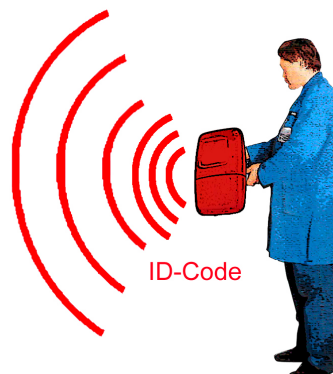
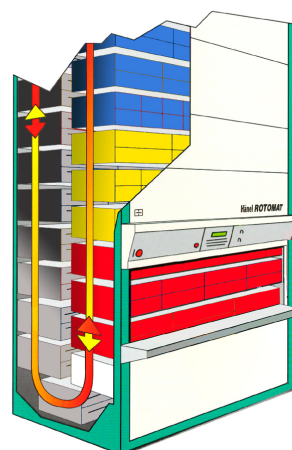
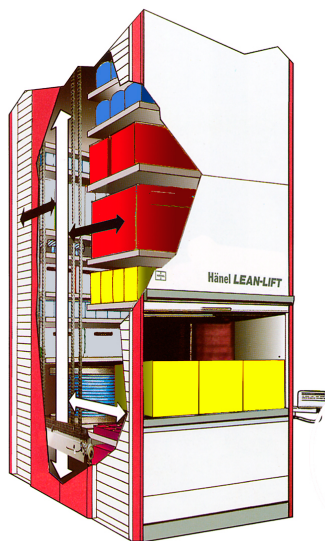
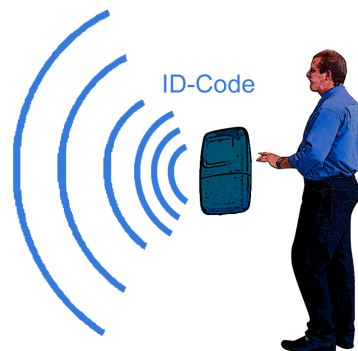
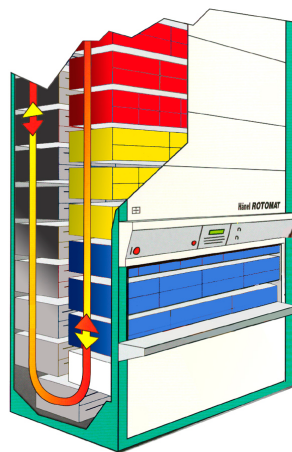


Supplementary Description of the Access Code Management Microprocessor Control System MP 14-S / H[MP 14-S] / H[MP 100D-5] / H[HOST-DATA]

Lean-Lift Multi-Space Rotomat



Supplementary Description of the Access Code Management Microprocessor Control System MP 14-S / H[MP 14-S] / H[MP 100D-5] / H[HOST-DATA]

Lean-Lift
Multi-Space
Rotomat

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**Lean-Lift
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1 Introduction

1.1 Basic information

Contents

This document contains information about operating and configuring the microprocessor control system with the supplementary module 02) Access code management and integrating it into the IT system.

Target group

This document has been written for:

- ◆ Operating personnel
- ◆ IT specialists
- ◆ Installation personnel
- ◆ Supervisors, service and maintenance personnel

Manufacturer

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Fax 0049 (0) 7136/27741
<http://www.hanel.de>

Validity

This document is valid for lifts/carousels of the following series:

Type: Lean-Lift, Multi-Space, Rotomat

Access points: See operating manual

Serial number: See type plate on the lift/carousel

Model year: See type plate on the lift/carousel

If the lift/carousel has multiple access points, the type plate is located at the first access point.

This document is valid for MP control systems with the following or later software versions:

	Printed circuit board S0861
MP 14/12N SYSTEM	V 5.0
MP 14 CPU II	V 5.1 STANDARD PACKAGE 16

Keep in an accessible place as a complete document

- ◆ This documentation is a part of the lift/carousel and must be stored in a location that is accessible to authorised personnel at all times.
- ◆ Chapters may never be removed from this document. If the documentation or any of its pages are lost or missing, they must be replaced immediately.

Change service

This documentation is not subject to the change service of the manufacturer. Changes to this documentation may be made without further notification.

Copyright

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Supplementary Description of the Access Code Management Microprocessor Control System MP 14-S / H[MP 14-S] / H[MP 100D-5] / H[HOST-DATA]

Lean-Lift
Multi-Space
Rotomat

1 Introduction

1.2 Guide through the document

Symbols



Notes with this symbol warn you of a hazard caused by:

- possible severe injuries of a general nature, possibly including fatal injuries.



Here you will find important information and instructions that make using the lift/carousel easier.

- Action: You are prompted to carry out an operating step.
- ➔ Result: You are told the outcome of your operating step.
- x Tip: You are given helpful hints and comments.
- See: You are given references to other documents.

Terms

- ◆ The microprocessor control system uses the term **shelf**. The term "shelf" corresponds to the following:
 - For the Lean-Lift and Multi-Space: **Containers**
 - For the Rotomat: **Carrier level**
 - For rack operation: **Shelf level**
- ◆ The microprocessor control system uses the term **user**.
- ◆ The term **access code management** in this description always refers to **access code management with integrated user management**.

1 Introduction

1.3 Safety instructions



DANGER

All maintenance and repair work on Hänel lifts/carousels must be carried out by specially trained and authorised personnel only. Specially trained and authorised personnel are:

- Personnel who, because of their specialised education and special training in a Hänel factory, can provide proof of adequate skills and experience for these tasks and
- Who have received approval from the manufacturer or an agent authorised within the technical field to carry out these tasks and can carry out such tasks in a traceable manner.

SAFETY INSTRUCTION

Only specially trained and qualified personnel may operate the lift/carousel.

Operating personnel have to follow the lift/carousel user guide.

IT specialists have to follow the lift/carousel user guide and the lift/carousel operating manual.

Installation personnel have to follow the lift/carousel user guide and the lift/carousel operating manual as well as the installation instructions.

Supervisors, service and maintenance personnel have to follow the lift/carousel user guide and the lift/carousel operating manual.

Supplementary Description of the Access Code Management Microprocessor Control System MP 14-S / H[MP 14-S] / H[MP 100D-5] / H[HOST-DATA]

**Lean-Lift
Multi-Space
Rotomat**

1 Introduction

1.4 Supplementary documents

- User Guide for the Article Storage Management Microprocessor Control System MP 14 for Lean-Lift, Multi-Space and Rotomat
or
- User Guide for the HOST-DATA Program Version Microprocessor Control System MP 14 Lean-Lift, Multi-Space and Rotomat
- Technical Description of the Microprocessor Control System MP 14 Lean-Lift and Multi-Space
or
- Technical Description of the Microprocessor Control System MP 14 Rotomat
- Technical Description of the Microprocessor Control System MP 14-S / MP 100D-5 Server for Lean-Lift, Multi-Space and Rotomat
- For optional supplementary descriptions, see the overview in the annex of the user guide

1.5 Prerequisites for the 02) Access code management supplementary module

- ◆ The supplementary module 20) Shelf pre-positioning for jobs is not used.
- ◆ In an MP multi-unit network, lifts/carousels both with and without the supplementary module 02) "Access code management" can be connected to the storage management/buffer management system.
- ◆ The Multi-Space alternating-side requisition function is not used.

1.6 Others

- ◆ For the Lean-Lift and Multi-Space, the shelf should be returned from the access position to storage in the lift/carousel when access is completed. This prevents unauthorised access to the shelf.
- ◆ When done accessing a Rotomat, close the sliding door to prevent unauthorised access.

Supplementary Description of the Access Code Management Microprocessor Control System MP 14-S / H[MP 14-S] / H[MP 100D-5] / H[HOST-DATA]

Lean-Lift Multi-Space Rotomat

2 Overview of features

- ◆ Access code management is composed of users, groups and ranges of access together.
- ◆ A range of access is a storage location area in which an access right applies.
- ◆ A Group (for example, a department) can be assigned to multiple different ranges of access.
- ◆ A range of access can be an individual storage location, multiple adjoining storage locations, a complete lift/carousel, or the entire lift/carousel system.
- ◆ Storage location areas without access control can be defined.
- ◆ A user can be assigned to one or several user groups.
- ◆ Before access is authorised, the user must be determined through an access code request and compared against the access rights of their group.
- ◆ The access code may consist of the following:

	Access code		
	ID number (max. 20 characters) (optional)	Password (max. 20 characters)	Code (max. 20 characters)
Keyboard	X		-
Barcode reader	-		X
Badge reader	-		X
Transponder	-		X

- ◆ When calling up the "Automatic search for storage location" function, only inventories to which the user has access are suggested for retrieval.
- ◆ For a Rotomat with the optional electrical equipment Electronic lock, only users with access authorisation to the entire lift/carousel have access.
- ◆ In conjunction with the Supplementary module 06) Operations journal logging, the ID number can be saved in the operations journal.
For more information, refer to the Supplementary Description of the Operations Journal Logging.
- ◆ Limit values of access code management:

	Maximum number
User	2000
User group	100
Storage location rights (ranges of access)	2000

2 Overview of features

◆ Function for Lean-Lift and Multi-Space:

If a user has access authorisation for the entire lift, the user does not have to enter the access code until he or she presses the [↵] key.

If a user has access authorisations for certain storage location areas only and the function "USER LOG OFF BY SHELF STORAGE" the repeat entry of the access code is omitted until the user presses the [↵] key or no access authorisation has been granted to the selected storage location.

[↵] key = store shelf from access point manually)

◆ Function for Rotomat:

- **Electrical equipment lift run only with sliding door closed (with access authorisation for the entire carousel this can also be done with the sliding door open).**

This electrical equipment is possible only for carousels with one access point.

For users without access authorisation for the entire carousel, the sliding door is closed and locked when the carousel is in home position and during a lift run. It can be opened only if the user has access authorisation for storage or retrieval.

For users with access authorisation for the entire carousel, lift runs can be carried out with the sliding doors open, and without the need to enter the access code again. The user is logged off if he or she closes the sliding door. It then becomes necessary to enter the access code again.

- **Electrical equipment lift run only with door closed (sliding door or individual compartment doors).**

The sliding door/compartment doors are closed and locked when the carousel is in home position and during the lift run. They can be opened for storage or retrieval only if the user has access authorisation.

- **Electrical equipment Lift run only when sliding door open (with electronic lock).**

Only users with access authorisation for the entire lift/carousel can login. The lift run is always carried out with the sliding door open.

With automatic sliding door the manual opening and closing of the door is omitted. The door is closed when the operating element in the taskbar is touched. The function "Close door in basic state after an adjustable door open time" is possible.

➤ See also the "Supplementary Description of the Automatic Sliding Doors".

For the Rotomat, there is a key for the manual/auto mode selection switch for unlocking the sliding doors and for Manual operation following electronics failure. The key is kept by the system administrator.

Supplementary Description of the Access Code Management Microprocessor Control System MP 14-S / H[MP 14-S] / H[MP 100D-5] / H[HOST-DATA]

Lean-Lift Multi-Space Rotomat

3 Lift operation

Standard operation of the lifts/carousels is explained in the corresponding operating manual.

3.1 Lean-Lift and Multi-Space operation

3.1.1 Enter the access code (login)

Description of the operator prompts



Display

- x Depending on the initialisation, the ID number request can be omitted.
- x The ID number and password must be entered using the keyboard / touch keyboard. Alternatively, the code can be read in using a barcode reader, badge reader, or transponder.

Enter the access code (login)

- Enter the ID number.
 - Press the [↵] key.
 - Enter password.
 - Press the [↵] key.
- The MP control system checks whether access authorisation exists for this storage location. If the user does not have access rights to this storage location, the message "No access rights found!" appears.



Description of possible operator prompts

- While a user is logged in, there are additional displays in the main masks.
Main masks = control statuses after completion of the operational processes).

The ID number is displayed in the lift status header area.

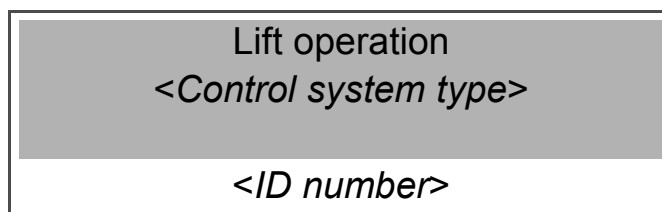
Also in the taskbar:



or



Example screenshot



3 Lift operation

3.1.2 Logging out a user with access authorisation for the entire lift (for example, the system administrator).



After the first verification of access authorisation, the user can access additional storage locations without being prompted to enter the access code again.

User is logged off by manual loading of a shelf with the **【≡↑】** key. Thus the user is again prompted to enter his or her access code when accessing another storage location.

Alternative logout without storing articles on the shelf:

- Immediate logout through touchscreen.



- Immediate logout through touchscreen or automatic logout after the time span has elapsed. This begins as soon as the symbol is displayed.



3.1.3 Logging off user without access authorisation for the entire lift



- x Only if Access code management is initialised to "User log off by shelf storage".

After the first verification of access authorisation, the user can access additional storage locations without being prompted to enter the access code again. However, the operator can only access those storage locations he or she is authorised to. This makes operation faster.

User is logged off by manual loading of a shelf with the **【≡↑】** key. Thus the user is again prompted to enter his or her access code when accessing another storage location.

Alternative logout without storing articles on the shelf:

- Immediate logout through touchscreen.



- Immediate logout through touchscreen or automatic logout after the time span has elapsed. This begins as soon as the symbol is displayed.



3 Lift operation

3.1.4 Removing a shelf



If a user is authorised to access an entire shelf (compartments 1 to 255), he or she can bring this shelf to the access point and unregister it using the **[-U]** key.

3.1.5 Bringing shelves to the access point manually



If a user is authorised to access an entire shelf (compartments 1 to 255), he or she can bring this shelf to the access point using the **[≡↓]** key.

3.1.6 Automatic search for storage location



When carrying out an "Automatic search for storage location" by pressing the **[↓]** key, the user is automatically assigned a free storage location according to his or her access authorisation and the entered container size. If no more corresponding storage locations are available, the message "No storage location free" appears.

3 Lift operation

3.2 Operation of the Rotomat

3.2.1 Electrical equipment Lift run only with sliding door closed (with access authorisation for the entire lift/carousel this can also be done with the sliding door open).



x This electrical equipment is possible only for lifts/carousels with one access point.

- ◆ The lift/carousel is secured by a mechanical lock on the sliding door.
- ◆ When there is access authorisation for the entire lift/carousel, a lift run can be performed even when the sliding door is open.

When there is no access authorisation for the entire lift/carousel, a lift run can be performed only when the sliding door is closed. After the storage/retrieval process is complete, the user is prompted to close the sliding door.

◆ **Enabling access to the storage location (logging in) is done by:**

- Enter the access code and open the sliding door after the storage location has been approached.

◆ **Disabling access to the storage location (logging out) :**

- By using the touchscreen and closing the sliding door.



- Trigger the "Log out after a specific time period" function and close the sliding door.
The timer is started on the main masks and, after the time has elapsed, disables access to the access point.
(main masks = control statuses after completion of the operational processes).



- By closing the sliding door.
- ◆ The door is opened and closed automatically instead of manually by using the "Automatic sliding door" supplementary feature.

Supplementary Description of the Access Code Management Microprocessor Control System MP 14-S / H[MP 14-S] / H[MP 100D-5] / H[HOST-DATA]

Lean-Lift Multi-Space Rotomat

3 Lift operation

3.2.1.1 Enabling access to the storage location (logging in)

Description of the operator prompts



Display

- x Depending on the initialisation, the ID number request can be omitted.
- x The ID number and password must be entered using the keyboard / touch keyboard. Alternatively, the code can be read in using a barcode reader, badge reader, or transponder.

Enter the access code (login)

- Enter the ID number.
- Press the [↵] key.
- Enter password.
- Press the [↵] key.
- The MP control system checks whether access authorisation exists for this storage location. If the user does not have access rights to this storage location, the message "No access rights found!" appears.



- After the storage location has been approached.
- Open sliding door.
- Access to the access point is enabled.



Description of possible operator prompts

- While a user is logged in, there are additional displays in the main masks.
Main masks = control statuses after completion of the operational processes).

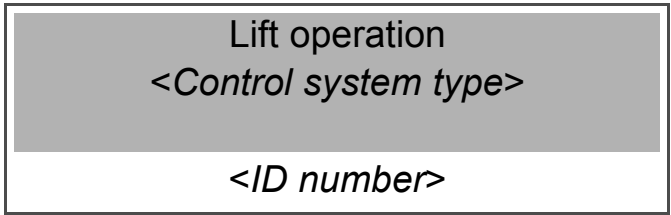
Example screenshot

3Lift operation

Description of possible operator prompts

Example screenshot

The ID number is displayed in the lift status header area.



3 Lift operation

3.2.1.2 Disabling access to the storage location (logging out)



or

Closing the sliding door



x When there is access code management, the keyboard is always disabled after the lift/carousel is switched on.

Description of the operator prompts

Disabling access to the access point (logging out)

- Touch the "Access code management" button in the taskbar.

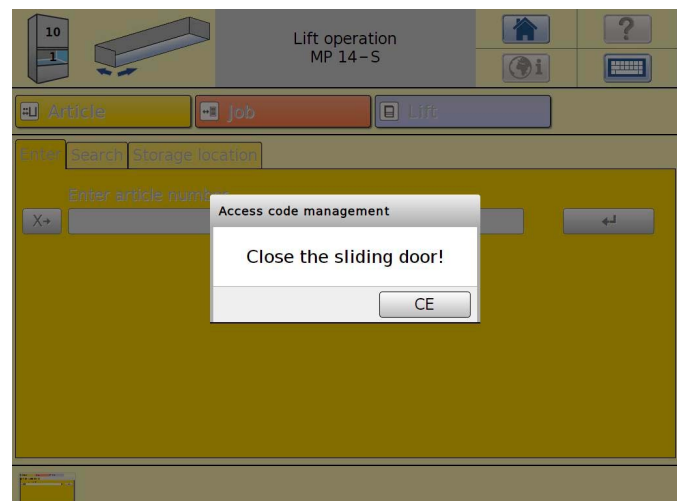


or

- The "Log out after a specific time period" function has been triggered.



- Close the sliding door.
- ➔ Access to the access point is disabled.
The sliding door is closed and locked.



or

- Close the sliding door.
- ➔ Access to the access point is disabled.
The sliding door is closed and locked.

3 Lift operation

3.2.1.3 Manual shelf selection by sight



A manual shelf selection by sight with the **【≡↑】** / **【≡↓】** keys is only possible if the user has an access authorisation for the entire lift/carousel (all storage locations).

After you press the **【≡↑】** / **【≡↓】** keys, you are prompted to enter the access code. You can then manually operate the lift/carousel as many times as you want, but the door must remain open while doing so. If the door is closed, you will need to re-enter the access code in order to return to manual operation.

3 Lift operation

3.2.2 Electrical equipment Lift run only with door closed (sliding door or individual compartment doors)

- ◆ The lift/carousel is secured by a mechanical lock on the sliding door.
- ◆ Only one lift run is possible when the sliding door or compartment doors are closed.
- ◆ After the storage/retrieval process is complete, the user is prompted to close the sliding door.
- ◆ **Enabling access to the storage location (logging in) is done by:**
 - Enter the access code and open the sliding door after the storage location has been approached.
- ◆ **Disabling access to the storage location (logging out) :**
 - By using the touchscreen and closing the sliding door.

 - Trigger the "Log out after a specific time period" function and close the sliding door.
The timer is started on the main masks and, after the time has elapsed, disables access to the access point.
(main masks = control statuses after completion of the operational processes).

 - By closing the sliding door.
- ◆ The door is opened and closed automatically instead of manually by using the "Automatic sliding door" supplementary feature.

3 Lift operation

3.2.2.1 Enabling access to the storage location (logging in)

- ◆ For the lift operation, see Chapter 3.2.1.1 on page 15.

3.2.2.2 Disabling access to the storage location (logging out)

- ◆ For the lift operation, see Chapter 3.2.1.2 on page 17.

3.2.2.3 Manual shelf selection by sight



A manual shelf selection by sight with the **【≡↑】** / **【≡↓】** keys is only possible if the user has an access authorisation for the entire lift/carousel (all storage locations).

After you press the **【≡↑】** / **【≡↓】** keys, you are prompted to enter the access code. Afterwards, the lift/carousel moves to the next shelf.

3 Lift operation

3.2.3 Electrical equipment Lift run only when sliding door open (with electronic lock).

- ◆ The lift/carousel is secured by a mechanical lock of the sliding door ("Electronic lock" supplementary feature).
- ◆ The lift run is always carried out with the sliding door open.
- ◆ Only users with access authorisation for the entire lift/carousel can login.
- ◆ **Enabling access to the access point (logging in) is done by:**
 - Entering access code and opening the sliding door.
- ◆ **Disabling access to the access point (logging out) is done:**
 - By using the touchscreen and closing the sliding door.

 - Trigger the "Log out after a specific time period" function and close the sliding door.
The timer is started on the main masks and, after the time has elapsed, disables access to the access point.
(main masks = control statuses after completion of the operational processes).

 - By closing the sliding door.
- ◆ The door is opened and closed automatically instead of manually by using the "Automatic sliding door" supplementary feature.

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Lean-Lift
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3 Lift operation

3.2.3.1 Enabling access to the access point (logging in)

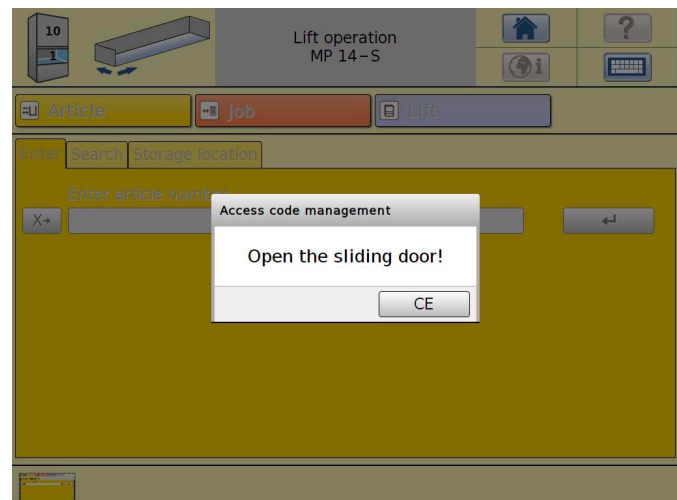
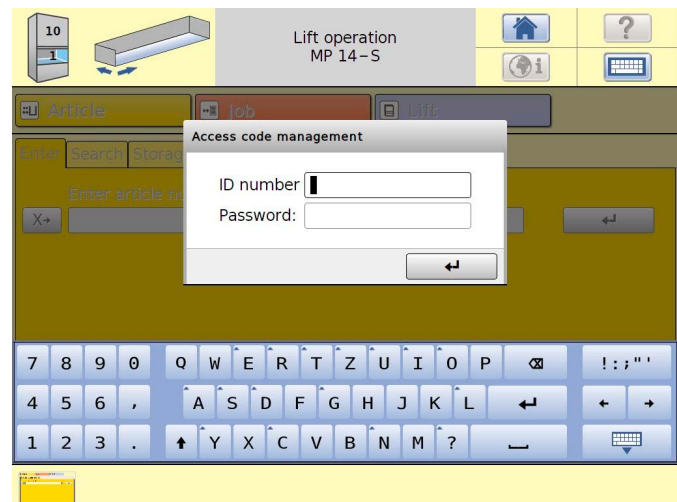
Description of the operator prompts

Enabling access to the access point (logging in)

- Enter the ID number.
 - Press the [↵] key.
 - Enter password.
 - Press the [↵] key.
 - The MP control system checks whether access authorisation exists for the entire lift/carousel. If the user does not have access rights to this lift/carousel, the message "No access rights found!" appears.
- Keyboard is enabled and the sliding door is unlocked.

- Open sliding door.
- Access to the access point is enabled.
- If the sliding door is not opened within 10 sec., the keyboard is disabled again and the sliding door is locked again. Then the ID number and password have to be re-entered.

Display



3 Lift operation

3.2.3.2 Disabling access to the access point (logging out)



or

Closing the sliding door



x When there is access code management, the keyboard is always disabled after the lift/carousel is switched on.

Description of the operator prompts

Disabling access to the access point (logging out)

- Touch the "Access code management" button in the taskbar.

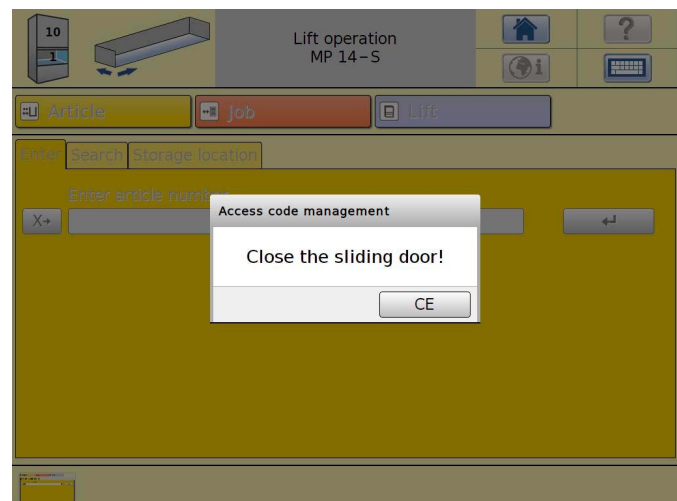


or

- The "Log out after a specific time period" function has been triggered.



- Close the sliding door.
- ➔ Access to the access point is disabled.
The sliding door is closed and locked. Additionally, the keyboard is disabled.



or

- Close the sliding door.
- ➔ Access to the access point is disabled.
The sliding door is closed and locked. Additionally, the keyboard is disabled.

3 Lift operation

3.2.4 Manual positioning to a shelf location to enter it



After you press the [↓] keys and enter the storage location, you are prompted to enter the access code.

3.2.5 Automatic storage location assignment

When carrying out an "Automatic search for storage location" by pressing the [↓] key, the user is automatically assigned a free storage location according to his or her access authorisation and the entered container size. If no more corresponding storage locations are available, the message "No storage location available" appears.

3.2.6 Manually unlocking the doors

The door of the lift/carousel can be unlocked manually, for example to correct a situation that has tripped the safety light barriers and thus caused the lift/carousel to come to a stop.

Manually operated sliding door:

To unlock the door, turn the lockable manual/automatic selector switch to the centre position. Once the door is open, you can correct the cause of the malfunction.

The key to the manual/auto mode selection switch for unlocking the doors and for manual operation of the lift/carousel is kept by the system administrator.

Automatic sliding door:

To open the door, turn the lockable manual/automatic selector switch to the centre position. After that, the door can be opened using selector switch S27.

The key to the manual/auto mode selection switch for unlocking/opening the doors and for manual operation of the lift/carousel is kept by the system administrator.

3.2.7 Manual operation following electronics failure

If the electronics fail, the lift/carousel can be rotated with the manual/auto mode selection switch. For this, the switch must be put into the left, non-locking manual operation position. The lift/carousel then rotates slowly downward. The direction of rotation cannot be reversed.

The key to the manual/auto mode selection switch for unlocking the doors and for manual operation of the lift/carousel is kept by the system administrator.

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4 Web server with storage portal application

4.1 Calling up the storage portal

- ◆ The storage portal application can be called up right at the MP control system or using an external computer browser connected to the integrated web server.

For additional information, see:

- User Guide for the Article Storage Management for the MP 14-S / H [MP 14-S] / H [MP 100D-5] microprocessor control system or
- Technical Description of the Microprocessor Control System MP 14-S / MP 100D-5 Server for Lean-Lift, Multi-Space and Rotomat

4.1.1 Expanding the menu structure

Description

- If the supplementary module 02) Access code management is activated, an additional "User management" main menu item appears with the submenu items "User groups" and "User".

The following supplementary functions are available:

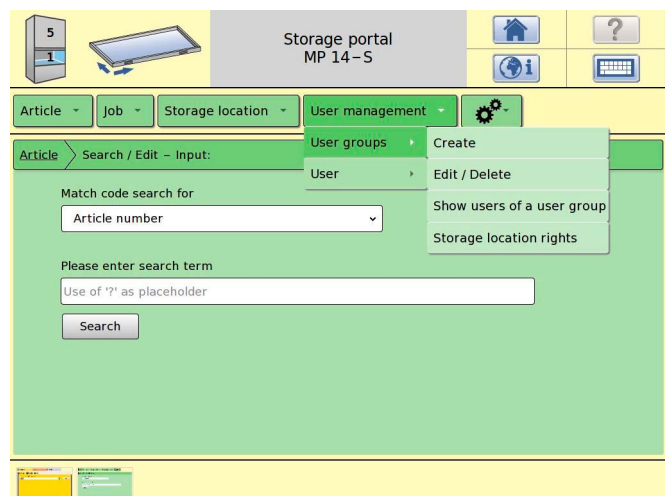
"User groups" menu item:

- "Create"
- "Edit / Delete"
- "Show users of a user group"
- "Storage location rights"

"User" menu item:

- "Create"
- "Edit / Delete"
- "Show storage location rights"
- "Group allocation"

Display



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5 Initialisation (for installation and maintenance personnel only)



This chapter is intended for instructed installation and maintenance personnel only.

5.1 Activating the supplementary module 02) Access code management

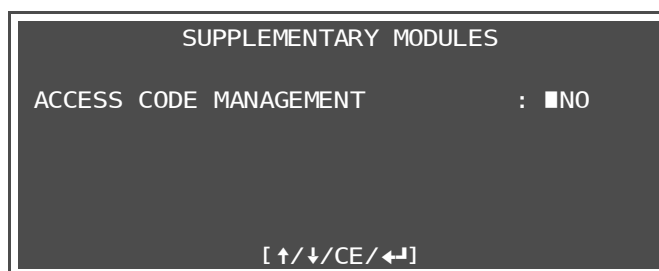


Description of the operator prompts

Activating the supplementary module 02) Access code management

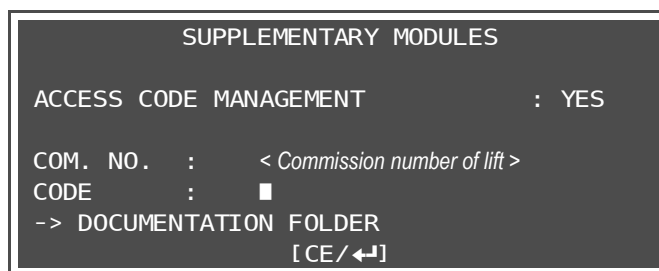
- Press the [**↵**] key, the [**1**] key and then the [**5**] key.
- Enter the password (default setting "22488").
- Press the [**←**] key.
- Press the [**3**] key.
- Press the [**↑**] / [**↓**] key to select "YES".
- Press the [**←**] key.

Example screenshot



Code prompt for switch from "NO" to "YES"

- ➔ Commission number of the lift/carousel is displayed as shown on the type plate.
- Enter the code specific to the lift/carousel.
The activation code for the supplementary module is kept in the documentation folder "Hänel Rotomat / Lean-Lift / Multi-Space Technical Documentation".
- Press the [**←**] key.



5
Initialisation (for installation and maintenance personnel only)

Description of the operator prompts

Initialise access code request for job processing

- Press the [↑] / [↓] key to select "YES" or "NO".
- Press the [↵] key.

Example screenshot

A screenshot of a terminal screen with a dark background and light-colored text. At the top, it says 'SUPPLEMENTARY MODULES'. Below that, it shows 'ACCESS CODE MANAGEMENT' followed by ': YES' and 'FOR JOB PROCESSING' followed by ': ■NO'. At the bottom, there is a prompt '[↑/↓/CE/↵]'.

Parameters / description
FOR JOB PROCESSING If you select "NO", jobs are processed without entry of the access code. The access authorisation is then not considered. x This prompt is omitted with the optional electrical equipment Electronic lock.

A simple line drawing of a right hand with the index finger pointing to the right.

Initialising user log-off for Lean-Lift and Multi-Space

- Press the [↑] / [↓] key to select "YES" or "NO".
- Press the [↵] key.

- x The following prompt is displayed only for the Lean-Lift and Multi-Space.

A screenshot of a terminal screen with a dark background and light-colored text. At the top, it says 'SUPPLEMENTARY MODULES'. Below that, it shows 'ACCESS CODE MANAGEMENT' followed by ': YES' and 'USER LOG-OFF BY' followed by ': ■NO'. Below that, it shows 'SHELF STORAGE' followed by ': ■NO'. At the bottom, there is a prompt '[↑/↓/CE/↵]'.

Description
If you select "YES", the user does not have to re-enter the access code until he or she presses the [≡↑] key or no access authorisation has been granted.

5
Initialisation (for installation and maintenance personnel only)

Description of the operator prompts

- Press the [↑] / [↓] key to select "YES".
- Press the [←] key.
- ➔ The settings are saved.
- ➔ The supplementary module has been activated.

Example screenshot

SUPPLEMENTARY MODULES
ACCESS CODE MANAGEMENT

LOG OUT AFTER A SPECIFIC TIME PERIOD:

■NO

[↑/↓/CE/←]

Options / description
◆ NO
◆ 1 MINUTE (NO ACTIVITY ON THE MAIN MASKS)
◆ 5 MINUTES (NO ACTIVITY ON THE MAIN MASKS).
◆ 10 MINUTES (NO ACTIVITY ON THE MAIN MASKS)
◆ 15 MINUTES (NO ACTIVITY ON THE MAIN MASKS)

SUPPLEMENTARY MODULES

ALL ENTRIES CORRECT ?
-> DATA BEING SAVED

■NO

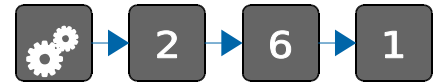
[↑/↓/←]

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5 Initialisation (for installation and maintenance personnel only)

5.2 Format storage management (only for MP 14-S / H[MP 14-S] / H[MP 100D-5])

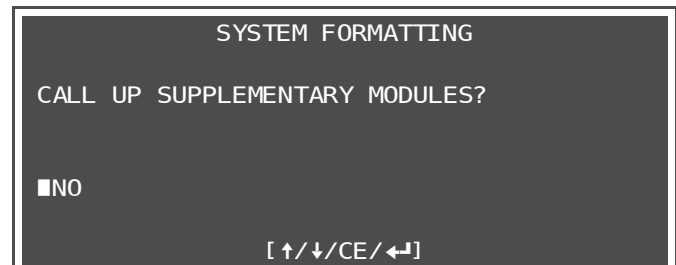


Description of the operator prompts

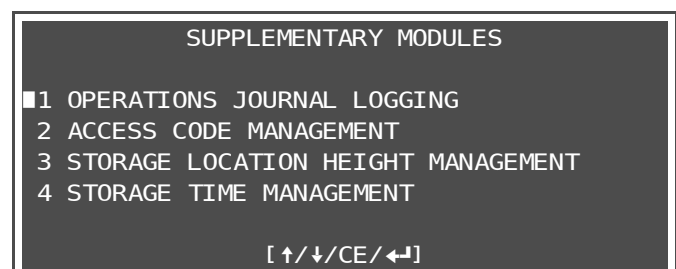
Formatting the supplementary module 02) Access code management with storage management

- Press the **[F1]** key, the **[F2]** key and then the **[F6]** key.
- Enter the password (default setting "22488").
- Press the **[F4]** key.
- Press the **[F1]** key.
- Enter the password (default setting "22488").
- Press the **[F4]** key.
- Prompts about the system formatting appear.
- Edit or keep the settings according to the Technical Description until the next prompt is displayed.
- Press the **[F8] / [F9]** key to select "YES".
- Press the **[F4]** key.

Example screenshot



- Press the **[F2]** key to select "Access code management".



5Initialisation (for installation and maintenance personnel only)

Description of the operator prompts	Example screenshot
- Press the [↑] / [↓] key to select "YES" or "NO". - Press the [↵] key.	SUPPLEMENTARY MODULES ACCESS CODE MANAGEMENT INTEGRATED USER MANAGEMENT ■YES YES [↑/↓/CE/↵]
	Parameters / description INTEGRATED USER MANAGEMENT Individual storage location areas (access areas) can be allocated to a user group. This allows all users that belong to this group to access the listed storage location areas. x For MP 14, this prompt does not appear. The setting is automatically set to "YES".
For each prompt: - Press the [↑] / [↓] key to select "YES" or "NO". - Press the [↵] key. → The supplementary module "Access code management" has been formatted with storage management. → Further prompts about the system formatting appear. - Edit or keep the settings according to the Technical Description and activate formatting.	SUPPLEMENTARY MODULES ACCESS CODE MANAGEMENT INTEGRATED USER MANAGEMENT REQUEST ID NUMBER DELETE ENTRIES? YES YES ■NO NO [↑/↓/CE/↵] Parameters / description REQUEST ID NUMBER The user can be prompted to enter the access code either with or without an ID number. DELETE ENTRIES This prompt appears only if the formatting of the storage management system has not been changed and data are present in the access code memory. If you select "YES", the access code memory is deleted.

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5 Initialisation (for installation and maintenance personnel only)

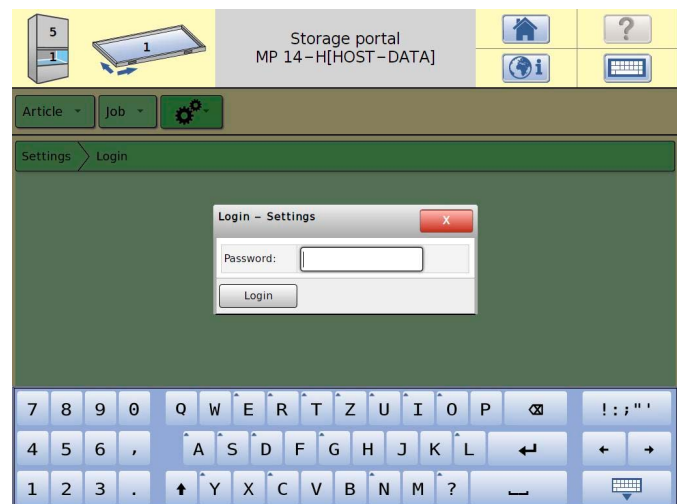
5.3 Activating the supplementary module 02) "Access code management" in buffer management (storage portal) (only for MP 14-H[HOST-DATA])

Description of the operator prompts

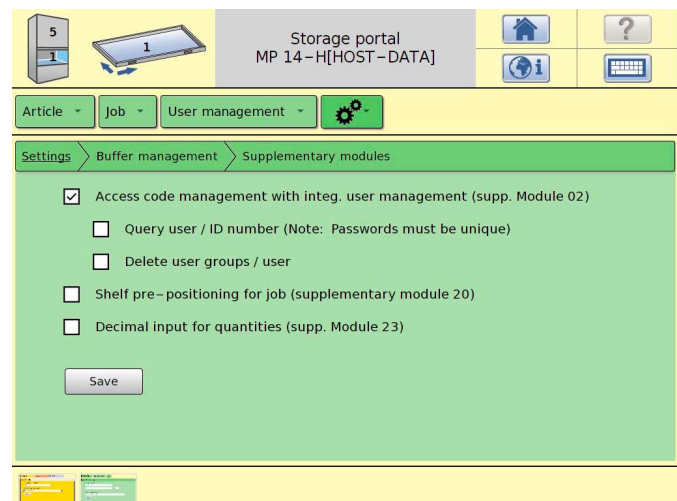
Select the menu items Settings / Buffer management / Supplementary modules.

- Enter the password (default setting "22488").
- Press the [↵] key.

Display



- Active the supplementary module 02).
- Press the **Save** button.



6 Manage user data (only for installation and maintenance personnel and IT technicians)



This chapter is intended for instructed installation and maintenance personnel and IT specialists only.

- x This chapter contains information about creating, modifying and deleting user groups, users and their storage location rights.
- x The user management system manages individual rights. In the case of access code management, these are access rights to storage locations.
- x The storage location rights are coupled to the user groups. Users are assigned to at least one user group. Only the users of the "ADMINISTRATOR" group have access to the user management system and can assign storage location rights.

The user data can be managed using a browser only. There are two options for operation with browser:

1. Operation using the storage portal on the MP control system.
2. Operation using the storage portal through an external PC browser. The PC must be connected to the MP control system via Ethernet (e.g. Internet Explorer).

For additional information, refer to Chapter 4: Web server with storage portal application

The following section describes the storage portal operator prompts.

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6 Manage user data (only for installation and maintenance personnel and IT technicians)

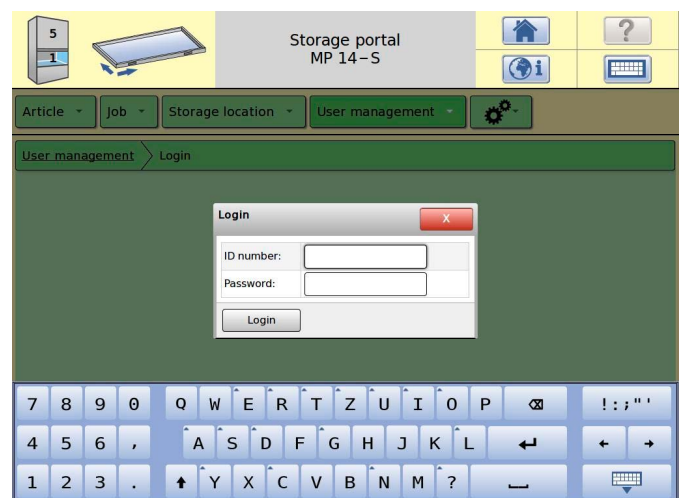
6.1 Login user management

Description of the storage portal operation

Call up the "User management" menu

- Call up the function under the **User management** menu item.
- The login window is displayed.
- Only the users of the "Administrator" group have access to the user management system.
- Touch the "ID number" input field and enter the ID number via the keyboard (default setting is "9999").
- Touch the "Password" input field and enter the password via the keyboard (default setting is "22488").
- Touch the **Login** button.
- Selected user management function is called up

Example screenshot



- x The access code for the system administrator to log in is set by default at the factory to ID number "9999" and password "22488". The password can be changed. For additional information, see Chapter 6.6 on page 46.
- x The system administrator is automatically logged off when exiting the "User management" menu item.

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6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.2 Manage user groups

In the "User management - User groups" menu, you can create new user groups as well as edit or delete existing ones.

You can also show, change or delete the storage location rights of a user group. You can also show user groups with access authorisation for a selected storage location.

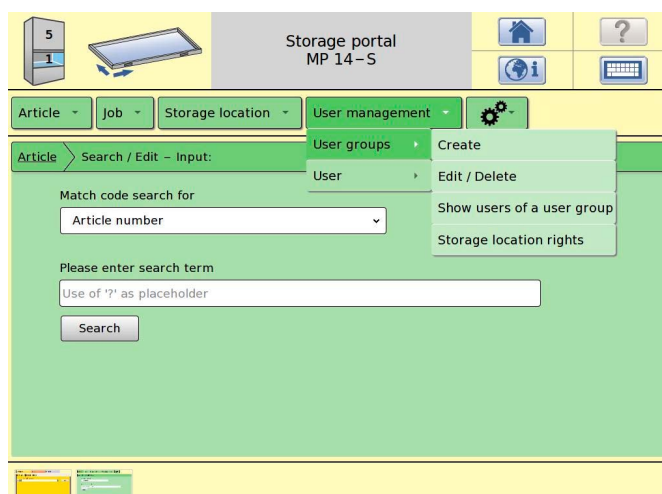
Description of the storage portal operation

"User groups" menu item:

The following functions are available:

Function	See Chapter
Create	6.2.1
Edit / Delete	6.2.2
Show users of a user group	6.2.3
Storage location rights	6.3

Example screenshot

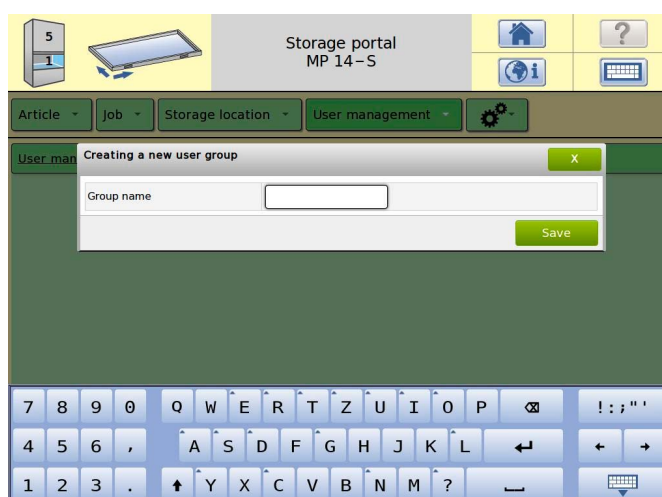


6.2.1 Create

Description of the storage portal operation

- Touch the input field and enter the group name via the touch keyboard.
- Touch the **Save** button.
- ➔ A new group is created.
No users or storage location rights are assigned to this group yet.

Example screenshot



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6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.2.2 Edit / Delete

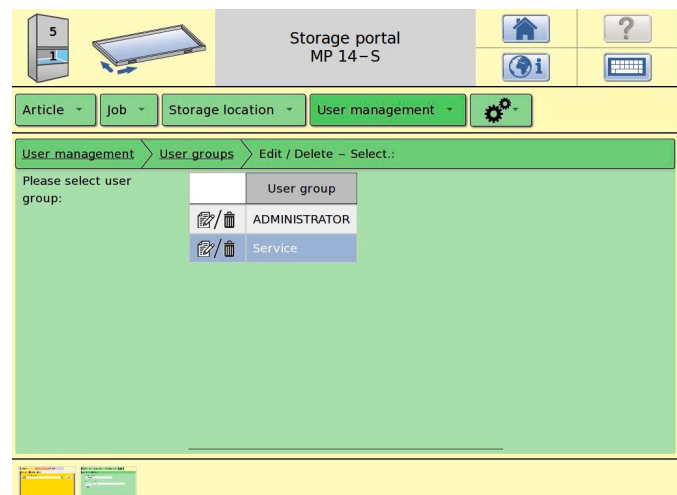
Description of the storage portal operation

Selecting a user group

→ Touch the desired user group in the list.

If necessary, touch the **Back** / **Next** buttons to scroll through the selection list.

Example screenshot

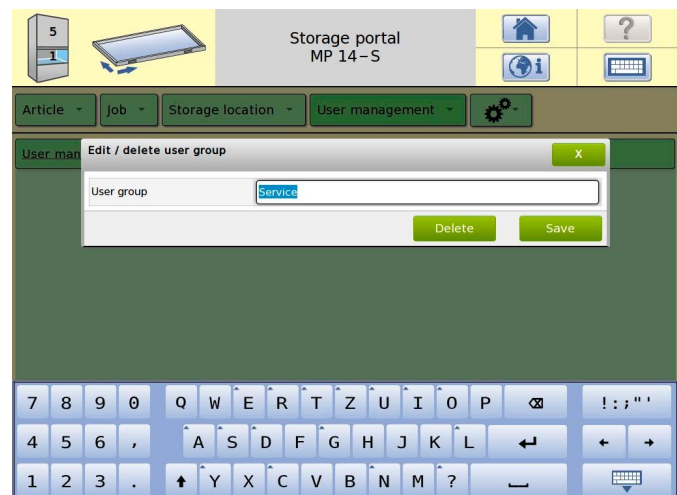


Editing a user group

→ The input field shows the current name of the user group.

- Change the name in the input field.
Note: Each name may only be assigned once.
- Touch the **Save** button.

Note: The "ADMINISTRATOR" group name cannot be changed.



Deleting a user group

Deleting one user group deletes all users that do not belong to another user group.

- Touch the **Delete** button.
- The user group is deleted after another confirmation prompt is confirmed.
Note: The "ADMINISTRATOR" user group cannot be deleted.



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6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.2.3 Show users of a user group

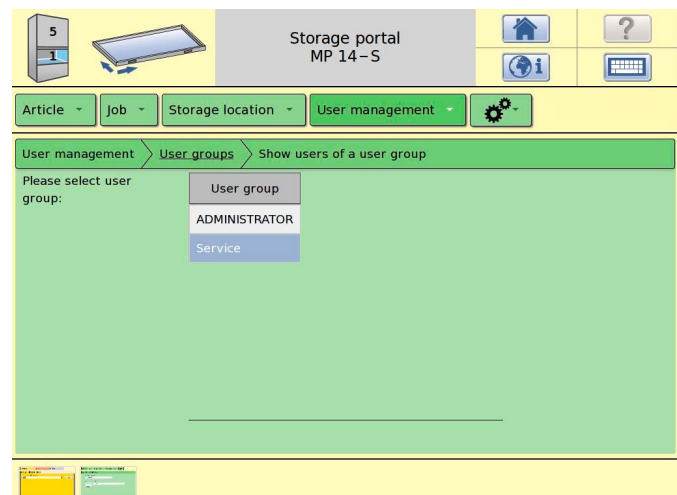
Description of the storage portal operation

Selecting a user group

→ Touch the desired user group in the list.

If necessary, touch the **Back** / **Next** buttons to scroll through the selection list.

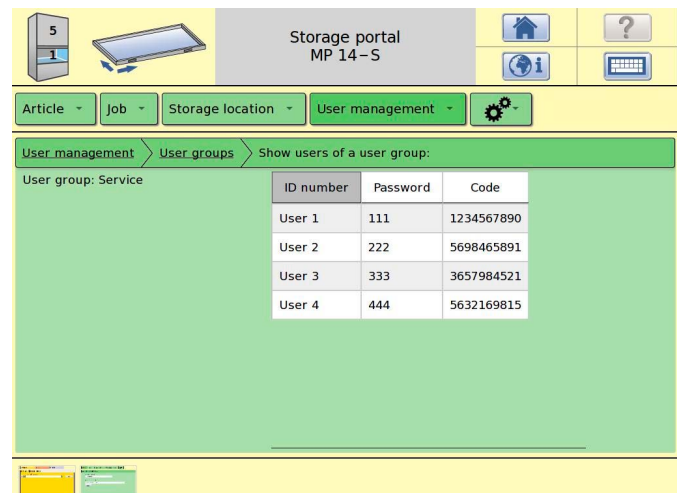
Example screenshot



Display users of a user group

→ All users that belong to the selected group are shown in a list.

If necessary, touch the **Back** / **Next** buttons to scroll through the selection list.



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6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.3 Manage storage location rights

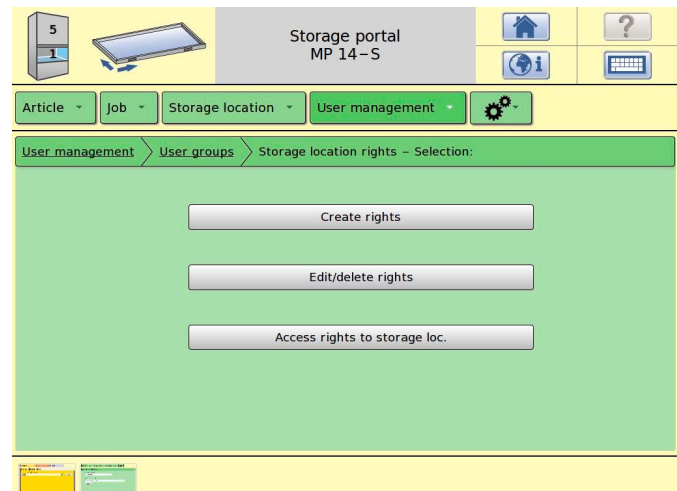
In the "User management - User groups - Storage location rights" menu, you can create, show, edit and delete access rights for a previously selected user group.
You can also show user groups or users with access to a selected storage location.

Description of the storage portal operation

Under the "User management - User groups - Storage location rights" menu item, the following functions are available for selection.

Function	See Chapter
Creating rights	6.3.1
Editing / deleting rights	6.3.2
Access rights to storage location	6.3.3

Example screenshot



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6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.3.1 Creating rights

Description of the storage portal operation

Selecting a user group

- Touch the desired user group in the list.
- If necessary, touch the **Back** / **Next** buttons to scroll through the selection list.
- The name of the user group is shown in the first input field.
- Touch the corresponding input fields and enter the storage location boundaries via the touchscreen keyboard.
- Touch the **Save** button.
- The access rights for the selected user group are created. If no more storage location areas are possible, the message "Memory is full" appears.
- The group "ADMINISTRATOR" does not have to have access rights for the entire lift/carousel.

Example screenshot

Field	Value	Range
Name of user group	Service	
From lift	5	[1 - 99]
To lift	5	[1 - 99]
From shelf	1	[1 - 254]
To shelf		[1 - 254]
From compartment		[1 - 255]
To compartment		[1 - 255]
From compartment depth		[1 - 99]
To compartment depth		[1 - 99]

Notes:

A user group has access to a whole shelf if the number of compartments "From compartment" = 1 and "To compartment" is at least the number of compartments.

A user group has access to a whole lift/carousel if all the shelf numbers present in the lift/carousel lie in the range between "From shelf" and "To shelf" and all compartments lie in the range between "From compartment" and "To compartment".

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6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.3.2 Editing / deleting rights

Description of the storage portal operation

Selecting a user group

→ Touch the desired user group in the list.

If necessary, touch the **Back** / **Next** buttons to scroll through the selection list.

Selecting access rights

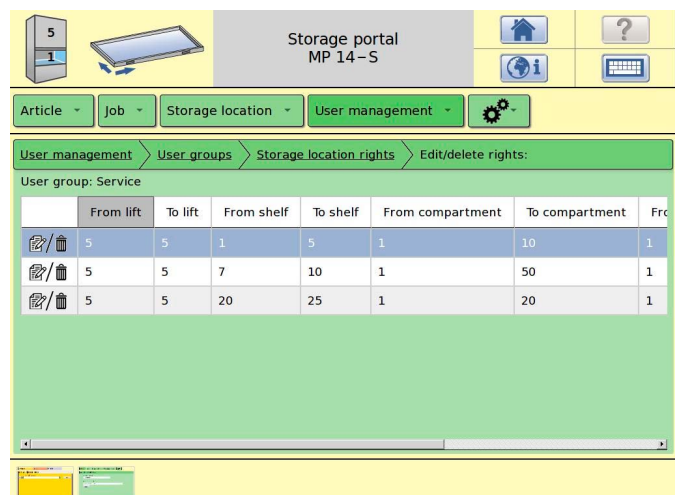
→ All access rights of the selected user group are shown in a list.

- Touch the desired access right in the list.

If necessary, touch the **Back** / **Next** buttons to scroll through the selection list.

→ The selected access right is shown in a new dialogue

Example screenshot

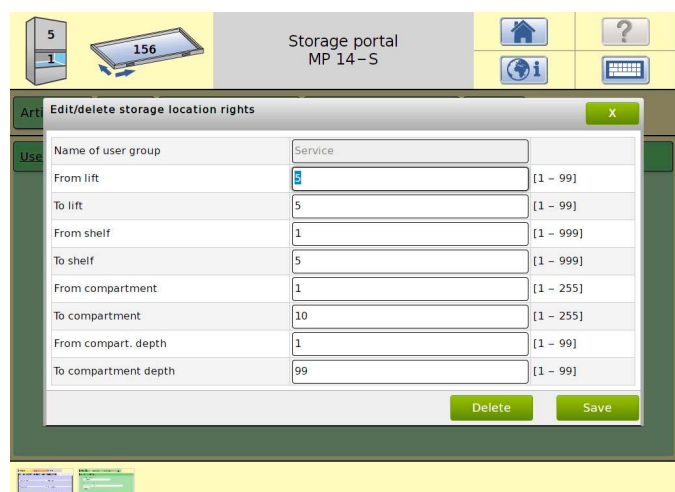


Editing

- Touch the desired input fields and change the values using the touch keyboard.
- Touch the **Save** button.

Delete

- Touch the **Delete** button.



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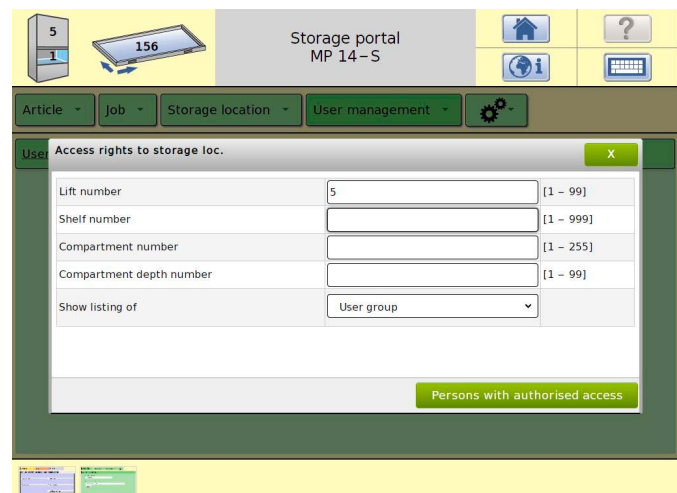
6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.3.3 Access rights to storage location

Description of the storage portal operation

- Touch the "Lift number", "Shelf number" and "Compartment number" input fields and use the touchscreen keyboard to enter the values.
 - Touch the "Show listing of" selection list and select "User groups" or "Users".
 - Touch the **Persons with authorised access** button.
- All users or user groups with access authorisation for the selected storage location are displayed in a list.

Example screenshot



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6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.4 Manage users

In the "User management - Users" menu item, new users can be created or existing users can be edited or deleted.

You can also show a user's access rights. It is also possible to delete users from a user group or assign them to another group.

A user group must be specified when creating a user. Therefore, the user must be assigned to at least one user group.

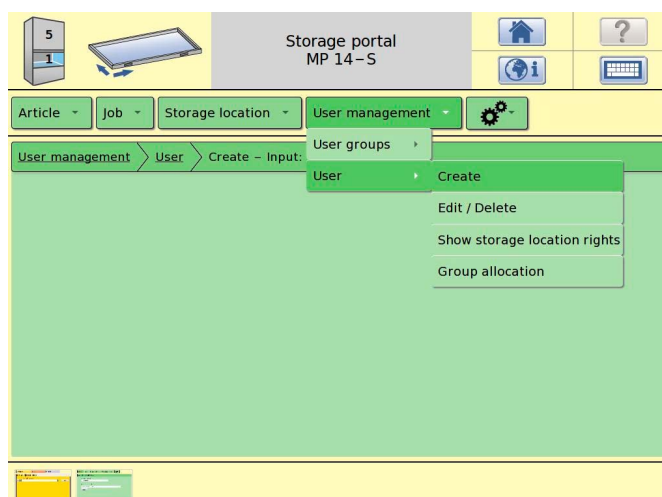
Description of the storage portal operation

"User" menu item:

The following functions are available:

Function	See Chapter
Create	6.4.1
Edit / Delete	6.4.2
Show storage location rights	6.4.3
Group allocation	6.4.4

Example screenshot



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6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.4.1 Create

Description of the storage portal operation

The access code, consisting of the ID number="0" and Password="0", is reserved for storage location areas without access control. This means that these storage location areas are enabled for all users.

- Touch the **Select** button in order to select a user group.
- Touch the "ID number" input field and enter the ID number (max. 20 characters).
→ The ID number has to be entered even if the prompt for the ID number is omitted in the initialisation.
- Touch the "Password" input field and enter the password (max. 20 characters).
- Touch the "Confirm password" input field and enter the password again.
- If a password has not been assigned, the function "Save password as code" has to be used because a password must always be specified.

If a barcode reader, badge reader or transponder is connected:

- In addition to the ID number and password, touch the input field "Code" and enter the digit sequence (max. 20 digits). Alternatively, tap the **Determine** button to read in the code via the badge reader / transponder.
- Touch the **Save** button.
- A new user is created.

Example screenshot

The screenshot shows the 'Storage portal MP 14-S' interface. At the top, there are navigation icons for home, help, and a keyboard. Below this is a menu bar with 'Article', 'Job', 'Storage location', 'User management', and a settings icon. The 'User management' menu is open, showing a 'Creating a new user' dialog box. The dialog box has the following fields: 'Associated user group' (with a 'Select' button), 'ID number', 'Password', 'Confirm password', and 'Code (opt.)'. There is a 'Determine' button next to the 'Code (opt.)' field. At the bottom of the dialog box, there is a toggle switch for 'Save code as password' and a 'Save' button. Below the dialog box is a virtual keyboard with letters, numbers, and symbols.

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6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.4.2 Edit / Delete

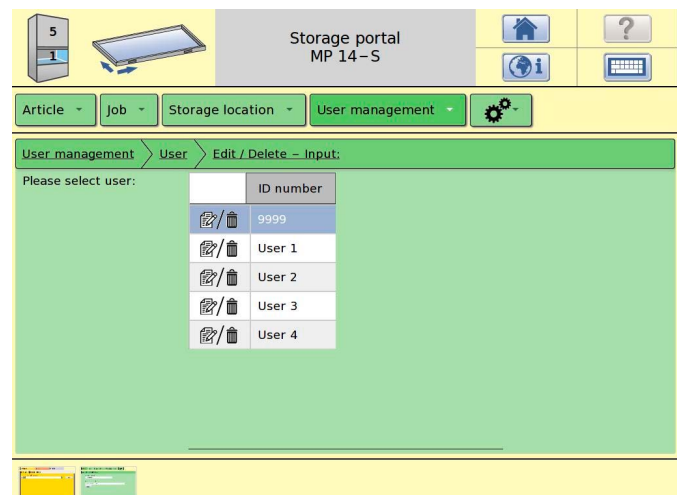
Description of the storage portal operation

Select user

→ Touch the desired user in the list.

If necessary, touch the **Back** / **Next** buttons to scroll through the selection list.

Example screenshot



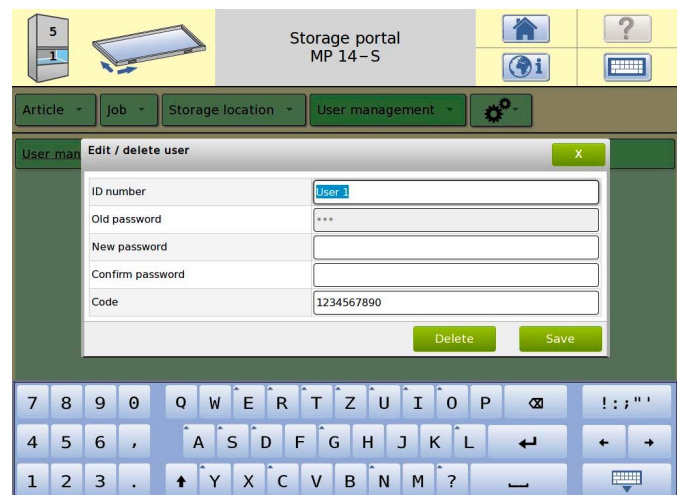
Edit user

→ The "ID number", "Old password" and "Code" access code data items are displayed and ID number and Code can be changed here. The old password is displayed with characters hidden.

- Touch the input field to be edited and change the value.

- Touch the **Save** button.

→ User 9999, The group "ADMINISTRATOR", cannot be deleted and the ID number cannot be changed.



Delete user

- Touch the **Delete** button.

→ The user is deleted after another confirmation prompt is confirmed.

→ User "9999" of the group "ADMINISTRATOR" cannot be deleted.

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6.4.3 Show storage location rights

Description of the storage portal operation

Example screenshot

Select user

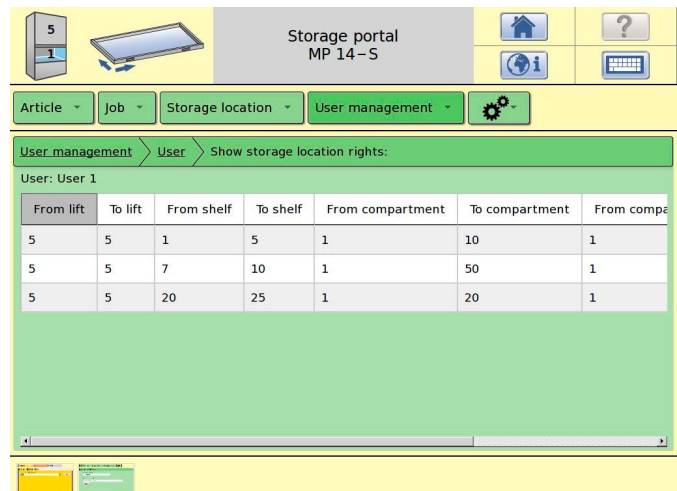
→ Touch the desired user in the list.

If necessary, touch the **Back** / **Next** buttons to scroll through the selection list.

Display storage location rights

→ All access rights of the selected user are shown in a list.

If necessary, touch the **Back** / **Next** buttons to scroll through the selection list.



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Multi-Space
Rotomat

6 Manage user data (only for installation and maintenance personnel and IT technicians)

6.4.4 Group allocation

Description of the storage portal operation

- Touch the **Select** button in order to select an ID number from a list.
- Touch the **Select** button in order to select a user group from a list.

Note: Alternatively, the names can also be entered directly through the touchscreen keyboard.

- Touch the "Action" selection list and select the desired action.

You can select the following actions:

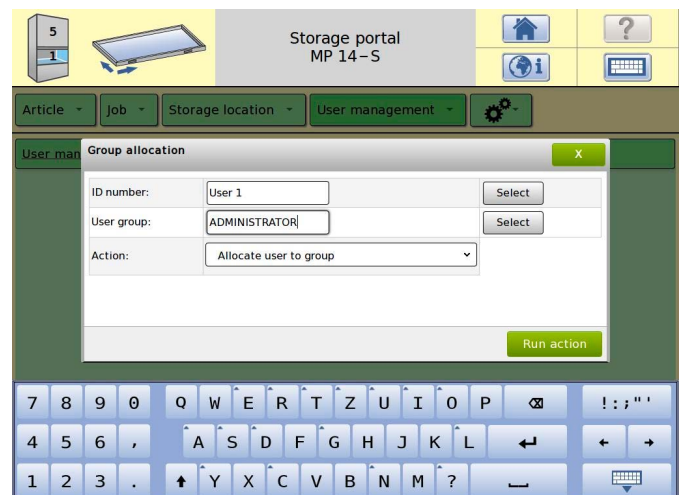
- Allocate user to group
- Delete user from group

- Touch the **Run action** button.

→ The user is allocated to or deleted from a user group.

→ The user "9999" cannot be deleted from the "ADMINISTRATOR" group.

Example screenshot



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6.5 Storage location areas without access control

Procedure

- 1) Create the group.
 - 2) Create the storage location rights of the group. (Definition of storage location areas without access control)
 - 3) Create the user consisting of ID number="0" and Password="0" for this group.
- ➔ Storage location areas of this group are now without access control, i.e. enabled for all users.



- x Storage location areas without access control always have to be assigned to entire shelves.
If this is not the case, an access code request is issued (ID number="0" and/or password="0").

6.6 Create/edit system administrator

Only the users of the "Administrator" group have access to the user management system. The access code for the system administrator to log in is set by default at the factory to ID number "9999" and password "22488". The password can be changed.

Procedure to create new system administrator

- 1) Create user
- 2) Select group name "ADMINISTRATOR".
- 3) Enter and confirm the ID number, password, and possibly the code.

Procedure to change the system administrator's password with the ID number "9999"

- 1) Select user "9999"
- 2) Edit user, action "Change password".
- 3) Enter password and confirm.

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7 Annex: Integration into the IT system (for IT technicians only)



This chapter is intended for IT technicians only.

If supplementary module 02) Access code management is used and if the setting "OPERATION JOURNAL LOGGING USER U06" is set to "YES":

The operations journal logging data record is expanded by adding the special data field **U06** (user ID number).

7.1 Extensions for Host communication by file transfer (only for MP 14-S / MP 100D-5)



- x Host communication by file transfer via Ethernet is possible only with the microprocessor control system MP 14-S/MP 100D-5.

7.1.1 Operations journal logging data record (only in conjunction with the supplementary module 06) Operations journal logging)

- Refer to the "Supplementary Description of the Operations Journal Logging Microprocessor Control System MP 14-S / H[MP 14-S] / H[MP 100D-5] for Lean-Lift, Multi-Space and Rotomat".
- See "Technical Description of the Microprocessor Control System MP 14-S / MP 100D-5 Server for Lean-Lift, Multi-Space and Rotomat".

Code	Meaning	No. of characters	Contents	Type
U06	User ID number	0 - 20		alphanumeric

7.2 Extensions for host communication through web service via SOAP protocol (only for MP 14-S / MP 100D-5)



- x Host communication through web service via SOAP protocol is possible only with the microprocessor control system MP 14-S/MP 100D-5.

7.2.1 Operations journal logging data record (only in conjunction with the supplementary module 06) Operations journal logging)

The following methods have been added/extended for the use of this supplementary module:

readOpjournalV01 Reads the operations journal from the MP control system.

- Refer to the "Supplementary Description of the Operations Journal Logging Microprocessor Control System MP 14-S / H[MP 14-S] / H[MP 100D-5] for Lean-Lift, Multi-Space and Rotomat".
- See "Technical Description of the Microprocessor Control System MP 14-S / MP 100D-5 Server for Lean-Lift, Multi-Space and Rotomat".

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8 Annex

8.1 Configuration settings

Configurations that deviate from the default setting can be documented here.
This is useful for production, installation and service personnel.
Default settings are underscored.

Supplementary module for Lean-Lift and Multi-Space

Parameters	Setting
ACCESS CODE MANAGEMENT :	[] YES [] <u>NO</u>
FOR JOB PROCESSING :	[] YES [] <u>NO</u>
USER LOG-OFF BY SHELF STORAGE :	[] YES [] <u>NO</u>
REQUEST ID NUMBER :	[] <u>YES</u> [] NO

Supplementary module for Rotomat

Parameters	Setting
ACCESS CODE MANAGEMENT :	[] YES [] <u>NO</u>
FOR JOB PROCESSING :	[] YES [] <u>NO</u>
REQUEST ID NUMBER :	[] <u>YES</u> [] NO

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8 Annex

8.2 Revision notes

Last issue dated: **2018-12-04**

- The supplementary module can now also be used for the HOST-DATA program version.
 - Title
 - Chapter 1.1
 - Chapter 1.4
 - Chapter 1.5
- Chapter 3 revised.
- Chapter 5.1 It is now possible to log out after a specific time period without an electronic lock.
- Chapter 6.4.1 "Save password as code" added.

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Microprocessor Control System
MP 14-S / H[MP 14-S] / H[MP 100D-5] / H[HOST-DATA]**

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