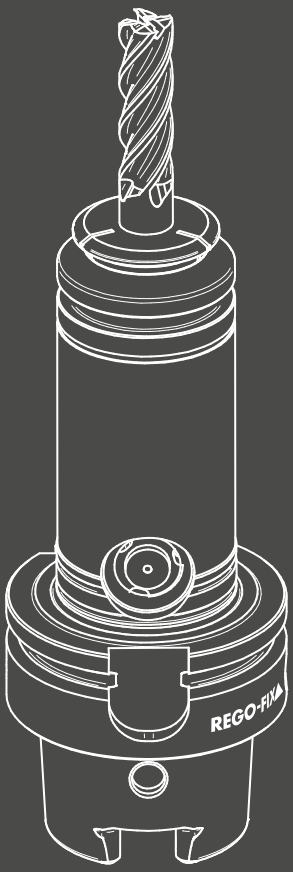


toolVibe® Tablet

REGO-FIX

Assembly and Operating manual

REGO-FIX toolVibe® Tablet

Imprint

Name: REGO-FIX toolVibe® Tablet

Manufacturer: REGO-FIX AG, Obermattweg 60, CH-4456 Tenniken, Switzerland
Phone +41 61 976 14 66, info@rego-fix.com

Technical changes: We reserve the right to make alterations for the purpose of technical improvement.

Part no.: 6000.12420

This instruction manual must be kept for as long as the device is in use.
Please read the operating manual in full and keep it close to the product.

Table of contents

1. General

1.1 About this manual

This manual contains important information for a safe and appropriate use of the product.

This manual is an integral part of the product and must be kept accessible for the personnel at all times.

Before starting work, the personnel must have read and understood this operating manual.
Prerequisite for safe working is the observance of all safety instructions in this manual.

In addition to these instructions, the documents listed under ▶ 1.1.3 [🗋 7] are applicable.

NOTE: The illustrations in this manual are intended to provide a basic understanding and may deviate from the actual version.

1.1.1 Definition of Terms

In this manual, "product" replaces the product designation on the title page and refers to the complete system with all the individual components.

1.1.2 Presentation of Warning Labels

To make risks clear, the following signal words and symbols are used for safety notes.

⚠ DANGER ⚠

Dangers for persons!
Non-observance will inevitably cause irreversible injury or death.

⚠ WARNING ⚠

Dangers for persons!
Non-observance can lead to irreversible injury and even death.

⚠ CAUTION ⚠

Dangers for persons!
Non-observance can cause minor injuries.

⚠ ATTENTION ⚠

Material damage!
Information about avoiding material damage.

1.1.3 Applicable documents

- General terms of business *
- Contractual agreements
- Documents for the individual components (e.g. toolVibe® tablet or toolVibe® power plug)

The documents labeled with an asterisk (*) can be downloaded from **rego-fix.com**.

1.2 Warranty

If the product is used as intended, the warranty is valid for 24 months from the ex-works delivery date under the following conditions:

- Observe the applicable documents, ▶ 1.1.3 [🗋 7]
- Observe the ambient conditions and operating conditions, ▶ 2.6 [🗋 8]
- Observe the specified maintenance instructions.

This does not include special agreements regarding the warranty and wearing parts. In principle, parts that come in contact with the tool or machine are not covered by the warranty.

1.3 Scope of delivery

The scope of delivery includes:

- 1 toolVibe® Tablet
- 1 toolVibe® Charger (Part no. 7589.00000)
- 1 toolVibe® Power Plug
- 1 toolVibe® Tablet Charger
- 1 toolVibe® Case
- 1 Assembly and Operating Manual (Part no. 6000.12420)

2. Basic safety notes

2.1 Product safety

The product represents the state of the art and the recognized safety rules. However, the product can pose hazards if, for example:

- The product is not used as intended.
- The product is not installed, maintained, stored or transported properly.
- The safety and installation instructions in this manual are not followed.

Avoid any manner of working that could interfere with the function and operational safety of the product.

2.2 Intended use

- The product is solely intended for use in machine tools to record process data from the toolVibe® used.
- The product may only be used and operated with the "toolVibe® app" application software pre-installed by the manufacturer.
- The product may only be installed and used within the scope of the information in the technical data.
- The product is intended for industrial use.
- Appropriate use of the product includes compliance with all instructions in this manual.

2.3 Inappropriate use

The product is not being used as intended if, for example:

- Devices are connected that are not explicitly approved by REGO-FIX.
- The information in the technical data is not observed when using and operating the product.
- The product is operated in corrosive media.
- The maintenance and storage specifications are not complied with.

2.4 Constructional changes

Implementation of structural changes
By conversions, changes, and reworking, e.g. additional threads, holes, or safety devices can impair the functioning or safety of the product or damage it.

- Structural changes should only be made with the written approval of REGO-FIX.

2.5 Spare parts

Use of unauthorized spare parts
Using unauthorized spare parts can endanger personnel and damage the product or cause it to malfunction.

- Use only original spare parts or spares authorized by REGO-FIX.

2.6 Environmental and operating conditions

Required ambient conditions and operating conditions
Incorrect ambient and operating conditions can make the product unsafe, leading to the risk of serious injuries, considerable material damage and/or a significant reduction to the product's life span.

2.7 Personnel qualification

Inadequate qualifications of the personnel
If the personnel working with the product is not sufficiently qualified, the result may be serious injuries and significant property damage.

- All work may only be performed by qualified personnel.
- Before working with the product, the personnel must have read and understood the complete assembly and operating manual.
- Observe the national safety regulations and rules and general safety instructions.

The following personal qualifications are necessary for the various activities related to the product:

Qualified personnel
Due to its technical training, knowledge and experience, qualified personnel is able to perform the delegated tasks, recognize and avoid possible dangers and knows the relevant standards and regulations.

Instructed person
Instructed persons were instructed by the operator about the delegated tasks and possible dangers due to improper behaviour.

Service personnel of the manufacturer
Due to its technical training, knowledge and experience, service personnel of the manufacturer is able to perform the delegated tasks and to recognize and avoid possible dangers.

2.8 Obligations of the operator

The operator must ensure that:

- The product is only used as intended.
- The product is only operated in a perfect and fully functional status.
- The correct functioning of the product is checked regularly.
- The operating manual is always kept in a complete and legible condition close to the product.
- The product may only be operated and maintained by sufficiently qualified and authorized personnel.
- The personnel is familiar with the contents of the operating manual, in particular the safety notes contained therein.
- The personnel are regularly instructed in occupational safety and environmental protection.

2.9 Personal protective equipment

Use of personal protective equipment
Personal protective equipment serves to protect staff against danger which may interfere with their health or safety at work.

- When working on and with the product, observe the occupational health and safety regulations and wear the required personal protective equipment.
- Observe the valid safety and accident prevention regulations.
- Wear protective gloves to guard against sharp edges and corners or rough surfaces.
- Wear heat-resistant protective gloves when handling hot surfaces.
- Wear protective gloves and safety goggles when handling hazardous substances.
- Wear close-fitting protective clothing and also wear long hair in a hairnet when dealing with moving components.

2.10 Notes on safe operation

Incorrect handling of the personnel
Incorrect handling and assembly may impair the product's safety and cause serious injuries and considerable material damage.

- Avoid any manner of working that may interfere with the function and operational safety of the product.
- Use the product as intended.
- Observe the safety notes and assembly instructions.
- Do not expose the product to any corrosive media. This does not apply to products that are designed for special environments.
- Eliminate any malfunction immediately.
- Observe the care and maintenance instructions.
- Observe the current safety, accident prevention and environmental protection regulations regarding the product's application field.

2.11 Electromagnetic Compatibility

The system complies with the emission and immunity requirements described in IEC 61326-2-6, IEC 61326-1, IEC 61000-6-2 and IEC 61000-6-4. The system has been designed and tested to CISPR 11 Class A. In a domestic environment the system may cause radio interference, in which case measures may need to be taken by the operator or the operating company to mitigate the interference.

2.12 Transport

Handling during transport
Incorrect handling during transport may impair the product's safety and cause serious injuries and considerable material damage.

- When handling heavy weights, use lifting equipment to lift the product and transport it by appropriate means.
- Secure the product against falling during transportation and handling.
- Stand clear of suspended loads.

To prevent damage to the product during transport, the following must be observed:

- Protect the product from penetrating humidity (e.g. with suitable packaging).
- The ambient conditions specified in the technical data must be observed.
- The product must be protected from vibrations and impacts.
- All cable connections must be disconnected before transport.
- Stow product components and accessories in the recesses provided.
- The latches of the case must be locked.

2.13 Disassembly, removal and storage

To prevent damage to the product during disassembly, removal and storage, the following must be observed:

- The tablet must be charged to at least 80% and then shut down before packing.

2.14 Malfunctions

Behavior in case of malfunctions

- Immediately remove the product from operation and report the malfunction to the responsible departments/persons.
- Order appropriately trained personnel to rectify the malfunction.
- Do not recommission the product until the malfunction has been rectified.

- Test the product after a malfunction to establish whether it still functions properly and no increased risks have arisen.

2.15 Maintenance

For trouble-free, long-lasting use, clean, maintain and check the functionality of the product regularly.

Repair work may only be carried out by REGO-FIX!

If you have any questions regarding maintenance and servicing, our technical customer service is available during our business hours:

Service telephone: +41 61 976 1466
pm@rego-fix.com

The specified maintenance intervals are based on practical experience gathered by REGO-FIX and are recommended.

Depending on the ambient and operating conditions, as well as the clamping frequency of the product, the maintenance intervals must be adapted and noted accordingly. For maintenance intervals with two or more specifications, the valid specification is the one that applies first.

After completing essential maintenance work, any required settings and functional tests must be carried out again.

2.16 Disposal

Handling of disposal
The incorrect handling of disposal may impair the product's safety and cause serious injuries as well as considerable material and environmental harm.

- Follow local regulations on dispatching product components for recycling or proper disposal.

In accordance with the Waste Electrical and Electronic Equipment (WEEE) Directive, the following must be observed during disposal:

- This product may not be disposed of in household waste. It must be taken to a collection point for material recovery and recycling.

2.17 Fundamental dangers

General

- Observe safety distances.
- Never deactivate safety installations.
  Disconnect the power source before installation, conversion, maintenance, or calibration.
  Ensure that no residual energy remains in the system.

2.17.1 Protection during handling and assembly

Incorrect handling and assembly
Incorrect handling and assembly can make the product unsafe and can risk the danger of serious injuries and considerable material damage.

- Order all work to be performed only by appropriately qualified personnel.
- Observe the relevant accident prevention regulations.
- Use suitable assembly and transport equipment.
- Take precautions against pinching and crushing.

2.17.2 Protection during commissioning and operation

Falling and ejected components can lead to serious injury or death.

- Observe the specifications in the toolVibe® operating manual.
- Only use toolVibe® in machines with closed protective equipment.
- Do not exceed the permissible speed range of the toolVibe® (see toolVibe® operating manual).

3. toolVibe® Tablet complete system

3.1 Technical data

3.1.1 Product data

General technical data	Value
Part no.	7580.00000
Length	350 mm
Width	420 mm
Height	190 mm
Weight	5.75 kg
Range of the wireless connection	2 m

3.1.2 Ambient conditions and operating conditions

Ambient conditions and operating conditions	Value
Operating temperature range	+ 20 °C to + 50 °C
Transport temperature range	+ 20 °C to + 50 °C
Storage temperature range	+ 20 °C ± 10 °C

3.1.3 Compatible devices

- toolVibe® toolholder
- toolVibe® magnetic holder

IMPORTANT! The product may only be connected to compatible devices!

3.2 Design and description

3.2.1 Design

1	toolVibe® tablet charger
2	toolVibe® charger
3	toolVibe® power plug
4	toolVibe® case
5	toolVibe® tablet

3.2.2 Functional description

This product is the toolVibe® tablet with the toolVibe® app and accessories. In conjunction with an toolVibe® toolholder, process data from machine tools can be recorded and displayed.

During the machining process, process vibrations are detected by the toolVibe® sensor and sent to the toolVibe® tablet via a wireless connection. With the toolVibe® app on the toolVibe® tablet, the recorded data can be displayed, monitored and exported.

3.3 Transport

⚠ CAUTION ⚠

Risk of injury due to suspended loads!
Falling loads can cause injuries.

- Always use the carrying handle to transport the toolVibe® case.
- Make sure that the toolVibe® case is closed correctly.
- Wear suitable protective equipment, especially safety gloves.

⚠ ATTENTION ⚠

Risk of possible damage to the product.
Incorrect transport can damage the product and limit its functionality.

- Avoid impacts during transport.

1. Store individual product components safely in the toolVibe® case.
2. Close the toolVibe® case.
3. Use the carrying handle to transport the toolVibe® case.

3.4 Storage

When storing the toolVibe® Tablet complete system for a longer period of time, the following points must be observed:

- Store the toolVibe® Tablet complete system in dry rooms only.
- Protect the toolVibe® Tablet complete system from major temperature fluctuations.
- Comply with the storage temperature specified in the technical data.

4. toolVibe® power plug

4.1 Technical data

4.1.1 Product data

General technical data	Value
Weight	0.12 kg
Input	100 V bis 250 V
Output	5 V – 2400 mA 2 x USB-A

4.1.2 Ambient conditions and operating conditions

Ambient conditions and operating conditions	Value
Operating temperature range	+ 20 °C to + 50 °C
Transport temperature range	– 10 °C to + 50 °C
Storage temperature range	+ 20 °C ± 10 °C

4.2 Design, description and operation

All information regarding the design, description, operation as well as warnings for the toolVibe® power plug can be found in the operating manual from the power supply manufacturer.

NOTE: The operating manual is included in the toolVibe® case.

5. toolVibe® charger

5.1 Technical data

5.1.1 Product data

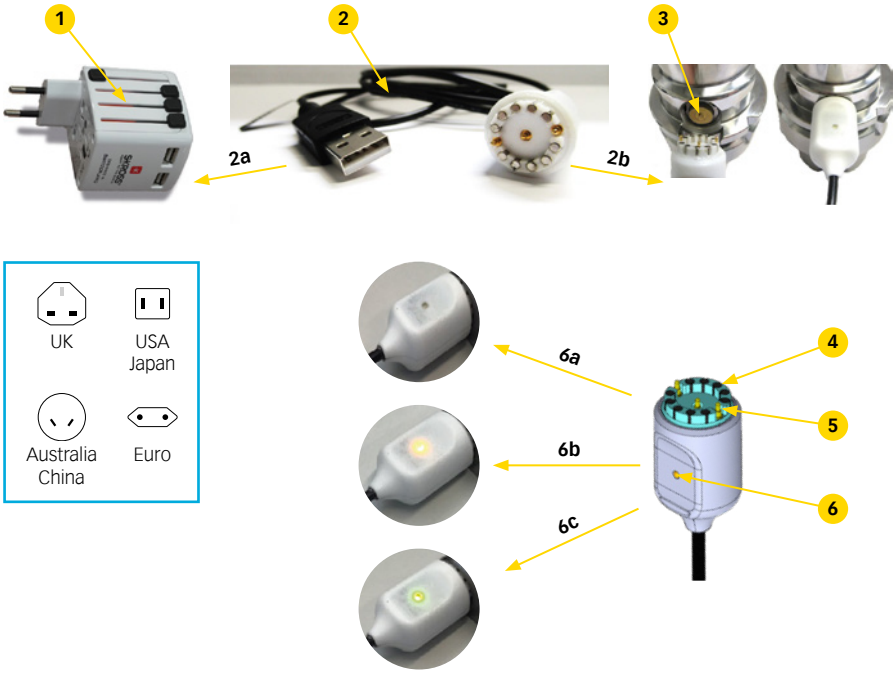
General technical data	Value
Part no.	7589.00000
Weight	0.05 kg
Power consumption	5 V max 0.45 A USB-A
Cable length	1.5 m

5.1.2 Ambient conditions and operating conditions

Ambient conditions and operating conditions	Value
Operating temperature range	+ 18 °C to + 25 °C
Maximum product temperature	+ 35 °C
Expansion rate monitoring test temperature	+ 23 °C ± 2 °C
Storage temperature	+ 20 °C ± 10 °C

5.2 Design and description

5.2.1 Design



1	toolVibe® power plug
2	toolVibe® charger a) USB-A connector b) Electrical connection toolVibe® charger
3	toolVibe® charging contact
4	Magnets
5	Charging pins
6	LED display charging status toolVibe® a) LED does not light up: no charging process b) LED lights up orange: charging process c) LED lights up green: toolVibe® fully charged

5.2.2 Functional description

The toolVibe® charger serves as a connecting element between the toolVibe® power plug and the toolVibe®. This can be used to charge the battery of the toolVibe®. An LED display integrated in the toolVibe® charger provides information about the current charging status of the toolVibe®.

5.3 Using the toolVibe® charger

⚠ WARNING ⚠

Risk of injury from electric shock due to contact with live parts!

Touching live parts can lead to an electric shock and cause serious injuries.

- Do not touch the charging pins.
- Ensure that there are no conductive materials on the charging pins.
- Check the toolVibe® charger regularly for damage.
- Only use the toolVibe® charger in a dry environment.
- Wear suitable protective equipment.

⚠ CAUTION ⚠

Risk of injury due to tripping or falling!

If the toolVibe® charger is placed in walkways, this can lead to injuries due to tripping or falling.

- Do not place the toolVibe® charger within the operator's range of movement.
- Do not place the toolVibe® charger in walkways.

⚠ ATTENTION ⚠

Possible material damage due to humidity.

Penetrating humidity can damage the toolVibe® charger and impair its functionality.

- Protect the toolVibe® charger from humidity.

⚠ ATTENTION ⚠

Material damage due to improper laying of the cable.

Improper laying can damage the cable and limit functionality.

- Do not bend the toolVibe® charger.
- Do not pinch the toolVibe® charger.

1. Clean the contact surfaces of the toolVibe® charger and toolVibe®.
2. Ensure that there are no conductive materials on the charging pins.
   IMPORTANT! There is a risk of a short circuit if there are metal chips or other conductive materials on the charging pins!
3. Connect the toolVibe® charger to the toolVibe® power plug via the USB-A connection.
4. Attach the electrical connection of the toolVibe® charger to the charging contact of the toolVibe® via the magnets.

▶ The toolVibe® charger snaps into place and the LED display charging status lights up orange.

NOTE: If the LED does not light up, there is no sufficient contact between the toolVibe® charging cable and toolVibe®.

LED display charging status toolVibe®

LED does not light up	no charging process
LED lights up orange	charging process
LED lights up green	toolVibe® completely charged

NOTE: The exact charging status of the toolVibe® can be displayed in the toolVibe® app ▶ 6.5.1 [🗋 23].

5.4 Maintenance

5.4.1 Intervals and tasks

Operation	Interval period
Clean and check charging pins	Before each use or as needed

5.4.2 Clean and check charging pins

⚠ WARNING ⚠

Risk of injury from electric shock due to contact with live parts!

Touching live parts can lead to an electric shock and cause serious injuries.

- Disconnect the toolVibe® charger from the voltage supply.
- Do not touch the charging pins.
- Check the toolVibe® charger regularly for damage.
- Wear suitable protective equipment.

⚠ CAUTION ⚠

Injury of the eyes by dirt particles!

When cleaning with compressed air, the eyes may be injured by flying dirt particles.

- Wear suitable protective equipment, particularly protective goggles.

1. Disconnect the toolVibe® charger from the voltage supply.
2. Remove chips and contamination with compressed air.
3. Use a suitable tool to carefully remove any persistent dirt.
4. Clean the charging pins with a cleaning agent that contains alcohol.
5. Dry the charging pins with a clean cloth.
6. Check the charging pins and the toolVibe® charger for damage or wear.

NOTE: Damage or wear can compromise the functioning of the product. If non-replaceable parts of the product are worn or damaged, return the product to REGO-FIX for inspection.

5.5 Disassembly

⚠ WARNING ⚠

Risk of injury from electric shock due to contact with live parts!

Touching live parts can lead to an electric shock and cause serious injuries.

- Disconnect the toolVibe® charger from the voltage supply.
- Do not touch the charging pins.
- Check the toolVibe® charger regularly for damage.
- Wear suitable protective equipment.

1. Disconnect the toolVibe® charger from the voltage supply.
2. Remove the toolVibe® charger from toolVibe® power plug.
3. Remove the toolVibe® charger from toolVibe®.

5.6 Storage

When storing the toolVibe® charger for a longer period of time, the following points must be observed:

- Store the toolVibe® charger in a suitable transport container.
- Store the toolVibe® charger in dry rooms only.
- Protect the toolVibe® charger from major temperature fluctuations.
- Do not bend the toolVibe® charger.
- Comply with the storage temperature specified in the technical data.

6. toolVibe® tablet and toolVibe® app

6.1 Technical data

6.1.1 Product data

General technical data	Value
Part no.	5540.91550
Dimensions	255 x 165 x 28 mm
Weight	0.7 kg
Power consumption	5 V max. 450 mA USB-C
Cable length connection cable	2 m
Wireless transmission range	2.4 GHz

For further information on the toolVibe® tablet, please refer to the manufacturer's operating manual.
NOTE: The operating manual is included in the toolVibe® case.

6.1.2 Ambient conditions and operating conditions

Ambient conditions and operating conditions	Value
Operating temperature range	+ 20 °C to + 50 °C
Transport temperature range	– 10 °C to + 50 °C
Storage temperature range	+ 10 °C to + 30 °C

6.2 Design and description of the toolVibe® tablet

All information regarding the design and warnings for the toolVibe® tablet can be found in the tablet manufacturer's operating manual.
NOTE: The operating manual is included in the toolVibe® case.

6.3 Basic information

⚠ ATTENTION ⚠

Possible transmission errors of the sensor data.

Obstacles or electromagnetic interference from the environment can cause transmission errors during the transmission of sensor data.

▲ Correct interpretation of the sensor data is the responsibility of the user.

⚠ ATTENTION ⚠

Possible material damage due to humidity.

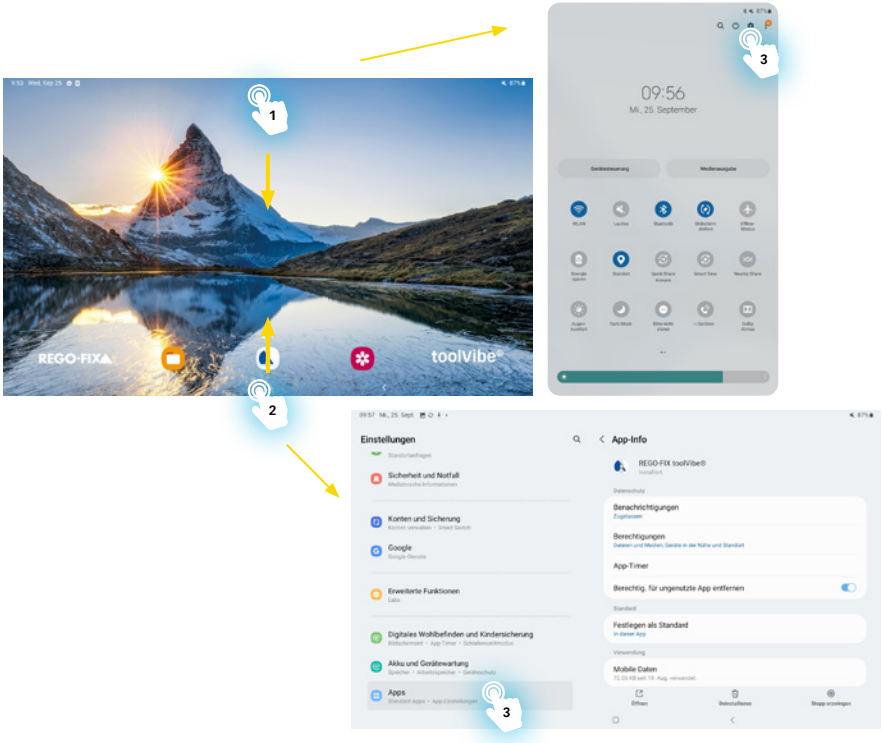
Penetrating humidity can damage the toolVibe® tablet and impair its functionality.

▲ Protect the toolVibe® tablet from humidity.

Information regarding the warnings and risks of using the toolVibe® tablet can be found in the tablet manufacturer's "Quick start" manual. The "Quick start" manual is included in the toolVibe® case.

6.4 Configuring the toolVibe® tablet and toolVibe® app

1. Press the On/Off button on the toolVibe® tablet and swipe up to unlock it.
   NOTE: If the toolVibe® tablet does not start, press the On/Off button for 5 seconds to start it.
   If it is still not starting, connect the toolVibe® tablet to the toolVibe® tablet charger.
2. Open the settings of the toolVibe® tablet. To do this, either swipe down from the top of the screen (1) or swipe up from the bottom of the screen (2). Then tap the gear icon (3).



3. To set it up, make the following settings:

The Bluetooth and Wi-Fi connection can be activated in this area.

- Activation of the Bluetooth connection is mandatory
  NOTE: Without a Bluetooth connection, no connection with the toolVibe® can be established.
- Activation of the Wi-Fi connection is not mandatory. It can be used to transfer data, for example.

⚠ ATTENTION ⚠

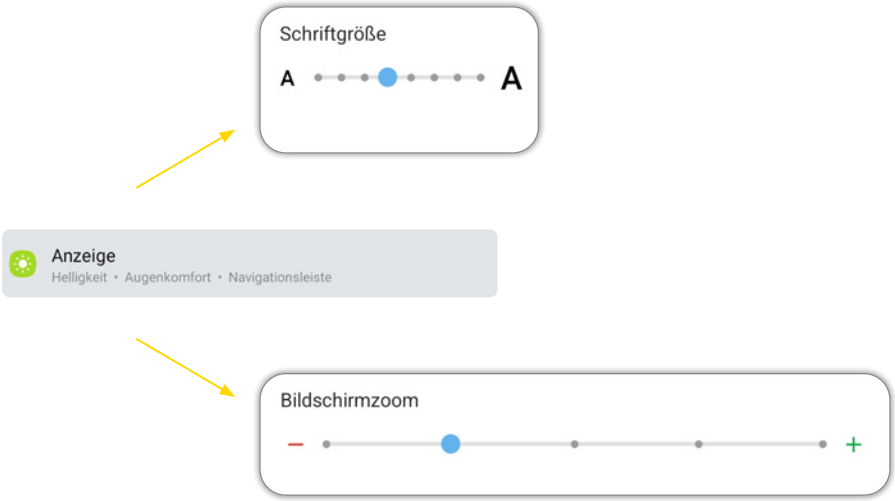
Security risk due to Bluetooth connection.

Activating Bluetooth creates a security risk. It is possible for unauthorized third parties to access the toolVibe® tablet.

- Activate Bluetooth only when actively using the toolVibe® tablet.

The display settings can be managed in this area. We recommend the following settings:

- Font size: Level 4
- Screen zoom: Level 2
- Screen timeout: approx. 30 minutes



The location settings can be managed in this area.

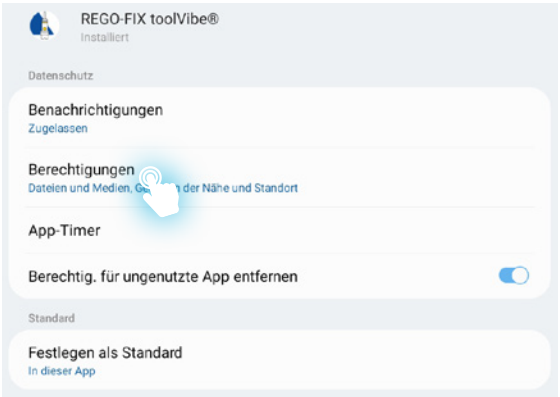
- Activation of the location access is mandatory.

  NOTE: Without location access, the toolVibe® app will not work correctly.

All installed apps are displayed in this area. The permissions of an app can be managed by tapping on an app.

1. Tap the toolVibe® app .
2. Allow location access for the toolVibe® app via permissions.

   NOTE: Without location access, the toolVibe® app will not work correctly.



General settings such as language, date and time or keyboard settings can be managed in this area.

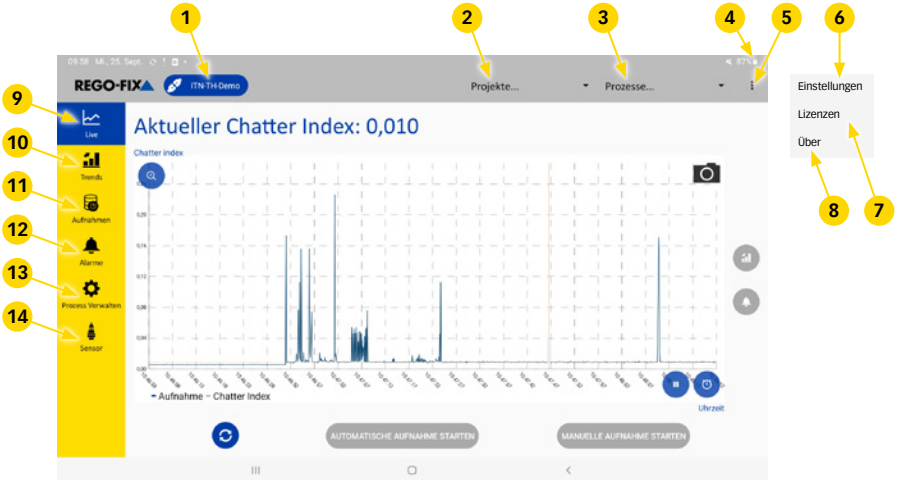
The digital user manual for the toolVibe® tablet can be accessed in this area.
NOTE: An Internet connection is required for this.

6.5 Operating the toolVibe® tablet and toolVibe® app

NOTE

If the tablet no longer responds to inputs, a restart can be forced.
To do this, press the "ON/OFF" button and the «Volume down» button simultaneously for 7 seconds.

6.5.1 Design and description of the toolVibe® app



1	toolVibe® selection	8	About
2	Project selection	9	Live display
3	Process selection	10	Trend display
4	Battery charge level	11	Recordings
5	Configuration area	12	Alarm display
6	Settings	13	Manage process
7	Licenses	14	Sensor

toolVibe® selection
When using multiple toolholders, the toolVibe® can be selected depending on the process.

Project selection
Allows different projects to be created and selected.

Process selection
Allows different processes to be created and selected. Processes can be created individually by the customer and stored with specific toolVibe® settings.

Battery charge level
Display of the battery charge level in percent.

Configuration area
Submenu with settings and general data.

Settings
Allows you to select different languages and change the separators for data export as well as activation of raw data recording.

Licenses
Provides information about different software licenses.

About
Contains general information about contacts and the toolVibe® app.

Live display
Graphical display of the current chatter index and the possibility to record it.

Trend display
Area for monitoring the temporal development of vibration values from the automatic recording. An upper and lower exact limit can be set.

Recordings
Enables the selection and graphical illustration of previous automatic and manual recordings.

Alarm display
Area for monitoring the current vibration index by adjustable alarm limits of the recordings.

Manage process
Enables the specification and modification of process data.

Sensor
Enables the specification and modification of sensor data.

6.5.2 Opening and closing the toolVibe® app

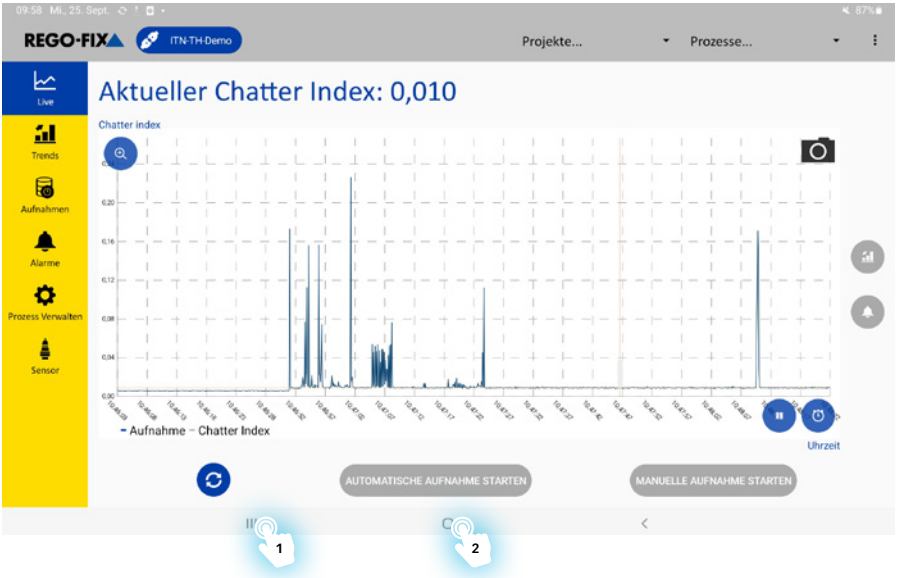
Opening the toolVibe® app

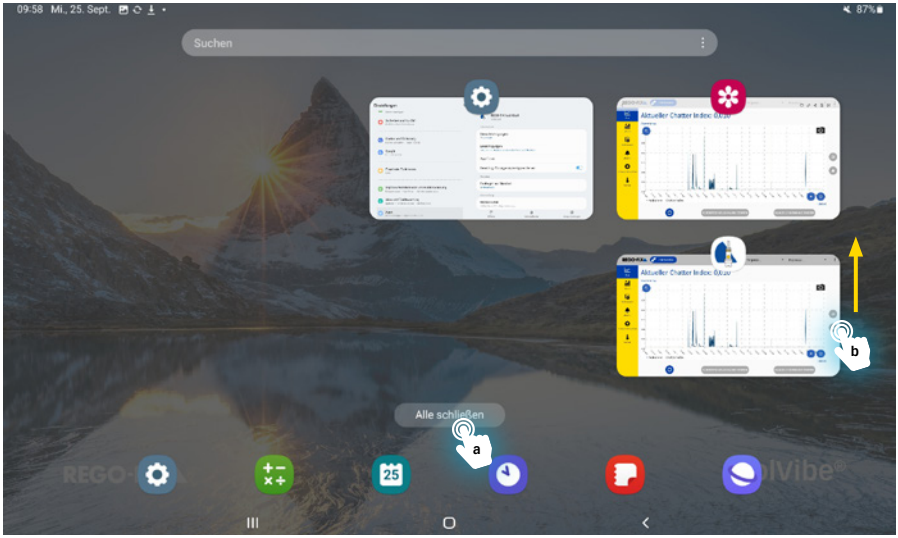
1. Press the On/Off button on the toolVibe® tablet and swipe up to unlock it.
   NOTE: If the toolVibe® tablet does not start, press the On/Off button for 5 seconds to start it. If it is still not starting, connect the toolVibe® tablet to the toolVibe® tablet charger.
2. Tap the toolVibe® app icon  .

▶ The toolVibe® app opens.

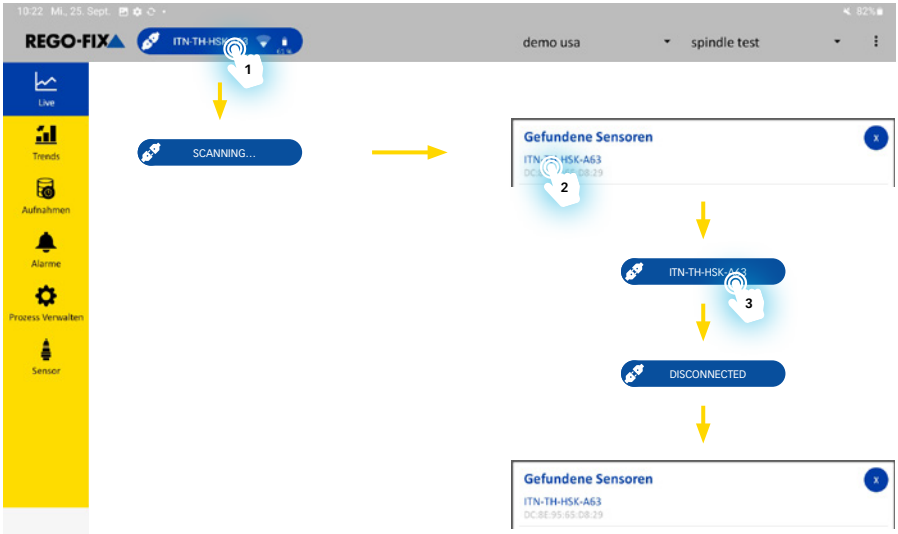
Closing/minimizing the toolVibe® app

1. To close the toolVibe® app, tap on the symbol with the 3 lines (1) and either:
   ▶ Close all apps by tapping "Close all" (a), or
   ▶ close only the toolVibe® app by swiping up on the toolVibe® app (b).
2. 2. To minimize the toolVibe® app, tap the square icon at the bottom (2)
   ▶ The toolVibe® app is still active in the background.





6.5.3 Connecting/disconnecting toolVibe®



Connecting toolVibe®

1. Make sure that the Bluetooth connection is enabled on the toolVibe® tablet ▶ 6.4 [🗋 21].
2. Start the toolVibe® app ▶ 6.5.2 [🗋 24].
3. Start the scan process by tapping the "ITN-TH-DEMO" button (1).
   ▶ A list of sensors where a connection is possible appears.
   NOTE: If the desired sensor does not appear, connect the toolVibe® to the toolVibe® charger and try again later.

4. Tap the desired sensor (2).
   ▶ Connection to the sensor is established, the data appears in the toolVibe® app.

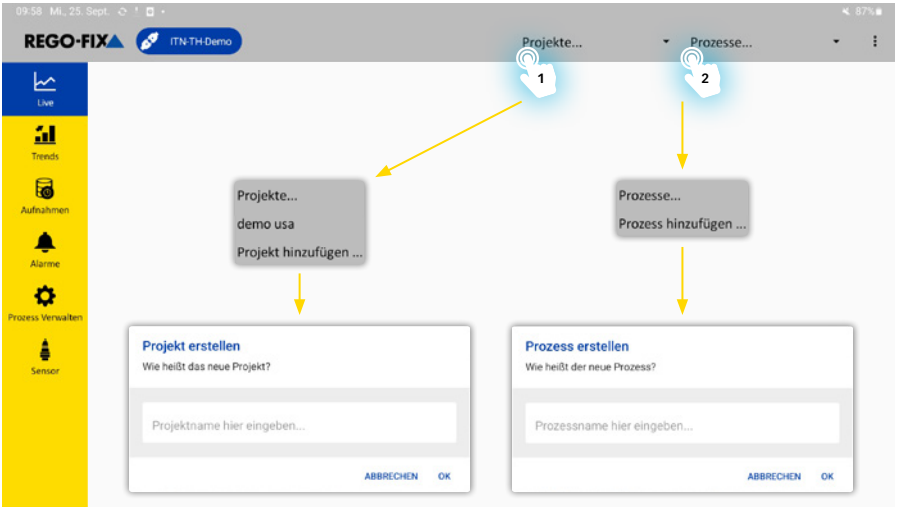
NOTE: In the "Sensor" display mode, the description of the respective toolVibe® can be changed ▶ Sensor display mode [🗋 38].

Disconnecting the toolVibe®

▲ Tap the selection field with the description of the sensor (3).

▶ The connection is terminated and a list of sensors where a connection is possible appears.

6.5.4 Creating projects and processes



Creating a project

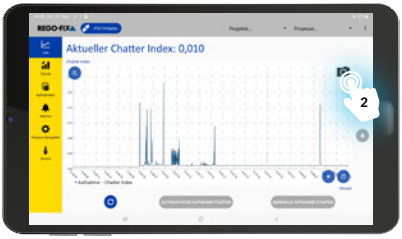
1. Start the toolVibe® app ▶ 6.5.2 [🗋 24].
2. Tap the "Projects…" button (1).
   ▶ The "Projects…" submenu opens.
3. Tap the "Add project…" button.
4. Enter the project name.
5. Tap the "OK" button to save the project.
   ▶ The project is displayed in the "Projects…" submenu.

Creating a process

1. Ensure that the associated project has been created.
2. Tap the "Processes…" button (2).
   ▶ The "Processes…" submenu opens.
3. Tap the "Add process…" button.
4. Enter the process name.
5. Tap the "OK" button to save the process.
   ▶ The process is displayed in the "Processes…" submenu.

NOTE: In the "Manage process" display mode, projects and processes can be renamed, changed, moved or copied ▶ Manage process display mode [🗋 37].

6.5.5 Creating screenshots



There are two ways of creating screenshots in the toolVibe® app:

- Briefly press the On/Off button and the Volume down button simultaneously (1).

  NOTE: This allows screenshots to also be created outside of the toolVibe® app.

  ▶ Screenshot is saved in the gallery.

or

- tap the camera button in the toolVibe® app (2).

  NOTE: This function is only available in the Live, Trend and Recordings display modes.

  ▶ Screenshot is saved in the gallery.

Accessing the screenshots

Screenshots are saved in the gallery.

1. Press the square icon in the center at the bottom of the screen to open the toolVibe® tablet start screen.
2. Tap the gallery button.

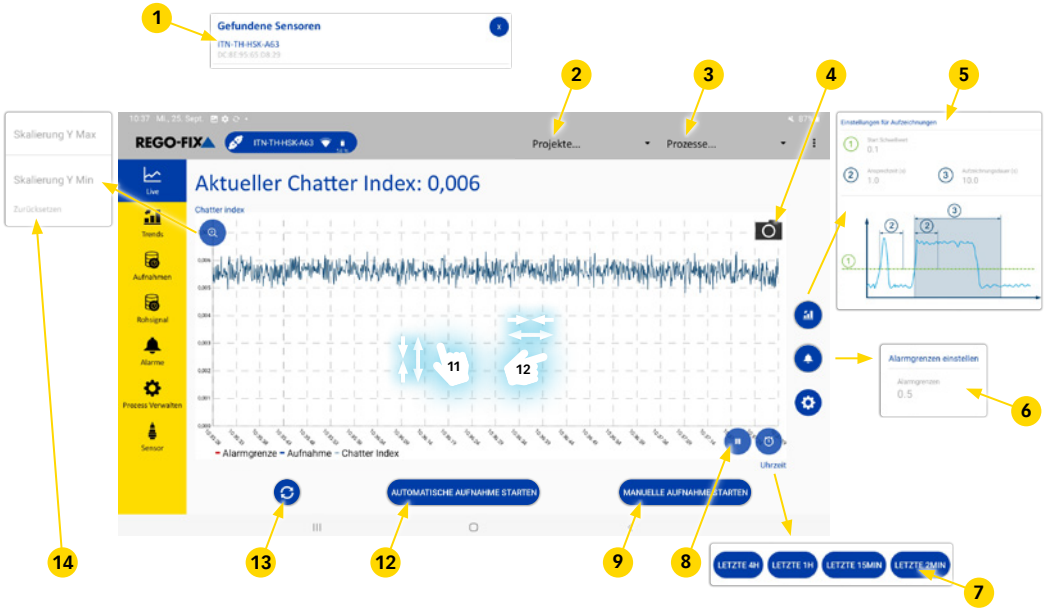
   ▶ The gallery opens, and the screenshots can be accessed.

6.5.6 Display modes of the toolVibe® app

There are different display modes that can be selected by tapping the corresponding button.

Live display mode

In the Live display mode, the toolVibe® can be selected. The detected vibration data from the sensor is displayed in the central diagram. Data from other sensors that have been connected to the toolVibe® app in the last 4 hours can also be displayed in the central diagram.



1	Sensors selection
2	Project selection
3	Process selection
4	Camera button
5	Settings menu automatic recordings
6	Settings menu alarm limit
7	Time range selection button
8	Stop the display
9	Activate/stop manual recording button
10	Manual zoom (X-axis)
11	Manual zoom (Y-axis)
12	Activate/stop automatic recording button
13	Reset view
14	Settings menu scale parameters of the Y-axis

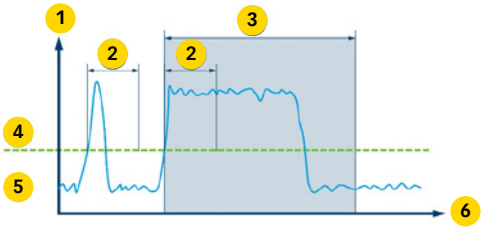
Sensors selection
Allows data to be selected and accessed from sensors connected to the toolVibe® app ▶ 6.5.3 [🗋 26].

Project selection
Allows previously created projects to be selected ▶ 6.5.4 [🗋 27].

Process selection
Allows previously created processes to be selected ▶ 6.5.4 [🗋 27].

Camera button
Allows screenshots of the central diagram to be taken ▶ 6.5.5 [🗋 28].
The screenshots are saved in the gallery.

Settings menu automatic recordings
Allows the setting of process parameters for automatic recordings.



1	Chatter Index
2	Response time [s]
3	Recording duration [s]
4	Start threshold [chatter index]
5	Current chatter index
6	Time

Settings menu alarm limit
Allows the live alarm limit for the automatic and manual recording to be set. The alarm limit is displayed as a red line in the central diagram. When an alarm is triggered, a red dot appears on the alarm button and it is listed in the Alarm display mode ▶ Alarm display mode [🗋 36].

Time range selection button
Allows the time range to be selected for the data to be displayed in the central diagram.

Stop the display
Allows the display of the central diagram to be stopped. This prevents automatic scaling and ensures a detailed view with manual zoom.

Activate/stop manual recording button
Button for starting (blue) or stopping (red) manual recording. Recording starts immediately after starting.
NOTE: The background is not colored blue in the manual recording. Manual recordings are only available in Recording mode and not in the Trend mode.

Manual zoom (X-axis)
Allows arbitrary zooming in or out of the diagram view from the X-axis (time) by expanding or contracting the fingers.

Manual zoom (Y-axis)
Allows arbitrary zooming in or out of the diagram view from the Y-axis (chatter index) by expanding or contracting the fingers.

Activate/stop automatic recording button
Button for activating (blue) or stopping (red) the automatic recording. If the automatic recording is activated, it will be started depending on the parameters set in the automatic recording settings menu.
When a recording is taking place, the background is colored blue.
NOTE: The background is only colored blue in automatic recordings.

Reset view
Allows the settings of the scale parameters to be reset for the axes and the manual zoom in the live diagram.

Settings menu scale parameters of the Y-axis
Allows the settings of the scale parameters to be set and reset for the Y-axis of the central diagram.

Trend display mode

In the Trend display mode, the average values of individual recordings from the automatic recording can be determined. In the central diagram, the average values can be compared and additional exact limits can be defined.

NOTE: Trends can only be displayed if recordings exist for the selected process.

1	Settings menu scale parameters of the Y-axis
2	Camera button
3	Settings menu trend limits
4	Number of bars shown button
5	Activate/stop automatic recording button
6	Manual zoom (X-axis)
7	Manual zoom (Y-axis)
8	Bar-specific information
9	Reset view

Settings menu scale parameters of the Y-axis
Allows the settings of the scale parameters to be set and reset for the Y-axis of the central diagram.

Camera button
Allows screenshots of the central diagram to be taken ▶ 6.5.5 [🗋 28]. The screenshots are saved in the gallery.

Settings menu trend limits
Allows trend limits to be set. Trend upper limit and trend lower limit values are displayed as colored lines in the central diagram. When a trend alarm is triggered, it is listed in the Alarm display mode ▶ Alarm display mode [🗋 36].

Number of bars shown button
Allows the number of bars to be selected for the data to be displayed in the central diagram.

Activate/stop automatic recording button
Button for activating (blue) or stopping (red) the automatic recording. If the automatic recording is activated, it will be started depending on the parameters set in the automatic recording settings menu.

Manual zoom (X-axis)
Allows arbitrary zooming in or out of the diagram view from the X-axis (number of bars) by expanding or contracting the fingers.

Manual zoom (Y-axis)
Allows arbitrary zooming in or out of the diagram view from the Y-axis (chatter index) by expanding or contracting the fingers.

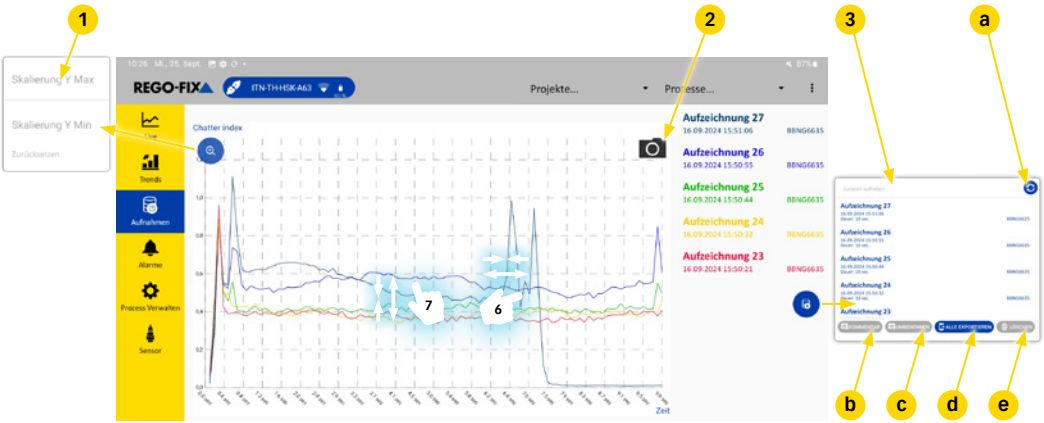
Bar-specific information
Tapping the bars displays information about the individual recordings.

Reset view
Allows the settings of the scale parameters to be reset for the axes and for manual zoom in the trend diagram.

Display mode recordings

In the Recordings display mode, all manual and automatic recordings of processes are listed. If required, the different recordings can be displayed as different colored lines in the central diagram.

NOTE: The legend to the right of the central diagram assigns a recording to each colored line.



1	Settings menu scale parameters of the Y-axis
2	Camera button
3	Overview of recorded processes
4	Manual zoom (Y-axis)
5	Manual zoom (X-axis)

Settings menu scale parameters of the Y-axis
Allows the settings of the scale parameters to be set and reset for the Y-axis of the central diagram.

Camera button
Allows screenshots of the central diagram to be taken ▶ 6.5.5 [🗋 28]. The screenshots are available in the tablet's gallery.

Overview of recorded processes
A list of all recorded processes. The processes can be selected and displayed as colored lines in the central diagram. The following functions can be used:

- Reloading the recording list (a)
- Annotating the selected recording (b)
- Renaming the selected recording (c)
- Exporting the selected recording in CSV file format
  ▶ Exporting recordings / managing exported recordings [🗋 33] (d)

NOTE: The decimal separator in the CSV file can be changed in the settings (point or comma) ▶ 6.5.1 [🗋 23].

- Deleting the selected recordings (e)

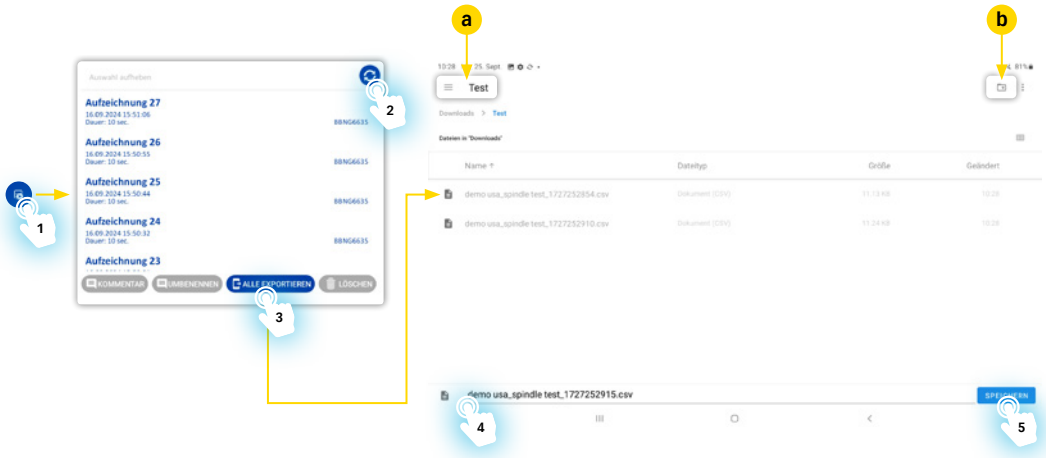
Manual zoom (Y-axis)
Allows arbitrary zooming in or out of the diagram view from the Y-axis (chatter index) by expanding or contracting the fingers.

Manual zoom (X-axis)
Allows arbitrary zooming in or out of the diagram view from the X-axis (time) by expanding or contracting the fingers.

Exporting recordings / managing exported recordings

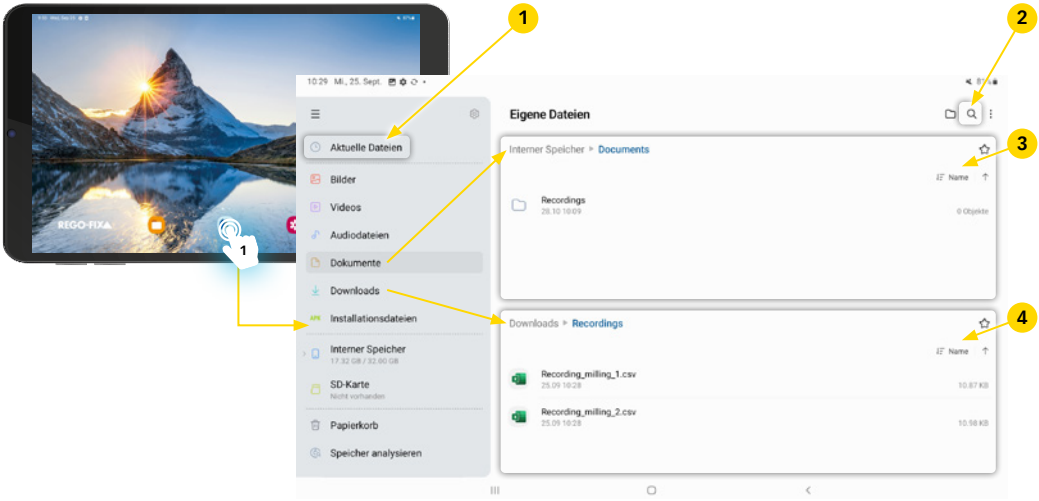
Exporting recordings
In the Recordings display mode, data can be exported in CSV file format. To do this proceed as follows.

NOTE: The decimal separator in the CSV file can be changed in the settings (point or comma) ▶ 6.5.1 [🗋 23].



1. Open the overview of recorded processes by tapping the button.
2. Select the recording whose data is to be exported.
3. Tap the “EXPORT” button to specify the storage location of the data.
   ▶ A destination folder for saving can be set (a) or newly created (b).
4. Adjust the name of the exported data as needed.
   NOTE: The extension .csv is determined by the file format and must not be changed.
5. Tap the “Save” button to export the data.

Finding exported recordings
To access the exported data open the “My Files” button.



1	Current files
2	Search
3	Documents
4	Downloads

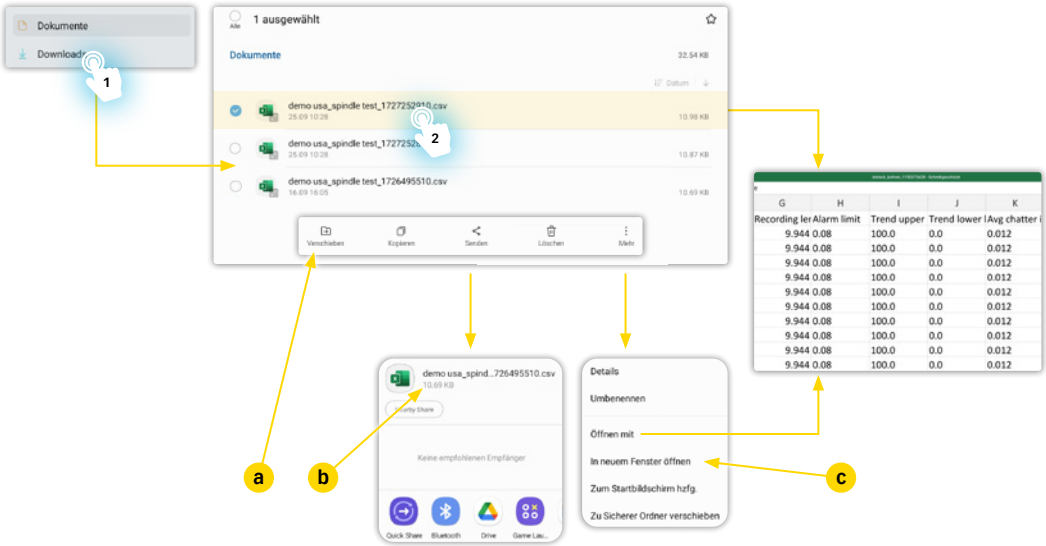
Current files
Under “Current files” you can see the last saved files.

Search
Under “Search” files can be searched for by their file name.

Documents
An overview of all folders appears under “Documents”. Here you can open the desired file.

Downloads
Under “Downloads” you can see all recently downloaded files.

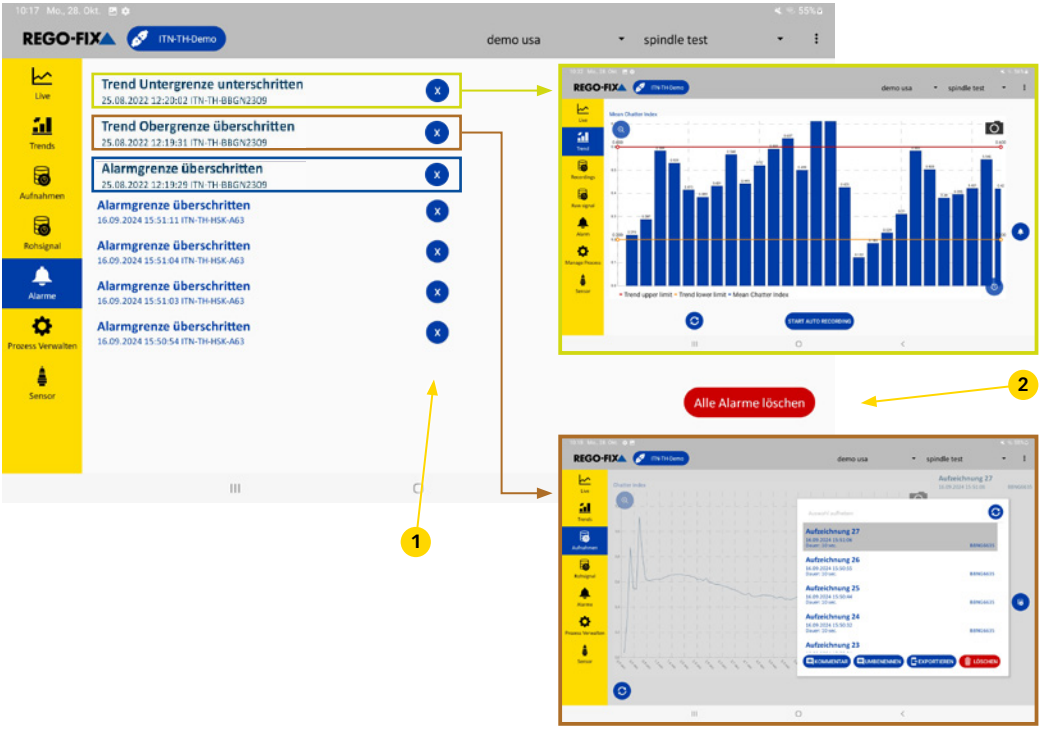
Managing exported recordings



1. Open the appropriate folder with the desired file.
2. Tap and hold the file with your finger for a few seconds.
   ▶ A selection bar (a) opens in which the file can be released (b) or, for example, renamed (c).
3. Tap the file to open it. To open the file with a special program, tap and hold the file with your finger for a few seconds, then tap “More” and “Open with” in the selection bar (a).

Alarm display mode

In the Alarm display mode, all alarms that have occurred recently are displayed.



To delete an individual alarm, the “X” button must be tapped (1). To delete all alarms, the “Delete all alarms” button must be tapped (2).

There are 3 different types of alarms:

- Alarm from the Trend display for the lower exact limit
- Alarm from the Live display when the exact limit is exceeded
- Alarm from the trend display for the upper exact limit

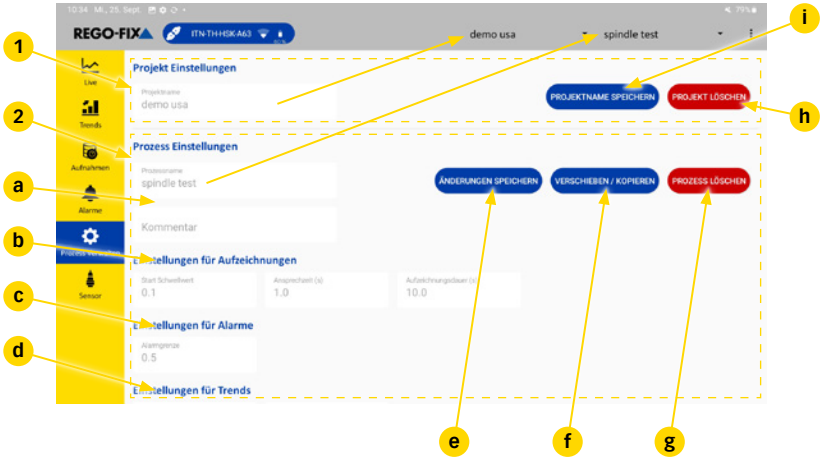
For more detailed information on an alarm, tap the corresponding alarm. Tapping an alarm opens the Trend display or the Recording display and selects the corresponding recording of the alarm.

NOTE: The respective trend exact limits can be set in the Trend display mode ▶ Trend display mode [🗋 31].

Manage process display mode

In the Manage process display mode, the settings of the process and the project can be managed.

NOTE: Processes and projects must be created before they can be managed ▶ 6.5.4 [🗋 27].



1	Project settings area
2	Process settings area

NOTE: If not all areas are visible, you can scroll down or adjust the font size of the tablet.

Project settings area
In this area you can change the project name or delete the project.

- Button to save the new project name (i)
- Button to delete the project (h).

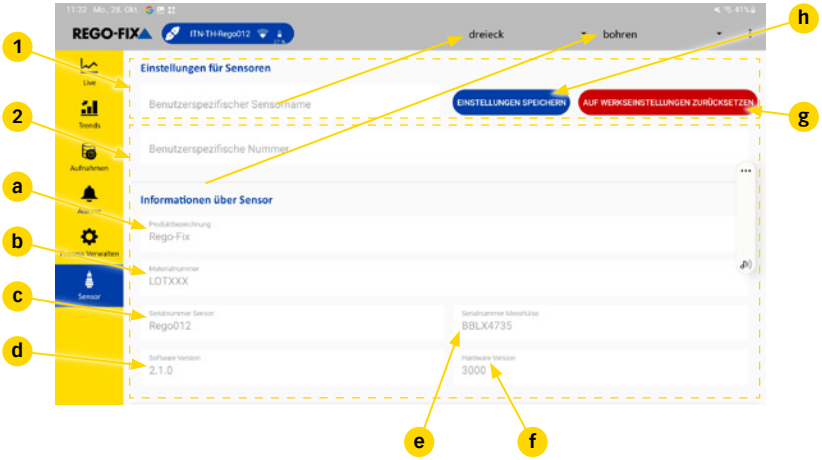
IMPORTANT! If a project is deleted, all processes contained in it are also deleted!

Process settings area
In this area the selected process can be renamed, commented on or deleted.

- Change the process name or write a comment (a).
  NOTE: A process name is always required.
- Area for setting the automatic recordings (b).
- Area for setting the alarm from the Live display mode (c).
- Area for setting the alarm from the Trend display mode (d).
- Button to save the changes (e).
- Button to move (with recordings) or copy (without recordings) the process to another project (f).
- Button to delete the process (g).

Sensor display mode

In the Sensor display mode, the information about the respective sensor can be set and retrieved.



1	Settings for sensor area
2	Information about sensor area

NOTE: If not all areas are visible, you can scroll down or adjust the font size of the tablet.

Settings for sensor area

In this area, the name and number of the sensor can be set and changed. The new settings will only be displayed after disconnecting and reconnecting ▶ 6.5.3 [🗋 26] with the toolVibe®.

- Button to save the changed settings (h).
- Button to reset the settings (g).

NOTE: The name of the sensor is reset to the serial number (c) of the corresponding toolVibe®.

Information about sensor area

Information about the sensor is displayed in this area.

NOTE: The information in this area cannot be changed by the customer.

- Product designation (b).
- Material number (b).
- Serial number of the toolVibe® (c).
- Software version (d).
- Electronic serial number (e).
- Hardware version (f).

6.5.7 Raw data recording

The raw data recording allows the unprocessed acceleration data of the toolVibe® sensor to be recorded.

Raw data recording is an additional function. It is suitable for applications where the acceleration data is viewed more closely and not evaluated via the chatter index.

The recorded raw data can be exported in CSV file format and then evaluated, analyzed and displayed by measurement, analysis and evaluation systems.

Prerequisites

To be able to use the additional Raw data recording function, the following prerequisites must be met:

- toolVibe® Tablet with OS version Android 12 or higher.
- toolVibe® app with app version 2.1 (17) or higher.
- toolVibe® sensor with software version 2.1.0 or higher.
- Raw data recording must be activated.

Checking the requirements on toolVibe® Tablet and app

1. Open the configuration area of the toolVibe® app ▶ 6.5.1 [🗋 23].
2. Select the "About" area.
   ▶ The OS version for the toolVibe® Tablet is displayed.
   ▶ The app version of the toolVibe® app is displayed.

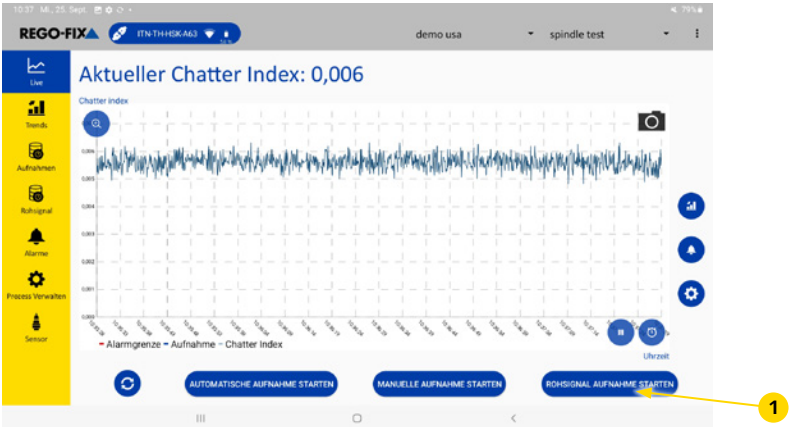
Checking the prerequisites on the toolVibe® sensor

1. Connect the toolVibe® sensor ▶ 6.5.3 [🗋 26].
2. Select the "Sensor" area ▶ Sensor display mode [🗋 38].
   ▶ The software version of the toolVibe® sensor is displayed in the "Information about sensor" area.

Activating raw data recording

1. Open the configuration area of the toolVibe® app ▶ 6.5.1 [🗋 23].
2. Select the "Settings" area.
3. Tap slider "toolVibe® Tablet Raw Data".
   ▶ The slider moves to the right and turns blue.
   ▶ In the Live display mode, the "Start raw signal recording" button appears.
   ▶ The Raw Data display mode appears in the sidebar.

Recording raw data



1 Start raw signal recording button

Starts raw data recording

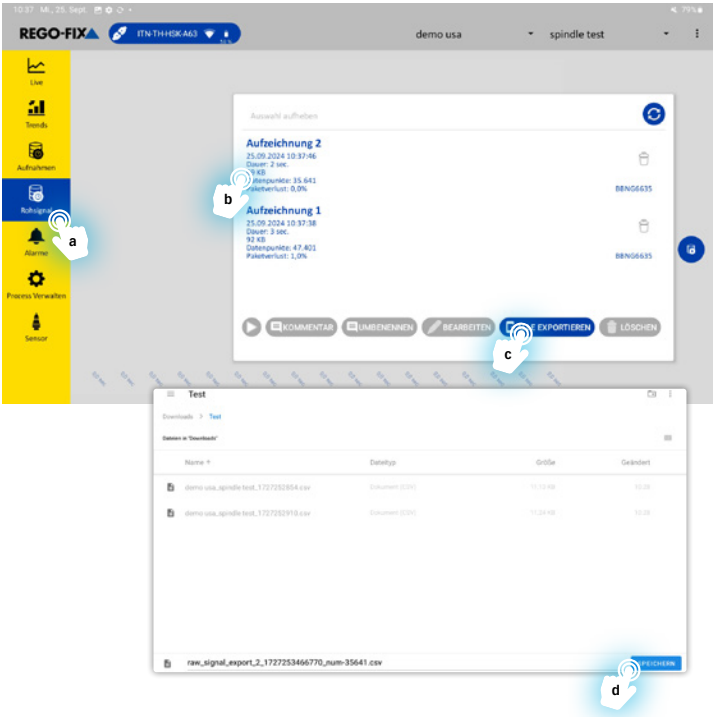
1. Select Live display mode ▶ 6.5.1 [🗋 23].
2. Select the blue button “Stop raw signal recording”.
   ▶ Starts recording of raw data.
   ▶ Start raw signal recording” button turns red.

NOTE: Raw data acquisition can be active parallel to manual or automatic recording. However, recordings can only be started if a project and a process are selected.

Stopping raw data recording

1. Select Live display mode ▶ 6.5.1 [🗋 23].
2. Select the red button “Stop raw signal recording”.
   ▶ Recording of raw data is stopped.
   ▶ Start raw signal recording” button turns blue.

Exporting raw data



1. Make sure that the decimal separator of the CSV file is set correctly ▶ 6.5.1 [🗋 23].
2. Select Raw Data display mode in the sidebar (a).
3. Select the recording for which raw data is to be exported (b).
   NOTE: Only one recording can be exported at a time.
4. Tap the "EXPORT" button to specify the storage location for the data (c).
5. Adjust the name of the data exported as needed.
   NOTE: The extension .csv is required for the file format and must not be changed.
6. Tap the "SAVE" button to export the data.

6.6 Charging the toolVibe® tablet

Charge the toolVibe® tablet only with the included toolVibe® tablet charger and toolVibe® power plug.
IMPORTANT! Do not charge the toolVibe® tablet for more than one week, otherwise there is a risk of overcharging the battery. For further information on charging the toolVibe® tablet, please refer to the tablet manufacturer's operating manual.
NOTE: The operating manual is included in the toolVibe® case.

6.7 Cleaning the toolVibe® tablet

Observe the following when cleaning the touch display:

- Remove the toolVibe® tablet charger from the toolVibe® tablet before cleaning.
- For cleaning, use a soft cloth or sponge slightly moistened with a mild detergent.
- Do not use a cloth or sponge that could scratch the surface.
- Clean the touch display with a soft, clean, cloth or sponge sprayed with window or glass cleaner. Never spray the cleaning agent directly onto the touchscreen. Do not use alcohol (methyl, ethyl or isopropyl alcohol), thinners, benzines or other abrasive cleaners.

Note the following for cleaning the USB-C charging connection:

- Do not use any liquids or chemicals to clean the charging connection.
- Only clean the charging connection very carefully with a suitable tool.

6.8 Storage

When storing the toolVibe® tablet, the following points must be observed:

- Store the toolVibe® tablet in a suitable transport container.
- Store the toolVibe® tablet in dry rooms only.
- Protect the toolVibe® tablet from major temperature fluctuations.
- Comply with the storage temperature specified in the technical data.

7. Troubleshooting

Repair work may only be carried out by REGO-FIX!

If you have any questions regarding maintenance and servicing, our technical customer service is available during our business hours:

Service telephone: +41 61 976 1466
pm@rego-fix.com

Possible malfunction/occurring errors	Possible causes	Remedial measures
toolVibe® does not connect	toolVibe® is not charged	Charge the toolVibe®
	Incorrect toolVibe® (name) selected	Check the selected name
	toolVibe® out of wireless range of the tablet	Reduce distance of the toolVibe®/ tablet
	Obstacles prevent a stable connection	Position the tablet differently and try to avoid having ▲ obstacles, ▲ operating personnel, ▲ many layers of metal, between the toolVibe® and toolVibe® tablet
	Interference signals in the environment	Check the environment for other Bluetooth devices
	Bluetooth is switched off	Switch on Bluetooth
toolVibe® is connected but no vibrations are displayed	Malfunction of the toolVibe® app	Restart the toolVibe® app
toolVibe® is not charging	Charger not properly connected to toolVibe® charging contact	Align charging contact on toolVibe® correctly
	Dirty charging contact on the toolVibe®	Clean charging contact
	Charging pins on toolVibe® charger dirty or damaged	Clean charging pins
	Socket has no voltage	Check socket
	Plug connection, loose USB cable	Check plug connection
	toolVibe® charger damaged	Return the toolVibe® charger to REGO-FIX
	toolVibe® power plug damaged	Return the toolVibe® power plug to REGO-FIX

Possible malfunction/occurring errors	Possible causes	Remedial measures
toolVibe® tablet is not charging	Dirty charging contact on the toolVibe® tablet, toolVibe® power plug or toolVibe® charger	Clean charging contact
	Socket has no voltage	Check socket
	Plug connection, loose USB cable	Check plug connection
	toolVibe® tablet charger damaged	Return the toolVibe® tablet charger to REGO-FIX
	toolVibe® power plug damaged	Return the toolVibe® power plug to REGO-FIX

8. Disposal

- This product may not be disposed of in household waste. It must be taken to a collection point for material recovery and recycling.
- Follow local regulations on dispatching product components for recycling or proper disposal.

Alternatively, you can return the product to REGO-FIX for correct disposal.

9. EU Declaration of Conformity

according to the European Directive 2014/53/EU, Annex VI.

Manufacturer / Distributor	REGO-FIX AG Obermattweg 60, CH-4456 Tenniken, Switzerland

We hereby declare that on the date of the declaration, the product described below complied with all basic safety and health regulations found in Directive 2014/53/EU of the European Parliament and of the Council on machinery. The declaration shall be rendered invalid if modifications are made to the product.

Product designation – Part no.:	SET toolVibe®	7580.00000
	HSK-A 63 / PG 15 × 120 TV	5563.91560
	HSK-A 63 / PG 25 × 120 TV	5563.92560
	HSK-A 63 / PG 32 × 120 NL TV	5563.93260
	HSK-A 100 / PG 32 × 125 TV	5500.93260
	HSK-E 40 / PG 15 × 100 TV	5540.91550
	SK+ 40 / PG 25 × 105 TV	5540.92556
	SK+ 50 / PG 25 × 105 TV	5550.92556
	BT+ 30 / PG 15 × 100 TV	5130.91556
	BT+ 40 / PG 25 × 125 TV	5140.92556
	CAT+ 40 / PG 15 × 4» TV	5340.91556
	CAT+ 40 / PG 25 × 4.3» NL TV	5340.92556
	C6 / PG 25 × 120 TV	5806.92560
	VS 22 × 40 TV	7581.22400

Harmonized standards and technical specifications applied:

EN 61326-2-3	Electrical measurement, control, regulation, and laboratory devices – EMC requirements, Part 2-3: Special requirements – Test setup, operating conditions, and performance characteristics for measuring transducers with integrated or remote signal processing (IEC 61326-2-3:2020); German version EN IEC 61326-2-3:2021
EN 61326-1	Electrical measurement, control, regulation, and laboratory devices – EMC requirements, Part 1: General requirements (IEC 61326-1:2020); German version EN IEC 61326-1:2021
EN IEC 61000-6-2:2019	Electromagnetic Compatibility (EMC), Part 6-2: Generic standards – Immunity for industrial environments
EN IEC 61000-6-4:2019	Electromagnetic Compatibility (EMC), Part 6-4: Generic standards – Emission for industrial environments
EN 301 489-1 V2.2.3 2019-11	Electromagnetic Compatibility (EMC) – Standard for radio equipment and services, Part 1: Common technical requirements – Harmonized standard for electromagnetic compatibility
EN 300 328 V2.2.2 2019-07	Broadband transmission systems – Data transmission devices operating in the 2.4 GHz band – Harmonized standard for radio frequency usage

Additionally, the product is declared to conform with the following standards and EU directives:

DIN EN ISO 12100	Safety of the machines
2014/30/EU	EMV Directive
2014/53/EU	Radio Equipment Directive
2011/65/EU	RoHS Directive

Tenniken, 12.03.2025 Richard Weber, CEO Pascal Forrer, Designated CEO

IEC IECEE	Ref. Certif. No. **CH1-00035**

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Sensory toolholder with Bluetooth
Name and address of the applicant	REGO-FIX AG, Obermattweg 60, 4456 Tenniken, SWITZERLAND
Name and address of the manufacturer	REGO-FIX AG, Obermattweg 60, 4456 Tenniken, SWITZERLAND
Name and address of the factory *Note: When more than one factory, please report on page 2*	REGO-FIX AG, Obermattweg 60, 4456 Tenniken, SWITZERLAND ☐ Additional Information on page 2
Ratings and principal characteristics	EUT: battery operated, charging voltage: 5 VDC Power Supply: 110 – 240 VAC, 50/60 Hz, max 20 W
Trademark / Brand (if any)	REGO-FIX toolVibe®
Customer's Testing Facility (CTF) Stage used	./.
Model / Type Ref.	toolVibe® Additional information on page 2
Additional information (if necessary may also be reported on page 2)	National Differences: EU group differences, US, CA, KR ☒ Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 61326-2-3:2020
As shown in the Test Report Ref. No. which forms part of this Certificate	EMCKP6501A

This CB Test Certificate is issued by the National Certification Body

emc testcenter.zürich.ag

EMC-Testcenter AG
Moosäckerstrasse 77
8105 Regensdorf
SWITZERLAND

Date: 2025-07-07

Signature: Ulrike HIEGEMANN

EMC-Testcenter AG Certification Body

	Ref. Certif. No.
IEC IECEE	**CH1-00035**

Additional information for Model / Type Ref.:
The toolVibe® sensor was tested with the mechanical shaft type HSK-A 63 / PG 25 x 120 TV. The following modules only differ in the mechanical shaft types, the sensor is always toolVibe®:

BT+ 30 / PG 15 x 100 TV
BT+ 40 / PG 25 x 120 TV
SK+ 40 / PG 25 x 120 TV
SK+ 50 / PG 25 x 105 NL TV
CAT+ 40 / PG 15 x 4" TV
CAT+ 40 / PG 25 x 4.3" TV
HSK-E 40 / PG 15 x 100 TV
HSK-A 63 / PG 15 x 120 TV
HSK-A 63 / PG 25 x 120 TV
HSK-A 63 / PG 32 x 120 NL TV
HSK-A 100 / PG 32 x 125 TV
C6 / PG 25 x 120 TV
VS 22 X 40 TV

Additional Standards:

IEC 61326-1:2012 (ed.2)
IEC 61326-1:2020 (ed.3)
IEC 61000-6-2:2016
IEC 61000-6-4:2018
CISPR 11:2015 class A
CISPR 11:2015/AMD1:2016 class A
CISPR 11:2015/AMD2:2019 class A
IEC 61000-3-2:2014 (ed.4)
IEC 61000-3-2:2018 (ed.5)
IEC 61000-3-2:2018/AMD1:2020
IEC 61000-3-3:2013 (ed.3)
IEC 61000-3-3:2013/AMD1:2017
IEC 61000-3-3:2013/AMD2:2021

Additional information (if necessary)

emc testcenter.zürich.ag

EMC-Testcenter AG
Moosäckerstrasse 77
8105 Regensdorf
SWITZERLAND

Date: 2025-07-07

Signature: Ulrike HIEGEMANN

EMC-Testcenter AG Certification Body