



# Installation Manual

## MilMaster® TOP



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# 1 General Information

## 1.1 About this document

This Instruction Manual helps users to work safely and efficiently with MillMaster TOP.

Read this Instruction Manual in its entirety before starting up MillMaster TOP.

This manual is part of MillMaster TOP and must be kept accessible to trained operators at all times in the immediate vicinity of the device.

## 1.2 Scope of application

This document applies to:

The MillMaster TOP software tool.

## 1.3 Target audience

This document is intended for use by specialist personnel only. The descriptions given here assume that the reader is a qualified professional trained by the manufacturer. These descriptions do not replace training on product use.

## 1.4 Notes

### Information symbol



This symbol indicates additional information for the user.

### Images in the document



The images of the user interface (screenshots) included in this manual are examples, and do not necessarily contain relevant data.

## 2 Safety

### 2.1 Intended use

This software is intended exclusively for use as a data analysis and administration tool for yarn clearers that are linked to the central units of the spinning machines. Any other use, or any use that goes beyond the intended purpose, is considered improper. Loepfe Brothers Ltd. shall not be liable for any damages that result from improper use.

### 2.2 Safety Information and Warnings

Safety information and warnings draw attention to hazards and are marked with symbols and signal words to express the danger level.

	<p style="text-align: center;"> <b>DANGER</b></p> <p>Indicates an immediate hazardous situation which will result in death or serious injury.</p>
	<p style="text-align: center;"> <b>WARNING</b></p> <p>Indicates a potentially hazardous situation which could result in death or serious injury.</p>
	<p style="text-align: center;"> <b>CAUTION</b></p> <p>Indicates a potentially hazardous situation which may result in minor oder moderate injury.</p>
	<p style="text-align: center;"><b>NOTE</b></p> <p>Indicates a potentially hazardous situation which may result in damage to property.</p>

### 2.3 Explanation of symbols

#### Warning symbol



General warning symbol



Electrical voltage warning

## 3 Installation

### 3.1 System requirements

<b>Server</b>	
64-bit operating system	Windows 10 Windows in English version or with Multilingual User Interface (MUI) package recommended
Processor	Intel Core i5, ≥ 4th Gen; recommended i7*, ≥ 4th Gen
Working memory	≥ 16 GB RAM
Disk storage	≥ 500 GB SSD
Network connection (Ethernet)	LAN 100/1000 Mbit/s
Ports	USB
Uninterruptible power supply (UPS)	recommended
Monitor	min. 24 inches
Monitor resolution	min. 1366 x 768
<b>Client computers</b>	
64-bit operating system	Windows 10
Processor	Intel Core i5, ≥ 4th Gen
Working memory	≥ 8 GB RAM
Disk storage	≥ 250 GB HDD
Network connection (Ethernet)	LAN 100/1000 Mbit/s
Ports	USB
Monitor (diagonal)	min. 24 inches
Monitor resolution	min. 1366 x 768

<b>Software (required)</b>	
.NET Framework 4.X.X	If not already installed, this software will be installed during the installation.
PostgreSQL	If not already installed, this software will be installed during the installation.
Internet Explorer 11	
GoToAssist	
<b>Mobile devices (optional)</b>	<b>Recommended browsers</b>
Smartphones and tablets	<ul style="list-style-type: none"> <li>– Firefox ≥ 35.0</li> <li>– Internet Explorer ≥ 9.0</li> <li>– Safari ≥ 8.0</li> <li>– Google Chrome ≥ 42.0</li> <li>– Chromium ≥ 44.0</li> <li>– Opera ≥ 25.0</li> </ul>
<b>Network connection</b>	
Ethernet cable	Do not use unshielded UTP cables! Cat5e, shielded, STP *** Cat6a, shielded, STP *** Cat7*, shielded, STP ***
Length	≤ 100 m
Switch	max. 4
Patch cable	Cat6a, shielded, STP ***
Length	≤ 10 m
Switch	1000 Mbit/s (Gigabit Ethernet Switch)
Router (optional)	1000 Mbit/s (Gigabit Ethernet Router)
Internet	Constant connection
<b>Support</b>	
Ports	reachable: TCP: 80, 443, 8200 UDP: 53, 514, 1853, 8200
<b>Legend</b>	
	* We recommend this version.
	** We recommend that you install the English version of the operating system so that the Technical Support team can change the language settings in case support is needed.
	*** compliant with IEEE 803.3, EN 50288-2-1:2013

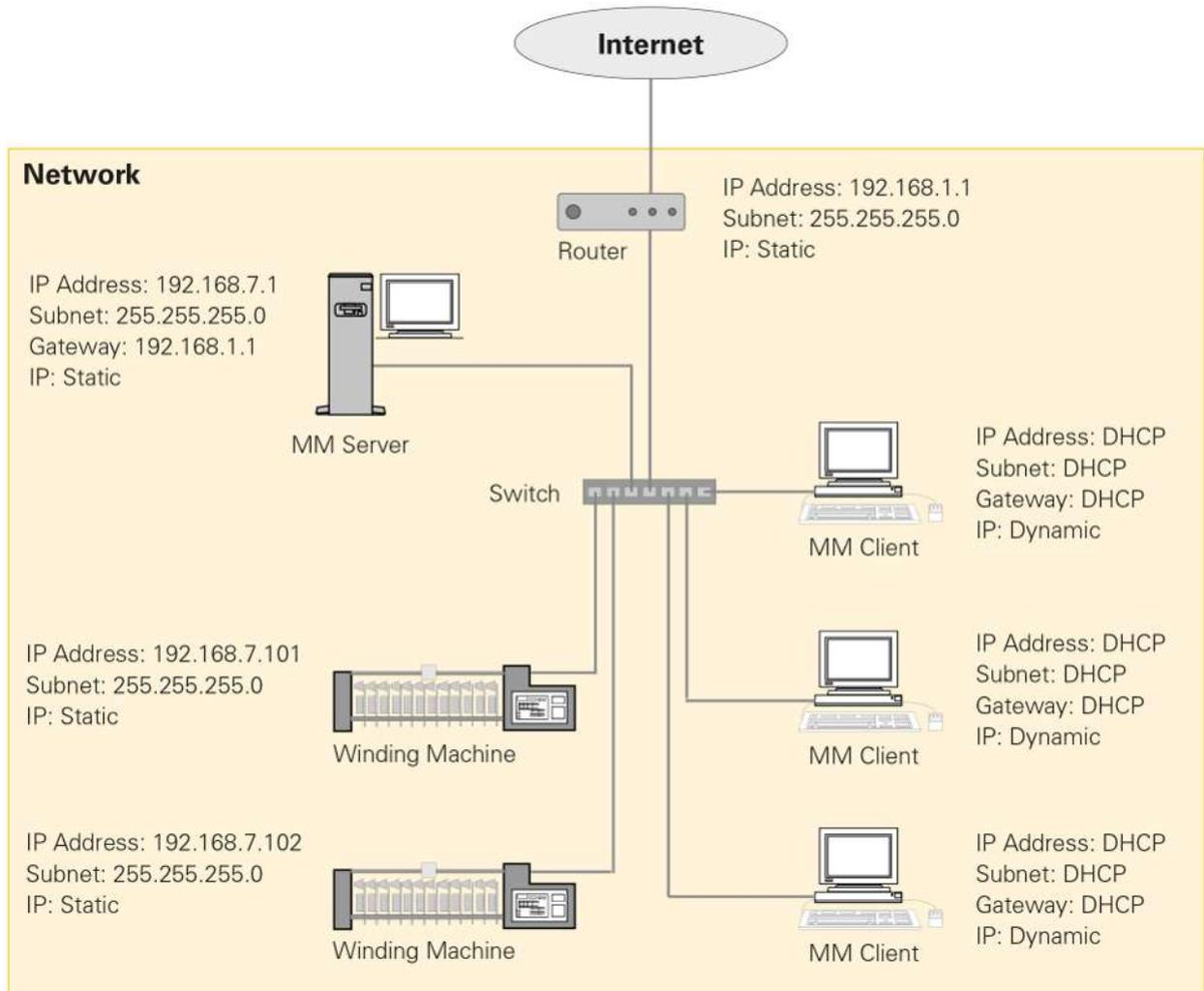
## 3.2 Network topology

This section presents examples of network connections.



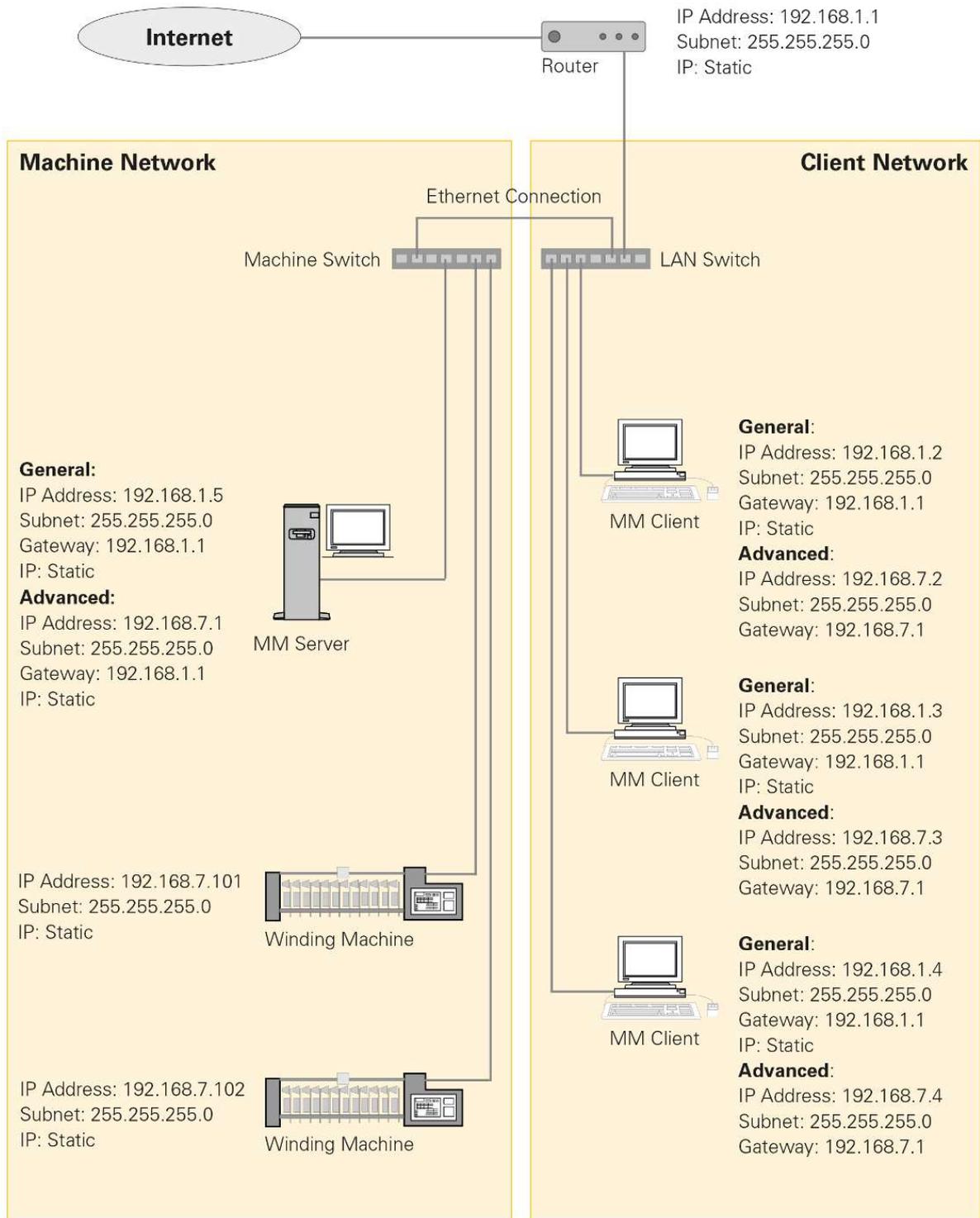
To ensure proper and error-free network connections, only “shielded” (STP) cables should be used.

### 3.2.1 Network with one IP address



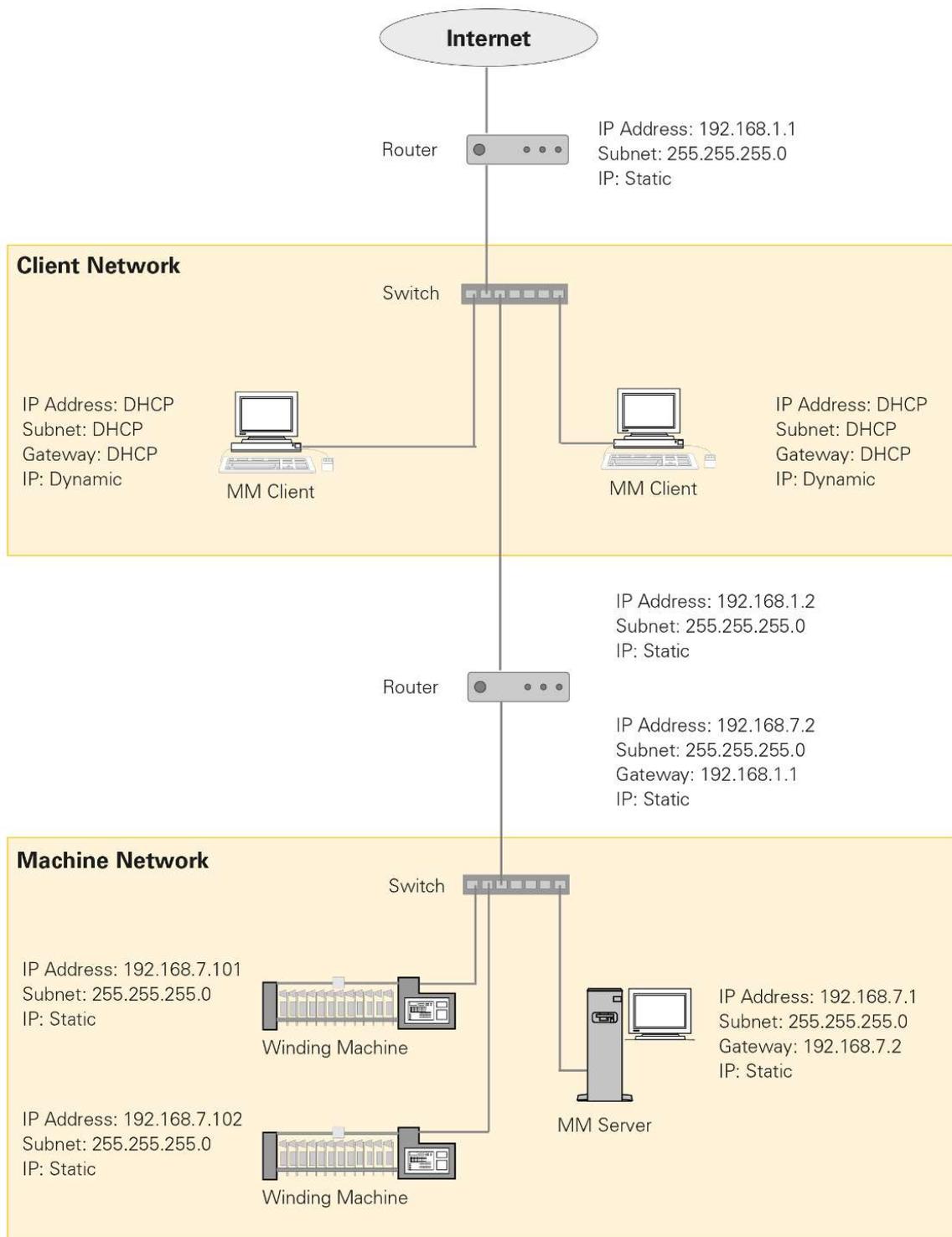
### 3.2.2 Network with multiple IP addresses

The machine network and the client network are connected by means of a connection between the two switches. A static IP address is required for a connection from the software via VNC.



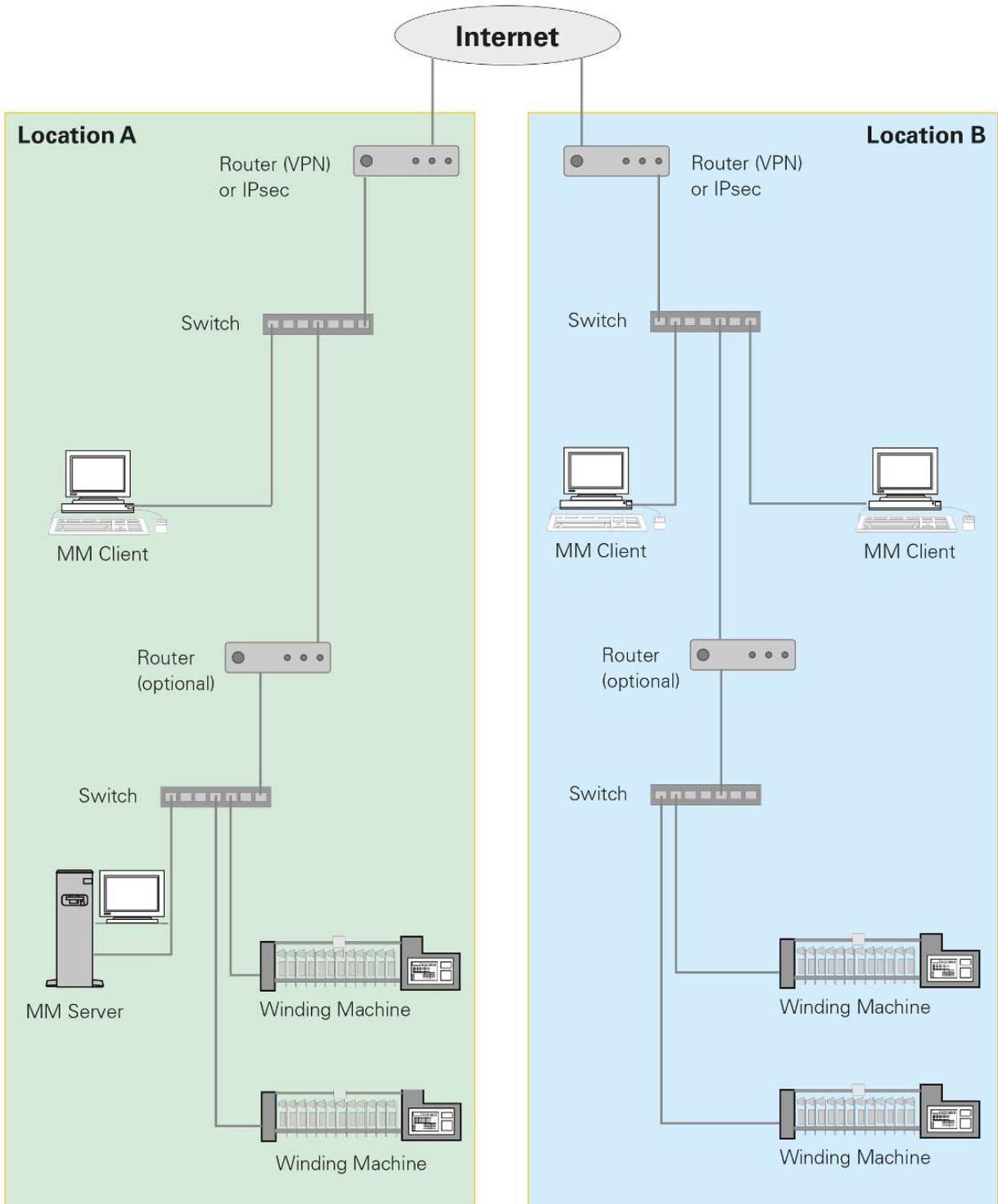
### 3.2.3 Network via routers

The machine network and the client network are connected via routers.



### 3.2.4 Network with VPN

The machine network and the client network are connected via VPN through two routers. This type of connection is used when two separate networks need to be connected to one another.



## 3.3 Configuring central units and connecting them to the network

This section describes the different connections to the network and the associated configurations for the central units.

The software can be connected to the following central units and Informator units:

- Central unit: LZE-I, LZE-II, LZE-III and LZE-V
- Machine type: Schlafhorst AC 338 and Schlafhorst Oerlikon AC5, ACX5 and AC6 Informators

### Requirements for configuration and network connection

- RJ45 cables are available.
- Plan at least 0.5 meters (1 foot 8 inches) of additional RJ45 cable length.
- RJ45 cables are laid in a cable tray or other appropriate device.
- RJ45 cables are not laid together with cables that carry a live voltage.

### 3.3.1 IP addresses

This section provides suggestions and examples of IP addresses and subnet masks that can be used to connect the winding machines.

No.	Machine name	IP addresses	Subnet mask	Host name	LZE type	Yarn clearer type	Spindle
PC	MillMaster	192.168.7.1	255.255.255.0				
01	Winding machine 1	192.168.7.101	255.255.255.0				
02	Winding machine 2	192.168.7.102	255.255.255.0				

Notes:

*Table 1:* Example IP addresses and subnet masks

The following local IP address ranges are also available; these ranges are not reachable on the Internet and can therefore be used for the software.

#### IP addresses

10.0.0.0 – 10.255.255.255

172.16.0.0 – 172.31.255.255

192.168.0.0 – 192.168.255.255

*Table 2:* Examples of additional IP addresses

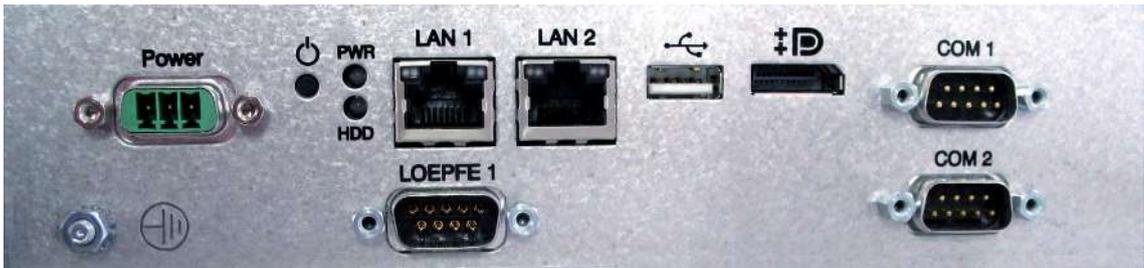
### 3.3.2 LZE-V

#### Connect the LZE-V to the client computer

	<b>⚠ DANGER</b>
	<p><b>Danger of electric shock</b></p> <p>Touching live components and electrical connections can lead to severe injury or death.</p> <ul style="list-style-type: none"><li>▶ Unplug the device from mains power before performing any repair or maintenance work.</li><li>▶ Unplug the device from mains power before removing device enclosure or opening side panels.</li></ul>

✓ Use the IP address 192.168.1.200 as the default.

1. Connect the client computer to the LAN 2 port with an RJ45 cable.  
⇒ The software is now connected to the LZE-V central unit.

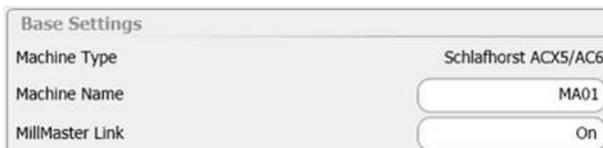


LZE-V rear panel

#### Configure network settings

Prerequisites

- ✓ The LZE-V has been started up.
1. Open **Settings > Machine > Base settings**.
  2. Press  .  
⇒ The login window opens.
  3. Enter username (Foreman) and password.
  4. Press  to edit settings.
  5. Machine Name: Enter the name of the machine.
  6. MillMaster Link: Select "On".
  7. Confirm with  .  
⇒ The settings are saved.





Please note the following restrictions for the hostname:

- use 8 characters max, no spaces
- Use the letters A-Z, a-z and digits 1-9
- The first character must be a letter
- Hostname and machine name can be identical

1. Open **Service > Setup > Network**.
  2. Press .  
⇒ The login window opens.
  3. Enter username (Service) and password.
  4. Press to edit settings.
  5. Select the «**Network**» tab.
  6. Host Name: Enter the hostname, e.g. MA01.
  7. Select the «**LAN 2**» tab.
  8. DHCP: Select “Off”.
  9. IP Address: Enter the IP address.
  10. Subnet Mask: Enter the subnet mask, e.g. a value from the IP addresses [ > 15] table.
  11. Gateway: Enter the gateway IP address.
  12. DNS: Enter the DNS IP address.
  13. «**LAN 1**» tab: Do not make any changes, except for SAVIO machines.
  14. Confirm with .  
⇒ The settings are saved.
- ⇒ The software restarts.



*Service > Setup > Network settings*

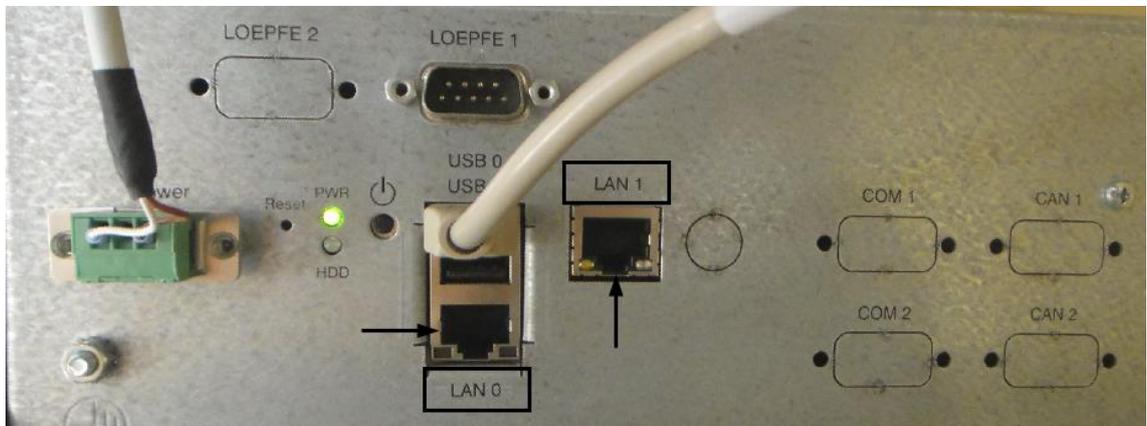
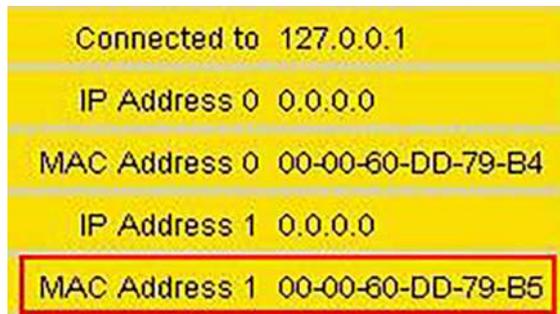
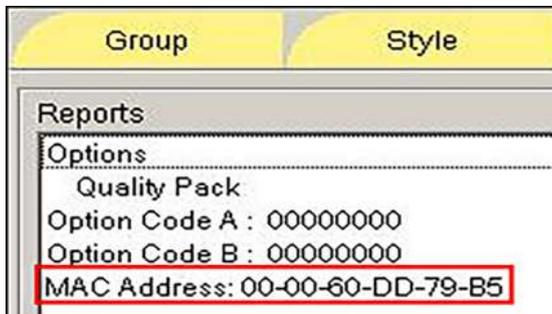
### 3.3.3 LZE-III

#### Connect the LZE-III to the client computer

1. Connect the client computer to the LAN 1 port with an RJ45 cable.
2. Select the «Dialog» tab.



3. Select the **Software > Options** menu.
    - ⇒ The «Reports» window opens.
  4. Find the MAC address under «Reports».
  5. Find the MAC address in the **Central unit** menu and compare with the MAC address from Reports.
    - ⇒ If MAC Address 1 matches, for example, then the LAN 1 port is activated.
- ⇒ The software is now connected to the LZE-III central unit.



LZE-III rear panel

#### Configure network settings

##### Prerequisites

- ✓ The LZE-III has been started up.

1. Select the «Dialog» tab.

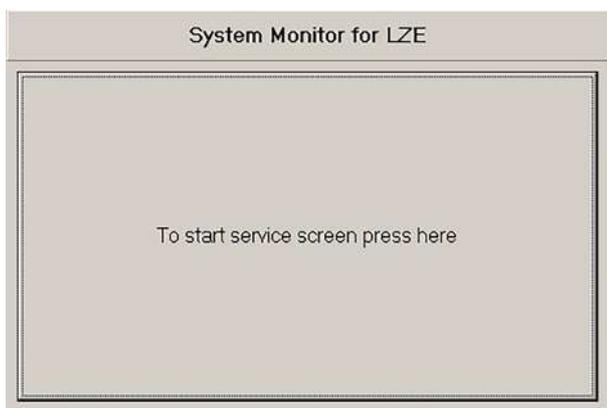


2. In the **Permissions** menu, select Foreman Password.

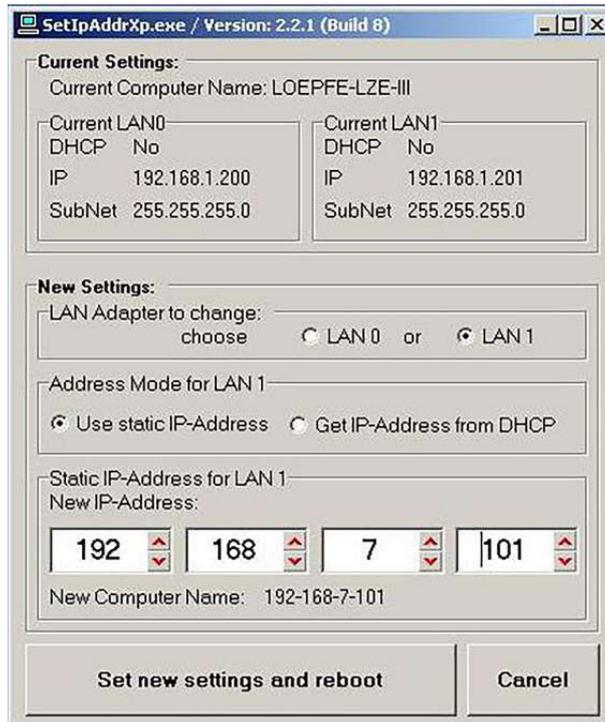
- ⇒ The Permissions window opens.
- 3. Enter the foreman password.
- 4. Press «**OK**».
- ⇒ The user level / password level is set to Foreman and the menu changes.
- 5. Check the MAC address, and change the MAC address if needed. See the section on how to **Connect the LZE-III to the client computer**.
- 6. Select «**Reboot system**».

**Reboot System**

- ⇒ A “Reboot system?” pop-up window appears.
- 7. Press «**Yes**».
- ⇒ The system restarts.
- ⇒ The «**System monitor for LZE**» window opens.



- 1. Press «**To start service screen**» to change the IP address.
- ⇒ The «**Loepfe YM Zenit monitor service screen**» window opens.
- 2. Press «**Change IP Address**».
- ⇒ A confirmation window appears.
- 3. Press «**Yes**» to reboot the system.
- ⇒ The system restarts.
- ⇒ The «**SetIpAddrXp**» window opens.
- 4. Under New Settings, go to the “LAN Adapter to change” field and select LAN 0 or LAN 1.
- 5. In the “Address Mode for LAN” field, select the radio button for “Use static IP address”.
- 6. In the “Static IP Address for LAN” field, enter the machine’s current IP address, e.g. from the IP addresses [ ] 15] table.
- 7. Press «**Set new settings and reboot**» to reboot the system.
- ⇒ The settings are saved.
- ⇒ The system restarts.
- ⇒ The network settings are configured.



*SetIpAddrXp*

## 3.3.4 LZE-II

### Connect Ethernet cable

#### Prerequisites

- ✓ The LZE-II has been started up and the menu has been opened.

1. Connect an RJ45 cable to LAN 1 to use the software.
  - ⇒ The software is now connected to the LZE-II central unit.



*LZE-II rear panel*

### Configure network settings (version ≥ 2.0)

1. Select the «Dialog» tab.

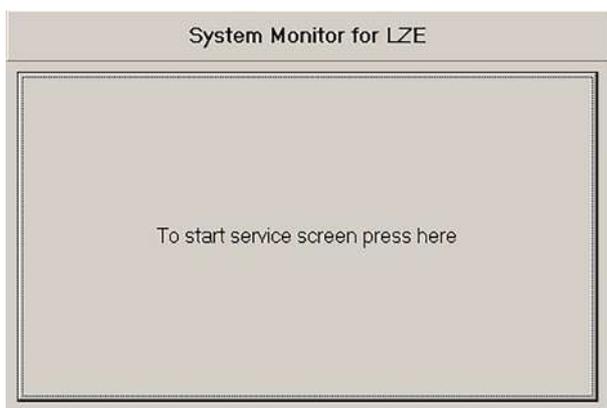


2. In the **Permissions** menu, select Foreman Password.
  - ⇒ The Permissions window opens.

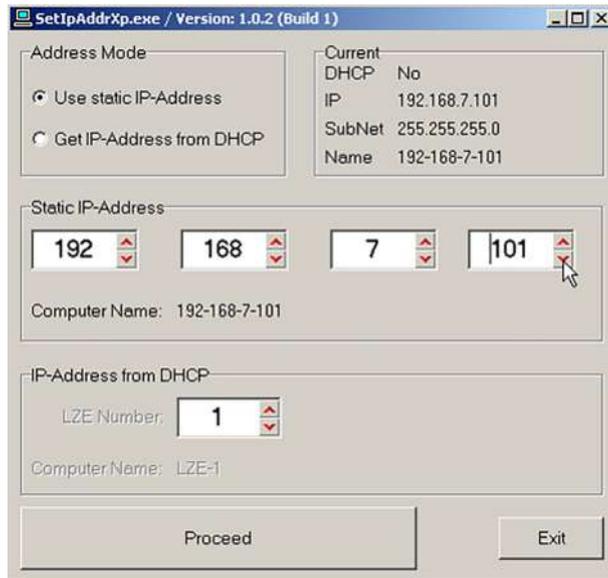
3. Enter the foreman password.
4. Press «**OK**».  
⇒ The user level / password level is set to Foreman and the menu changes.
5. Select **Reboot System**.

Reboot System

- ⇒ A “Reboot system?” pop-up window appears.
6. Press «**Yes**».  
⇒ The system restarts.
- ⇒ The «**System monitor for LZE**» window opens.



1. Press «**To start service screen**» to change the IP address.  
⇒ The «**Loepfe YM Zenit monitor service screen**» window opens.
  2. Press «**Change IP Address**».  
⇒ A “Disable CF Protection” pop-up window appears.
  3. Press «**Yes**» to reboot the system.  
⇒ The system restarts.  
⇒ The «**SetIpAddrXp**» window opens.
  4. In the “Address Mode for LAN” field, select the radio button for “Use static IP address”.
  5. In the “Static IP Address for LAN” field, enter the machine’s current IP address, e.g. from the IP addresses [▶ 15] table.
  6. Press «**Proceed**» to reboot the system.  
⇒ The settings are saved.  
⇒ The system restarts.
- ⇒ The network settings are configured.



*SetIpAddr2*

### 3.3.5 Schlafhorst Informator AC5/ACX5/AC6

1. Connect an RJ45 cable to LAN 1 to use the software.



Informator AC rear panel

#### Informator control icons

Symbol	Name	Description
	Data Display	This section contains screens to monitor and operate the machine and its individual parts.
	Machine Configuration	Machine configuration
	Management	<ul style="list-style-type: none"> <li>■ Software settings</li> <li>■ Access permissions</li> <li>■ Machine status</li> </ul>
	Login/Logout	<ul style="list-style-type: none"> <li>■ Enter username and password</li> <li>■ Assign password</li> </ul>

Table 3: Meanings of Informator icons

#### Check battery

##### Prerequisites

- ✓ The battery level must not be too low to configure the settings.
- ✓ Do not switch off the machine while editing settings.

1. Stop the machine.
2. Activate the Informator's screen.
3. Press the Data Display/Machine/Electronics icon.
4. Check the battery level.
  - ⇒ The battery level should be > 3000 mV.

## Connect network

### Prerequisites

✓ A software version  $\geq 1.30.00$  is no longer necessary.

1. Activate the Informator's screen.
2. Press the Login/Logout icon.
3. Enter the password (service) and confirm with "Login".
4. Press the Management icon.
5. Press the Machine Configuration icon.
6. Press "Basic adjust", then "Network".
7. Change the Network setting to *Network with*.

## Restart the Informator

1. Switch to the Loepfe screen.
2. Press the «**Maintenance > AWE 800 status**» button.
3. Press .
4. Enter the password (service) and confirm.
5. Press .
6. Scroll  to 255.
7. Press .
8. Scroll  to 258.
9. Press  to reboot the system.  
⇒ The system restarts.
10. Press the «**Setup**» button once the Setup screen opens.

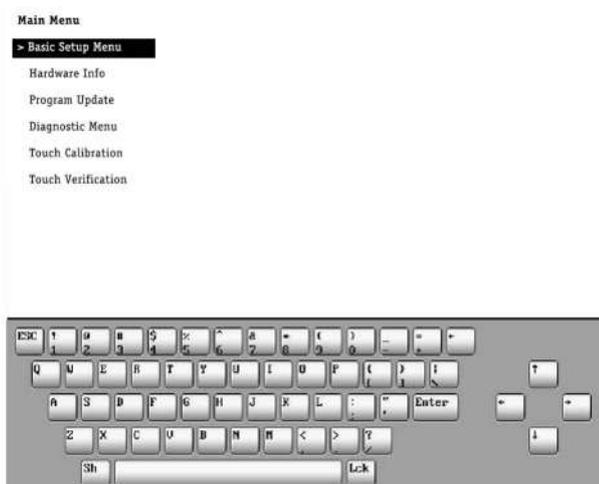
## Enter the TCP/IP address, subnet mask and hostname.



Please note the following restrictions for the hostname:

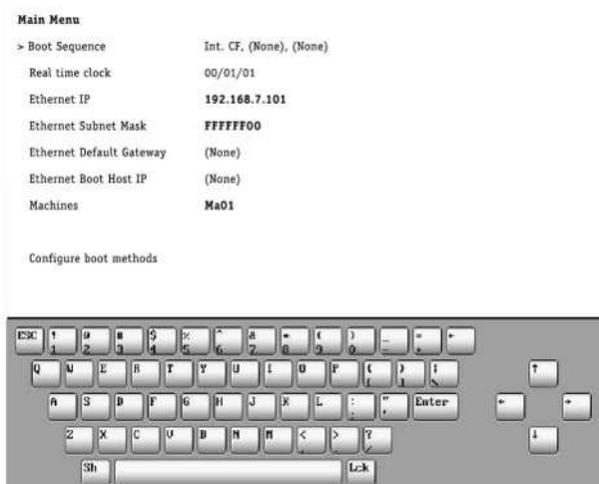
- use 8 characters max, no spaces
- Use the letters A-Z, a-z and digits 1-9
- The first character must be a letter
- Hostname and machine name can be identical

1. In the main menu, select **Basic setup menu**.
  2. Enter the password (42) and confirm.
  3. Enter the following information from the Informator:
    - Informator IP address,
    - Subnet mask in hex code (FF = 255),
    - Machine hostname, e.g. MA01.
- ⇒ The system restarts.



### Basic Setup Menu

1. Press «**ESC**» to switch to the main menu.
2. Save changes.
3. Press «**Y**».  
⇒ The menu closes.
4. Press «**ESC**» to switch to the main menu.
5. Press «**ESC**» to reboot the system.  
⇒ The system restarts.



### Boot Sequence

### 3.3.6 Schlafhorst Informator AC338

1. Connect an RJ45 cable directly to the Mini surface box to use the software.



*Informator AC338 rear panel*

### 3.3.7 Schlafhorst Informator with series number < 7000



Informators delivered before the end of January 2004 also require a transceiver to connect to the machine.  
Informator units delivered after February 2004 have a built-in transceiver.

1. Connect an RJ45 cable to the Informator interface to use the software. (See figure: Informator rear panel.)



*Informator rear panel*

### Check battery

#### Prerequisites

- ✓ The battery level must not be too low to configure the settings.
- ✓ Do not switch off the machine while editing settings.

1. Stop the machine.
2. Activate the Informator's screen.
3. Open the **Service > Maintenance** menu.
4. Check the battery level.
  - ⇒ The battery level should be > 3000 mV.

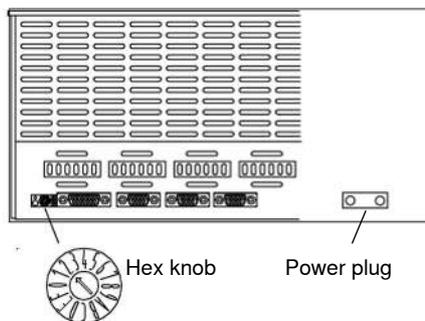
## Connect network

1. Activate the Informator's screen.
2. Press "Machine parameters".
3. Press "Network".
4. Enter the password and confirm.
5. Change the Network setting to *Network with*.
6. Press the Enter icon.

## Settings in the configuration

	<b>⚠ DANGER</b>
<p><b>Danger of electric shock</b></p> <p>Touching live components and electrical connections can lead to severe injury or death.</p> <ul style="list-style-type: none"> <li>▶ Unplug the device from mains power before performing any repair or maintenance work.</li> <li>▶ Unplug the device from mains power before removing device enclosure or opening side panels.</li> </ul>	

1. Open the panel over the Informator.
  2. Pull out the plug to turn off the Informator.
  3. Turn the hex knob to position 1.
  4. Insert the plug to turn on the Informator.
- ⇒ The system restarts.



## Reconfigure boot system

### Prerequisites

- ✓ The Boot menu is open.
- ✓ The TCP/IP address is available.

1. Select `<rc>` from the menu to Reconfigure the boot system.
2. Press Enter.

```
BOOTING PROCEDURES AVAILABLE ----- <INPUT>
Boot from onboard FLASH ROM ----- <f1>
Boot from raw PCMCIA card ----- <pc>
Transfer PCMCIA -> FLASH ----- <pf>
Boot from Ethernet - BOOTP ----- <le>
Boot from SCSI (CCS) hard drive (M14) - <hs>
Boot from Teac SCSI floppy drive (M14) - <fs>
Reconfigure the boot system ----- <rc>
Restart the system ----- <q>

Select a boot method from the above menu: RC
```

## Enter IP address, subnet mask and hostname

### Prerequisites

- ✓ The Boot menu is open.
  - ✓ The IP address, subnet mask and hostname are available.
1. Select <in> from the menu to Set internet address.
  2. Press Enter.
  3. Enter the prepared TCP/IP address, e.g. 192.168.7.101 for Machine 01.

```
CHANGE BOOT PARAMETERS ----- <INPUT>
Return to boot menu (undo changes) - <rt>
Reconfigure the boot order ----- <bo>
SCSI M14 module slot ----- <ss>
Set filename for BOOTP protocol ---- <bp>
Set internet address ----- <in>
Set internet subnet mask ----- <im>
Set internet hostname ----- <lh>
Set internet broadcast mask ----- <ib>
Display all boot parameters ----- <dp>
Save changes and restart system ---- <q>

Select anything from the above menu: -> IN

Internet address [192.168.7.101] | - 192.168.7.101
```

## Enter subnet mask

### Prerequisites

- ✓ The Boot menu is open.
1. Select <im> from the menu to Set internet subnet mask.
  2. Press Enter.
  3. Enter subnet mask:
    - Hex code, e.g. FFFFFFF0
    - Default, e.g. FFFFFFF0 = 255.255.255.0

## Enter hostname



Please note the following restrictions for the hostname:

- use 8 characters max, no spaces
- Use the letters A-Z, a-z and digits 1-9
- The first character must be a letter
- Hostname and machine name can be identical

### Prerequisites

- ✓ The Boot menu is open.

1. Select <ih> from the menu to Set internet hostname.
2. Press Enter.
3. Enter the hostname, e.g. MA01.

## Enter Internet broadcast mask

### Prerequisites

- ✓ The Boot menu is open.

1. Select <ib> from the menu to Set internet broadcast mask.
2. Press Enter.
3. Type 1 to set the IP address.

## Review settings

### Prerequisites

- ✓ The Boot menu is open.

1. Select <dp> from the menu to Display all boot parameters and review them.
2. Press Enter.
3. Check the parameter values and make any necessary changes.

```

BOOT PARAMETERS:

SCSI M14 module slot: 0
BOOTP filename: os9boot
Internet address      192.168.7.101
Internet subnet mask : 0xffffffff00
Internet hostname    : MA 10
Internet broadcast mask: 1

Boot order:
?Boot from onboard FLASH ROM
?Boot from raw PCMCIA card
?Transfer PCMCIA -> FLASH
?Boot from Ethernet - BOOTP
?Boot from SCSI (CCS) hard drive (M14)
?Boot from Teac SCSI floppy drive (M14)

Hit <CR> to continue...
```

## Save settings in the configuration

### Prerequisites

- ✓ The panel over the Informator is open.

1. Turn the hex knob to position 2.
  2. Select <q> from the menu to open `Save changes and restart system`.
  3. Press Enter (2x).
- ⇒ The settings in the configuration are saved.

## 3.3.8 Schlafhorst Informator with series number > 7000

### Check battery

#### Prerequisites

- ✓ The battery level must not be too low to configure the settings.
- ✓ Do not switch off the machine while editing settings.

1. Stop the machine.
2. Activate the Informator's screen.
3. Open the **Service > Maintenance** menu.
4. Check the battery level.
  - ⇒ The battery level should be > 3000 mV.

### Connect network

#### Prerequisites

- ✓ A software version  $\geq 1.30.00$  is no longer necessary.

1. Activate the Informator's screen.
2. Press "Machine parameters".
3. Press "Network".
4. Enter the password and confirm.
5. Change the Network setting to *Network with*.
6. Press .

### Restart the Informator

1. Switch to the Loepfe screen.
2. Press the «**Maintenance > AWE 800 status**» button.
3. Press .
4. Enter the password (service) and confirm.
5. Press .
6. Scroll  to 255.
7. Press .
8. Scroll  to 258.
9. Press  to reboot the system.
10. Press the «**Setup**» button once the Setup screen opens.

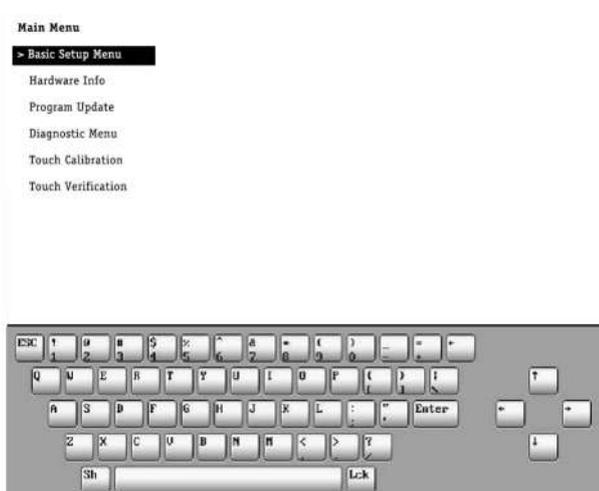
## Enter IP address, subnet mask and hostname



Please note the following restrictions for the hostname:

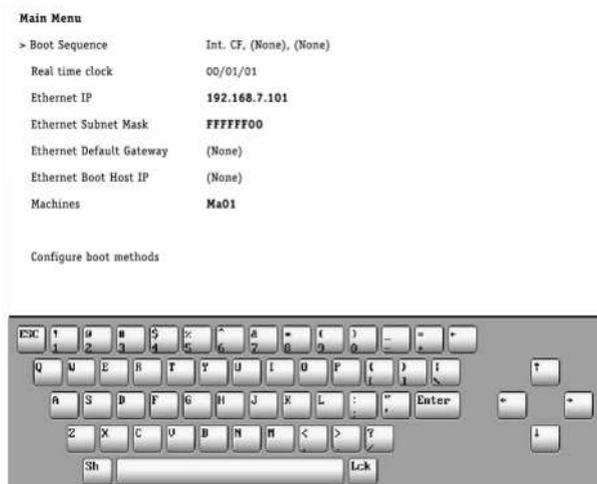
- use 8 characters max, no spaces
- Use the letters A-Z, a-z and digits 1-9
- The first character must be a letter
- Hostname and machine name can be identical

1. In the main menu, select **Basic Setup Menu**.
  2. Enter the password (42) and confirm.
  3. Enter the following information from the Informator:
    - Informator IP address,
    - Subnet mask in hex code (FF = 255),
    - Machine hostname, e.g. MA01.
- ⇒ The system restarts.



### Basic Setup Menu

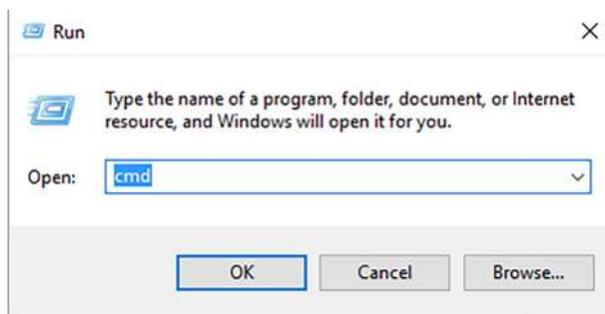
1. Press «**ESC**» to switch to the main menu.
  2. Save changes.
  3. Press «**Y**».
- ⇒ The menu closes.
4. Press «**ESC**» to switch to the main menu.
  5. Press «**ESC**» to reboot the system.
- ⇒ The system restarts.



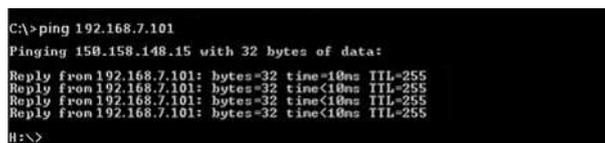
*Boot sequence*

## 3.4 Connect local network and test connection

1. Connect a computer to the local network.
2. Move the mouse to the Windows Start symbol and right-click.
  - ⇒ The Windows menu opens.
3. Select "Run".
  - ⇒ The Run window opens.
4. Enter "cmd" in the text box.
5. Press «OK».



- ⇒ A command-line interface window opens.
6. At the cursor, type "ping" followed by the IP address, e.g. 192.168.7.101.
  7. Press Enter to confirm.
    - ⇒ The ping utility runs.

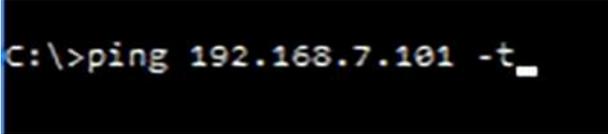


- ⇒ The result is shown directly in the command-line interface window.

Check connection:

✓ The command-line interface window is open.

1. At the cursor, type “ping” and the IP address followed by the -t flag, e.g. 192.168.7.101 -t.
2. Press Enter to confirm.
  - ⇒ The ping utility runs.



```
C:\>ping 192.168.7.101 -t_
```

⇒ The result is shown directly in the command-line interface window.

### 3.5 Configure server

Administrator privileges for the server are needed for the following settings.

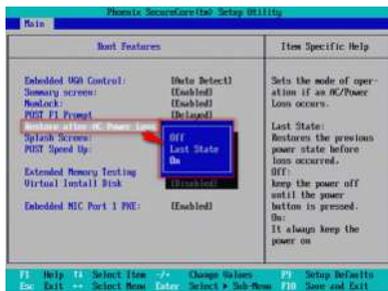
#### 3.5.1 Change BIOS settings

The settings shown in this chapter are only an example from one operating system.

In order for the server to restart automatically after a power failure, the BIOS settings need to be modified.

Prerequisites

- ✓ The Windows operating system is installed.
- 1. Restart the server to open the BIOS.
  - ⇒ A message appears at the bottom of the screen: «Please press DEL or F2 to Enter UEFI BIOS settings».
- 2. Press the «DEL» or «F2» key during the reboot process.
  - ⇒ The «UEFI BIOS» menu opens.
- 3. Select the Language symbol to open language settings. (“Select your preferred language.”)
- 4. Select «Restore after AC Power Loss > On».



- 5. Select «Power On».

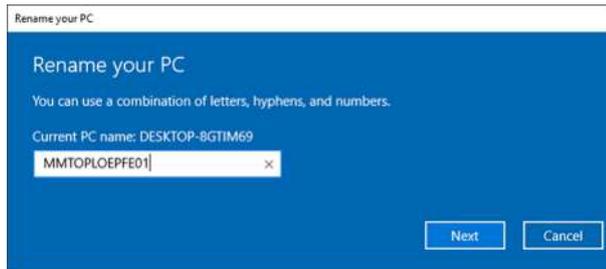


- 6. Select «Save and Exit» to save your settings.
  - ⇒ The server restarts.

#### 3.5.2 Change server name

To make it easier to find the server on the network, we recommend that you change its name.

- 1. Open **Windows > Settings > System > About**.
- 2. Under “Device specifications”, press «Rename this PC».
  - ⇒ The «Rename your PC» window opens.
- 3. Enter the new server name in the text box, e.g. MMTOPLOEPFE01.



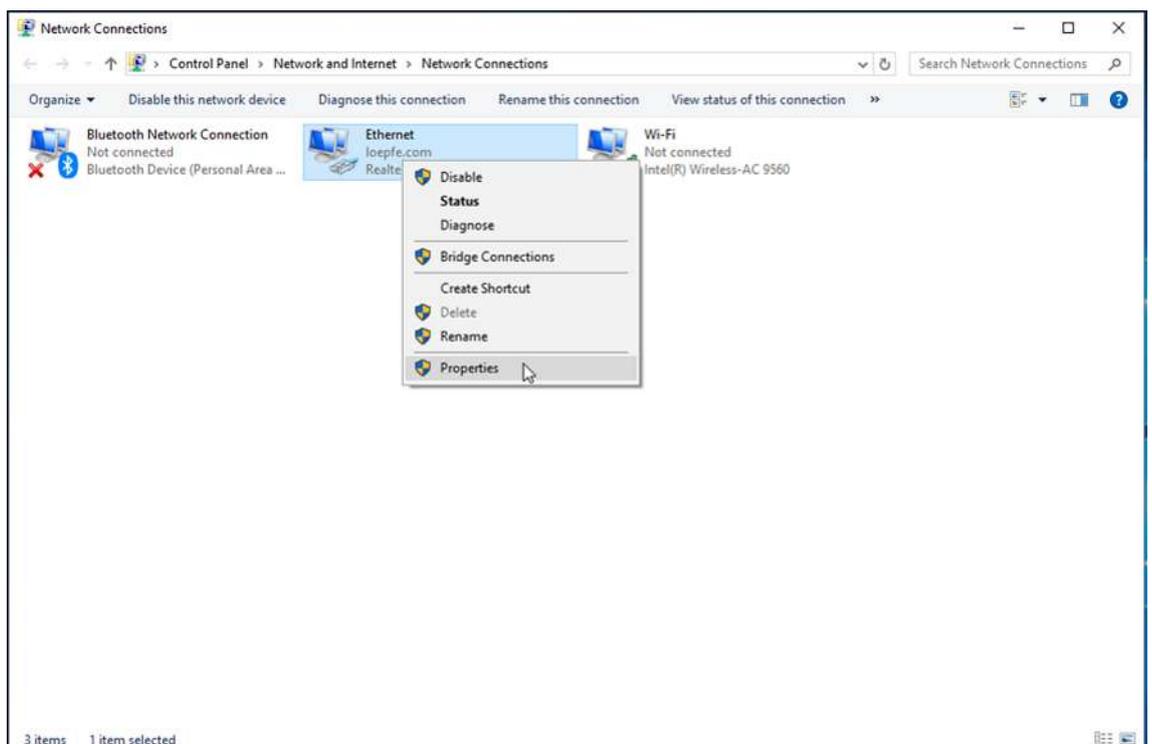
4. Press «**Next**», then confirm with «**OK**».
  - ⇒ The new server name is saved.
  - ⇒ The server name has been changed.

### 3.5.3 Change network connection properties

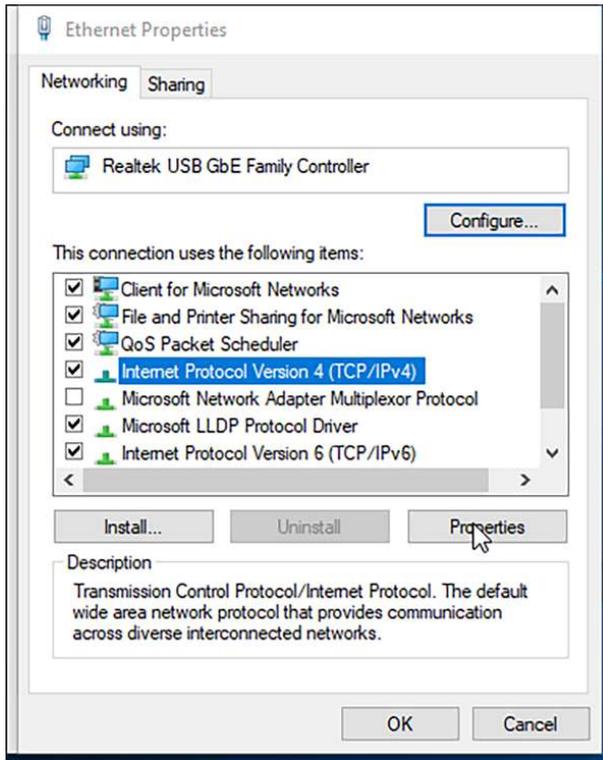
#### Prerequisites

- ✓ See System Requirements [▶ 9].

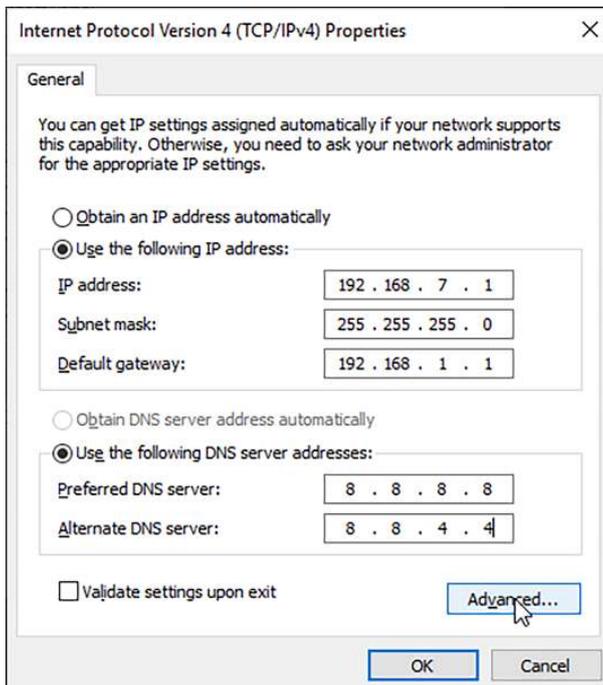
1. Open **Windows > Settings > Network & Internet > Network connections** (Ethernet).
2. Open «**Change adapter options**».
  - ⇒ The «**Control Panel > All Control Panel Items > Network Connections**» window opens.



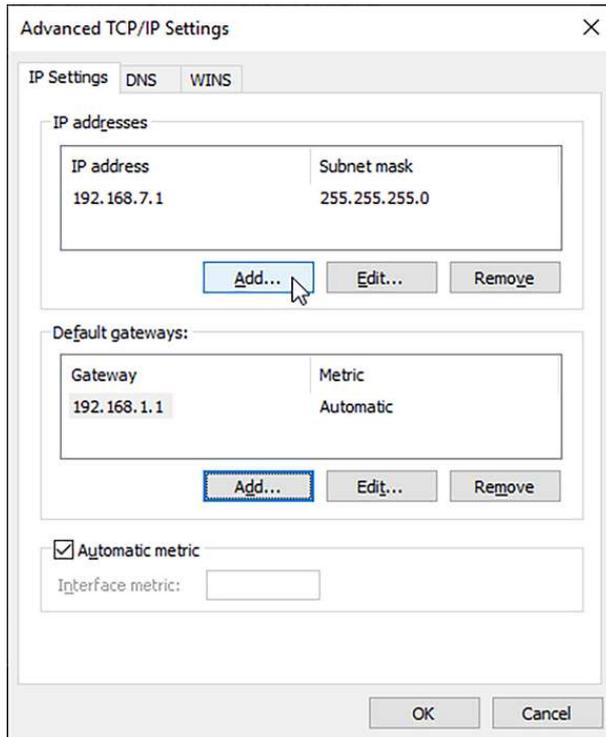
3. Open **Ethernet > Properties**.
  - ⇒ The «**Ethernet Properties**» window opens.



4. Select «**Internet Protocol Version 4**» and press the “Properties” button.
5. Select the radio button for «**General Use the following IP addresses**».
6. IP Address: Enter the IP address.
7. Subnet mask: Enter the subnet mask.
8. Default gateway: Enter the default gateway.



9. If both a machine network and a local network are present, press «**Advanced...**» to enter additional IP addresses for these networks.



10. Press «OK».

⇒ The properties are saved.

⇒ The changes to the network connection properties are complete.



The server can be added to an existing domain.

## 3.6 Install MillMaster TOP software

### 3.6.1 Installation requirements



The MillMaster TOP and LZE-V software versions must be compatible.

The name of the installation file contains the corresponding LZE-V version: Loepfe MillMaster TOP/4.x.xxx.xxx/LZEVxxx.exe.

MillMaster	LZE-V	LZE-III and LZE-II	INF AC338	INF AC5 and X5 and AC6	
Version	Compatible	Version			
4.0.10.467	≥ 4.0.10.467	5.7.16200.2	2.2.4.1	6.29	7.18
4.1.126.493	≥ 4.1.126.493	5.7.16228.4	2.5.0.11	6.30	7.40
4.3.508.528	≥ 4.3.508.528	5.8.xxxxx.x	2.5.0.14	6.31	7.55
4.4.xxx.xxx	≥ 4.4.xxx.xxx	5.8.xxxxx.x			

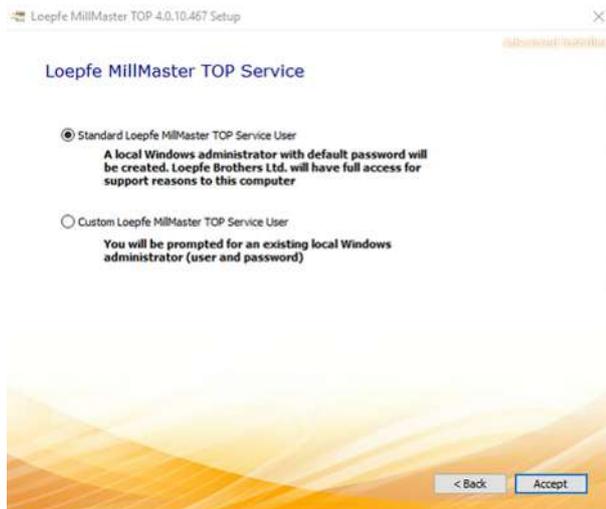
Table 4: MillMaster und LZE versions

### 3.6.2 Installation

#### Prerequisites

- ✓ The computer is connected to the Internet.
- ✓ Anti-virus software is turned off during installation.
- ✓ The following Microsoft software should be installed, or is installed during the installation:
  - .NET Framework 4.X.X
  - PostgreSQL
  - Internet Explorer 11
  - GoToAssist

1. Copy the Loepfe MillMaster Server Setup.exe file to the server.
2. Double-click on the Setup.exe file to open it.
  - ⇒ The «**Loepfe MillMaster TOP Setup**» window opens with the list of prerequisites.
3. Press «**Next**».
  - ⇒ Any missing software is installed.
4. Follow the remaining instructions.
  - ⇒ The «**Welcome to the Loepfe MillMaster TOP Setup**» wizard opens.
5. Follow the remaining instructions.
  - ⇒ The Loepfe MillMaster TOP Service opens.
6. Select the radio button for «**Standard Loepfe MillMaster TOP Service User**».



7. Press «**Accept**».
8. Follow the remaining instructions from the wizard.
  - ⇒ When the message «**Loepfe MillMaster TOP installed successfully**» appears, the installation is complete.
9. Close the wizard.
  - ⇒ The Loepfe MillMaster TOP software is now installed.

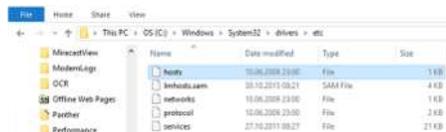
### 3.6.3 Install additional client computers

The software can be installed on 3 additional client computers. Their IP addresses and computer names must be entered in the host file on the client computers and on the server.

Situation	Action
Network with DNS server	The IP address and hostname are added automatically.
Network without DNS server	Add the IP address and hostname to the server's host file.
2 network cards with fixed IP addresses	Add both IP addresses and both hostnames to the server's host file.

Table 5: Install client

- In Windows Explorer, go to **Windows\System32\drivers\etc** to locate the host file.



- Copy the file.
- Open the copied file.
  - ⇒ The IP address 127.0.0.1 and the hostname "localhost" are already present.
- Enter IP address and computer name.
- Save file. **«File > Save.»**
- Save the file in the **etc** folder.
- Open a command prompt.
- At the cursor, type "ping" and the client IP address.

```
# localhost name resolution is handled within DNS itself.
#       127.0.0.1       localhost
#       ::1            localhost

127.0.0.1       localhost
192.168.1.5     TOPCUSTOMERNAME1
192.168.7.1     TOPCUSTOMERNAME1
```

- Press Enter to confirm.
  - ⇒ The ping utility runs.
  - ⇒ The result appears directly in the window.



### 3.6.4 Install MillMaster TOP Client

#### Prerequisites

- ✓ The client computer is connected to the Internet.
- 1. Open a web browser, e.g. Internet Explorer.
- 2. Enter ***http://ComputerName/mminstall/*** in the address bar, e.g. with MMTOPLOEPFE01 for ComputerName.
- 3. Press Enter to confirm.
  - ⇒ The Loepfe MillMaster TOP Client Installation window opens.
- 4. Press «**Download**» to start the download.



- ⇒ If necessary, the .NET Framework 4.X.X software will be installed or updated.
- ⇒ The Loepfe MillMaster TOP FullClient icon is displayed on the screen.
- ⇒ The MillMaster TOP Client (Loepfe BDE Client) is installed.

## 4 Operation

### 4.1 System startup

#### 4.1.1 Start and configure software

This menu is used to log in, register, set the user interface language, and start the software.

1. Start the software.
  - ⇒ The Room view opens.
  - ⇒ The login window opens.

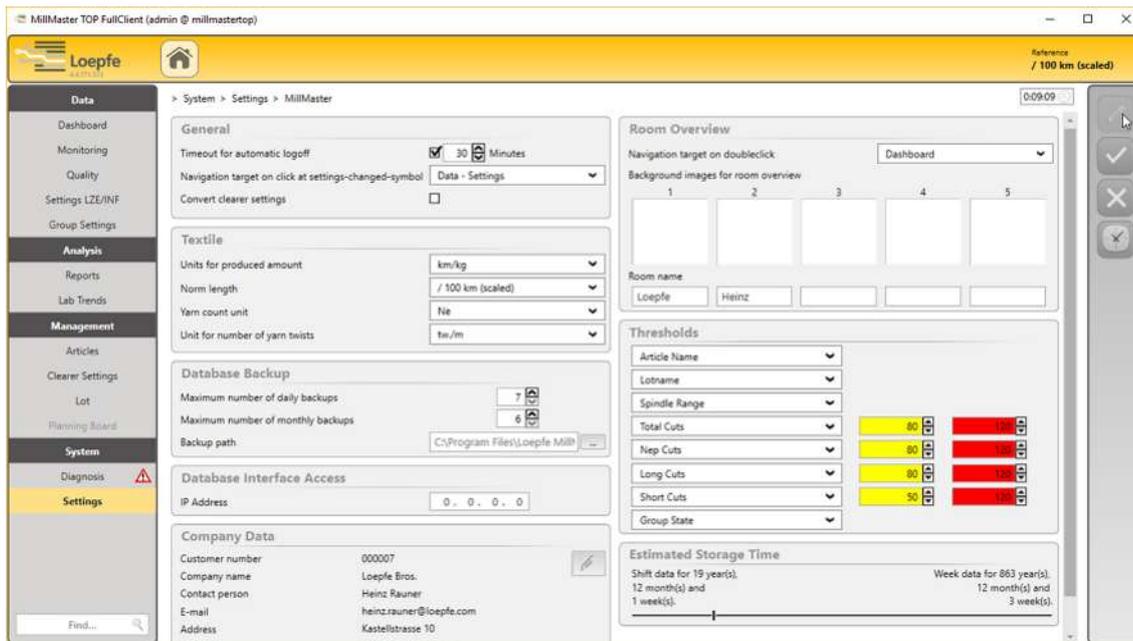


2. Enter the username (admin) and password (Admin1).
    - ⇒ The **«Registration»** window (for support services) opens.
  3. Enter the requested information in the text boxes, using the (six-digit) Customer Number given in the delivery documents.
  4. Press .
    - ⇒ The **«Language»** window opens.
  5. Select your language.
  6. Confirm with **«OK»**.
    - ⇒ The language changes.
- ⇒ The Loepfe MillMaster TOP software is started.

#### 4.1.2 Configure MillMaster (TOP server)

This menu is used to modify the settings for the system and the server.

1. In the main menu, open **System > Settings > MillMaster**.
  - ⇒ The menu opens.
2. Press .
  - ⇒ The menu is activated and can be edited.
3. Change data if necessary.



4. Press  .
  - ⇒ The data is saved.
  - ⇒ The changes are activated and recorded.

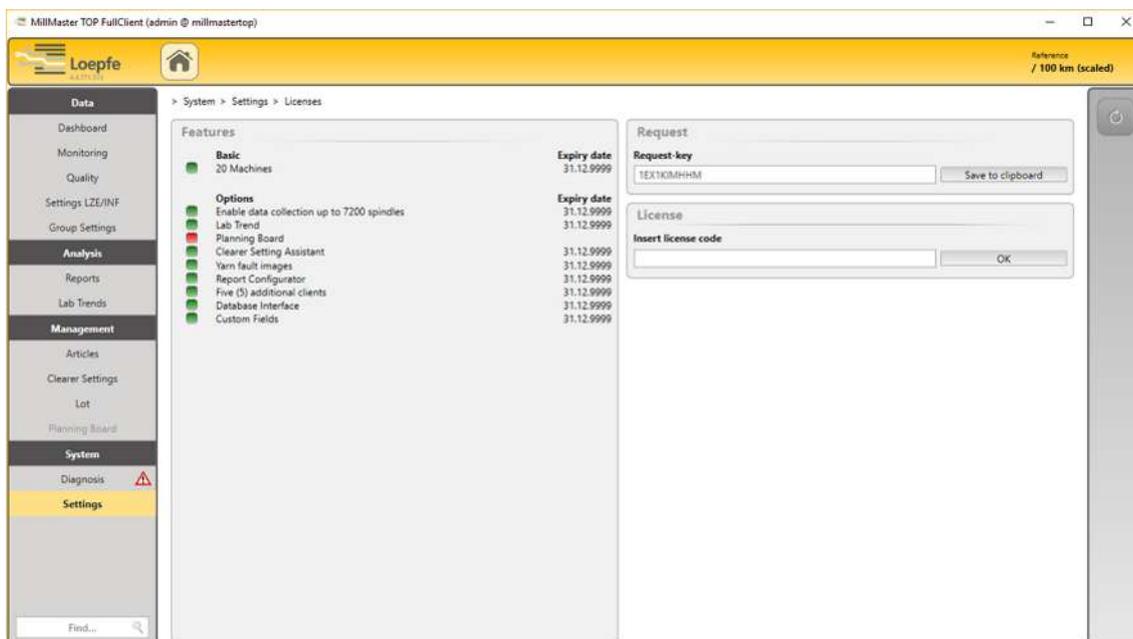
### 4.1.3 Activate licenses and options

This menu can be used to enhance the software with options.

Prerequisites

- ✓ The Loepfe.BDE.LicenseGenerator program has been installed.
- ✓ The request key is available.

1. In the main menu, open **System > Settings > Licenses**.
  - ⇒ All active and inactive options are listed under Functions.



2. Copy the request key shown under “Request” to the clipboard.
3. Open the Loepfe.BDE.LicenseGenerator program.
4. Paste in the request key.
5. Select the desired option(s).
  - ⇒ The license key is created.
6. Enter the license key in the text box and confirm with «OK».
  - ⇒ The desired option is activated.

#### 4.1.4 Add user

Depending on their responsibilities, users can be assigned to one of three specified user levels. The following table lists these user levels, which are active with the associated usernames after initial startup.

User level Group affiliation Group/Role	Username	Password	Permissions
Operator	operator	Operator1	View data Create reports View Trends View Management View System > Diagnosis View System > Settings
Foreman	foreman	Foreman1	View all data and information. Export data Create reports Edit Trends Edit and add to Management Edit System > Settings > Machines Edit System > Settings > MillMaster Edit System > Settings > Shift calendar View System > Diagnosis View System > Settings
Administrator	admin	Admin1	No restrictions

1. In the main menu, press **System > Settings > User management**.
  - ⇒ The User Management menu opens.
2. Press .
  - ⇒ The «Create new user» window opens.

3. Enter login credentials in the text boxes.
4. Set the group affiliation/user level.
5. Confirm with «OK».
- ⇒ The data is saved.
- ⇒ The user is added.

### 4.1.5 Configure basic group settings

The group settings are divided into different yarn clearer types.

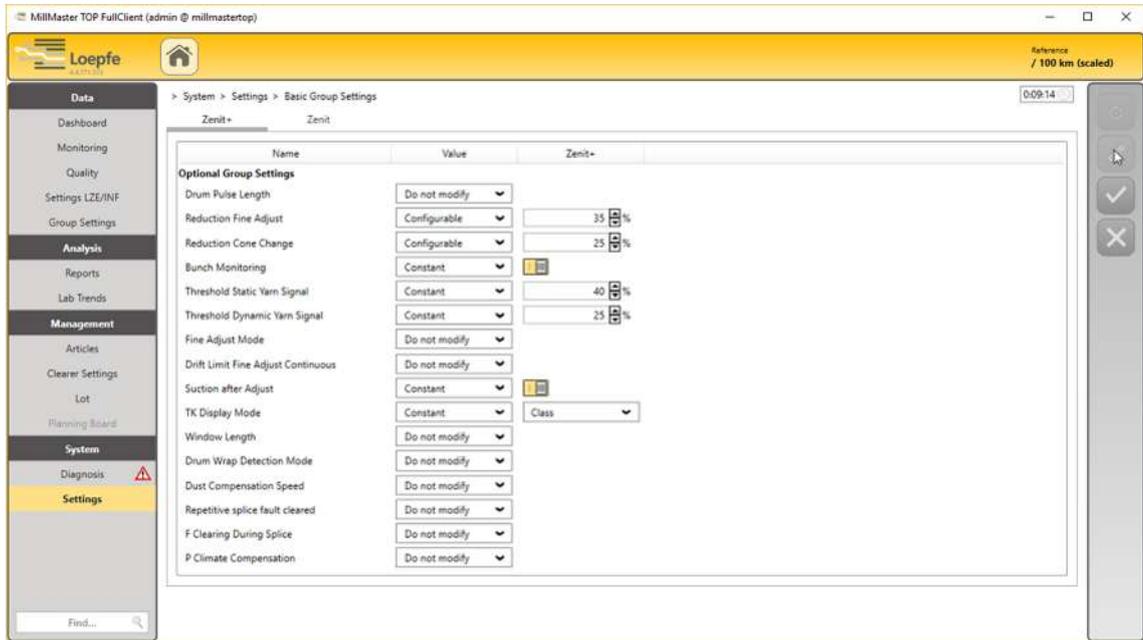
- Zenit\*
- Zenit
- Spectra



The group settings that are changed at the central unit are displayed in the software. However, these values are not automatically imported by the software.

Values	Properties
Unchangeable	<ul style="list-style-type: none"> <li>■ Settings from the central unit are automatically imported by the software</li> <li>■ Not displayed when creating a new lot</li> <li>■ Central unit settings are not displayed when downloading</li> </ul>
Constant	<ul style="list-style-type: none"> <li>■ Settings can be entered under group settings, but are not displayed when creating a new lot</li> <li>■ Central unit settings are copied over when downloading a lot</li> </ul>
Configurable	<ul style="list-style-type: none"> <li>■ Settings can be entered under group settings</li> <li>■ They are displayed when creating a new lot and can be modified/changed for this lot</li> <li>■ Central unit settings are copied over when downloading a lot</li> </ul>

1. In the main menu, press **System > Settings > Basic settings**.  
⇒ The menu opens.



2. Select the tab for the desired «yarn clearer type»
  3. Press  .  
⇒ The menu is activated and can be edited.
  4. If necessary, enter values in the “Value” column.
  5. If necessary, modify or remove settings under the yarn clearer type.
  6. Press  .  
⇒ The data is saved.  
⇒ The menu closes.
- ⇒ The changes are recorded.

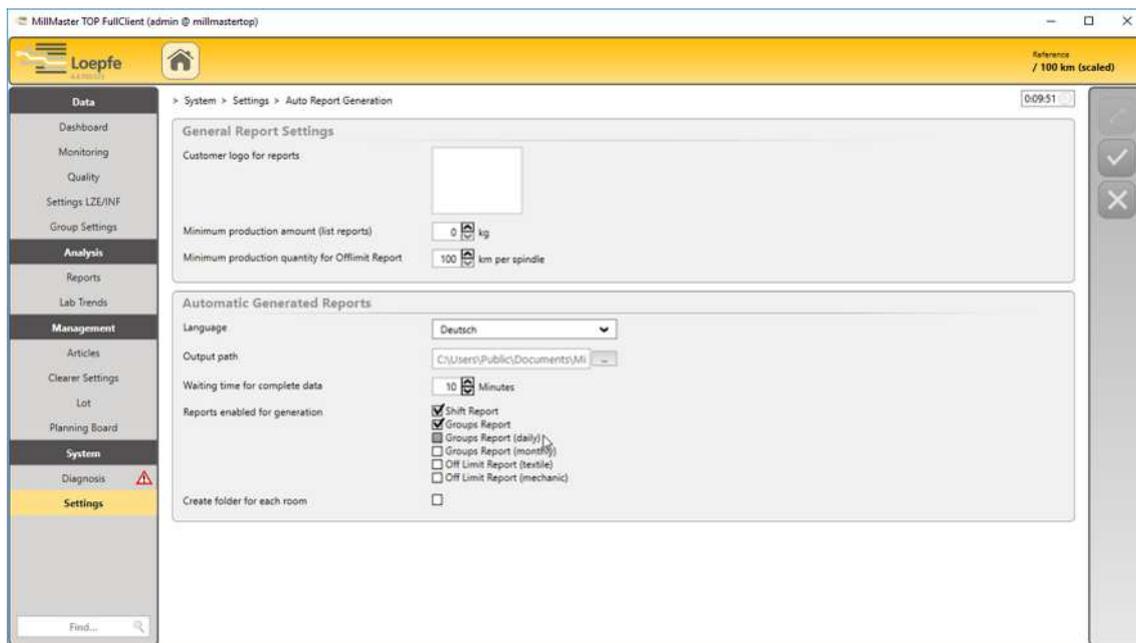
### 4.1.6 Custom reports

There are two ways to prepare reports: automatically-generated reports by default, or configuring custom reports (optional feature).

#### Automatic generated reports

The automatic generated reports are a selection of pre-defined reports. The individual customer's logo can be entered in the settings for each report, as well as the minimum production volumes for list reports and OffLimit reports. The user also selects the report language, the directory path, the wait time and the desired reports. Rooms can also be separated into various folders and saved. The reports can then be generated from the main menu under Analysis > Reports and printed out.

1. In the main menu, open **System > Settings > Generated reports**.  
⇒ The menu opens.

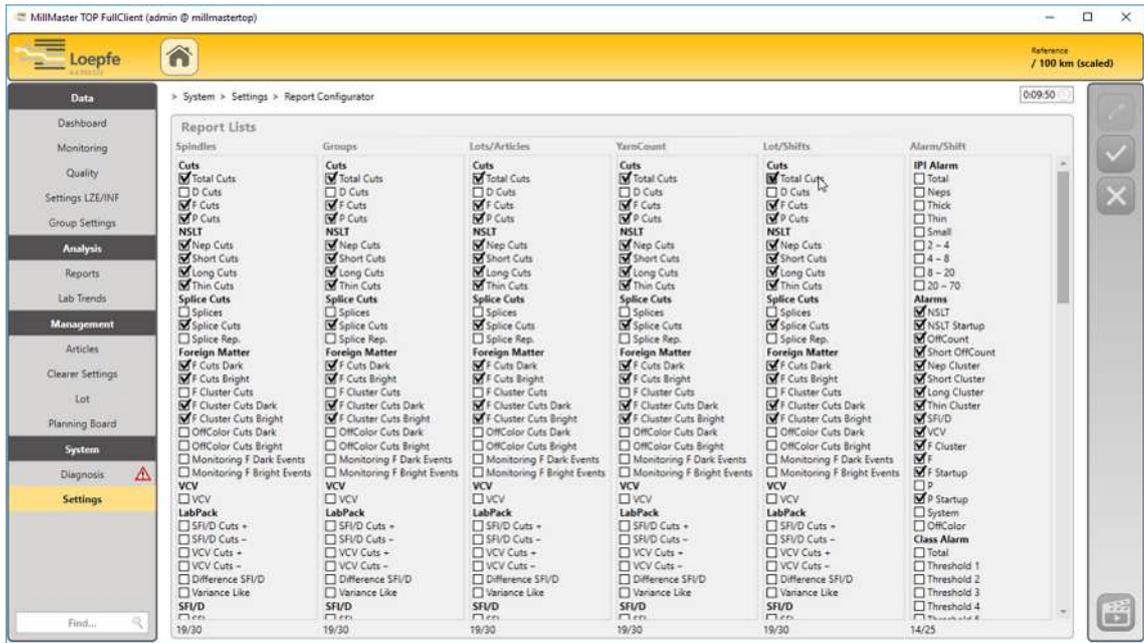


2. Press  .  
⇒ The menus are activated and can be edited.
  3. Under “General report settings”, enter the customer logo and production volumes, for example.
  4. Under “Automatically generated reports”, select the language, directory path, wait time and desired reports, for example.
  5. Press  .  
⇒ The data is saved.
- ⇒ The changes are recorded.

### Custom reports (optional feature)

The report configuration tool is used to create user-defined reports, with the report properties (list reports) set individually in the report settings. The reports can then be generated from the main menu under Analysis > Reports and printed out.

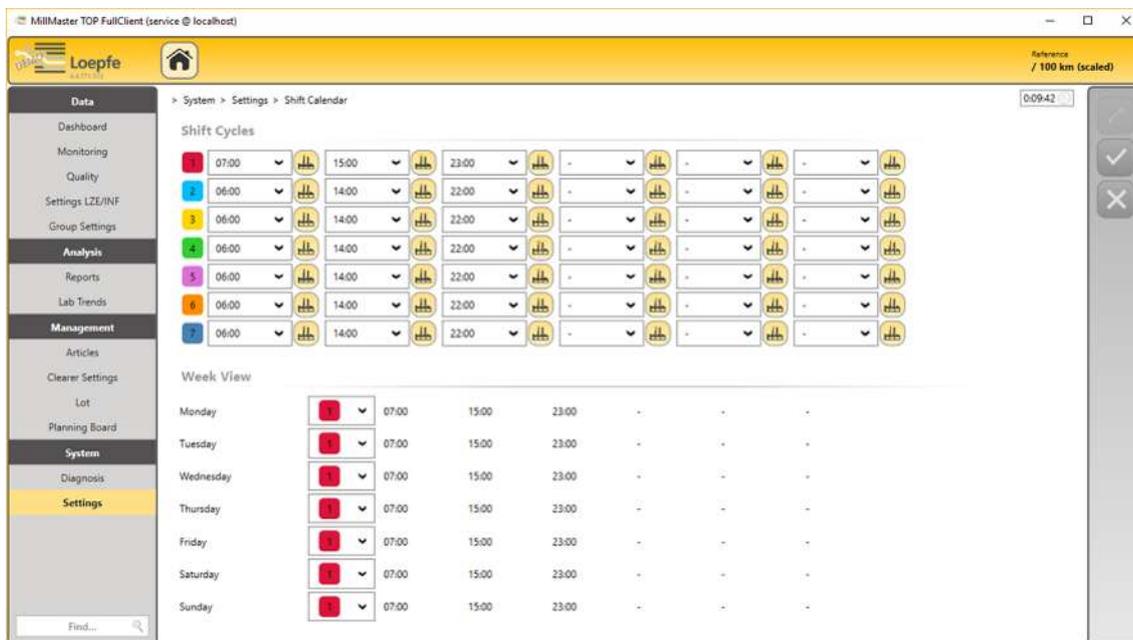
1. In the main menu, open **System > Settings > Custom reports**.  
⇒ The menu opens.



2. Press  .  
 ⇒ The menu is activated and can be edited.
  3. Under “List reports”, modify selections e.g. under Spindles, Groups, Article/Lot, etc.
  4. Press  .  
 ⇒ The data is saved.
- ⇒ The changes are recorded.

### 4.1.7 Add and edit shift calendar

- In the main menu, press **System > Settings > Shift calendar**.  
 ⇒ The Shift calendar overview opens.



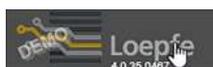
- Press .  
 ⇒ The menu is activated and can be edited for the specified editing time.

Shift calendar	Properties
Shift cycles	<ul style="list-style-type: none"> <li>■ set a maximum of 7 different shift cycles</li> <li>■ set a maximum of 3 user-defined shifts per day</li> <li>■ a shift may last up to 12 hours max</li> <li>■ time can be set in 15-minute increments</li> </ul>
Week view	Choose the desired distribution: <ul style="list-style-type: none"> <li>■ distribute shift cycles over an entire week or</li> <li>■ one shift cycle can be assigned multiple times</li> </ul>

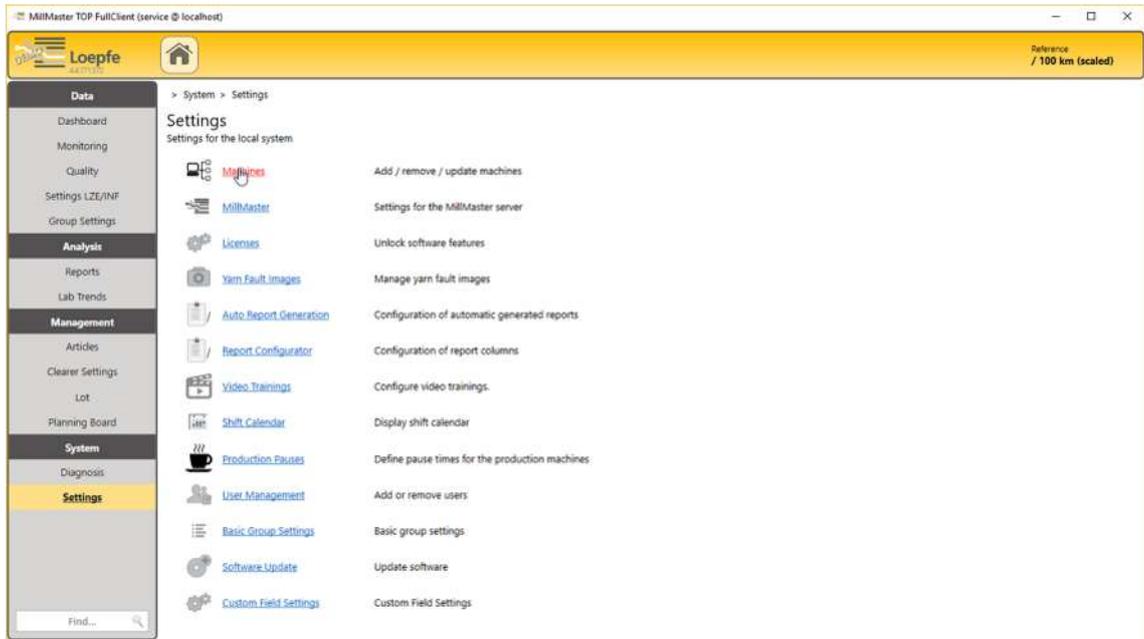
### 4.1.8 Connect and add machines

This menu is used to connect machines to the software and add them.

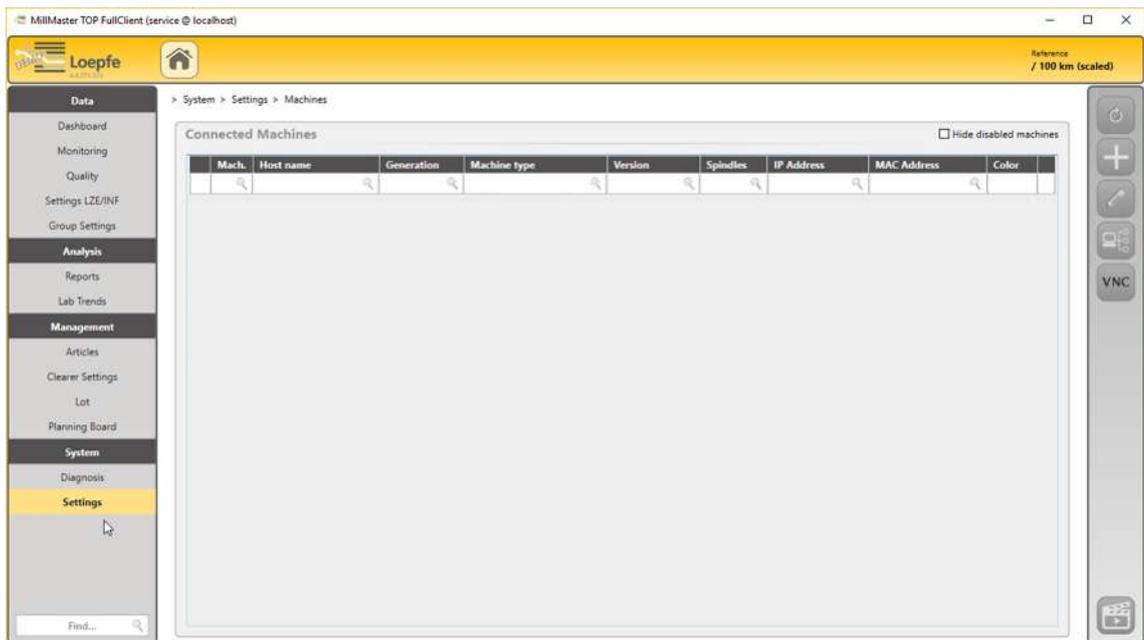
- Press the Loepfe company logo.



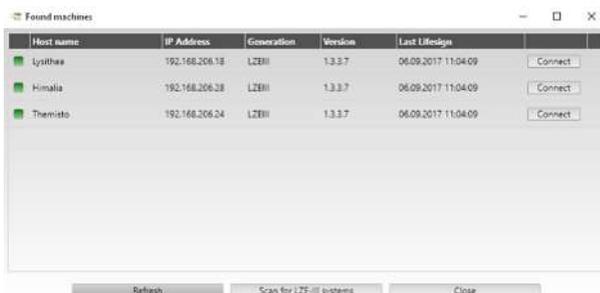
- ⇒ The Main view opens.
  - ⇒ No data are displayed because no data have been added yet.
- In the main menu, open **System > Settings > Machines**.



- ⇒ The **Settings > Connected machines** menu opens.
- ⇒ No data are displayed because no data have been added yet.



3. Press .
  - ⇒ The «**Found machines**» window opens.



- ⇒ All winding machines with LZE-V and Informators and that are connected to the data system are displayed.
- ⇒ Note: Use the «**Search for LZE-III**» button to search for winding machines with LZE-III units.
- ⇒ If no machines are shown, add them manually or check the connection data.
- 4. Select the desired machine and press «**Connect**».
- ⇒ The «**Connect to new machine**» window opens.



- 5. Enter values in the input fields, making sure to fill in the machine parameters and sections.
- 6. Press «**Add section**».
- ⇒ The machine is connected to the software.
- 7. Check that the desired machine is listed in the menu.
- ⇒ The desired machine has been added.

Symbol	Machine statuses	Meaning
	Reachable	Unrestricted communication with the data system
	Reachable	Cannot communicate with machine because data transfer has not yet occurred or because multiple different configurations are present.
	Not reachable	Communication with data system interrupted

Table 6: Machine statuses

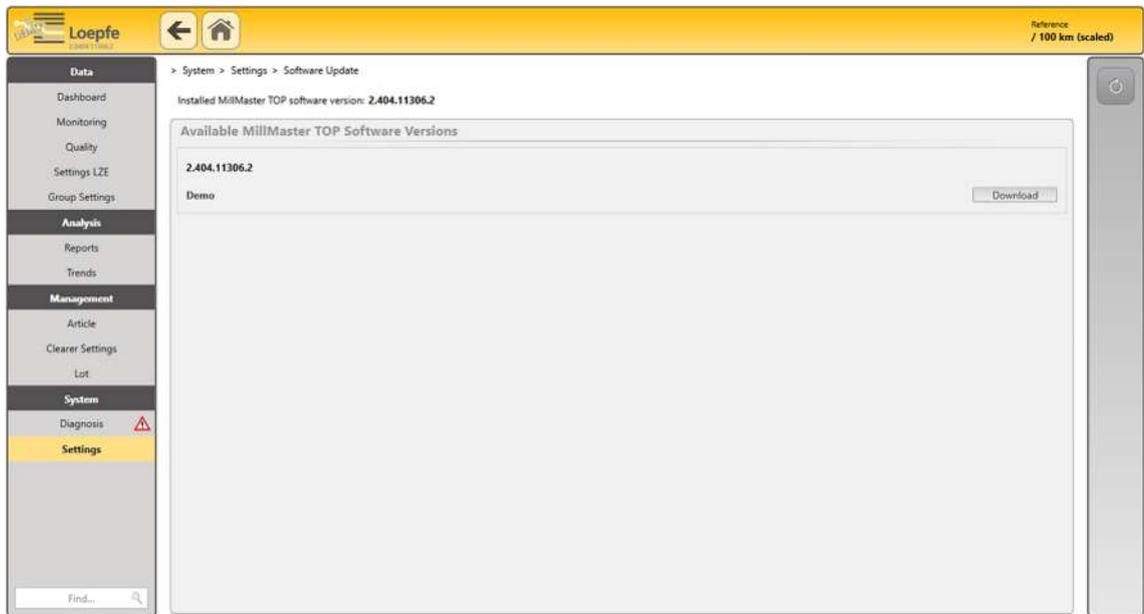
## 4.1.9 Update software

### Prerequisites

- ✓ The update service is reachable.

1. In the main menu, press **System > Settings > Software update**.

⇒ The menu opens.



2. Select the software version.
3. Download the desired version.
4. Double-click on the Setup.exe file to open it.
  - ⇒ The «**Loepfe MillMaster TOP Setup**» window opens with the list of prerequisites.
5. Press «**Next**» to start the download.
6. Follow the remaining instructions.
  - ⇒ The “Welcome to the Loepfe MillMaster TOP Setup” wizard opens.
7. Follow the instructions in the wizard.
8. Close the wizard.
  - ⇒ The software or an update is now installed.



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