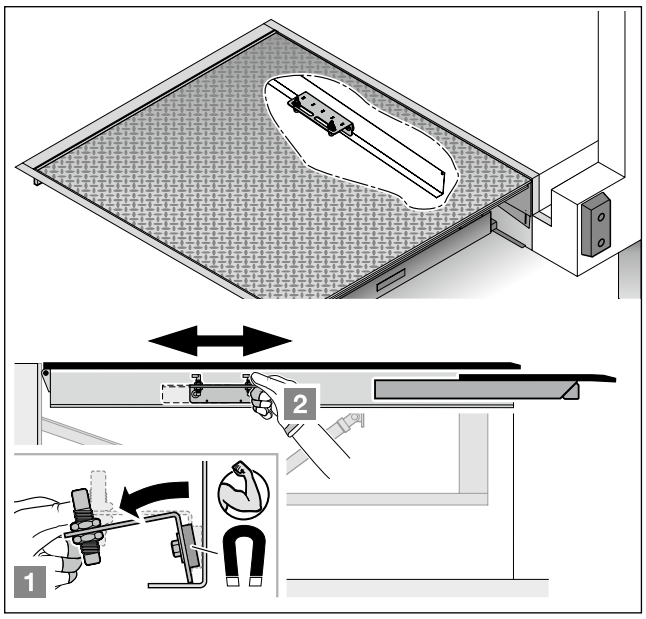
* See data label

If the length of the dock leveller differs, use the following formula: X = Y + NL – L – type-dependent value

Type-dependent values

- HTL2 / HRT 60 kN: 800
- HTL2 100 kN: 1010
- HTL2 ISO: 950
- HTLV4: 795

The sensor holder is fastened using a magnet. To change the position, move the sensor holder.

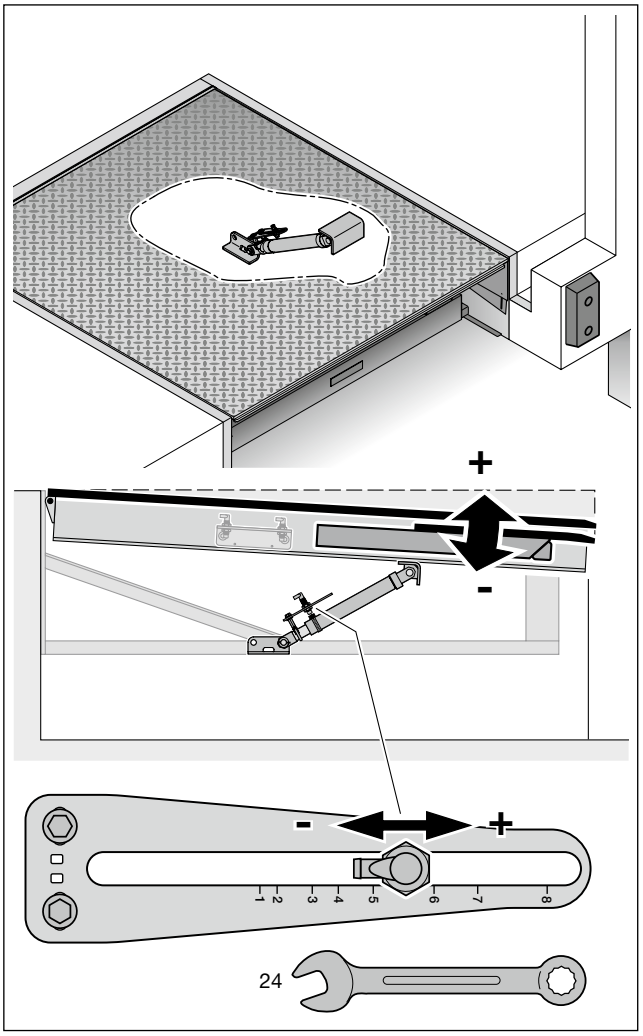


▶ Reposition the sensor holder. Measure the distance from the inside of the rear rail of the platform.

4.2 Platform position

The IBS system is installed at the factory in such a way that the platform is aligned horizontally in the intermediate stop. Chamfered alignment is possible.

Changing the position



▶ Loosen the sensor. Shift the sensor in the holder.

Adjustment for horizontal position (factory setting)

The values correspond to the sensor position on the scale of the holder.

Type	Dock leveller length (NL)*							
	2000	2500	2750	3000	3500	4000	4500	5000
HTL2 60 kN	4	2	4	3	6	5	4	4 – 5
HTL2 Jumbo*	—	—	—	—	—	—	9	8
HTL2 100 kN	1	2	4	3	6 – 7	5 – 6	4 – 5	—
HRT	8	6	5	4 – 5	8	6	5	4 – 5
HTL2 ISO	2	2	4	3	6	5	4	—
HTLV4	—	—	—	7	6	11	9	

* Dock leveller in installation height > 750 mm

5 Operation and functional progress

▶ Note the brief instructions.

⚠ WARNING

Danger of injury and damage when driving over the dock leveller in the intermediate stop.

The platform can only be loaded to a limited extent in the intermediate stop. The warning lamp flashes.

▶ Do not drive over the dock leveller in the intermediate stop.

5.1 Before the loading process

1. Press the *Extend lip* button. Keep the button pressed. The platform lifts. The lip extends to the preset length. The platform lowers. The warning lamp flashes. It is possible to access the dock leveller, e.g. to open vehicle doors.
2. Press the *Lift platform* button. Keep the button pressed until the platform is above the level of the loading surface. The warning light goes out.
3. Press the *Extend lip* button within the next second. Press and hold the button until the lip is extended as far as needed and no further.
4. Release the button.

The lip is lowered to the loading surface after approx. one second.

Correct the lip:

▶ In order to retract the lip again, use the *Retract lip* button.

5.2 After the loading process

1. Press the *Return* or *Retract lip* button 1x. The platform lifts. The lip retracts to the preset length. The platform lowers. The warning lamp flashes. It is possible to access the dock leveller, e.g. to close vehicle doors.
2. Press the *Return* or *Retract lip* button 1x. The dock leveller will automatically move into the home position.

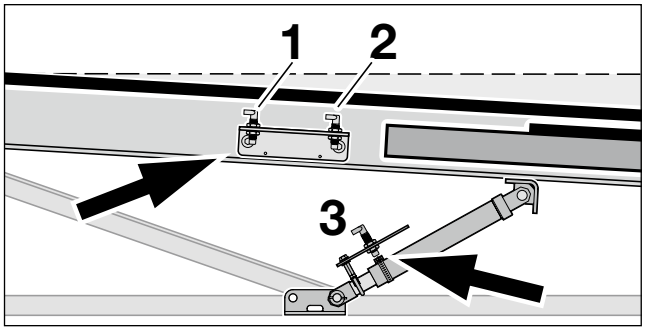
6 Maintenance

6.1 Checking and maintenance

▶ Perform a function check as part of the maintenance of the dock leveller.

6.2 Malfunctions and troubleshooting

All 3 sensors must be set and switched correctly to ensure trouble-free operation of the IBS system.



The sensor holder for sensor 1 and 2 must be at the bottom of the platform beam.

Sensor 3 must be able to detect the bolt of the hose clamp.

Malfunction	Sensor
The lip does not stop in preset position	1
The warning light on the control does not switch on or off	2
The platform does not stop in preset position	3

Troubleshooting

▶ Check whether the sensor switches properly. Hold a metal object in front of the sensor. When the sensor switches, the sensor LED lights up.

The sensor switches.

▶ Correct the position of the sensor.

The sensor does not switch.

▶ Perform the following measures:
- Remove any contamination.
- Check the connections. Correct if necessary.
- Check the components for damages. Replace defective components.
- Fasten loosely hanging cables.