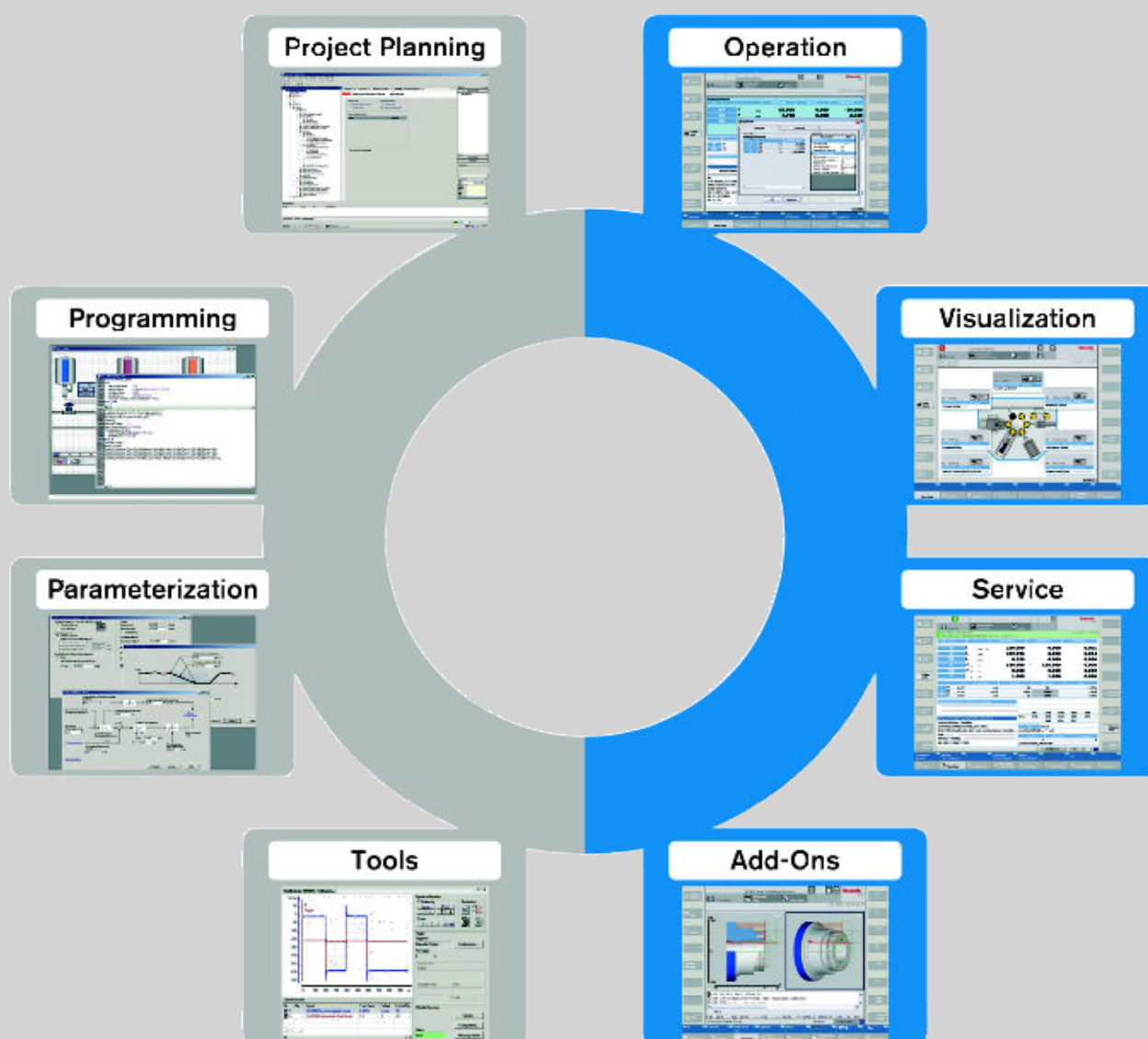


# IndraWorks 15VRS

Software Installation

**Commissioning Manual**  
**R911393450**

Edition 07



|                                |                                                                                                                                                                                                                                                                                            |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Title</b>                   | IndraWorks<br>15VRS<br>Software Installation                                                                                                                                                                                                                                               |
| <b>Type of Documentation</b>   | Commissioning Manual                                                                                                                                                                                                                                                                       |
| <b>Document Typecode</b>       | DOK-IWORKS-SOFTINS*V15-CO07-EN-P                                                                                                                                                                                                                                                           |
| <b>Internal File Reference</b> | RS-00c5412800c08cd10a347e8611a51367-7-en-US-3                                                                                                                                                                                                                                              |
| <b>Revision history</b>        | Edition 7, 2026-02<br>See <a href="#">tab. 1-1 "Revision history" on page 1</a>                                                                                                                                                                                                            |
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| <b>Editorial Department</b>    | System Development Motion Drives Motors, PeSc (MePe/MiSc)                                                                                                                                                                                                                                  |

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# 1 About this documentation

## Editions of this documentation

| Edition | Release date | Note                                                                                                                                             |
|---------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 01      | 2019-05      | First edition                                                                                                                                    |
| 02      | 2019-09      | Chapter "Licensing information" added                                                                                                            |
| 03      | 2020-11      | Chapter "Licensing information" added                                                                                                            |
| 04      | 2021-03      | Changes in chapter "General installation information"                                                                                            |
| 05      | 2022-05      | Changes in chapter "General installation information"<br>Changes in chapter "Executing installation"                                             |
| 06      | 2023-09      | Chapter "General installation information" added<br>Chapter "Executing installation" added<br>Chapter "Licensing of IndraWorks components" added |
| 07      | 2026-02      | Chapter "Executing installation" added                                                                                                           |

Tab. 1-1: Revision history

## 1.1 Validity of the documentation

### Overview on target groups and product phases

The following graphic refers to the bordered activities, product phases and target groups of the present documentation.

Example: The target group "Programmer" can "parameterize" in the product phase "Engineering" using this documentation.

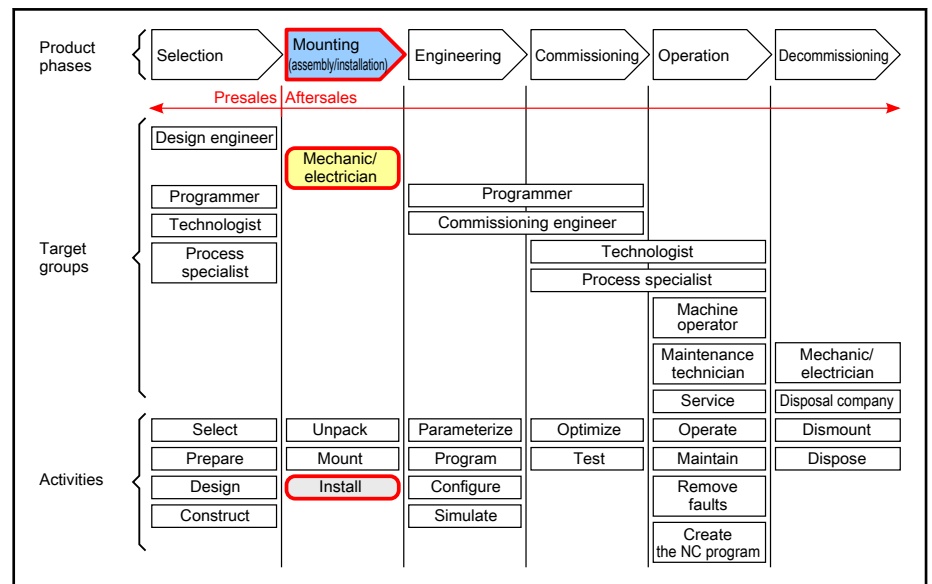


Fig. 1-1: Assigning this documentation to the target groups, product phases and target group activities

## 1.2 Licensing information

### 1.2.1 Open source components

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>).

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Acknowledge that this software is based in part on the work of the Independent JPEG Group.

This product includes software developed by Jon Skeet and Marc Gravell. Contact skeet@pobox.com, or see <http://www.pobox.com/~skeet/>.

This product uses the OSCAT library (Webpage [www.oscat.de](http://www.oscat.de) (only available in German)).

This software contains code derived from the RSA Data Security, Inc. MD4 Message-Digest Algorithm.

This software contains code derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm.

### **Dinkum C C++ Standard Abridged Libraries**

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### **if\_vlan\_var.h**

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**AES-GCM AES-CCM CMAC Patch for OpenSSL, ipcrypto, OpenSSL Library, OpenSSL v1.0.2k, OpenSSL v1.0.2p, OpenSSL, centris - centris-install-tar, SSLeay**

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>).

This product includes cryptographic software written by Eric Young([ey@cryptsoft.com](mailto:ey@cryptsoft.com)).

This product includes software written by Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

**libjpeg**

Acknowledge that this software is based in part on the work of the Independent JPEG Group.

**ProjectionEqualityComparer**

This product includes software developed by Jon Skeet and Marc Gravell. Contact [skeet@pobox.com](mailto:skeet@pobox.com), or see <http://www.pobox.com/~skeet/>.

**OSCAT-Library**

This product uses the OSCAT library (Webpage [www.oscat.de](http://www.oscat.de) (only available in German)).

### MD2-MD4-MD5, Apache Portable Runtime Utilities (APR-util)

This software contains code derived from the RSA Data Security, Inc. MD4Message-Digest Algorithm.

This software contains code derived from the RSA Data Security, Inc. MD5Message-Digest Algorithm.

## 1.3 Required and supplementing documentation MTX

### 1.3.1 Selection/compilation

#### Documentation titles with type codes and part numbers

|                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MTX 15VRS System Description</b><br>DOK-MTX***-SYS*DES*V15-PRRS-EN-P, R911397742<br>This documentation describes the MTX control. It includes the designs, technical data, interfaces as well as the configuration of the control components. |
| <b>MTX 15VRS SafeLogic System Overview</b><br>DOK-MTX***-SL**SYS*V15-PRRS-EN-P, R911398637<br>This documentation describes the use of the safety control SafeLogic in the MTX.                                                                   |
| <b>IndraControl XM42 Controls</b><br>DOK-CTRL-XM4X*CTRL**-ITRS-EN-P, R911345566<br>This documentation describes the IndraControl XM42 controls.                                                                                                  |

**RS** Corresponding edition  
*Tab. 1-2: MTX documentation overview - Selecting/composing*

### 1.3.2 Configuration

#### Documentation titles with type codes and part numbers

|                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MTX 15VRS Machine Parameters</b><br>DOK-MTX***-MA*PAR**V15-RERS-EN-P, R911400176<br>This documentation describes structure and the adjustment of available parameters of the MTX. It also includes the functions of the NC configurator and its operation.                               |
| <b>MTX 15VRS PLC Interface</b><br>DOK-MTX***-PLC*INT*V15-PRRS-EN-P, R911400172<br>This documentation describes the interface signals and the program function blocks for the integrated PLC.                                                                                                |
| <b>MTX 15VRS Functional Description - Basics</b><br>DOK-MTX***-NC*F*BA*V15-RERS-EN-P, R911401401<br>This documentation describes the basic functions of the MTX. The basic commissioning steps and the control functions are provided as description and handling instruction.              |
| <b>MTX 15VRS Functional Description - Extension</b><br>DOK-MTX***-NC*F*EX*V15-RERS-EN-P, R911393316<br>This documentation describes the extended functions of the MTX. The basic commissioning steps and the control functions are provided as description and handling instruction.        |
| <b>MTX 15VRS Functional Description - Special Functions</b><br>DOK-MTX***-NC*F*SP*V15-RERS-EN-P, R911393309<br>This documentation describes the special functions of the MTX. The basic commissioning steps and the control functions are provided as description and handling instruction. |

**MTX Free Form Surface Milling**

DOK-MTX\*\*\*-FREEFORM\*\*\*-APRS-EN-P, R911341435

This documentation describes the free form surface milling process with the MTX control. CNC programs generated by a CAD/CAM system are used as basis for the entire process. Overview over the following topics: Description of the MTX or CNC function for freeform surface milling, strategy during the NC parameterization process, boundary conditions when generating CNC programs with CAM software.

**MTX Conversion of MTX Projects**

DOK-MTX\*\*\*-PROCONV\*\*\*\*-PRRS-EN-P, R911342484

This documentation provides support during the conversion of MTX 1.x projects to MTX 2G. This project planning manual provides information on how to convert a project and identifies potential difficulties during the conversion.

**RS**

Corresponding edition

Tab. 1-3:

MTX documentation overview - Configuring

## 1.3.3 Commissioning

### Documentation titles with type codes and part numbers

**MTX 15VRS Commissioning**

DOK-MTX\*\*\*-STARTUP\*V15-CORS-EN-P, R911393281

This documentation describes the commissioning of the MTX control. Apart from a complete overview, commissioning and configuration of the axes and the user interface as well as the PLC data are described.

**IndraWorks 15VRS Basic Libraries, IndraLogic 2G**

DOK-IL\*2G\*-BASLIB\*\*V15-LIRS-EN-P, R911398633

This documentation describes the system-comprehensive PLC libraries.

**IndraWorks 15VRS Field Buses**

DOK-IWORKS-FB\*\*\*\*\*V15-APRS-EN-P, R911393284

This documentation describes the field bus and local periphery connections supported by the MLC and MTX systems. The focus of this documentation lies in the configuration, parameterization, commissioning and diagnostics of different periphery connections. It is the basis for the online help.

**IndraWorks 14VRS WinStudio 7.4**

DOK-IWORKS-WINSTUD\*V14-APRS-EN-P, R911341585

This "User Manual and Technical Reference Book" supports the user in achieving the best results with the "Rexroth WinStudio"™ software. The document provides technical information and step-by-step instructions to create web-enabled HMI/SCADA programs.

**IndraWorks 15VRS Software Installation**

DOK-IWORKS-SOFTINS\*V15-CORS-EN-P, R911393450

This documentation describes the IndraWorks installation.

**IndraWorks 15VRS Engineering**

DOK-IWORKS-ENGINEE\*V15-APRS-EN-P, R911393303

This documentation describes the use of IndraWorks in which the Rexroth Engineering tools are integrated. It includes instructions on how to work with IndraWorks and how to operate the oscilloscope function.

**IndraWorks 15VRS PLC Programming System IndraLogic 2G**

DOK-IWORKS-IL2GPRO\*V15-APRS-EN-P, R911396137

This documentation describes the PLC programming tool IndraLogic 2G and its use. The documentation includes the basic use, first steps, visualization, menu items and editors.

|                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IndraWorks 15VRS HMI</b><br>DOK-MLC***-HMI*****V15-APRS-EN-P, R911399270<br>This documentation describes the functions, configuration and operation of the user interfaces IndraWorks HMI Engineering and IndraWorks HMI Operation.         |
| <b>MTX 15VRS Shape Cutting Technology</b><br>DOK-MTX***-TECHCUT*V15-CORS-EN-P, R911399147<br>This documentation describes the shape cutting technology used by the machines to cut materials using an NC-controlled tool head.                 |
| <b>MTX-integrated CAD/CAM System for Shape Cutting</b><br>DOK-MTX***-CAD*TECHCUT-CO01-EN-P, R911393320<br>This documentation describes the mode of operation and the area of application of the CAD/CAM nesting software Lantek Expert Inside. |

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*Tab. 1-4: MTX documentation overview - Commissioning*

## 1.3.4 Operation

### Documentation titles with type codes and part numbers

|                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MTX 12VRS Block Pre-Run</b><br>DOK-MTX***-BLK*RUN*V12-APRS-EN-P, R911334379<br>This documentation explains to the machine manufacturer how to setup the "Block pre-run" function at the machine for the end user.                                                                                                                                  |
| <b>MTX 15VRS Programming Manual</b><br>DOK-MTX***-NC**PRO*V15-RERS-EN-P, R911393318<br>This documentation describes the standard programming of the MTX control. Apart from the basics of NC programming, the use of NC functions according to DIN 66025 as well as the NC functions with high-level language syntax and CPL functions are described. |
| <b>MTX 15VRS Standard NC Operation</b><br>DOK-MTX***-NC*OP***V15-APRS-EN-P, R911393314<br>This documentation describes the operation of the standard user interface of the NC control of the MTX. It includes the operation of the interface, the NC program development as well as the tool management.                                              |
| <b>MTX 15VRS Multitouch</b><br>DOK-MTX***-MULTI***V15-APRS-EN-P, R911393311<br>The Multitouch user interface of the NC control MTX is described in this documentation.                                                                                                                                                                                |
| <b>MTX 15VRS Standard NC Cycles</b><br>DOK-MTX***-NC*CYC**V15-PRRS-EN-P, R911394940<br>This documentation describes the application of the standard cycles of the different technologies for the MTX control.                                                                                                                                         |
| <b>MTX 15VRS NC Simulation</b><br>DOK-MTX***-NC*SIM**V15-APRS-EN-P, R911393273<br>This documentation describes the NC simulation for the MTX control.                                                                                                                                                                                                 |
| <b>MTX 15VRS Measuring Functions</b><br>DOK-MTX***-MES*FUN*V15-APRS-EN-P, R911394938<br>This documentation describes the measuring cycles of the MTX control.                                                                                                                                                                                         |

**RS** Corresponding edition  
*Tab. 1-5: MTX documentation overview - Operating*

## 1.3.5 OEM Engineering

### Documentation titles with type codes and part numbers

|                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MTX 13VRS Automation Interface</b><br>DOK-MTX***-AUT*INT*V13-APRS-EN-P, R911337274<br>This documentation describes the script-based access to IndraWorks project data via the interface of the Automation Interface. Different objects including code examples are described. The Automation Builder is also described in this manual. |
| <b>MTX 15VRS OPC Communication</b><br>DOK-MTX***-OPC*COM*V15-PRRS-EN-P, R911399272<br>This documentation describes the syntax and the structure of the items for the communication with Bosch Rexroth devices.                                                                                                                            |
| <b>IndraWorks OPC UA Communication</b><br>DOK-IWORKS-OPC*UA*****-APRS-EN-P, R911379309<br>This documentation describes the OPC UA communication of the MLC and MTX control systems.                                                                                                                                                       |

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*Tab. 1-6: MTX documentation overview - OEM engineering*

## 1.3.6 AddOns

### Documentation titles with type codes and part numbers

|                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MTX 11VRS Action Recorder</b><br>DOK-MTX***-ACR*****V11-APxx-EN-P, R911329943<br>This documentation describes the MTX action recorder. It includes the installation and commissioning as well as interface signals, application and operation.                                                                                                                                                                          |
| <b>MTX 15VRS Efficiency Workbench MTX cta, MTX ega</b><br>DOK-MTX***-EWB*****V15-APRS-EN-P, R911400178<br>This documentation describes the mode of operation and the area of application of the analysis tool MTX cta and MTX ega.                                                                                                                                                                                         |
| <b>MTX Remote Condition Monitoring</b><br>DOK-MTX***-RCM*****V01-APRS-EN-P, R911334383<br>This documentation describes the operation of the Remote Condition Monitoring System.                                                                                                                                                                                                                                            |
| <b>MTX visIREC User Documentation</b><br>DOK-MTX***-VISIREC*V01-APRS-EN-P, R911344242<br>This documentation describes the analysis tool visIREC used to optimize the free form surface milling process. 2D or 4D display of path-related data. 2D or 4D display of coordinate-related data. Analysis of critical areas (path and orientation deviation). Comparing the programmed NC blocks to the interpolated NC blocks. |

**xx / RS** Corresponding edition  
*Tab. 1-7: MTX documentation overview - AddOns*

## 1.4 Information representation

### 1.4.1 Using safety instructions

#### Structure of the safety instructions

The safety instructions are structured as follows:

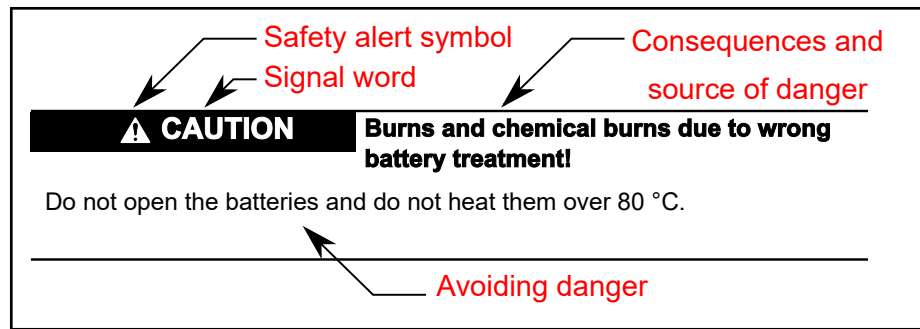


Fig. 1-2: Structure of the safety instructions

## Explaining signal words and safety alert symbol

The safety instructions in this documentation contain specific signal words (danger, warning, caution, notice) and, if necessary, a safety alert symbol (according to ANSI Z535.6-2006).

The signal word draws attention to the safety instruction and indicates the risk potential.

The safety alert symbol (triangular safety reflector with exclamation marks), preceding the signal words Danger, Warning, Caution indicates hazards for persons.

### DANGER

In case of non-compliance with this safety instruction, death or serious injury **will** occur.

### WARNING

In case of non-compliance with this safety instruction, death or serious injury **can** occur.

### CAUTION

In case of non-compliance with this safety instruction, minor or moderate injury can occur.

### NOTICE

In case of non-compliance with this safety instruction, material damage can occur.

## Symbols used

Pointers are displayed as follows:



This is a note.

Tips are displayed as follows:



This is a tip.

## Explaining the signal alert symbol on the device



If this symbol is on your device, you have to observe the documentation on the device. The respective documentation informs on the type of hazard as well as the steps required to avoid this hazard.

### 1.4.2 Names and abbreviations

| Term         | Explanation                                             |
|--------------|---------------------------------------------------------|
| Ethernet     | Communication interface                                 |
| IP address   | Network address                                         |
| IWE          | IndraWorks Engineering                                  |
| IWO          | IndraWorks Operation                                    |
| Patch        | Software update installation                            |
| Test license | Activation of functions subject to license for 30 days. |

Tab. 1-8: Names and abbreviations used

## 1.5 Customer feedback

Customer requests, comments or suggestions for improvement are of great importance to us. Please email your feedback on the documentations to [Feedback.Documentation@boschrexroth.de](mailto:Feedback.Documentation@boschrexroth.de). Directly insert comments in the electronic PDF document and send the PDF file to Bosch Rexroth.



## 2 Important instructions on use

### 2.1 Intended use

#### 2.1.1 Introduction

Bosch Rexroth products are developed and manufactured according to the state-of-the-art. The products are tested prior to delivery to ensure operating safety and reliability.

The products may only be used as intended. If the products are not used as intended, situations can occur that result in damage to property or personal injury due to unintended use of products.



Bosch Rexroth shall not assume any warranty, liability or payment of damages in case of damage resulting from a non-intended use of the products; the use shall solely bear all risks from unintended use of the products.

---

Before using Bosch Rexroth products, the following requirements have to be met to guarantee the intended use of the products:

- Anybody handling Bosch Rexroth products in any way is obliged to read and consent to the relevant safety instructions and the intended use.
- If the product takes the form of hardware, then they must remain in the original state, in other words, no structural changes are permitted. It is not permitted to decompile software products or alter source codes.
- Do not install damaged or defective products or use them in operation.
- It has to be ensured that the products have been installed as described in the relevant documentation.



## 3 General information on the installation

### 3.1 Pre-installed user interface

The user interface and the related firmware are already installed on a configured industrial PC.

The following chapter deals with software updates for pre-installed Bosch Rexroth industrial PCs. If a PC of a third party manufacturer is to be used, the software installation for the user interface is described in the following chapters.

### 3.2 Installation program and this documentation

**What is being installed?** The installation program installs the IndraWorks software as well as the corresponding tools, depending on the purchased license.

**Who executes the installation?** For the installation, experience in working with PCs and the operating system is required. Administrator rights are required to execute the installation.

**Installation program** The installation program decompresses and installs IndraWorks and the associated files from the DVD on your hard disk.

Updates, change installations and uninstalling the software can also be executed using this installation program.

**Documentation** This manual describes how to install, setup, update and remove IndraWorks.



Read these installation instructions and, if necessary, additional documents **before** installing the software.

### 3.3 System requirements

#### 3.3.1 Installing IndraWorks Engineering on PCs of a third party manufacturer

##### Hardware requirements for IndraWorks Engineering

###### *Minimum requirements*

- IBM-compatible PC, min. requirement: Pentium IV
- CPU clock rate 2 GHz
- RAM: 4 GB
- 5 GB free disk capacity on C: drive (incl. temporary memory during installation)
- DVD drive
- *Graphic resolution*
  - 800 x 600 pixel
  - Color depth: 16 bit



IndraWorks Engineering is intended for a screen resolution of 96 DPI (default setting). The use of other settings is considered as unintended and can cause an incomplete or incorrect display of screen elements.

###### *Recommended requirements*

- IBM-compatible PC, i5 quad core

**Hardware requirements for  
Rexroth IndraWorks CamBuilder****Hardware requirements for  
Rexroth IndraWorks Simulation****Hardware requirements for  
"IndraWorks D" and "IndraMotion  
MLD"**

- RAM: 8 GB for 64 bit operating systems

The hardware requirements as for IndraWorks Engineering apply.

To improve the performance, an OpenGL-capable graphic card can be used.

The hardware requirements as for IndraWorks Engineering apply.

To improve the performance, an OpenGL-capable graphic card can be used.

The minimum requirements as for IndraWorks Engineering apply.

### 3.3.2 Control hardware for the IndraMotion MTX system

*As a scalable control system, "IndraMotion MTX" currently consists of the following system variants:*

- IndraMotion MTX standard, based on the control hardware XM42S
- IndraMotion MTX performance, based on the control hardware XM42P
- IndraMotion MTX advanced, based on the control hardware XM42A

For details, please refer to the MTX System Description (DOK-MTX\*\*\*-SYS\*DES\*V15-PRRS-EN-P).

### 3.3.3 Control hardware for the system IndraMotion MLC

*The IndraMotion MLC control system supports the following hardware platforms using the current version:*

- XM4x
- XM2x
- VPx

Depending on the hardware, different functionalities such as field bus interfaces, function modules, RobotControl, axis number as well as cycle times are supported. For details, please refer to the IndraMotion MLC Functional Description (DOK-XLCMLC-FUNC\*\*\*\*V15-AP01-EN-P (→ in preparation)) or the hardware project planning manuals.

Part of this description is the installation of IndraWorks Engineering to configure the IndraLogic XLC and IndraMotion MLC.

### 3.3.4 Supported operating systems

*The following operating systems are supported:*

- Microsoft Windows 10
- Microsoft Windows 11



.Net Framework 4.5 or higher (Windows 10 or higher) has to be activated/installed.



Pre-installed industry PC by Bosch Rexroth contain a service pack released by Bosch Rexroth for the respective operating system.

The user is responsible for installing subsequent service packs or Windows updates.

### 3.3.5 Supported browsers

*To use the offline help for DRIVE Engineering, which can be installed later, one of the following browsers is required:*

- Mozilla Firefox
- Google Chrome
- Microsoft Edge



Internet Explorer 11 is not supported anymore.

---



## 4 Performing an installation

### 4.1 General information

The installation of the user interface requires knowledge of PCs and the operating system.

Administrator rights are required to install IndraWorks and its installation options.

To enable the IndraLogic communication in IndraWorks, the ports 1200 and 1210 have to be enabled in the firewall setting .



It is recommended to disable an active virus scanner during the installation, to rule out any influences on scripts running during the setup.



If several IndraWorks versions are installed on the PC, administrator rights are required for switching.



No administrator rights are required to execute IndraWorks.

#### Access data

Pre-installed operating terminals supplied by the manufacturer Bosch Rexroth are equipped with Windows 7, Windows 10 or Windows 11

*As of Microsoft Windows 7 or Windows 10, use the following access data:*

- User name: Rexroth
- Password: Rexroth

*As of Microsoft Windows 10 version 21H2 or Windows 11, use the following access data:*

- User name: boschrexroth
- Password: boschrexroth

#### Log in as an administrator

*How to login as administrator on operation terminals preinstalled by Bosch Rexroth:*

- User name: Admin
- Password: Admin

## 4.2 New or parallel installation of Rexroth IndraWorks

### 4.2.1 General information

*Installation DVDs are available for the following IndraWorks variants:*

- MTX
- MLC
- MLD

### 4.2.2 DVD installation

**It is assumed that a DVD drive "E" is used for the installation.**

1. Insert the DVD in the DVD drive.



If "Autorun" runs on your system and it is to be installed from a local DVD drive, the installation wizard starts automatically. Subsequently, continue with step 3.

To install from a DVD drive shared in the network, use Windows Explorer to navigate to the DVD drive and double-click on "IndraWorksxxx-15.x.x.exe" to start it. Continue with step 3.

2. For example, write "E:\IndraWorksxxx-15.x.x.exe" in the start menu for an installation from DVD.

Then click on the displayed file

Another option is to click on the DVD drive from Windows Explorer and double-click on the "IndraWorksxxx-15.x.x.exe" file to run it:

| Name                     | Date modified    | Type          | Size     |
|--------------------------|------------------|---------------|----------|
| Packages                 | 08.04.2019 11:26 | File folder   |          |
| Redists                  | 08.04.2019 11:26 | File folder   |          |
| EmbeddedPackages.txt     | 02.04.2019 15:58 | Text Document | 17 KB    |
| IndraWorksxxx-15.x.x.exe | 03.04.2019 06:12 | Application   | 1.747 KB |

Fig. 4-1: Content of the DVD listed with selection of IndraWorksxxx-15.x.x.exe

Start the installation wizard with <Enter> or double-click.

3. Select the language to be guided through the installation and click on **Next**.

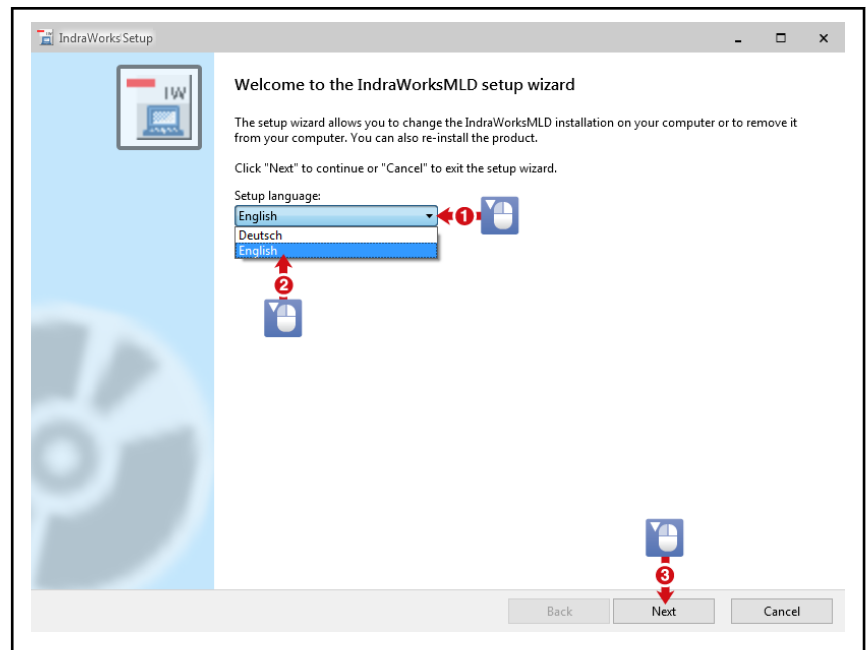


Fig. 4-2: Dialog: IndraWorks Setup (language selection)

Basic operation of the installation program: Use **Next** to go to the next dialog, **Back** to navigate back to the previous dialog and **Cancel** to cancel the process.

4.



If a previous version is installed, "Change installation" is provided and automatically selected. Change an existing installation here. Select the installation to change and click on **Next**. Here you can **update**, **repair** or **remove** the existing version.

Select "Install new" if IndraWorks is to be installed as an additional version and follow the dialogs. Existing installations will not be changed.



With a storage medium of a currently available version, existing installation can be repaired.



If the installation data carrier contains a patch, the patch is installed automatically after the basic installation has been completed.

5. Please read the license conditions.

*To accept the license conditions, click on*

- **Finish**

*If you do not agree with the license terms, click on*

- **Cancel**

The installation is cancelled.

6. Select the drive and the target path where the user interface is to be installed.



The hard disk on a Bosch Rexroth industry PC is divided into two partitions (C: NTFS file system, D: NTFS file system). The interface is installed on drive C:.

7. Select the functions (options, extensions, languages) to be installed and enter your license key under Licenses by clicking on **New...** to enter your license key and confirm with **OK**. Click on **Next**.
8. Click on **Install** to start the installation.
9. Click on Finish to exit the setup wizard.
10. Restart Windows.



Before working with the program, restart Windows or the computer.

The installation is now completed.

After restart, system files are updated and the necessary registrations are made.

## 4.3 Updating IndraWorks

### 4.3.1 DVD installation



Loss of user data!

Back up the user data **before** a software update.



Unfortunately, it is not possible to update an IndraWorks version from IndraWorks V14 to V15.

1. To update IndraWorks, the storage medium matching your version is required.
2. Start the update by starting the program "IndraWorksxxx-15.x.x.exe", as described in chapter [4.2 New or parallel installation of Rexroth IndraWorks, page 19](#).
3. If a previous version is installed, "Change installation" after selecting the installation language. Change an existing installation here. Select the installation to change and click on **Next**. Here you can **update** the existing version.
4. Select the functions (options, extensions, languages) to be updated. Click on **Next**.
5. Click on **Update** to update the installation of IndraWorks.

### 4.3.2 Silent installation

The "Silent" installation allows to install IndraWorks without manual intervention (e.g. for an automated installation on different end devices).

The settings required for the installation are transferred to the IndraWorks-Suite-X.Y.Z.exe setup via command line parameters. If you open the IndraWorksSuite-X.Y.Z.exe setup with the command line parameter `/?` or `/Help`, the possible command line parameters are listed.

**Below is a brief description of the most important command line parameters:**

`/Silent=yes`

This allows to select the silent installation.

`/Language=de` or `/Language=en`

This allows to select the language for the automatically displayed installation dialogs.

```

/Mode=install
/Mode=Update
/Mode=Repair
/Mode=Uninstall

```

This allows to select the installation type:

`install` = means that you want to perform a new installation of IndraWorks.

`Update` = means that you want to update an existing installation, i.e. upgrade to a newer version.

`Repair` = means that you want to repair an existing installation (only possible with the same version!).

`Uninstall` = means that you want to remove (uninstall) an existing installation.

```
/Path=<Installation directory>
```

This defines the installation directory for IndraWorks (complete installation path).

```
/LicenceCodeFile=<License Key File>
```

Enter the complete file name of the license file for the necessary installation licenses and option/software licenses (note: complete file name with path).

The license file is in Windows INI format; the selected installation licenses and the selected option/software licenses are listed here. This allows to specify the IndraWorks components (e.g. MTX variant, MLC variant, etc.) be installed. You need the corresponding activation codes. You can also specify the desired option/software licenses in the license file. These then no longer need to be activated within the IndraWorks engineering environment.

**The license file has the following structure:**

```
[LicenceCodesForInstallation]
```

```
;IndraMotion MTX - Operation and Engineering
```

```
;R911324706 SWL-IWORKS-MTX-09VRS-D0-OPDENG
```

```
;Serial number: 000000000
```

```
001=WC5A23-FF6B0A-8J7C3F-9D8DO9-XXXXXX
```

```
;IndraMotion MTX - Simulator
```

```
;R911324709 SWL-IWORKS-MTX-09VRS-D0-SIMULATOR
```

```
;Serial number: 000000000
```

```
002=WC5A23-FF6B0A-8J7C3F-9D8DO9-XXXXXX
```

```
;IndraMotion MTX - Operation
```

```
;R911324707 SWL-IWORKS-MTX-09VRS-D0-OPD
```

```
;Serial number: 000000000
```

```
003=WC5A23-FF6B0A-8J7C3F-9D8DO9-XXXXXX
```

```
;IndraMotion MTX - Communication
```

## Performing an installation

```
;IndraMotion MTX compact - Communication  
;R911324708 SWL-IWORKS-MTX-09VRS-D0-COM  
;Serial number: 000000000  
004=WC5A23-FF6B0A-8J7C3F-9D8DO9-XXXXXX
```

```
[LicenceCodesForOptions]
```

```
;R911307598 SWS-MTX***-RUN-NNVRS-D0-08A02C  
8 servo axes - 2 channels  
8 Servo axes - 2 channel  
;Serial number: 000000000  
001=WA5A23-FI6B0A-8H7C3F-9M8DO9-XXXXXX
```

```
;R911307600 SWS-MTX***-RUN-NNVRS-D0-BAZ1  
Machining center 1  
Machining center 1  
;Serial number: 000000000  
002=WA5A23-FI6B0A-8I7C3F-9D8DO9-XXXXXX
```

```
;MR911308623 SWS-MTX***-RUN-NNVRS-D0-TUR1  
Turning technology 1  
Technology Turning 1  
;Serial number: 000000000  
003=WA5A23-FJ6B0A-8I7C3F-9F8DO9-XXXXXX
```

```
;R911308624 SWS-MTX***-RUN-NNVRS-D0-LAS1  
Laser machining technology 1  
Technology Laser 1  
;Serial number: 000000000  
004=WA5A23-FJ6B0A-8I7C3F-9F8DO9-XXXXXX
```

```
;R911308625 SWS-MTX***-RUN-NNVRS-D0-GRI1  
Grinding technology 1  
Technology Grinding 1  
;Serial number: 000000000  
005=WA5A23-FJ6B0A-8I7C3F-9F8DO9-XXXXXX
```

```
;R911308627 SWS-MTX***-RUN-NNVRS-D0-PUN1  
Forming technology 1  
Technology Forming 1  
;Serial number: 000000000
```

```
006=WA5A23-FJ6B0A-8I7C3F-9F8DO9-XXXXXX
```

```
;R911308628 SWS-MTX***-RUN-NNVRS-D0-SFPM
```

```
Workshop programming Milling
```

```
Shop-floor programming milling
```

```
;Serial number: 000000000
```

```
007=WA5A23-FJ6B0A-8I7C3F-9F8DO9-XXXXXX
```

```
;R911308630 SWS-MTX***-RUN-NNVRS-D0-SFPT
```

```
Workshop programming Turning
```

```
Shop-floor programming turning
```

```
;Serial number: 000000000
```

```
008=WA5A23-FJ6B0A-8I7C3F-9G8DO9-XXXXXX
```



The above data does NOT include valid installation activation codes or option activation codes. If the lines begin with a semicolon, they are comment lines.

**Note on silent installation:**

You can also manage multiple installations of IndraWorks via the Silent installation. The individual installations of IndraWorks are managed via the installation path, i.e. you have to remember and manage the respective installation path.

## 4.4 Demo license

### 4.4.1 General information

The IndraWorks installation program allows to install options requiring a license even if you do not have the required software licenses by Bosch Rexroth.

During the installation, check the check box **Demo license**. The demo license is valid for 30 days from this point and allows for unlimited working with IndraWorks.

IndraWorks Engineering, the use of the demo license is displayed by the text <DEMO LICENSE ACTIVE!> in the title bar. IndraWorks Operation, a reminder dialog is displayed in decreasing intervals.

### 4.4.2 Start behavior of IndraWorks with demo license

Upon each IndraWorks Engineering or IndraWorks Operation start, the following dialog is displayed if the demo license has been enabled during the installation and if the demo license period of 30 days has not yet expired:

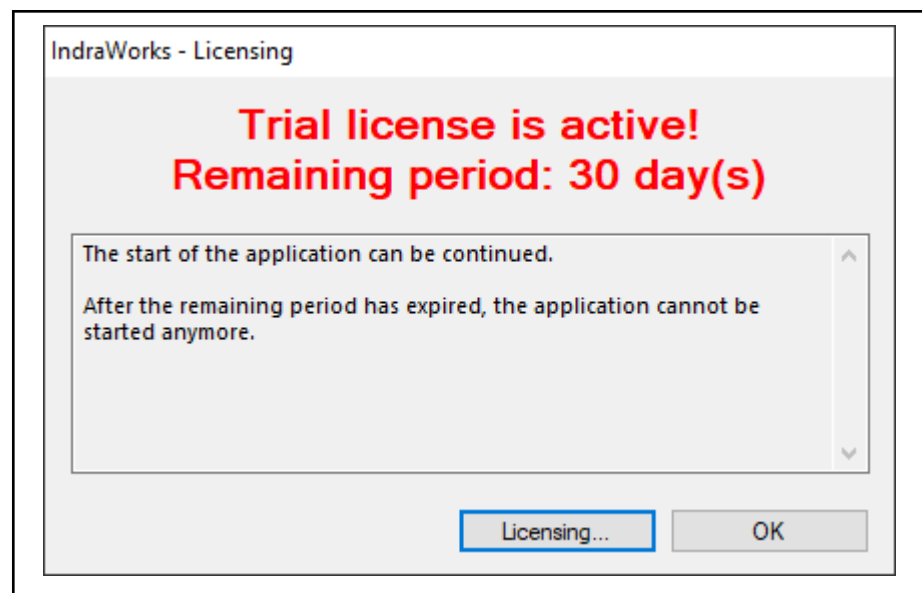


Fig. 4-3: Dialog: IndraWorks licensing

The dialog closes automatically after 20 seconds upon the IndraWorks Operation start without any operation and the start of the application is continued.

The remaining runtime of the demo license is displayed. Use the option **Licensing...** to change the license status of the installed options requiring a license in another dialog by entering a valid activation key.

Click on **OK** to continue the start of the application.

If the remaining time has expired upon the start of IndraWorks Engineering or IndraWorks Operation, the following dialog is displayed:

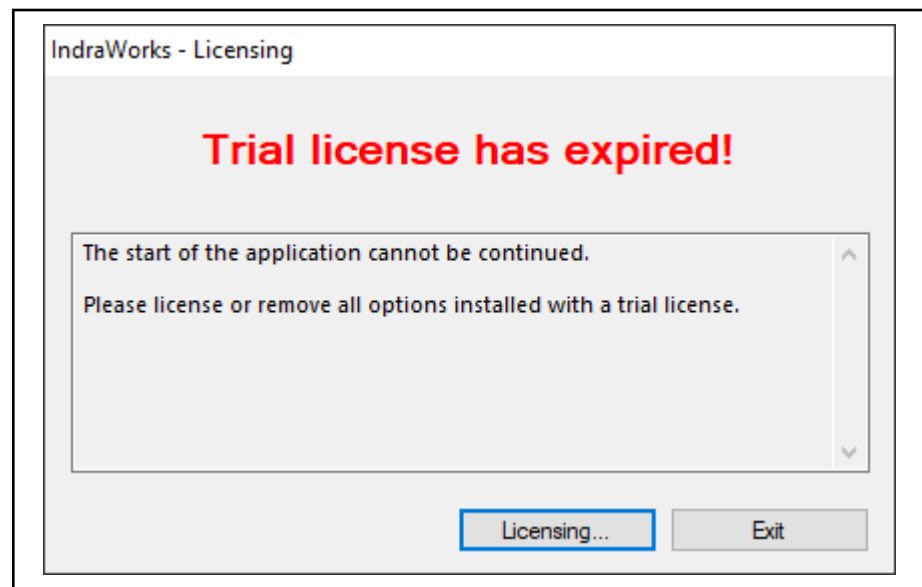


Fig. 4-4: Dialog: IndraWorks licensing

From this time, the dialog is not closed automatically anymore after 20 seconds upon the start of IndraWorks Operation.

*Available options:*

- Click on **License** and enter the license code to continue.
- Select **Close** and exit IndraWorks.

The start of the application can only be continued if valid activation keys have been entered for all demo-licensed options and thus, the demo license has been disabled. Unlicensed options have to be uninstalled via [chapter 4.2 "New or parallel installation of Rexroth IndraWorks" on page 19](#) to allow for a start of IndraWorks Engineering or IndraWorks Operation.

### 4.4.3 Reminder dialog in IndraWorks Operation

In intervals, the following dialog is displayed in IndraWorks Operation if the demo license is activated:

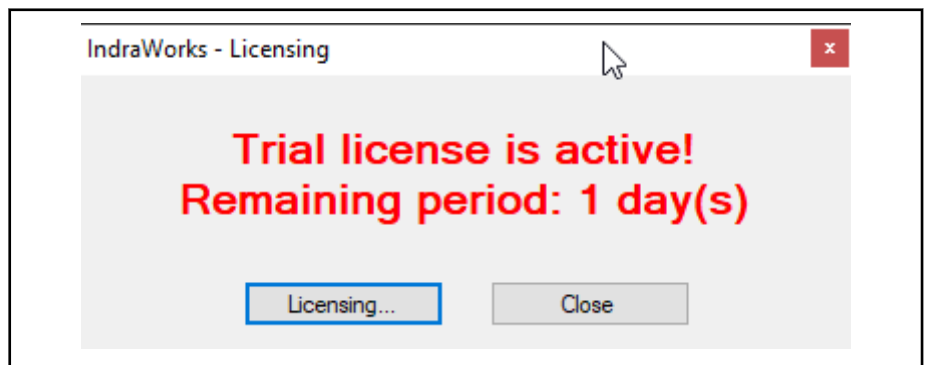


Fig. 4-5: Dialog: IndraWorks licensing

The waiting time until the dialog is displayed decreases with the decreasing remaining time of the demo license. A subsequent restart of IndraWorks Operation after the remaining time has expired is not possible anymore. Thus, acquire the required software license(s) by Bosch Rexroth in due time. If you have acquired the licenses, adjust the license status of the installed options via the option **License...**

## 4.5 Uninstalling Rexroth IndraWorks

### Uninstalling for parallel installations

If several versions of the software are installed, the setup can also be used to uninstall the versions. After starting the setup (see [4.2.2 Installing Rexroth IndraWorks on page 19](#)), the drop-down list is displayed.

1. If a previous version is installed, "Change installation" is provided. Here you can delete an existing installation. Select the installation to delete and click on **Next**.
2. Click on **Remove** to uninstall the selected IndraWorks version.
3. Click on **Remove** to continue with the uninstallation.

### Uninstalling using the operating system

Uninstalling Rexroth IndraWorks is executed via the operating system (click on Windows 11: **Start menu ► Settings ► Apps ► Apps and Features**) Click on "IndraWorks" as the program to be removed and select **Uninstall**. Follow the on-screen instructions to complete the uninstallation. The installation DVD is not required to uninstall IndraWorks. After uninstalling, you can view the log file.



### Loss of user data!

⇒ Ensure that you save the user data before uninstalling the software if you want to keep them.



## 5 Licensing of IndraWorks components

### 5.1 Licensing

Refer to IndraWorks 14VRS Engineering Application Description (DOK-IWORKS-ENGINEE\*V14-APRS-EN-P, R911343566)

### 5.2 Removing the IndraWorks license

**To remove a license of IndraWorks on your computer, you need to execute the following steps:**

1. Start the installation application (e.g. IndraWorks MTX-15.16.3.exe) from the DVD or from your installation directory.
2. Select "Change installation" in the "Re-install" or "Change installation" wizard.
3. Select "Update" in the "Update, repair or remove installation" window.
4. Select the "Licenses" tab.
5. Select the license (part/serial number). The line is highlighted in blue.
6. Press the "DEL" key.
7. Select "Yes" to "Remove license entry" in the "Setup licenses" window.



## 6 More information

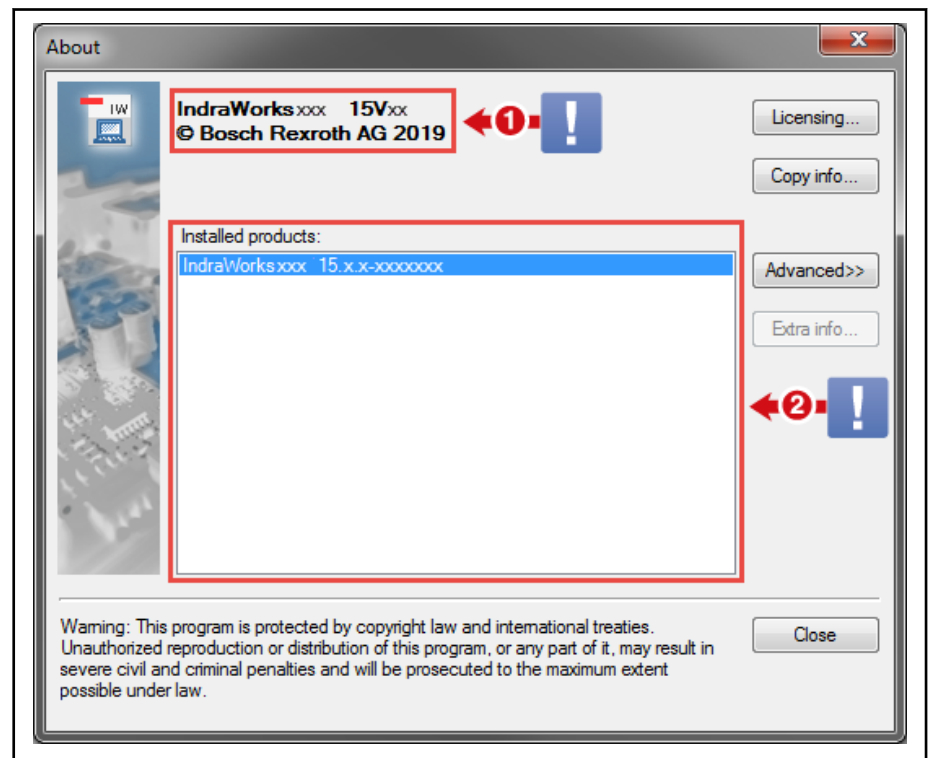
### 6.1 Version display

#### 6.1.1 Calling the version display in IndraWorks

The version display (also info dialog) shows information about the currently installed software version.

The info dialog can only be called if the menu bar is active. The menu bar is enabled or disabling using <ALT+M>. If the menu bar is active, the version display can be called via **Help ► Info....**

#### 6.1.2 Version display



1 IndraWorks version

2 Installed products

Fig. 6-1: Dialog: Info

Use "Extended >>", to show the components (in field "2") of the installed interface with their version information.

Use "Copy info" to read information from all installed files and copy them to the notepad. If required, this information can be saved in any file. "Copy info" provides support when problems occur on the interface.



The "Copy info" process can take up to several minutes (depending on the installed options). During this time, copying cannot be canceled. Editing is not possible either.

"Extra info" is not enabled for all entries in field "2". Under "Extra info", an option or a component can provide additional information.



## 7 Service and support

Our worldwide service network provides an optimized and efficient support. Our experts offer you advice and assistance should you have any queries. You can contact us **24/7**.

**Service Germany** Our technology-oriented Competence Center in Lohr, Germany, is responsible for all your service-related queries for electric drive and controls.

Contact the **Service Hotline** and **Service Helpdesk** under:

|           |                                                                              |
|-----------|------------------------------------------------------------------------------|
| Phone:    | <b>+49 9352 40 5060</b>                                                      |
| Fax:      | <b>+49 9352 18 4941</b>                                                      |
| E-mail:   | <a href="mailto:service.svc@boschrexroth.de">service.svc@boschrexroth.de</a> |
| Internet: | <a href="http://www.boschrexroth.com">http://www.boschrexroth.com</a>        |

Additional information on service, repair (e.g. delivery addresses) and training can be found on our internet sites.

**Service worldwide** Outside Germany, please contact your local service office first. For hotline numbers, refer to the sales office addresses on the internet.

**Preparing information** To be able to help you more quickly and efficiently, please have the following information ready:

- Detailed description of malfunction and circumstances
- Type plate specifications of the affected products, in particular type codes and serial numbers
- Your contact data (phone and fax number as well as your e-mail address)



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## Notes

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