

# HÄNEL - Checklist for Lean-Lift Safety Signs

## Lean-Lift for assembly, service and annual safety check

Use of the lift without a full set of warning signs is prohibited.

Prior to assembly or service work and before making modifications to the system, always check that all signs are present. Missing signs must be replaced. The signs must be in the official language of the country where the lift is placed on the market and/or put into operation.

Please contact the factory if you have any questions about the required signs or their correct locations.

Please also refer to the enclosed EC Declaration of Conformity/EC Installer's Declaration and the manufacturer's order confirmation enclosed in the Technical Documentation.

### CAUTION:

Before attaching signs, please ensure that the main switch and, where applicable, the service door switch, are switched off and locked. In the case of external voltage (multi-unit network), or before working on the terminal blocks, the mains power supply must be disconnected to ensure that no electrical voltage is present.

The terminal blocks are under power even when the main switch is turned off!

Cables or other parts must not be damaged.

For certain signs, the owner/operator must provide additional instruction in accordance with the Operating Manual in the Technical Documentation (for example for remote-controlled lift operation).

The yellow signs designated with the word "Old" no longer correspond to today's state of technology (ISO 3864-2:2004-10).

If significant conversion tasks are performed (CE Mark required), these signs have to be replaced by the current signs in order to issue an inspection sticker.

During yearly safety inspections, it must be noted in writing in the F-SICHB3 if there is need to replace/update signs.

These replacements/updates are the owner/operator's responsibility.

If there are no suitable holes in the lift components, the signs can be attached using WK-20 instant glue (available from Hänel) or an equivalent adhesive.

Com. No.: \_\_\_\_\_

The following signs must be present at all times:



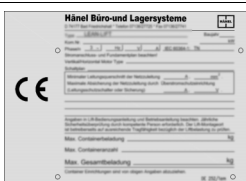
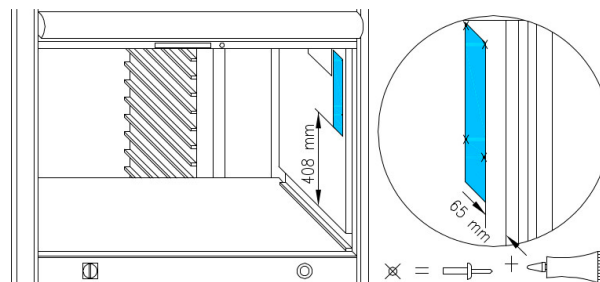
### Short operating instructions

At every access point.

07 100 171 /1



Old



### Type plate including CE

Only below the first access point (with main switch directly below the access point)

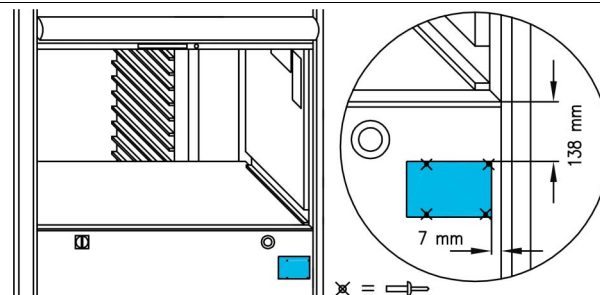
07 100 252

Within the European Economic Area, Switzerland and Turkey with CE mark, outside of European Economic Area, Switzerland and Turkey without CE mark.

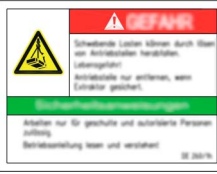
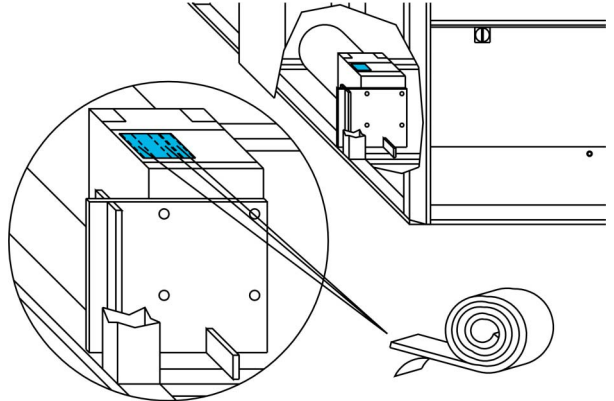
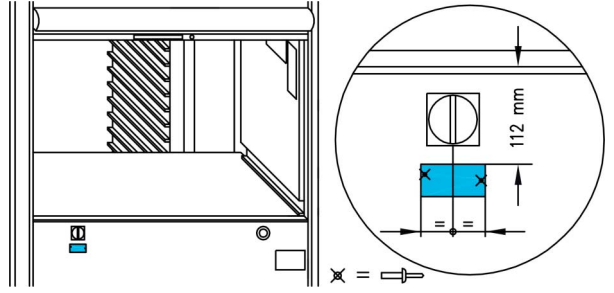
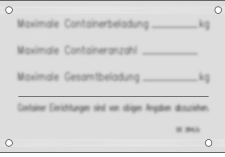
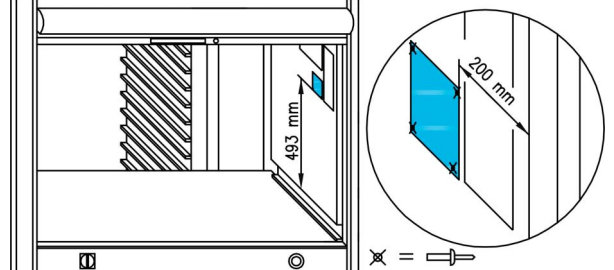
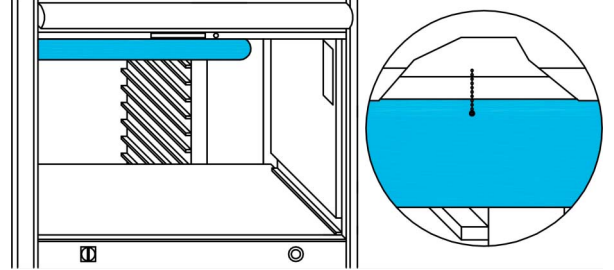
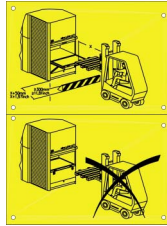
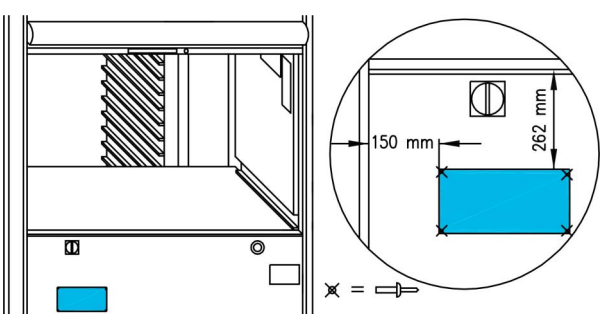
CE does not apply if Installer's Declaration present.

When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.

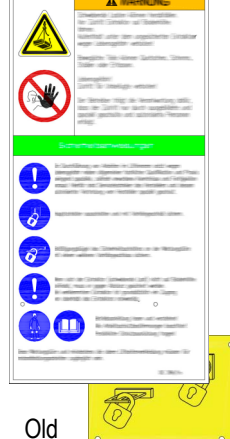
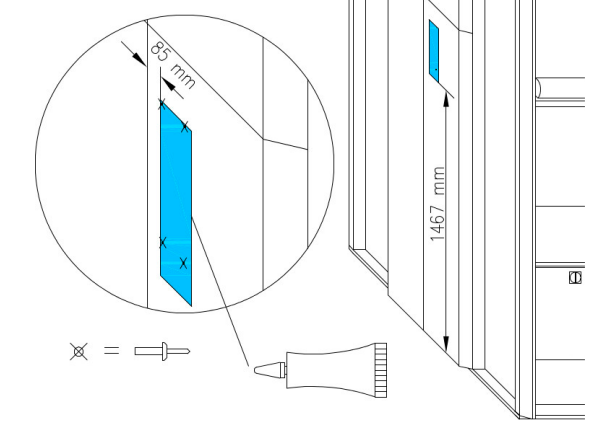
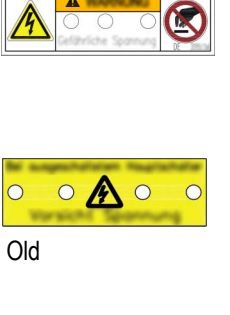
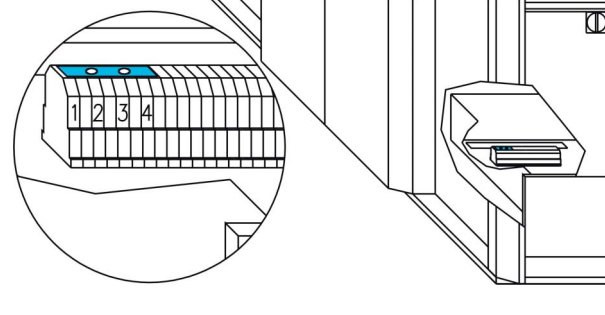
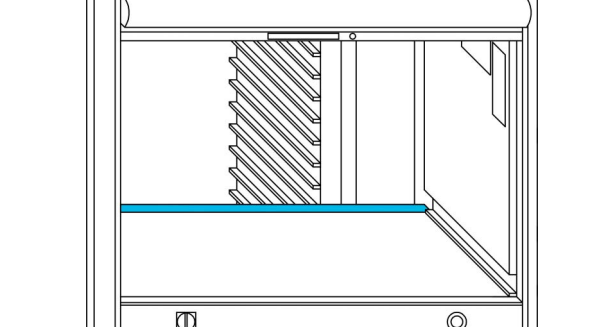
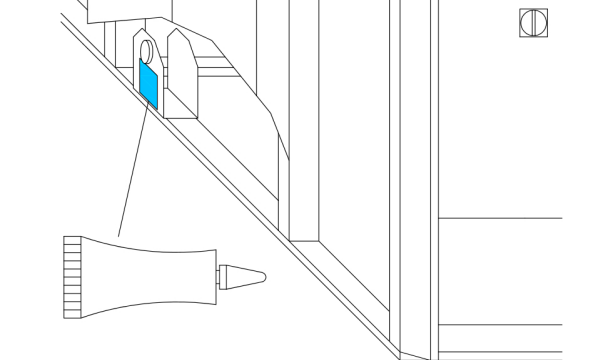
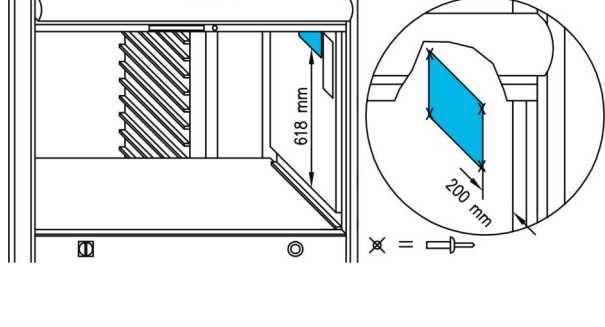
The additional sign is identified by a ^2 behind the commission number.



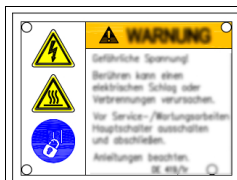
# HÄNEL - Checklist for Lean-Lift Safety Signs

|                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|       | <p><b>Safety instructions for drive</b><br/>On vertical motor or gear unit<br/>07 100 260 /1<br/>For retrofits, new operating manual MANL-LL is required.</p>                                                                                                                                                                                                                                                                                                              |    |
|                                                                                        | <p><b>Main switch</b><br/>Near every main switch<br/>07 100 261 /2<br/>When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.<br/><b>Caution!</b> When mounting signs, always be sure not to damage cables or parts.</p>                                                                                                                                                                               |    |
|                                                                                       | <p><b>Container loading</b><br/>At every access point.<br/>07 100 264</p>                                                                                                                                                                                                                                                                                                                                                                                                  |   |
|                                                                                      | <p><b>Do not enter</b><br/>At every access point.<br/>07 100 313<br/>Type 840 -&gt; Sign length 810 mm (31.89")<br/>&gt;Type 840 -&gt; Sign length 1100 mm (43.31")</p>                                                                                                                                                                                                                                                                                                    |  |
|   | <p><b>Forklift operation</b><br/>(as per DRAWS/LL-PRALL)<br/>At every access point.<br/>For lifts without / with guide rails<br/>07 100 395 /1<br/>For ejection point with safety slider<br/>07 100 395 /3<br/>For ejection point with side roller<br/>07 100 395 /4<br/>For ejection point with safety light curtain<br/>07 100 395 /5<br/>When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.</p> |  |

# HÄNEL - Checklist for Lean-Lift Safety Signs

|                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                      |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  <p>Old</p>   | <p><b>Safety instructions for standard model service door</b></p> <p>On the inside and outside of the service door</p> <p>07 100 396 /1</p> <p>For retrofits, new operating manual MANL-LL is required.</p> <p>When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.</p>                                                                   |    |
|  <p>Old</p>   | <p><b>Voltage at terminal block</b></p> <p>In wiring cabinet drawer: at power line, additionally with main service switch, with MP 100 network connection, with MP 100 in electrical tray.</p> <p>07 100 399 /1</p> <p><b>Caution!</b> If attaching the sign after the initial installation, disconnect the system from the mains power supply. Voltage is present even when the main switch is turned off.</p> |    |
|              | <p><b>Yellow/black marking tape</b></p> <p>Applied at every access opening at top and bottom</p> <p>07 100 408 /4</p>                                                                                                                                                                                                                                                                                           |   |
|             | <p><b>Outside panelling</b></p> <p>Centred on bearing shells on both sides of the lift.</p> <p>07 100 414 /1</p>                                                                                                                                                                                                                                                                                                |  |
|  <p>Old</p> | <p><b>Access prohibited for access point and extractor</b></p> <p>On right side of every access point; additionally on the left for types greater than 1860</p> <p>07 100 418 /1</p>                                                                                                                                                                                                                            |  |

# HÄNEL - Checklist for Lean-Lift Safety Signs



## High voltage warning arrow

From below on the key panel, on the wiring cabinet drawer and on the electrical tray cover.  
Also attached to a T3 mains transformer (T7) with a mains supply voltage < 400 V.

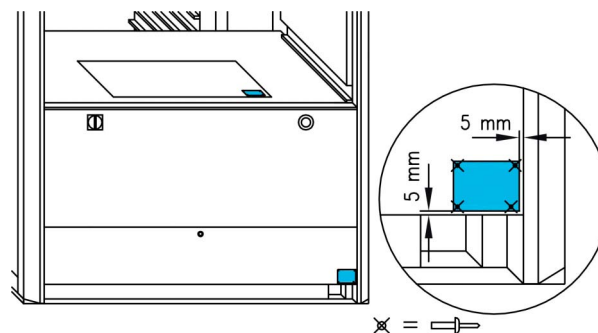
07 100 419 /1

When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.

**Caution!** When mounting signs, always be sure not to damage cables or parts.



Old

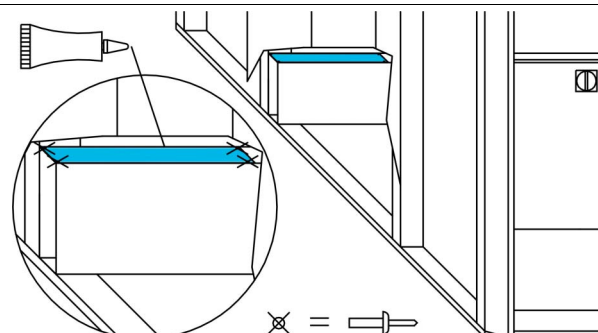


## Safety instructions for locking device

On the locking device case.

07 100 441 /3

For robot operation, additionally on service door below 07 100 396.

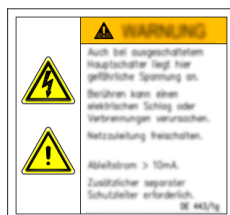
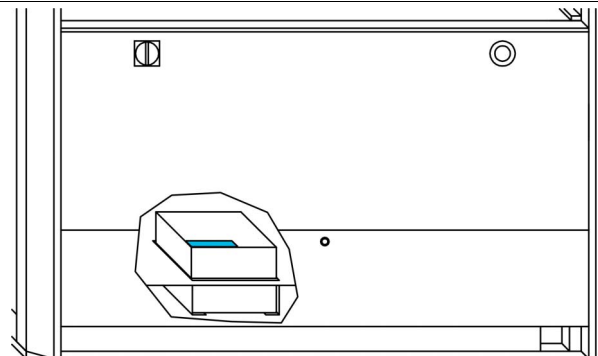


## Frequency converter

In wiring cabinet drawer as sticker on every Mitsubishi frequency converter.  
For ECO-Drive, additionally on FC cover plate.

07 100 442

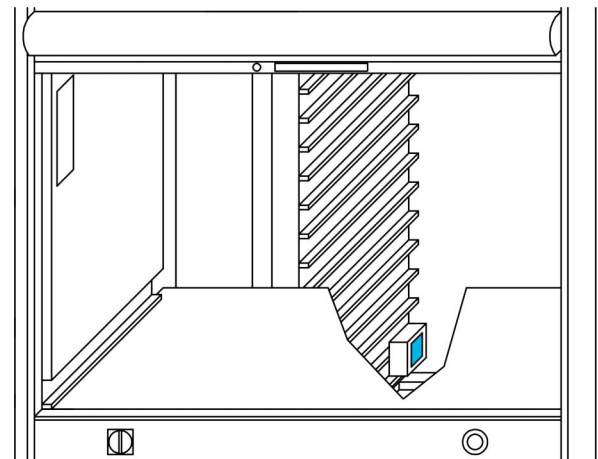
**Caution!** When installing the stickers, no operating element or existing label may be covered up.



## Mains power line high voltage warning arrow

As adhesive label on the mains terminal box.  
Also attached to a T3 mains transformer with a mains supply voltage >= 500 V.

07 100 443 /1



# HÄNEL - Checklist for Lean-Lift Safety Signs

Signs below that are marked with  must be attached depending upon the commission in accordance with the order confirmation:

**Immediately adjacent lifts, lifts as supplement to a multi-unit network and service door, spatially separated from first access point with electrical drawer**



## Interconnected Lean-Lift

For multiple lifts with shared service door (multi-unit network).

- At the service door
- At access opening with main switch at main switch

For individual lifts, if service door spatially separated from first access point with electrical drawer

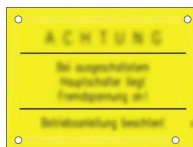
At access point with main switch at main switch

07 100 310 /1

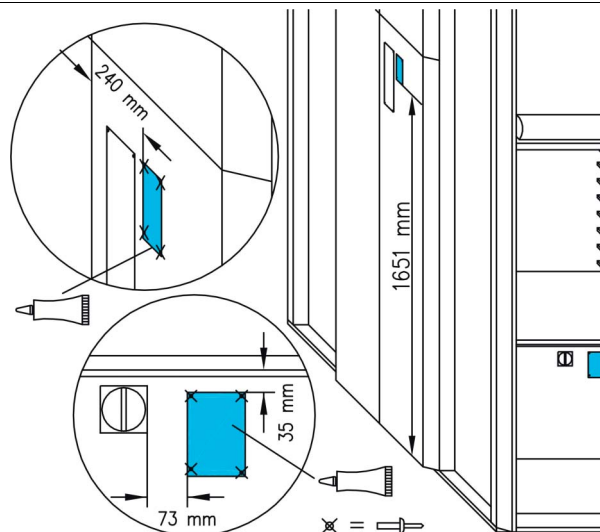
**Caution!** When mounting signs, always be sure not to damage cables or parts.

For retrofits, new operating manual MANL-LL is required.

When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.



Old

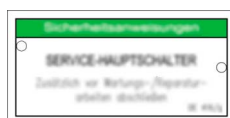
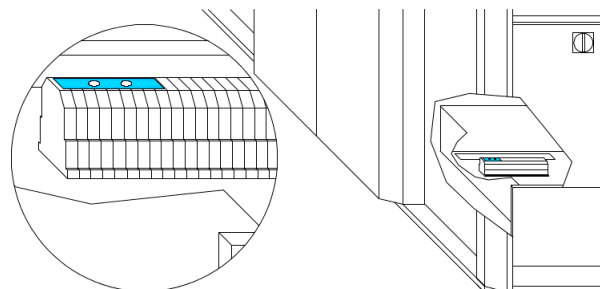


## External voltage at terminal block

For interconnected Lean-Lift in the wiring cabinet drawer when connecting undervoltage trip.

07 100 399 /5

**Caution!** If attaching the sign after the initial installation, disconnect the system from the mains power supply. Voltage is present even when the main switch is turned off.

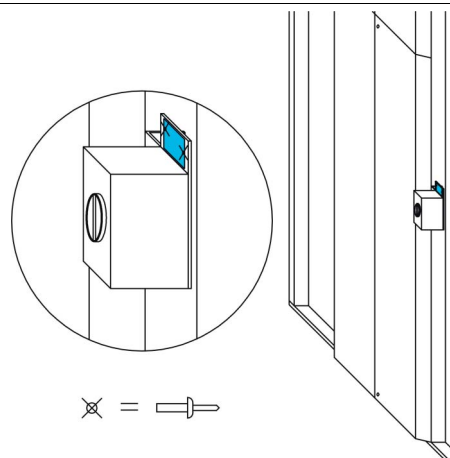


## Main service switch

At every main service switch, if the first access point with main switch is separated from the service door.

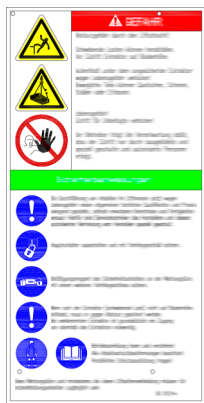
07 100 416 /2

When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.



# HÄNEL - Checklist for Lean-Lift Safety Signs

## Service door at special height (up to max. 600 mm (23.62") above installation surface)



Old

### Safety instruction Service doors at special height;

including danger of falling

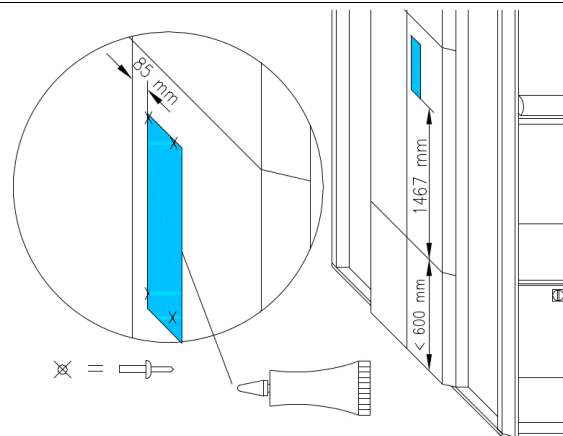
At the service door, inside and outside, if access not at ground-level.

07 100 312 /1

(Standard service door not applicable)

For retrofits, new operating manual MANL-LL is required.

When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.



## Using Hänel transporter



Old

### Transport cart operation

On every transporter at front right

Up to 500 kg (1102.31 lbs) and <type 1640

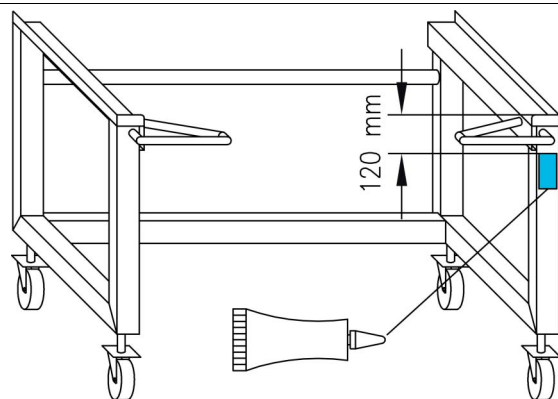
07 100 319 /1

Up to 500 kg (1102.31 lbs) and >=type 1640

07 100 319 /2

Over 500 kg (1102.31 lbs)

07 100 319 /3



## Front and rear panels in wire mesh version (more than 2.74 m (107.87") above access level)

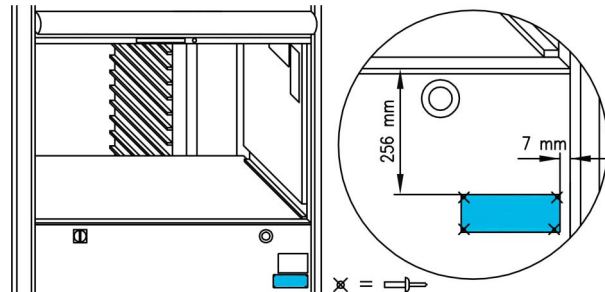


Old

### Safety instructions for wire mesh

For wire mesh version. At every access point.

07 100 372 /1



## Software supplementary modules 00, 20, 25, 29



Old

### Remote-controlled lift operation, shelf transfer, shelf pre-positioning

(as per DRAWS/Remote)

At every access point.

Without special safety equipment

07 100 397 /1

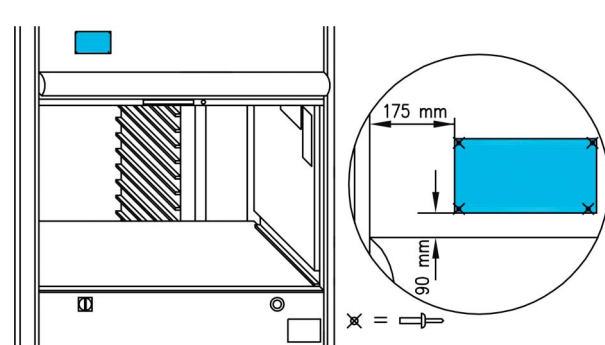
With special safety equipment

07 100 397 /2

With robot operation

07 100 397 /3

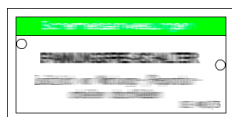
For retrofits, operating manual MANL-LL-EXT is required. When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div> <div> </div> <div> </div> </div> <div> <p><b>Antistatic earthing</b></p> <p>For version with antistatic earthing. At every access point.</p> <p>07 100 401</p> <p><b>Caution!</b> When mounting signs, always be sure not to damage cables or parts.</p> </div> <div> </div>                                                                                                                                                                                        |  |
| <div> <div> </div> <div> </div> </div> <div> <p><b>Container weighing device in the access point</b></p> <p><b>Weighing device</b></p> <p>At every access point with weighing device.</p> <p>07 100 402</p> <p><b>Caution!</b> When mounting signs, always be sure not to damage cables or parts.</p> </div> <div> </div>                                                                                                                                                 |  |
| <div> <div> </div> <div> </div> </div> <div> <p><b>Weight increase of the sliding door with installed magnetic clamp (closing the sliding door in case of fire)</b></p> <p><b>Automatically closing door</b></p> <p>Closing the sliding door in the event of fire. At every access point.</p> <p>07 100 403 / 1</p> <p>When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.</p> </div> <div> </div> |  |
| <div> <div> </div> <div> </div> </div> <div> <p><b>Lifting gear with castors for moving the lift</b></p> <p><b>Lifting gear with castors</b></p> <p>At every side part on the flat steel support between the supports for the lifting device.</p> <p>07 100 407</p> </div> <div> </div>                                                                                                                                                                                   |  |
| <div> <div> </div> <div> </div> </div> <div> <p><b>Perforated openings in the housing, in the headpiece (also on channel or hood)</b></p> <p><b>Openings in housing</b></p> <p>With openings in housing. At every opening.</p> <p>07 100 411 / 1</p> </div> <div> </div>                                                                                                                                                                                                  |  |

# HÄNEL - Checklist for Lean-Lift Safety Signs

## Access point spatially separated from electrical drawer/control cabinet

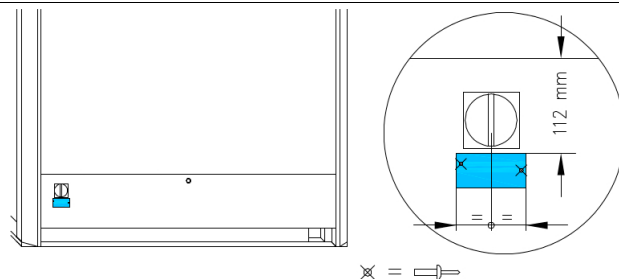


### De-energising switch

On the drawer panel / control cabinet, if the first access point with the main switch is separated from the wiring cabinet drawer / control cabinet.

07 100 416 /3

When the lift is covered with panelling (e.g. air-conditioned enclosure), the sign must also be attached to the panelling.



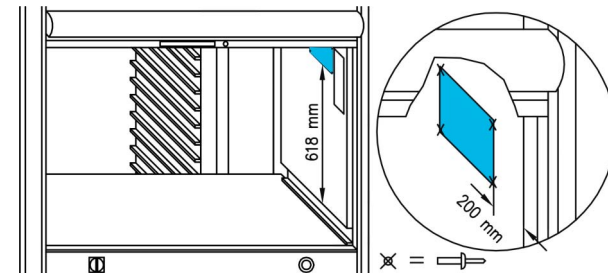
## Enlarged access opening



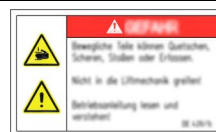
### Enlarged access opening

At every access opening with access height  $\leq 665$  mm (26.18") and access opening  $\geq 1190$  mm (46.85"), on the right, and additionally on the left for types greater than 1860, of every opening.

07 100 417 /1



## Automatic extraction



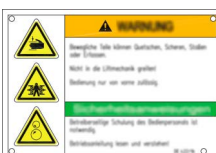
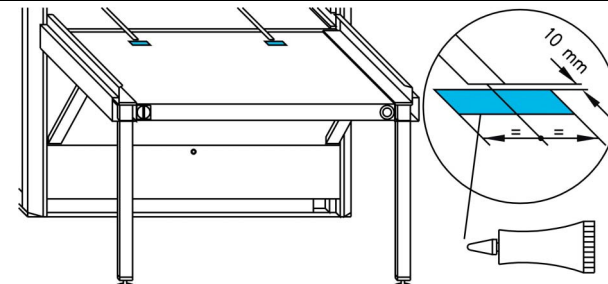
### Automatic container ejector Hand injury warning

At every automatic ejector. Centred to each ejector chain.

07 100 420 /1



Old



### Automatic container ejector

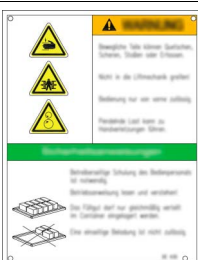
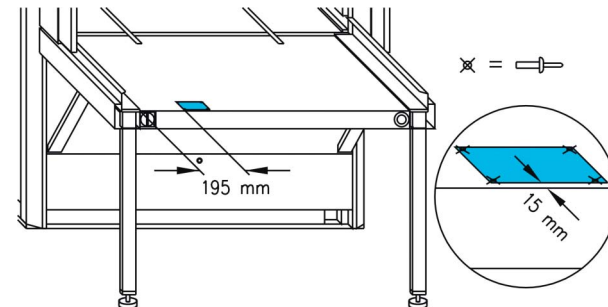
At each ejection point with safety slider or side access point smaller than type 2860.

On cover plate.

07 100 422 /1



Old

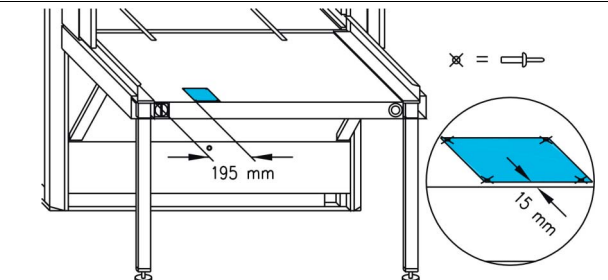


### Automatic container ejector

At every ejector of types greater than 2460.

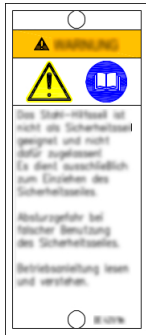
On cover plate.

07 100 430



# HÄNEL - Checklist for Lean-Lift Safety Signs

**Lift height > 4.0 m (13' 1.48")**



## Safety rope

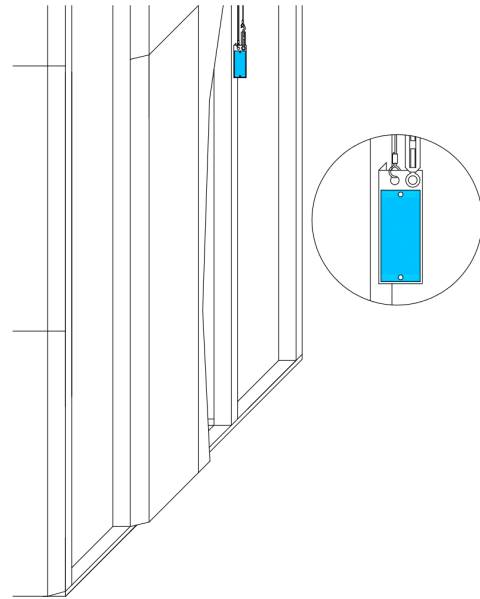
At bracket for safety rope turnbuckle

07 100 421 /1

Fastened with 2x cross recessed pan head sheet-metal screw, ISO 7049 St 4.8x9.5



Old



## Supplements to the short operating instructions for various features



## Supplement to the Short operating instructions

In the access point below the Short operating instructions sign.

Two-person operation.

07 100 433 /1

Uncontrolled rolling materials.

07 100 433 /2

Media used.

07 100 433 /3

Ambient conditions of standard lift.

07 100 433 /4

Special version +40°C to +50°C (+104° to +122°F).

07 100 433 /5

Special version +50°C to +60°C (+122° to +140°F).

07 100 433 /6

Special version 0°C to +5°C (+32° to +41°F).

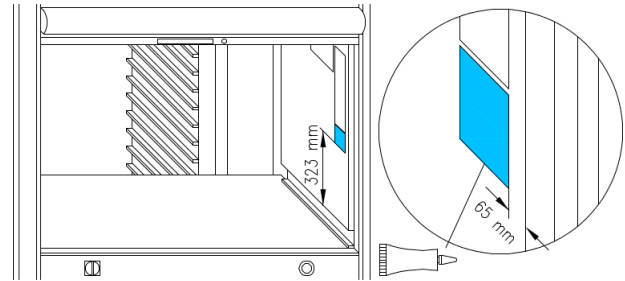
07 100 433 /7

Special version 0°C to -20°C (+32° to -4°F).

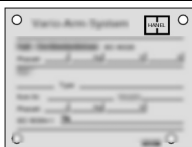
07 100 433 /8

Drying the inside of the lift.

07 100 433 /9



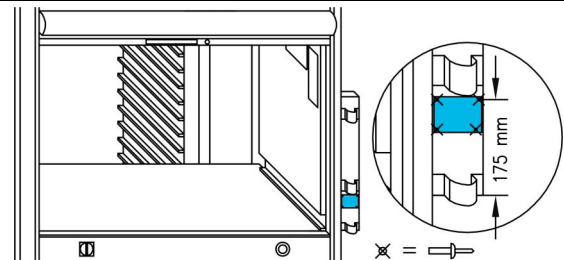
## Varioarm system



## Varioarm system type plate

For Varioarm system.  
At every access point.

07 100 438



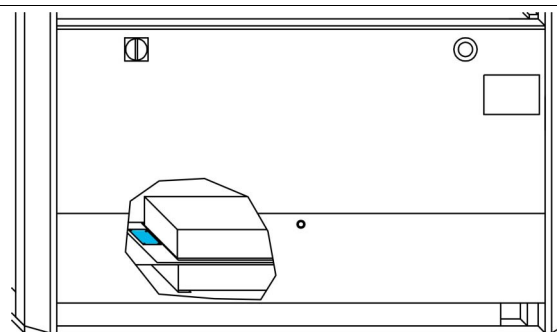
# HÄNEL - Checklist for Lean-Lift Safety Signs

## Eco-Drive, frequency converter with integrated regenerative feedback unit



### Eco-Drive filter

For Eco-Drive.  
In the wiring cabinet drawer.  
07 100 444 /1



Signs below that are marked with **X** must be attached in a special case in accordance with the CE Compliance Officer depending upon the commission in the order confirmation:



### Installer's Declaration

Up to month of manufacture  
12/09

### Manufacturer's Declaration

Only at access point with type plate  
(CE Mark not applicable with  
identification plate).

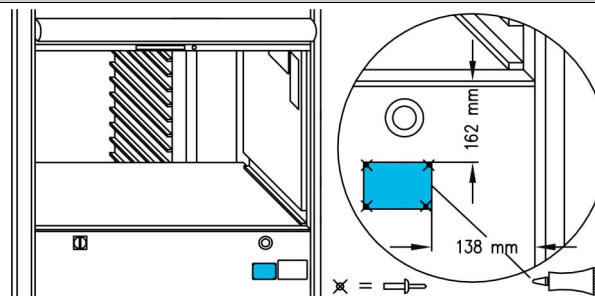
Within the European Economic Area,  
Switzerland and Turkey  
07 100 400 /1

Outside of the European Economic  
Area, Switzerland and Turkey  
07 100 400 /2

When the lift is covered with panelling  
(e.g. air-conditioned enclosure), the  
sign must also be attached to the  
panelling.



Old

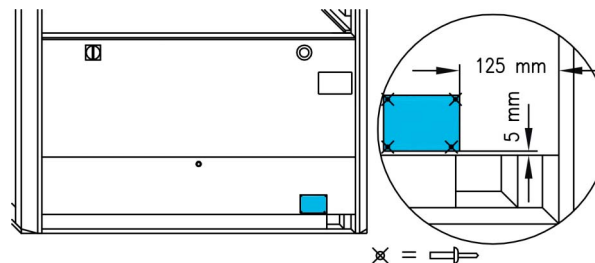


### Safety instructions for other countries

On wiring cabinet drawer for  
delivery outside of EEA,  
Switzerland and Turkey.

07 100 427

When the lift is covered with panelling  
(e.g. air-conditioned enclosure), the  
sign must also be attached to the  
panelling.



All signs present/installed. Name of technician/service: \_\_\_\_\_ Signature: \_\_\_\_\_

|  |                                                                                                                                                                                                                          |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | CA glue WK-20                                                                                                                                                                                                            |
|  | AL/ST blind rivet 2.4 x 6.0 mm (0.095" x 0.236")<br>(Aluminium blind rivets 2.4 x 9.3 mm (0.095" x 0.366") for sign 07 100 396, 07 100 312)<br>required tools: hand riveter, HSS drill bit $\varnothing$ 2.9 mm (0.114") |
|  | Double-sided adhesive tape, 19 mm (0.748") wide                                                                                                                                                                          |