User Manual

Plugin BodyLux® 3.0

Measurement of the human body

Software for measuring circumference and length dimensions on 3D models created with scanners from ViALUX Messtechnik + Bildverarbeitung GmbH

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1 General Information

The BodyLux® measurement software uses a suitable 3D model to calculate the circumference and length measurements of a patient or specific regions of the patient. It can be used to select a suitable therapeutic appliance from standard sizes in various manufacturers' portfolios, or to trigger a custom order if an individual fitting is required.

2 Intended Use

The BodyLux® software processes the digital 3D model of a patient, recorded according to the Turn3D principle, in order to determine body measurements that facilitate and simplify the provision of medical aids in product group 17: “Compression therapy aids”. The supply of aids in product group 17 is limited to phlebological patients in the leg area.

The BodyLux® software automatically determines all the dimensions required for restoration, analyzing the digital 3D body model according to anatomical criteria. The measurements are defined in accordance with RAL-GZ 387/1. It is the operator's responsibility to confirm the measurement result or correct it if necessary. All final measurements are saved alongside the digital 3D model and can be exported for further processing at the operator's request. Data recorded at different points in time can be compared.

During the professional fitting process, the user decides which standard stocking to order or if a custom-made stocking is required. To assist with this decision, the therapist or specialist at the medical supply store is provided with a visual aid to help select the appropriate stocking or a measurement sheet for a customized order.

2.1 Indication

The BodyLux® software is intended, among other things, for the supply of aids in product group 17 and is limited to phlebological patients in the leg area.

This restriction relates exclusively to measurements taken for the purpose of providing medical aids. It does not apply to taking circumference and length measurements of other patients and customers for purposes such as checking progress, requesting cost estimates or taking circumference measurements. This includes the provision of knee bandages and orthoses.

The BodyLux® software automatically determines the necessary leg fitting measurements according to anatomical criteria, but allows the operator to adjust the determined heights if necessary. The circumference calculation at the new height is carried out automatically again. The measurement calculation is standardized in accordance with RAL-GZ 387/1.

2.2 Contraindications

At the time of publication of these instructions for use, there are no known contraindications.

2.3 Patient Target Group

The BodyLux® software is primarily intended for use with patients who have phlebological or angiological problems and require aids from product group 17 as part of their therapy.

The visual size comparisons shown after the measurements have been taken are for phlebological patients who have been prescribed circular knitted stockings **only**. During professional fitting, it is the user's responsibility to decide whether to order a standard stocking or a custom-made one. The software does not make any recommendations regarding the manufacturer or product. This selection must be made by the expert user.

2.4 User Group

BodyLux® software is intended for use by medical professionals, including medical supply store personnel, physiotherapists and physicians. Users must be familiar with phlebological and angiological patient care. In the case of medical supply store personnel, they must have attended at least one documented training course on measuring this patient group, either from manufacturers of medical aids or from the Federal Technical College for Orthopedic Technology.

2.5 Clinical Benefit

BodyLux® software provides reproducible and objective measurements, meaning the supply is consistent and less dependent on the user. The automated, standardized process, electronic processing of measurement tables and comparison with existing size databases lead to significantly more effective and reliable patient supply.

2.6 Remaining Risks

Despite careful efforts to make the software error-free, it is impossible to capture the entire human anatomy in advance. The unique characteristics of the bodies to be measured pose a slight risk of incorrect measurements being generated and of an unsuitable compression garment being selected on this basis. However, these aids will not be used as the Federal Joint Committee's guidelines on the prescription of aids in statutory healthcare regulate the dispensing of aids in §8:

If it is determined during the delivery or fitting process that the aid is unlikely to be suitable, the fitting process must stop.

This regulation ensures that incorrect supplies are identified and retained before the aid is dispensed.

2.7 Installation, Maintenance and Calibration

The BodyLux® medical software is designed as a stand-alone plug-in module for the non-medical software “Studio 3D”. It is approved for the operating system “Microsoft Windows 10” from version 10.0.18362 Build 18362.

ViALUX provides the complete software (Studio 3D and the BodyLux® plugin) as an installation package for download from the Internet. While special support from the ViALUX technical service is not required for installation, it can be utilized as part of the system training. The user's IT administration is responsible for making customer-specific settings in the BodyLux® software, e.g. with regard to data storage or server connection.

ViALUX provides updates to the BodyLux® software in a designated download area, which are then automatically transferred to the BodyLux® PC when it is connected to the internet. Once the update has finished loading, the user receives a message and can decide whether to update their system. No maintenance or calibration is necessary.

2.8 Hardware Requirements

Requirements for the PC in use:

- CPU Intel i5/i7
- 8 GB RAM120 GB hard disk with 80 GB free memory
- 1x USB3.0 interface
- 1x USB2.0 interface

2.9 Software Requirements

The following software requirements must be met:

- The Windows 11 operating system is installed on the computer.

2.10 Marking

Product Name:	Software BodyLux® - Software for the measurement of 3D models
Manufacturer:	ViALUX Messtechnik + Bildverarbeitung GmbH Am Erlenwald 10 09128 Chemnitz
Classification:	Im
Safety Class:	A
Article Number:	S-0051
Plugin-Versions-No.:	1.0

CE 0494

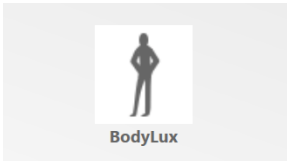
3 Starting the Application

3.1 Starting BodyLux®

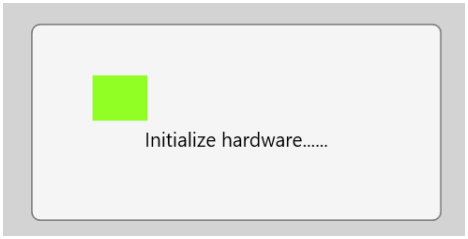
1. Before starting the BodyLux®, the turntable is connected to either the device cart via a cable or the computer via Bluetooth.

2. Studio3D.exe is then started (e.g. by double-clicking on the icon on the screen).

3. The BodyLux® plugin starts by clicking on the corresponding icon.



4. The plugin automatically searches for connected scanners.



5. The message about the number of scanners found follows.

6. When using the Bluetooth connection, the initialization process ends with a message confirming that both the scanner and the turntable have been found.

4 Operating the Application

4.1 Main Window

Figure 1 shows the main window. It is divided into a toolbar and a display area.

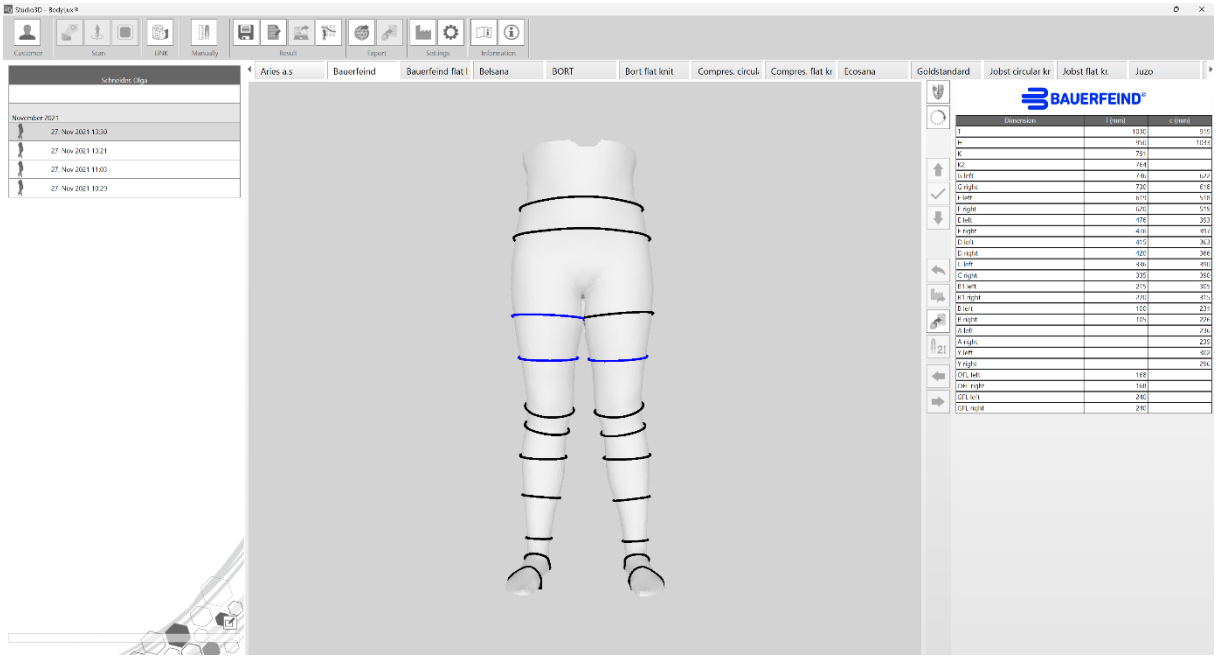


Figure 1 - Main window Studio3D - BodyLux®

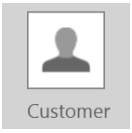
4.2 Toolbar

The toolbar is located at the top of the main window. It is divided into seven groups:

- Customer
- Scan
- LiNK
- Manually
- Result

- Export
- Settings
- Information

4.2.1 Customer

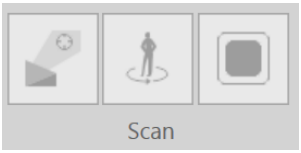


The “Customer” section contains the “Customer data management” button.

4.2.1.1 Customer Data Management

Clicking on “Customer data management” opens the corresponding dialog (see chapter 4.4.1).

4.2.2 Scanning



The section “Scanning” contains the following buttons:

- Prepare measurement
- Start measurement
- Cancel measurement

A scanner must be connected and a customer selected for the buttons in this section to become active.

4.2.2.1 Prepare Measurement

Clicking on “Prepare measurement” opens the window for setting up the scanner and unlocking the turntable (see chapter 4.4.3).

4.2.2.2 Aligning the Device Cart

Click “Align device cart” to activate the projection of the connected scanner. The scanner can be positioned using the camera image displayed. (see chapter 5.9).

4.2.2.3 Start Measurement

Click on “Start measurement” to begin the measurement and calculation process. First, the window for preselecting the stocking type will be displayed (see chapter 4.4.4). After

clicking on the “Start” button in this dialogue box, the measurement and calculation process will begin.

4.2.2.4 Cancel Measurement

Clicking on “Cancel measurement” stops the projection, as well as ending the measurement and calculation process and the movement of the turntable.

An emergency stop button is located on the right-hand side of the scanner. Pressing this button stops the plate's rotation immediately.

There is no emergency stop button on the scanner when using the Bluetooth turntable. Instead, the emergency stop button is located directly on the turntable itself.

4.2.3 LiNK

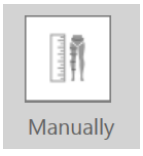
The “LiNK” section contains the BodyLux® LiNK Import button.

The button becomes active if a customer has been selected, manual measurements have not been processed and the “manual measurement” function is enabled.

This symbol is displayed if the “manual measurement” function is enabled.

This symbol is displayed if the “manual measurement” function is not enabled.

4.2.4 Manually



Clicking on “Manually” opens a dialog where the user can enter values measured manually. Once the dialog is completed successfully, the user can save these measurement values and use them to order the necessary product. The button becomes active when a customer has been selected.

4.2.5 Result

The section “Result“ contains the following buttons:

- Save measurement result
- Order form
- Electronic purchase order
- Time history

The buttons in this section will become active once a measurement has been successfully completed or loaded from the database.

4.2.5.1 Save Measurement

Click “Save measurement result” to save the current status of the measurement to the database. The following information is saved:

- 3D model with texture, slice model
- For each selected manufacturer: calculated dimensions including individual adjustments (measurement shift)

Note: The data is saved automatically when the user clicks on the “Order form” button.

4.2.5.2 Order Form

Click on “Order form” to display the order form for the currently selected provider. The BodyLux® software has already entered the measurement values and other information, such as the customer's name and the date.

If products with standard dimensions exist for the selected manufacturer, a dialogue box will appear before the order form. This enables a visual check to be made to see if the customer can be supplied with a standard product or if a custom order is required.

Note: While the order form is open, data is not synchronized between the application plugin and the order form, or vice versa. This means that if dimensions are changed in the main window while the order form is open, these changes will not be transferred automatically to the open order form. Changes made manually to the order form are only transferred to the PDF document in the next step but are not transferred back to the application.

4.2.5.3 Electronic Purchase Order

This button is available if a data export has been configured for the current results view.

Data transfer to the online shops of medi, Juzo, Compressana, and Belsana is supported, as is data transfer to Schiebler and Ofa. The industry software providers SaniVision, TopM, acriba, OTWin, opta data, and mmOrthosoft® are available. General data export in XML format is also possible.

The following table shows which data exports are available for which result views.

Manufacturer	**Permitted exports**
Aries	SaniVision XML-Data export
Bauerfeind circular knitting	SaniVision XML-Data export
Bauerfeind flat knitting	SaniVision XML-Data export
Belsana	**Belsana Online Shop** SaniVision XML-Data export
Bort circular knitting	SaniVision XML-Data export
Bort flat knit	SaniVision XML-Data export
Compressana circular knitting	**Compressana Webshop** SaniVision
Compressana flat knit	**Compressana Webshop** SaniVision
Ecosana	SaniVision XML-Data export
FMT GoldStandard	SaniVision XML-Data export
Jobst circular knitting	SaniVision XML-Data export

Jobst flat knit	SaniVision XML-Data export

Juzo	**Juzo Data export** SaniVision
Juzo BT	**Juzo Data export** (Available in Poland only)
Juzo Expert	**Juzo Data export** SaniVision
Juzo Scar	**Juzo Data export** SaniVision
Juzo ScarPrime Direct	**Juzo Data export** SaniVision
Juzo ScarPrime Light	**Juzo Data export** SaniVision
Juzo Varodem	**Juzo Data export** SaniVision
Knee bandage	XML-Data export
Knee orthesis	XML-Data export
Lohmann & Rauscher (L&R)	XML-Data export
medi	**Export medi Webshop** SaniVision
medi flat knit	SaniVision XML-Data export
Ofa	**Export ofa Webshop** SaniVision XML-Data export
Ofa flat knit	**Export ofa Webshop** SaniVision

	XML-Data export

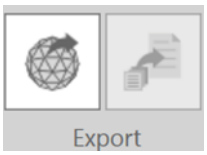
RAL	SaniVision XML-Data export OTG PROVEN-Data export
Schiebler	SaniVision **Schiebler Data export** XML-Data export
Schiebler flat knit	SaniVision **Schiebler Data export** XML-Data export
Sigvaris	SaniVision XML-Data export
Spring medical	XML-Data export
Thuasne circular knitting	SaniVision **Thuasne Data export** XML-Data export
Thuasne flat knit	SaniVision **Thuasne Data export** XML-Data export
Lymed	

The windows for configuring exports are described in chapter 5.25.

4.2.5.4 Time History

This button opens a window in which the current measurement can be compared with up to six previous measurements of the same product type. This window becomes available as soon as measurements have been calculated for a manufacturer.

4.2.6 Export



The “Export” section contains the “Polygon export” and “Create report” buttons.

4.2.6.1 Polygon Export

Click on “Polygon export” to open the post-processing window (see chapter 4.4.8). This allows for editing of the measured polygon model as well as exporting of the data in *.obj and *.stl formats.

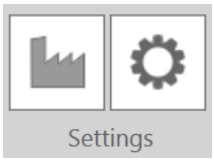
Note: This functionality is only available to users with a valid license for the “Turn3D” plug-in.

4.2.6.2 Create Report

Click on “Create report” to generate a PDF report from image files stored in a local directory.

This functionality is only available if the operator has selected screen contents for the currently selected customer.

4.2.7 Settings



The “Settings” section contains the “Select manufacturer” and “System settings” buttons.

4.2.7.1 Select Manufacturer

The “Select manufacturer” button opens a window in which the suppliers of compression stockings can be selected. (see chapter 5.9).

4.2.7.2 System Settings

The selection of the "System settings" option initiates the opening of a dedicated window, within which system settings can be configured. (see chapter 4.4.10).

4.2.8 Information

The “Information” section contains the “BodyLux® Instructions for use” and “Labeling” buttons.

The buttons are always active.

4.2.8.1 Instructions for Use of Plugin BodyLux®

Clicking on the “Instructions for use of Plugin BodyLux®” button opens a window displaying the current instructions for use of the plugin.

4.2.8.2 Labeling

Clicking the “Labeling” button opens a window displaying the software's labeling (see chapter 2.10).

4.3 Display Area

The display area is divided into two sections: one on the left showing the existing measurements for the selected customer, and one in the middle and on the right in which the results are displayed specifically for each provider.

4.3.1 Measurement

In the “Measurement” display area, all the saved measurements for the selected customer are listed alongside a symbolic representation of the measured range, as well as the date and time. These are subdivided by month and year. If a saved measurement is currently displayed, it is highlighted in color. The name of the selected customer is displayed on the top line.

Figure 2 - Display area “Measurement”

There is an input field at the bottom of the “Measurement” display area in which comments on saved measurements can be entered.

Figure 3 - Comment field “Measurement“

4.3.2 Supplier-Specific Display

The supplier-specific display comprises an area for displaying the measured 3D model and a results table.

4.3.2.1 3D Display

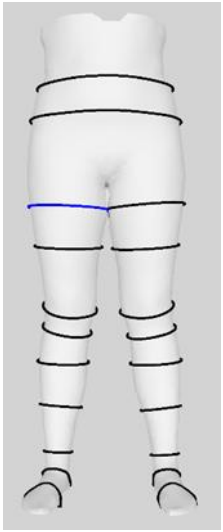


Figure 4 - 3D display

In this area, the scan data is displayed as a 3D model. If dimensions have been calculated for the currently selected manufacturer, the position of these dimensions is visualized by rings.

The rings are displayed in the following colors:

Color	Meaning
Black	Measure of calculated position
Red	Currently selected measure
Blue	Manually shifted measure

The K dimension is a special feature. Since it is not possible to calculate the circumference at this point, a blue plane is displayed instead of a ring.

The 3D model can be displayed with or without texture. It can be rotated around the body axis in 90-degree increments. It is also possible to rotate the 3D model continuously around the body axis by holding down the right mouse button.

4.3.2.2 Result Page

The results page is divided into an area with control elements and an area with the results table.

4.3.3 Control Elements

The following control elements are available:

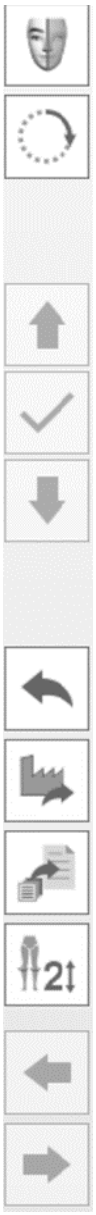


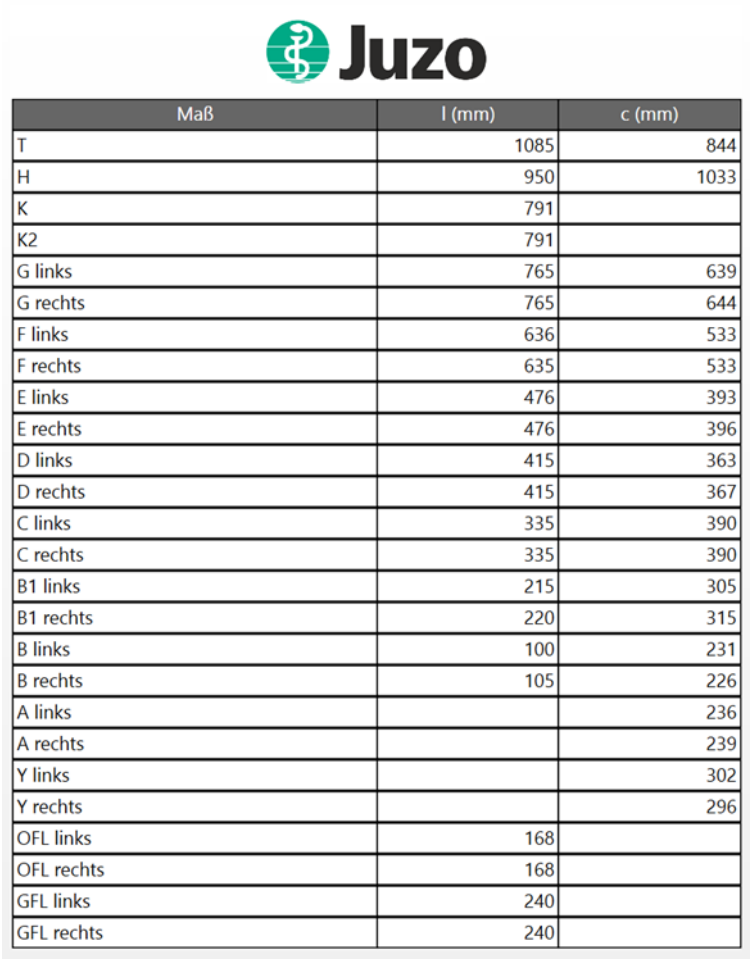
Figure 5 - Control elements on the results page

Control Element	Meaning
	Toggle the texture of the 3D model between on and off. If the image of the button is highlighted in yellow, the texture display is switched on.
	Rotate 3D model by 90 degrees

	Move selected measurement upwards
	Apply values for selected measurement
	Move selected measurement down
	Transfer of changed measurements to other result views
	Save 3D model for report
	Toggle synchronous move of measurement rings on and off If the button image is highlighted in yellow, synchronous shifting is switched on.
	Move selected A-measure backwards
	Move selected A-measure forwards

4.3.4 Results Table

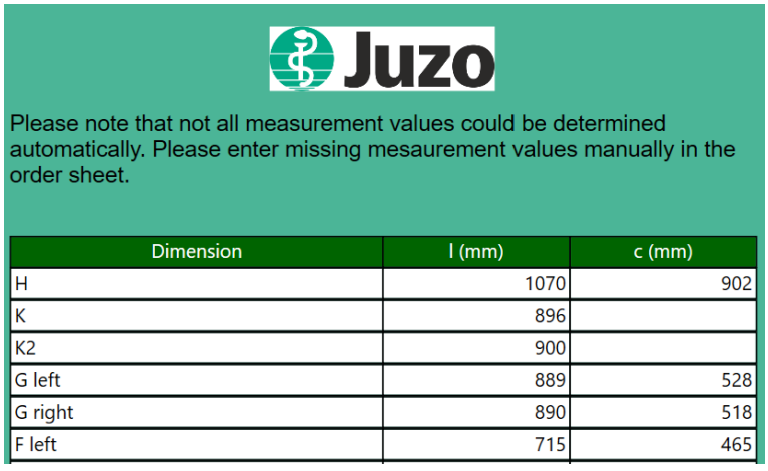
The results table shows the current dimensions and allows to select a dimension that needs to be moved manually.



Maß	l (mm)	c (mm)
T	1085	844
H	950	1033
K	791	
K2	791	
G links	765	639
G rechts	765	644
F links	636	533
F rechts	635	533
E links	476	393
E rechts	476	396
D links	415	363
D rechts	415	367
C links	335	390
C rechts	335	390
B1 links	215	305
B1 rechts	220	315
B links	100	231
B rechts	105	226
A links		236
A rechts		239
Y links		302
Y rechts		296
OFL links	168	
OFL rechts	168	
GFL links	240	
GFL rechts	240	

Figure 6 - Results table

If not, all dimensions could be determined automatically, a warning appears at the top of the results table.



Please note that not all measurement values could be determined automatically. Please enter missing mesaurement values manually in the order sheet.

Dimension	l (mm)	c (mm)
H	1070	902
K	896	
K2	900	
G left	889	528
G right	890	518
F left	715	465

Figure 7 - Warning results table

4.3.5 * Dependent Ring Mode

This mode is available only for Lymed.

4.3.5.1 Dependent Ring Mode (Default)

In this mode, ring movements follow predefined relationships (Figure 8).

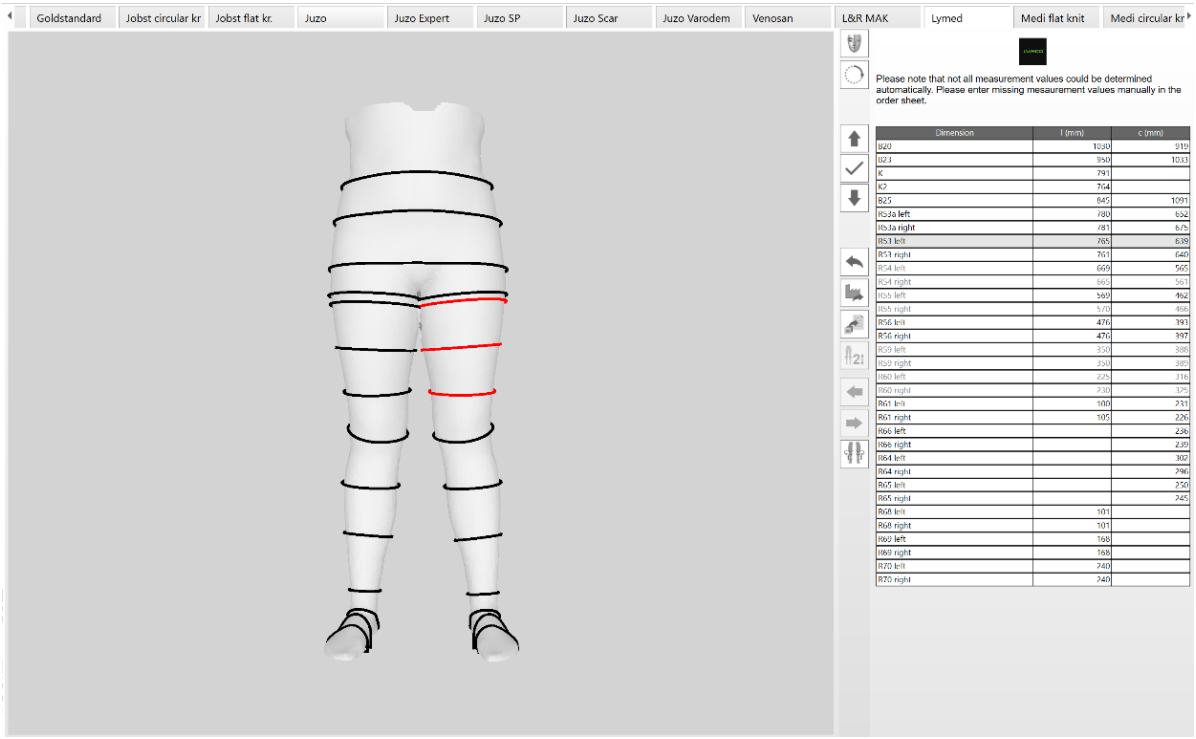


Figure 8 – Default Mode

Certain rings act as control rings. When a control ring is moved, the rings linked to it are adjusted automatically. These linked rings cannot be moved independently.

This ensures that the ring configuration remains consistent with the manufacturer's predefined model.

4.3.5.2 Free Ring state

In Free Ring Mode, the predefined relationships between rings are disabled (Figure 9).

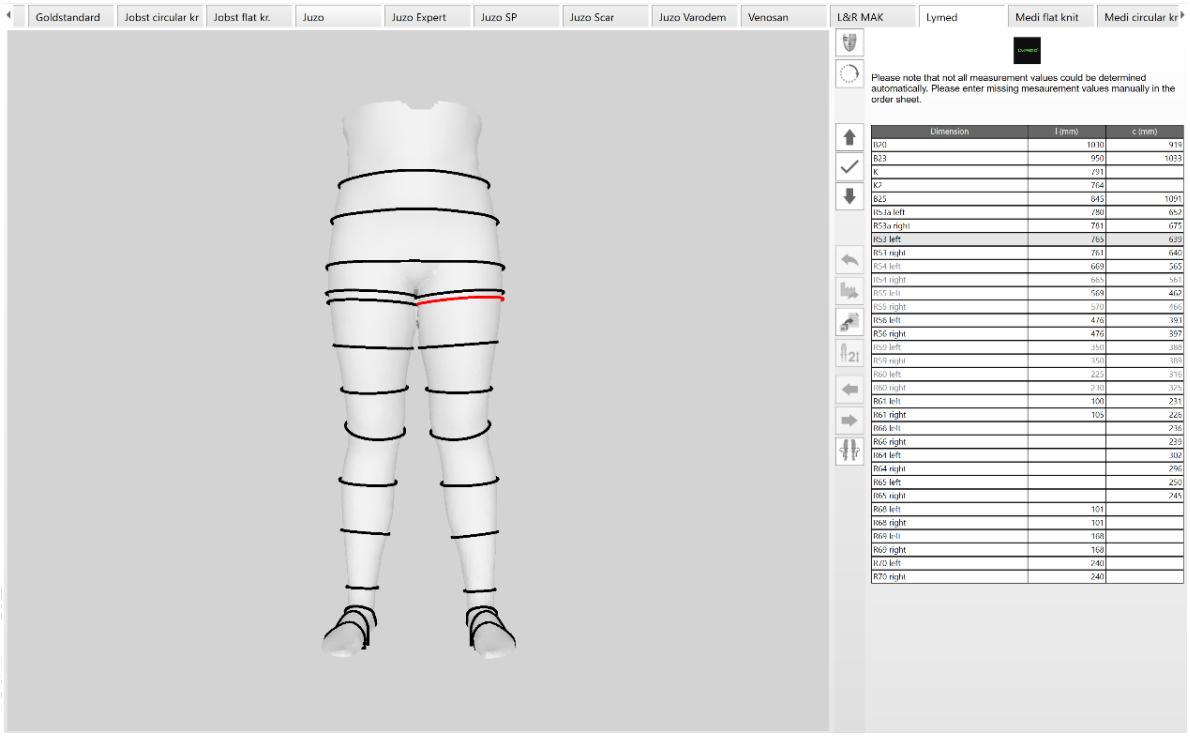


Figure 9 – Free Mode

All rings can be moved independently on the 3D model. Moving one ring does not automatically adjust other rings.

This mode allows manual fine-tuning of all ring positions.

4.4 Dialog Window

4.4.1 Management of Customer Data

4.4.1.1 Window “Customer Manager”

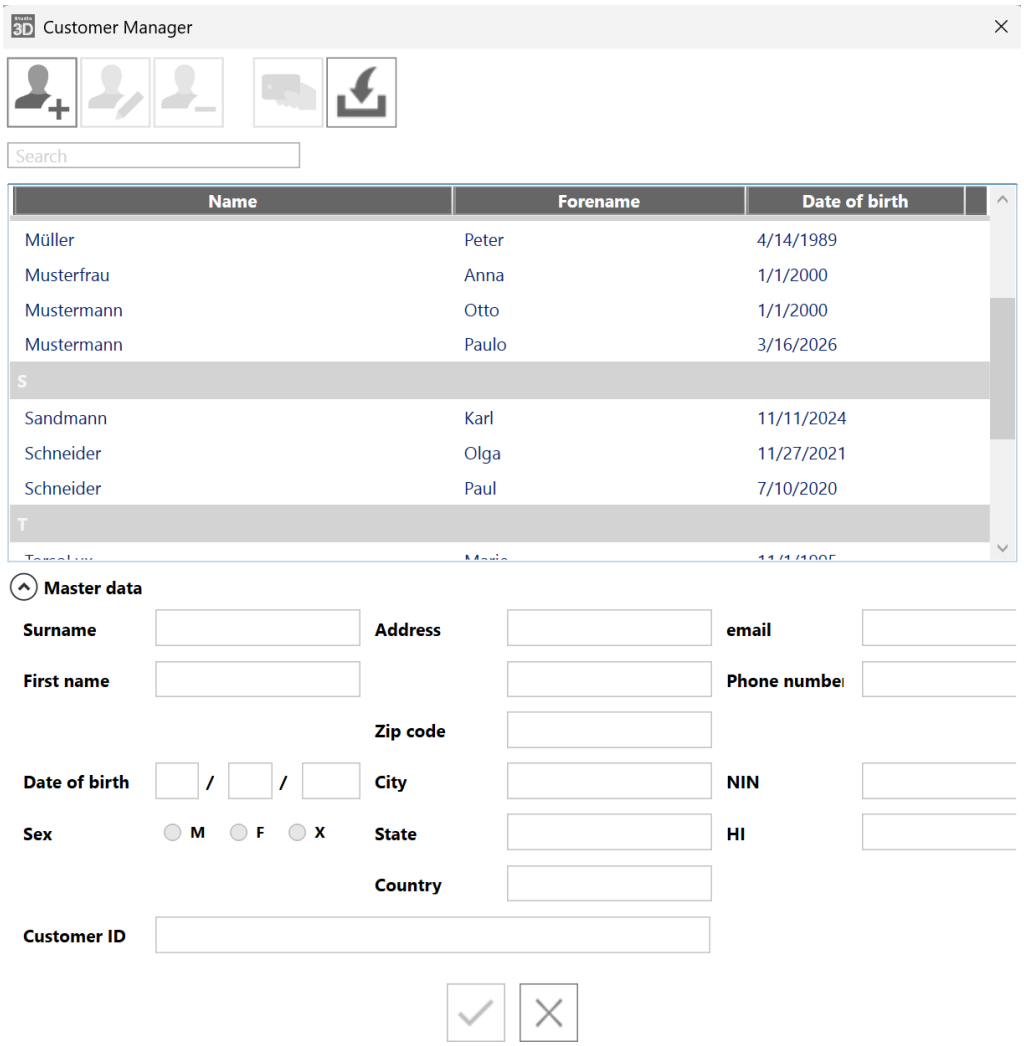


Figure 10 - Dialog window “Customer Manager”

There are three sections in the “Customer Manager” window:

- Control area: This contains buttons for reading electronic health cards and for manually adding, editing or deleting customer data, as well as an edit field for filtering customer data in the list.
- Customer list: This lists all customers that match the current filter settings. When a customer is selected, their entry is highlighted in color in the list.
- Customer master data: This field is only populated if a customer is selected.

4.4.2 Control Area

The control area consists of a toolbar and an input field for filtering the customer data. The toolbar contains the following options:

Control Element	Meaning
	Add a new customer By clicking this button, the "Create new customer" dialogue box will be opened, where the new customer's details can be entered.
	Change customer data By clicking this button, the input fields in the "Master data" section will be activated, enabling the editing of the selected customer's details.
	Delete the data of the selected customer Clicking this button will delete all of the customer's data from the database, **including any saved measurements**.
	Reading in the electronic health card Clicking this button to read the data from the electronic health card.
	Request/Picking up a new order from industry software Click on this button to request the current order from industry software such as TopM. If there is a current order, the associated customer data is entered into the database if required and the customer is selected.

4.4.2.1 Reading in the Electronic Health Card

To read in an electronic health card, first insert the card into the reader, then click the “Scan electronic health card” button. Once the card has been successfully read, the next steps depend on whether or not the customer is already stored in the database.

4.4.2.1.1 Customer is not yet stored in the database

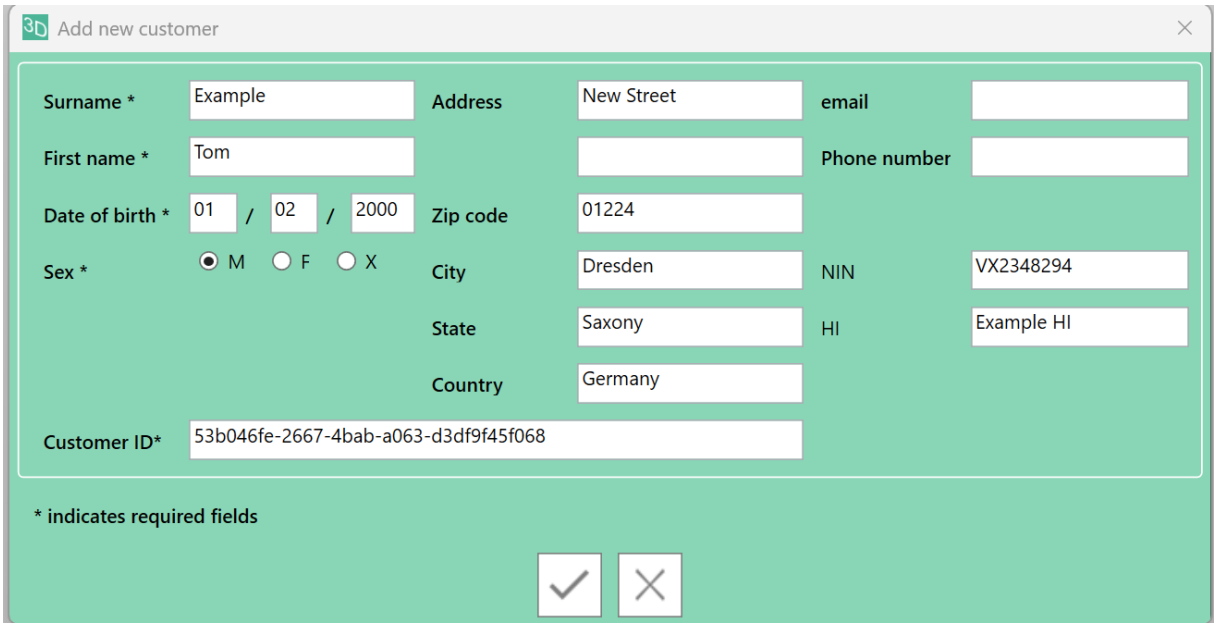


Figure 11 - Read in electronic health card / Add new customer

All imported data is transferred to the “Add new customer” window. Click the “OK”' button to transfer the data to the database.

4.4.2.1.2 Customer is already stored in the database

If the card of a customer, who is already stored in the database, is read, the customer is automatically selected.

4.4.2.2 Manually creating a new customer

A new customer can be created by pressing the relevant button in the “Customer Manager” window.

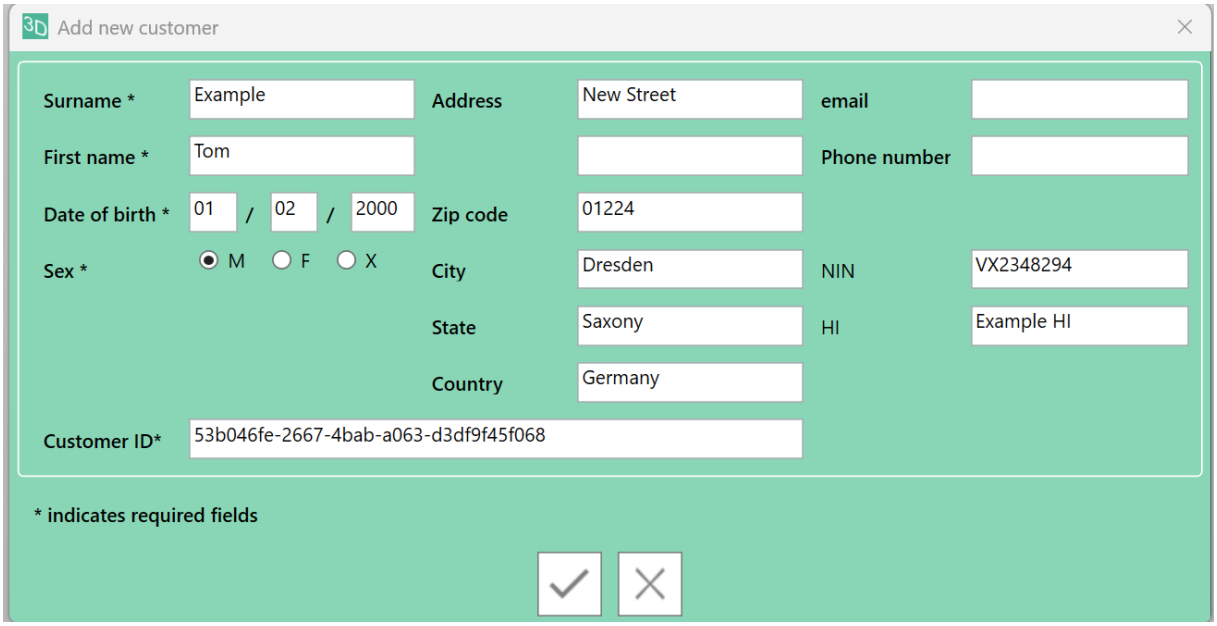


Figure 12 - Manually creating a new customer

A customer can only be created if all the fields marked with a color are filled in with valid values.

4.4.3 Window for Preparing the Measurement

Clicking on the “Prepare measurement” button in the toolbar opens the measurement preparation window. This consists of a general area and an advanced area.

The general area is used to align the Turn3D device cart prior to taking a measurement. The extended area allows the operator to check the exposure and release the turntable's locking mechanism so that the operator can move it manually.

Chapter 5.8 provides a detailed description of the window and its functions.

4.4.4 Window for Preselecting the Supply Area

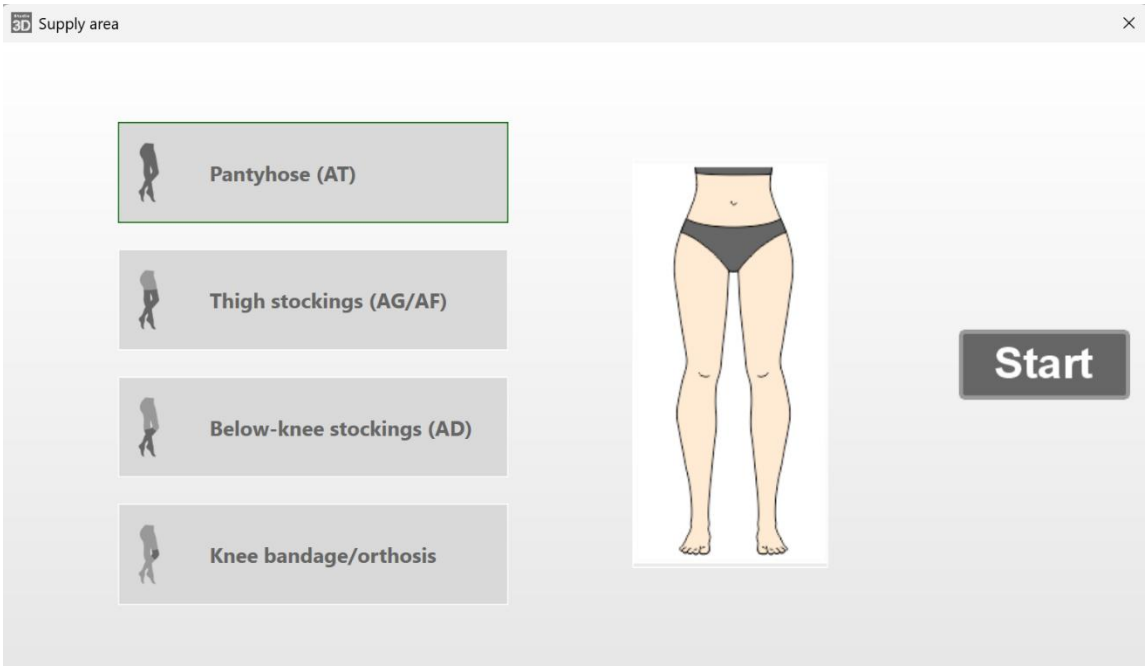


Figure 13 - Window “Start measurement” – Supply area

After clicking on the “Start measurement” button in the toolbar, the “Supply area” window appears for preselecting a type of stocking/knee bandage. Once a supply area has been selected, a drawing showing which areas of the body must be uncovered for the measurement to be carried out successfully appears on the right-hand side of the dialogue box.

The patient stands with their feet aligned with the front edge of the mark on the turntable. They hold onto the side railing and stand as straight as possible. During the measurement, they must not wear socks, must keep their head still and must not speak.

4.4.5 Window for Size Selection

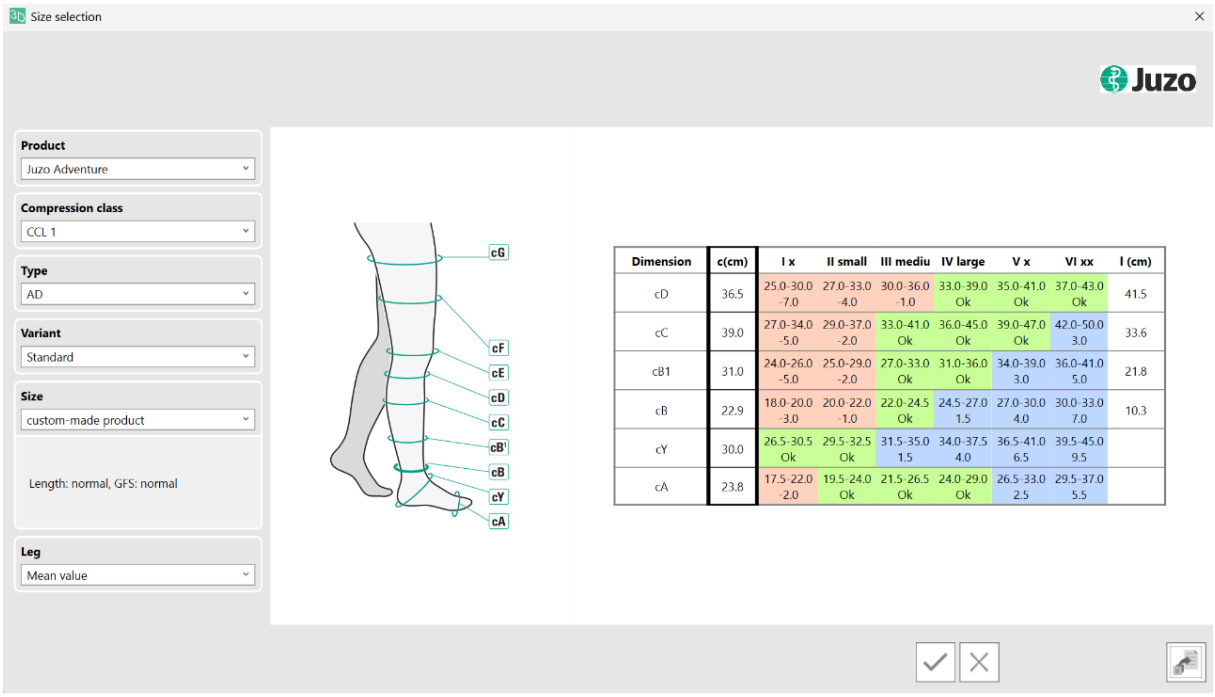


Figure 14 - Window “Size Selection”

The size selection window for standard products varies depending on the manufacturer. Figure 14 shows the size comparison for Juzo Varodem. The window consists of a size chart and several selection fields that can be used to make settings.

The **size selection** shows the tolerance ranges for all measured dimensions, based on the product, type, and variant currently selected. The background color in each field of the table is adjusted so that a suitable serial product can be easily found. The table cells are color-coded as follows:

Color	Meaning
Red	Too tight: The calculated measurement is outside the tolerance range. The measured circumference exceeds the upper limit of the tolerance range.
Green	The calculated measurement is within the tolerance range.
Blue	Too large: The calculated measurement is outside the tolerance range. The measured circumference is smaller than the lower tolerance range.

The circumference and, if available, the corresponding length are displayed for each measurement.

The “**Product**” selection box lists all the products offered by the manufacturer. The “**Type**” selection box lists the types of the offered product (e.g. Below-knee stockings AD, Pantyhose AT). If there are several variants of the selected product type, such as without an adhesive edge, with an adhesive edge or with a wide adhesive edge, these can be selected in the “**Variant**” box.

The “**Size**” selection box allows to select a size for the current combination of product, type, and variant. The currently selected size is highlighted with a black frame in the size chart.

Below the “Size” selection box is an output area. Warnings and notes are displayed here. For example, if the length measurement of a sock falls within the borderline range between two sizes, the user is informed. If there are no warnings, this area displays the size information for sock length and foot length for open and closed toes.

The “**Leg**” selection box can be used to check separately whether the selected size fits both legs. The size comparison can thus be carried out for the left leg, the right leg, or the average value for both legs.

Clicking on the “Add size chart to report” button saves the contents of the current screen for possible use in a report.

4.4.6 Order Form

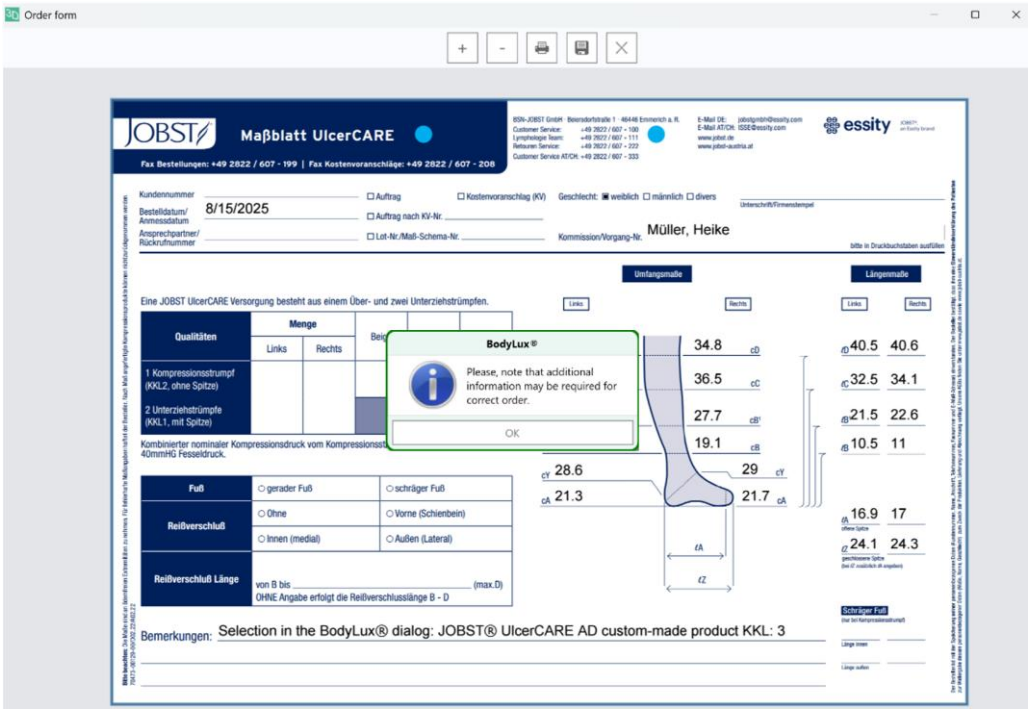


Figure 15 - Display order form with warning notice using Jobst as an example

The structure of the order form varies depending on the manufacturer. Here, we use the “Jobst” order form as an example, as well as the manufacturer-independent “RAL” order form. It is displayed in a document window either immediately after clicking on the 'Order form' button, or after closing the window

for comparing with the series dimensions with “OK”. The order form is partially pre-filled, and a warning message appears, prompting the user to check that the data is complete. The order form dialogue box is displayed in two different designs and differs in the appearance of the buttons for enlarging, reducing, printing, saving and closing.

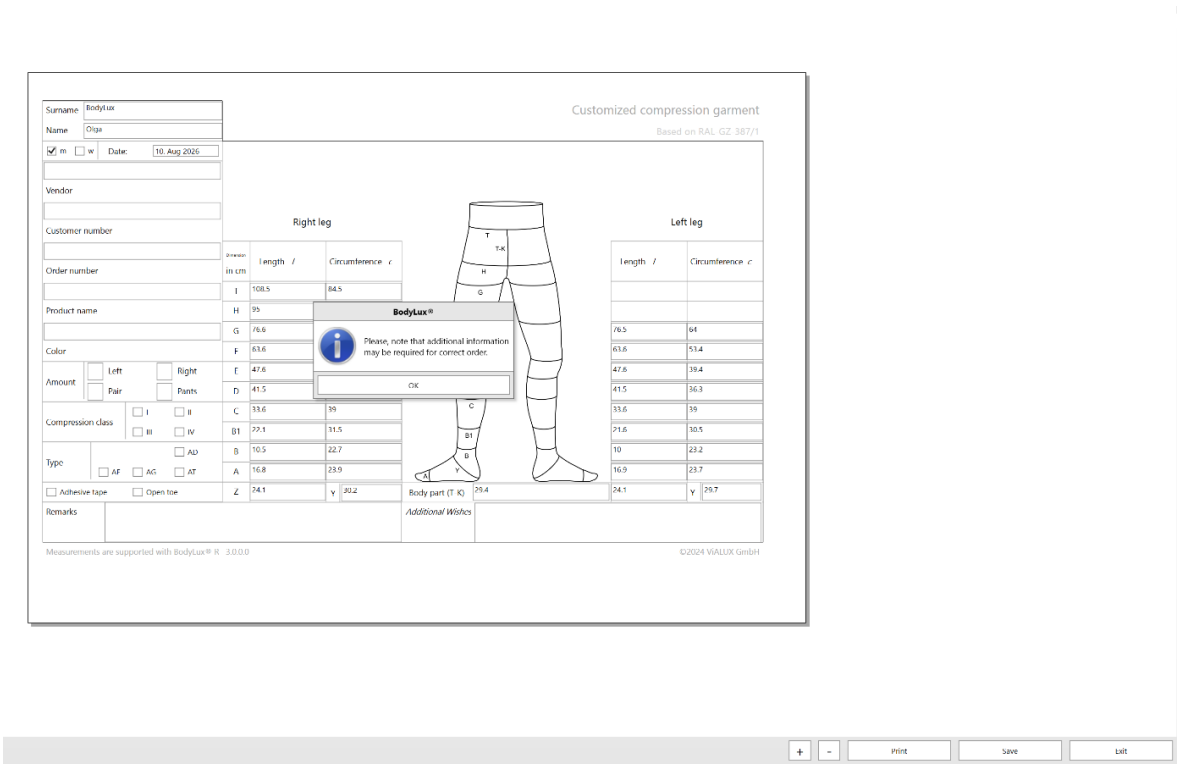


Figure 16 - Display order form with warning notice using RAL as an example

The table below shows the descriptions of the buttons for both dialog window designs.

Button		Meaning
+	+	Enlarge
-	-	Reduce
Print		Print completed order form
Save		Save completed order form as PDF file

Exit Export TopM * * Representative example	 	Close order form Data export

Pressing the “Save” button transfers the current contents of the order form to a PDF file. Depending on the system settings, either the PDF file is saved automatically in the default directory, or the user is asked to select the destination directory each time.

When the "Print" button is selected, a print dialogue box will open, allowing the user to select the printer and paper size. Select 'Print' in the print dialogue box to print the current contents of the order form. Please note that by clicking on the 'Exit' option, the user will be redirected to the order display.

The “Data Export” button becomes available only when an Industry Software is selected and the corresponding credentials are entered in the “System Settings > Industry Software” dialog.

Note: Make sure that the correct paper size is selected when printing. The order form will not adjust to the paper size.

Clicking the “Exit” button will close the current window.

4.4.7 Time History

This window allows the operator to compare up to six measured values with each other.

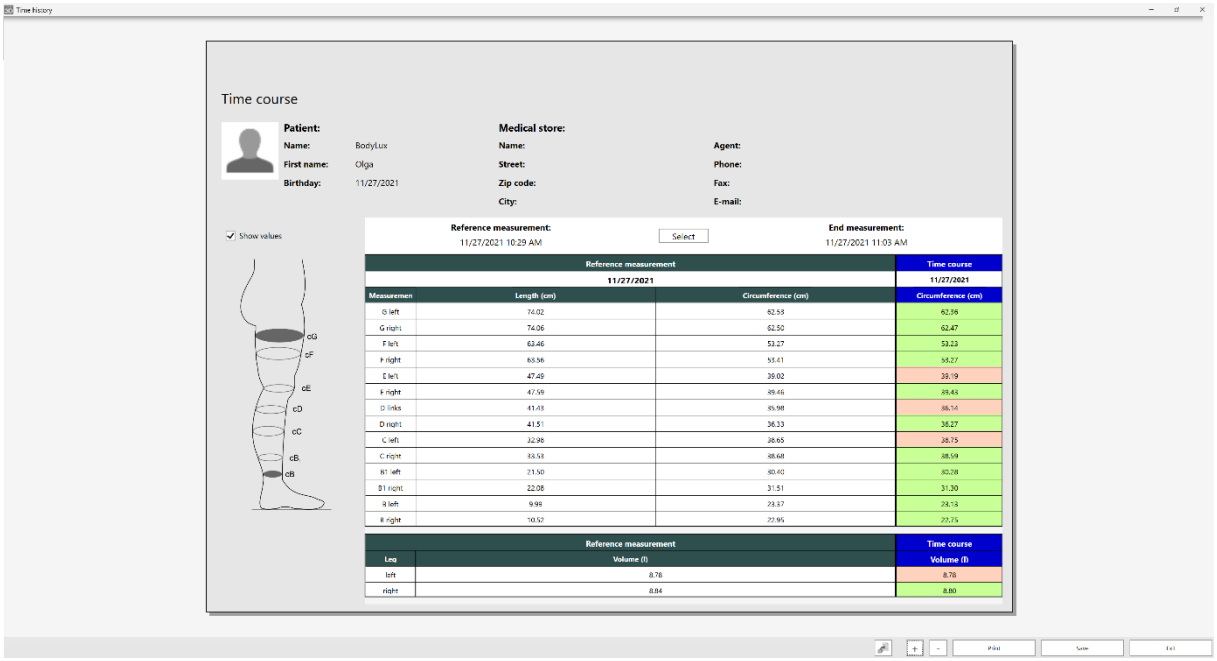


Figure 17 - Window “Time history”

The following data is listed in the upper section: surname, first name, and date of birth of the patient, information about the medical supply store.

Use the “Select” button at the top of the window to select the measurements.

Clicking on the “Select” button opens another window showing the available measurements alongside the date and time.

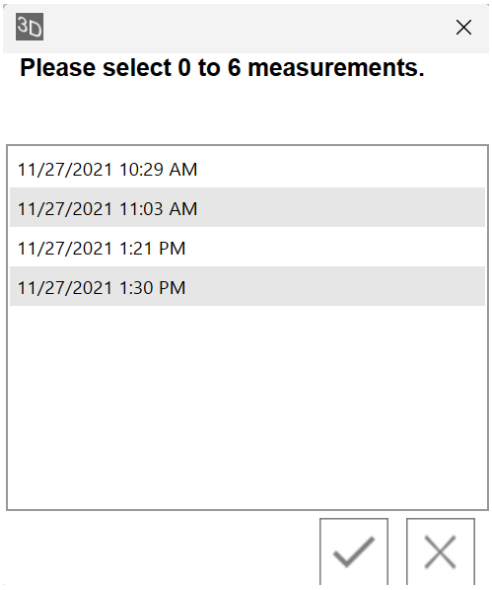


Figure 18 - Window for selecting measurements for the time history

The date and time of the oldest measurement are specified in the “Reference measurement” field, while the date and time of the most recent measurement are specified in the “End measurement”' field.

The upper value table compares the circumferences of the reference measurement with those of the subsequent measurements.

The measurement data from the reference measurement are specified with length and circumference in the value table under the heading “Reference measurement”. For the subsequent measurements, the circumferences are output relative to the length of the reference measurement.

If a circumference has decreased, the corresponding field in the table is highlighted in green; if the circumferences has increased, the field is highlighted in red.

The lower table compares the volumes of the reference measurement with the volumes of the subsequent measurements.

In the “show values” selection window, the operator can choose to display either circumference and volume values, or the differences between these values and the reference measurement.

Pressing the “Print” button opens a print dialogue box where the operator can select the desired printer and paper format. Closing the print dialogue box by pressing “Print” prints the current contents of the order form. Pressing the “Cancel” button takes the operator back to the time history display.

Note: Make sure that the correct paper size is selected when printing. The order form will not adjust to the paper size.

Clicking the “Save history data for report” button saves an image of the contents of the window in the directory where the report's image files are stored.

Clicking the “Exit” button will close the current window.

4.4.8 Polygon Model Post-Processing Window

Note: This functionality is only available if the user has a valid license for “Turn3D”.

The polygon model post-processing window can be launched by clicking on “Polygon Export”. This allows the operator to post-process the captured polygon model (i.e. remove parts of the 3D model) and export it as an *.obj or *.stl file. The functionality of the post-processing window is described in the “Post-Processing Manual”.

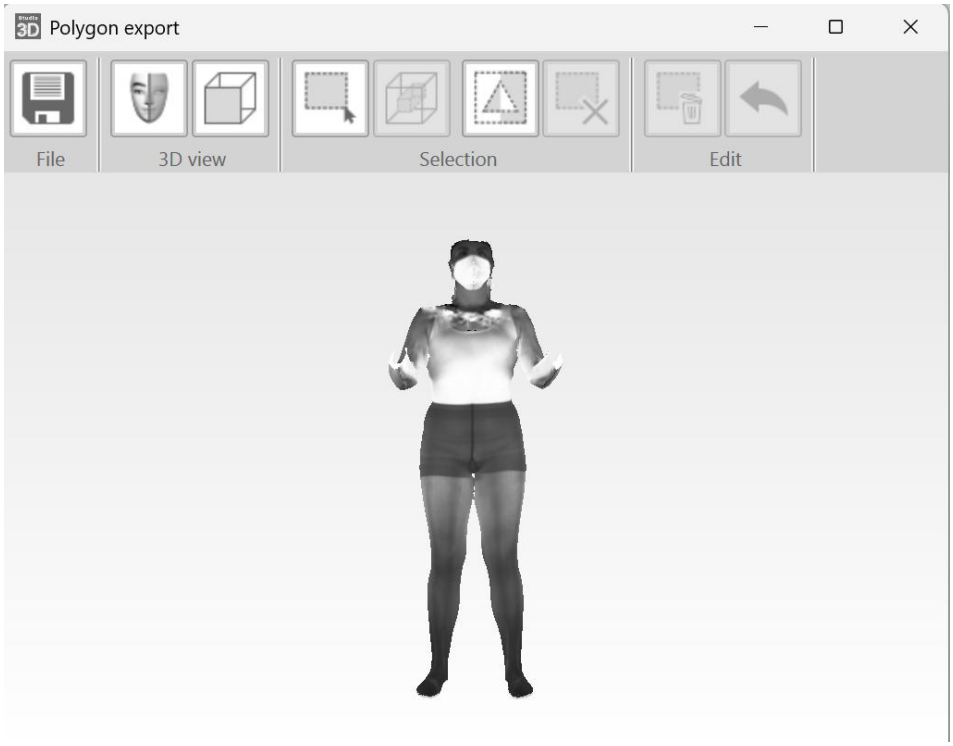


Figure 19 - Post-processing window “Polygon export”

Note: Regardless of the product type selected during scanning, all 3D data captured during scanning is displayed.

4.4.9 Select Vendor

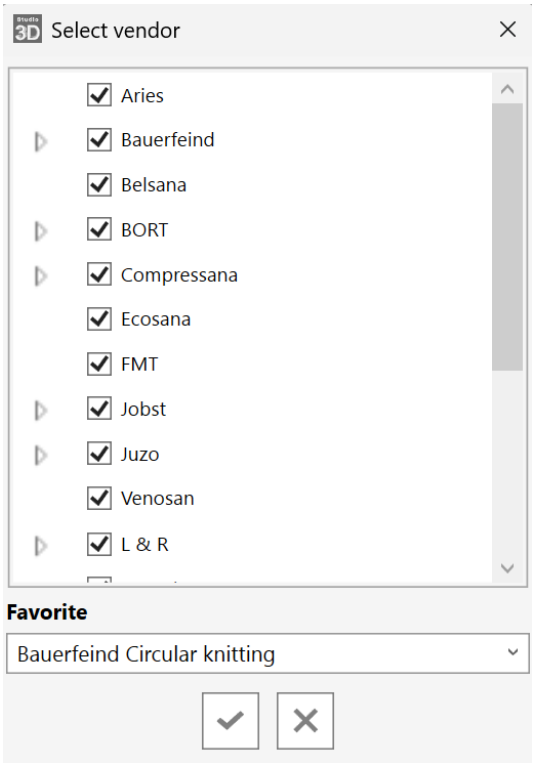


Figure 20 - Window “Select vendor”

This window appears when the user clicks on the 'Select vendor' button. It lists all the suppliers of compression stockings for which calculation and display results are available. There is also a manufacturer-independent “RAL” page which shows measurements in accordance with the RAL-GZ 387/1 regulation.

For all result views selected in the upper window, calculations are performed for a new measurement and the calculated dimensions are displayed.

The value in the “**Favorite**” selection field specifies which results page is automatically selected when the measurement is complete or a measurement is loaded from the database.

Note: When measurements are loaded from the database, only data from active providers that were calculated when the dataset was created is displayed. Therefore, it is possible that earlier measurements for a provider activated later will not contain any data.

4.4.10 System Settings

The “System Settings” window contains several tabs where the operator can configure settings for order form data and electronic orders. These tabs are described in chapter 5.25 and 5.27.

5 Quick Start Guide

5.1 Read Electronic Health Card

1. In the “Customer” section of the toolbar, click on the “Customer data management” button. This will open the customer management window.
2. Insert the electronic health card into the reader.
3. Click on the “Read electronic health card” button in the customer management window.

The following procedure depends on whether or not the customer has already been entered into the database. (see chapter 4.4.2.1).

5.2 Manually Create a new Customer

1. In the “Customer” section of the toolbar, click on the “Customer data management” button. This will open the window for managing customer data.
2. In the “Customer Data Management” window, click “Add New Customer”. The “Add New Customer” window will then open.
3. In the “Add New Customer” window, enter valid values in the colored fields and click the OK button. The customer will be created and the “Add New Customer” window will close. The newly created customer will then be selected in the “Customer Data Management” window.

5.3 Select a Customer Manually

1. In the “Customer” section of the toolbar, click on the “Customer data management” button. This will open the window for managing customer data.
2. Select a customer by clicking on the table. The selected table row is highlighted in color.
3. Close the “Customer Data Management” window by clicking the “OK” button. The customer's name and existing measurements will then be displayed in the “Measurements” display area.

Note 1: Double-clicking on a table row selects the customer immediately and closes the “Customer Data Management” window.

Note 2: The number of customers listed can be reduced by applying a filter. (see chapter 5.4).

5.4 Filter Customers

Requirements: The “Customer Data Management” window is open.

A combination of letters can be entered in the “Filter” field to search for the customer's first and last names. The list is updated according to the entries found.

Example:

The “Filter” field is empty. All customers are displayed.

Figure 21 - Filter customers: without filter

Only customers whose first or last name contains the specified letter combination are displayed.

Figure 22 - Filter customers: using filter

5.5 Change Customer Data

Requirements: A customer is selected in the “Customer Data Management” window.

Clicking on the “Change customer data” button unlocks the input fields, enabling the operator to make changes. Clicking on the “OK” button saves the changes and selects the customer as the current one.

If another customer is selected without first clicking the “OK” button, the operator must first confirm whether the changed data should be accepted.

5.6 Delete the Data of the selected Customer

Requirements: A customer is selected in the “Customer Data Management” window.

Clicking on the “Delete selected customer” button will **remove all of the selected customer's data from the database**.

5.7 Open Existing Measurement

Requirements: A customer is selected and at least one measurement for the customer is stored in the database.

Select a measurement from the “Measurement” display area by clicking on it with the left mouse button. The measurement data will be loaded. The 3D model will be displayed in the display area, along with the calculated dimensions for the current manufacturer, if available.

5.8 Prepare Measurement

5.8.1 Align Turn3D Device Cart

Requirements: A customer has been selected and the scanner is connected. The wheels are not locked, so the Turn3D device cart can be moved.

When clicking on the “Prepare measurement” button in the toolbar, the following window appears:

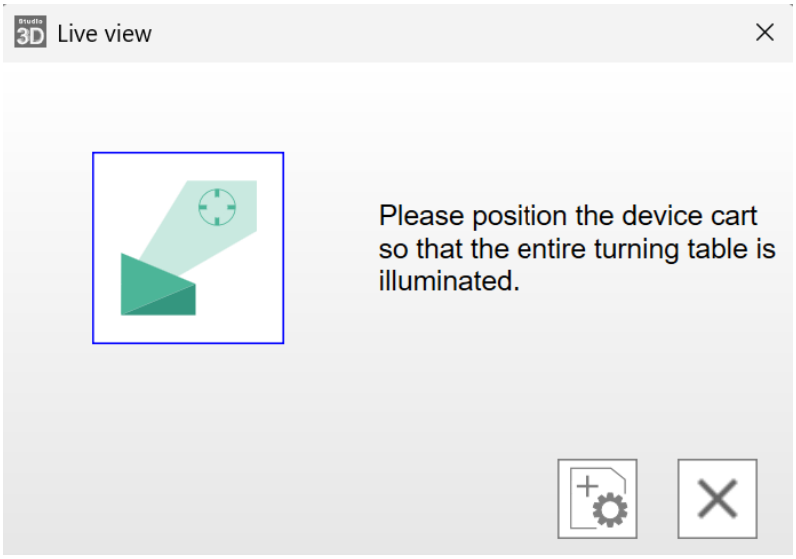


Figure 23 - Live View (align Turn3D device cart)

A blue circle is projected to help align the Turn3D equipment cart with the turntable. The cart is correctly aligned when the circle fully covers the turntable. A live image is displayed on the screen during projection.

Figure 24 - Prepare measurement (align device cart) Live-View

Once the Turn3D device cart has been correctly aligned, at least two of its wheels should be locked in place.

5.8.2 Check Exposure

Requirements: A customer has been selected; the scanner is connected and the “Prepare measurement” button has been pressed.

To check the exposure settings, click on the “Advanced” button in the “Prepare measurement” window:

Figure 25 - Button “Advanced” within the window “Prepare measurement”

The following window appears:

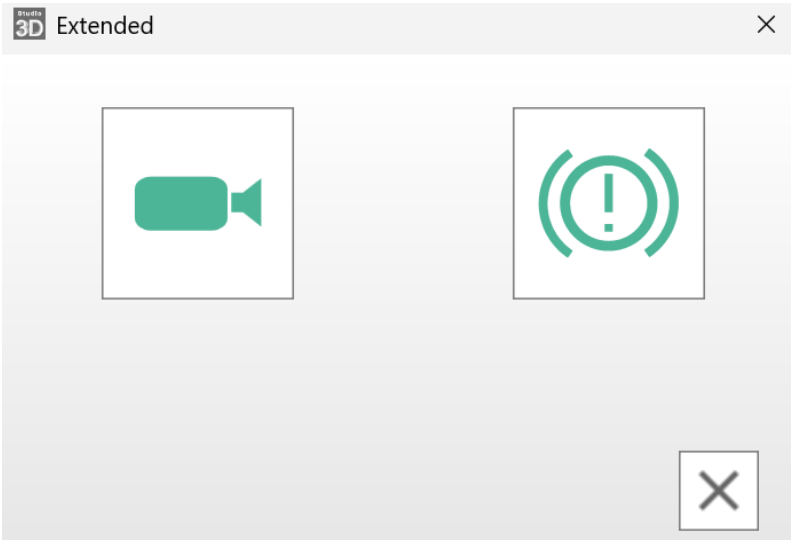


Figure 26 - Prepare measurement, extended mode (brake locked)

The following button switches the live image on and off:

Figure 27 - Button for switching the live image on and off

The live image appears on the screen as follows:

Figure 28 - Live image: check exposure

5.8.3 Unlock the Turn3D Turntable

The locking mechanism of the turntable can be released to enable customers to safely ascend and descend in confined spaces. The turntable can then be manually rotated into a convenient position.

In advanced mode of the "Prepare measurement" window, the turntable is unlocked by pressing the following button:

Figure 29 - Button for unlocking the turntable

The appearance of the window changes when the turntable is unlocked:

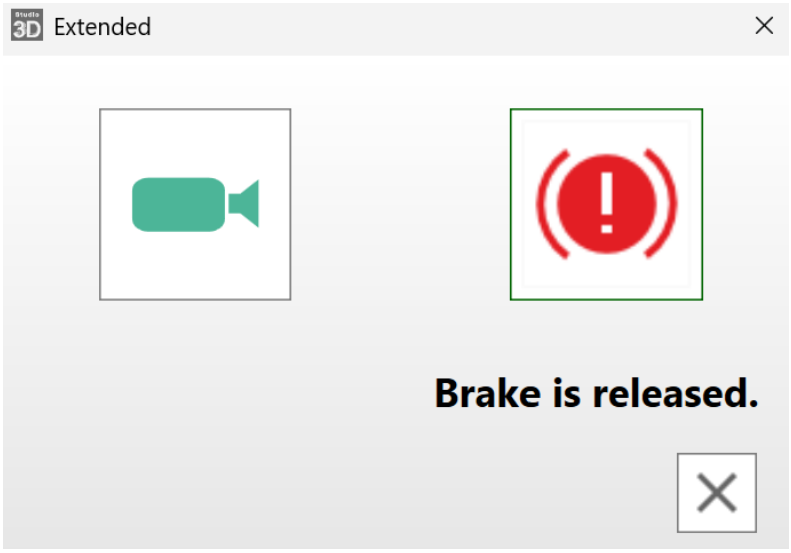


Figure 30 - Prepare Measurement, extended mode (brake released)

The turntable is locked again:

- Automatically after 20 seconds
- By pressing the following button

- When closing the window

Please note: As long as the locking mechanism of the turntable is released, the customer must not step onto or off the turntable.

5.9 Select Manufacturer

Under the menu item “Select manufacturer,” select the manufacturers for which calculations are to be performed.

Note: There is no subsequent calculation of measurements. This means that if a manufacturer is added after a measurement has been taken, the measurement will not contain any calculated dimensions for the added manufacturer.

5.10 Start Measurement

Requirements: A customer has been selected and the scanner is connected.

1. Click on the "Start measurement" button in the toolbar.
2. A window displaying the option to preselect the type of stocking is displayed. Select the desired stocking type, then press the "START" button.
3. The measurement starts, with the turntable beginning to move slightly before the scanning process. First, a 360-degree scan of the customer is performed. Once this scanning process is complete, the customer can leave the turntable.
4. Following the scan, the 3D model and manufacturer-specific dimensions are calculated. Once the measurement process is complete, the results are displayed.

5.11 Save Measurement

Requirements: A measurement was performed successfully.

Click the 'Save measurement result' button. This will transfer the current status of the measurement to the database and update the 'Measurement' display area. The following information is saved:

- 3D model with texture, disc model
- For each selected provider: calculated and manually shifted dimensions

Note 1: The data is automatically saved when the user clicks on the “Order form” button.

Note 2: A new measurement is added to the list in the 'Measurement' display area. After making changes to this measurement, such as manually adjusting dimensions or adding a comment, pressing the “Save measurement result” button updates the data, but no further measurements are added to the list.

5.12 Comment on Measurement

Requirements: The measurement has been saved and is selected.

1. Click on the button at the bottom of the measurement list.
2. Enter comment
3. Click on the “Save measurement result” button to apply the comment.

5.13 Delete Measurement

Requirements: A user has been selected and at least one measurement is stored in the database for that user.

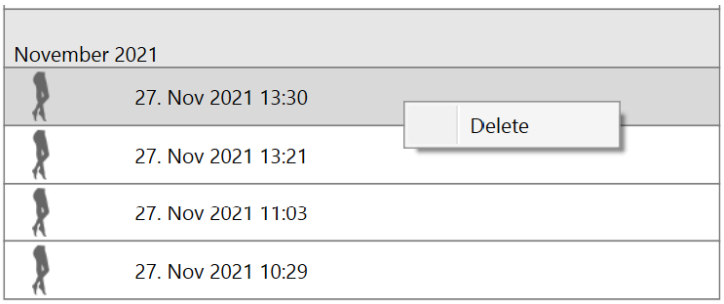


Figure 31 - Delete measurement

Right-clicking on the relevant line in the measurement table opens a context menu containing the 'Delete' option. Selecting this option removes the corresponding measurement from the database.

5.14 Import Manual Measurement

This section describes the procedure for importing manual measurements. The following requirements must be met in order to import manual measurements:

- The user has a tablet PC with the “BodyLux® LiNK” app.
- The “Manual Data Export” feature in BodyLux® is activated.

5.14.1 Preparation

To use the LiNK function, Wi-Fi must be enabled for later transmission. On the start screen, locate the "BodyLux LiNK" tab under Settings. In order to establish the connection, please open the app on the tablet, find the settings under the button in the upper left corner, and press the "SCAN QR CODE" button. The operator will then be prompted to open a camera window, which will allow the QR code to be scanned from the laptop. After closing the window, the IP address of the associated BodyLux® is displayed; this means that the connection has been successfully established and BodyLux® can be started.

Figure 32 - Settings dialog in the BodyLux® LiNK app after successful connection

Figure 33 - “BodyLux LiNK” settings window for establishing a connection to the tablet

5.14.1.1 Transmission

To transfer manual measurements from the tablet to the BodyLux® computer via WLAN, the tablet and the BodyLux® computer must be in the same WLAN. The following steps must be carried out:

- Studio3D or BodyLux® is started
- The **LiNK** app on the tablet is open, the "Send" button is active
- The user clicks on the "Send" button

An information window appears informing that measurements are being transferred to the computer.

5.14.2 Import

5.14.2.1 Transfer of a New Manual Measurement

To create a new manual measurement, select the “Create new data sheet” button.

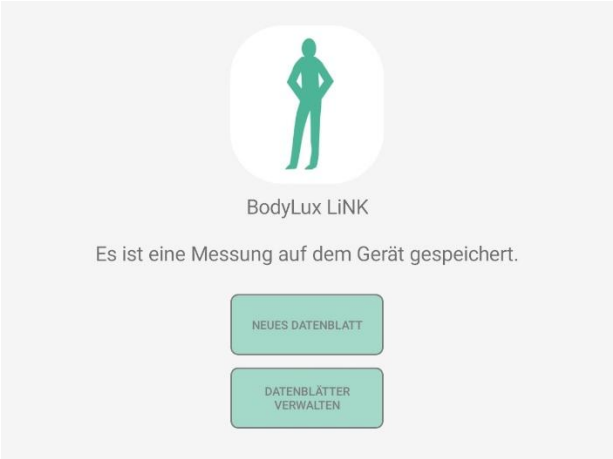


Figure 34 - Selection of data sheets in the app

Then the operator will be asked to select the supply area.

Figure 35 - Selection of supply area in the app

An empty measurement sheet opens, in which all patient data and all measured values must be entered.

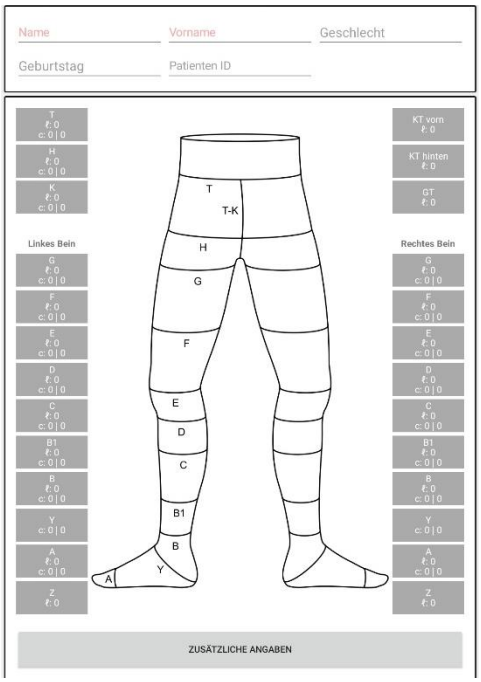


Figure 36 - Empty measurement sheet in the app

Once the form has been completed, the manual measurement can be sent directly. To transfer the data directly to the BodyLux® software, please click on the "Send" button. The operator can also save the measurement for now and send it at a later time (see chapter 5.14.1.1). To save the patient's measurement, press the active “BodyLux LiNK Import” button.

A window will then appear showing all manual measurements that have ever been sent for this patient. Now select the relevant measurement and save it.

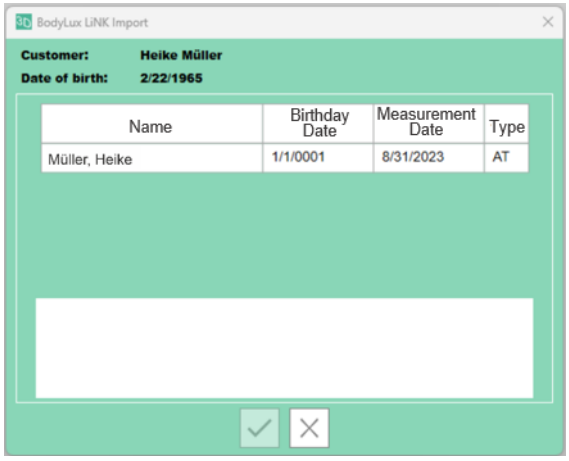


Figure 37 - Import dialog for manual measurements

After selecting a measurement and clicking OK, the measurement data is assigned to the active customer in the BodyLux® software. The measurement is saved after import and removed from the list of measurements still to be imported.

Attention: Only custom-made knee bandage/knee orthoses are displayed.

5.14.2.2 Transfer of an Existing Manual Measurement

If the data sheet is already stored on your device, you can find a table with all stored data sheets under the “Manage data sheets” button (Figure 36). To send the existing data sheet, select the relevant measurement sheet and then transfer it to the BodyLux® software using the “Send” button (see chapter 5.14.1.1) Before transferring, it is possible to edit the measured values or patient data. To do this, press the “Edit” button.

Figure 38 - Table with saved data sheets in the app

5.15 Create Manual Measurement

This section outlines the procedure for entering manual measurement data directly in BodyLux.

5.15.1 Creating a new manual Measurement

Next, you will be prompted to select the supply area.

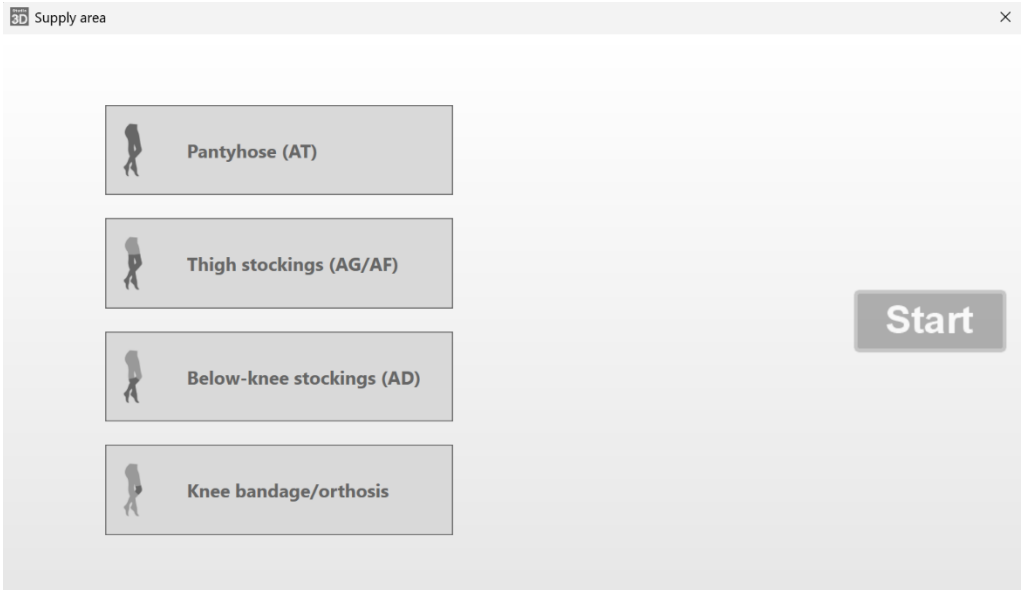


Figure 39 - Selection of the supply area

A blank measurement sheet will open, where all patient data and measurement values must be entered.

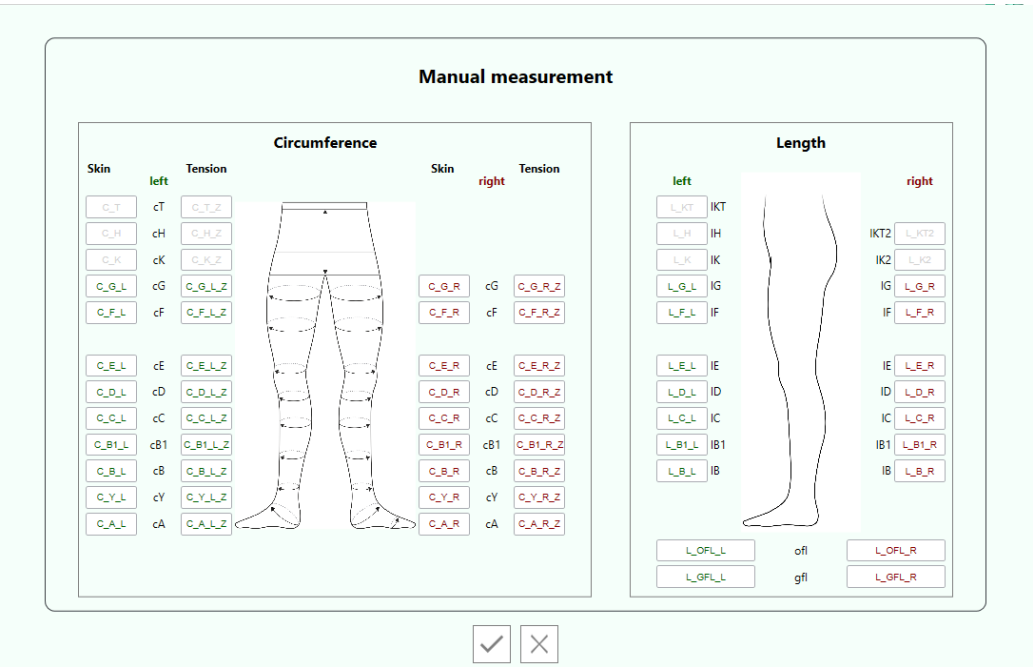


Figure 40 - Blank data sheet

After entering the data, the user can complete the process by clicking the 'Ok' button. The new measurement will then appear in the dialog and can be saved (see chapter 5.11).

5.16 Update Calculations

This section describes how to perform calculations for vendors for whom it was not originally done, or it can be also used to recalculate values if needed. This feature can be accessed using the key combination: Alt + Shift + F8.

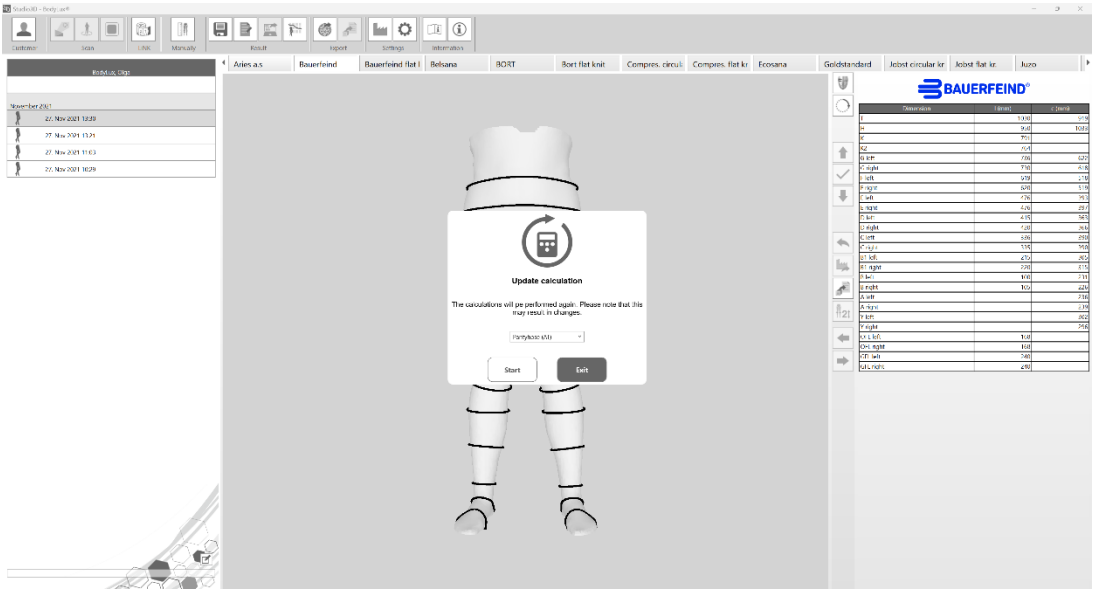


Figure 41 - Update calculations

Clicking 'Start' will perform the calculation for the 3D model. Once completed, the new values can be saved by pressing the corresponding button. (see chapter 5.11).

5.17 Fill out the Order Form

Requirements: A measurement was successfully performed or a measurement was loaded from the file.

1. Click on the “Order form” button in the toolbar.
2. For some manufacturers or products, a window opens first for comparison with standard dimensions, where the operator can check whether a standard product can be used for the customer or whether a custom-made product is necessary.
3. A window opens displaying the manufacturer's order form. The values of the measurements taken and other information, such as the date and customer name, are already entered.
   In addition, data from the medical supply store and other information such as customer number or additional delivery address can be entered. This information is managed on the “Medical Supply Store Data” or “PDF Export” pages in the “System Settings” window.
   If the window for comparing with the standard dimensions was displayed before the order form, the variants set there are transferred to the comment field of the order form.
4. In the window that appears, the operator can use the “Save” button to save the order form as a PDF document. Depending on the configuration on the “PDF Export” page in the system settings, the file is either automatically saved to the predefined path or the user is asked to specify a destination directory.

5.18 Select Measurement

Requirements: A measurement was successfully performed or a measurement was loaded from the file. The results views of at least one manufacturer are available.

A measurement is selected from the results table on a supplier's results page. The selected row is highlighted in color. In the 3D view, the ring corresponding to the selected measurement is displayed in red.

Special feature: If the K dimension or K2 dimension has been selected, the position of this dimension is represented by a blue plane.

5.19 Move Selected Measurement

Requirements: A measurement was successfully performed or a measurement was loaded from the file. The results views of at least one provider are available. A measurement was selected from the results view of the current provider.

Clicking on the “Move selected measurement up” or “Move selected measurement down” button changes the height of the measurement. The table cell is updated, as is the position of the measurement in the 3D model.

5.20 Move Selected A-Measurement

Requirements: A-measurement was successfully performed or a measurement was loaded from the file. The results views of at least one provider are available. A-measurement was selected from the results view of the current provider.

Clicking on the “Move selected measurement forward” or “Move selected measurement backward” button changes the length of the A measurement. The table cell is updated, as is the position of the measurement in the 3D model.

5.21 Apply Modified Values for Measurements

Requirements: A measurement was successfully performed or a measurement was loaded from the file. The results views of at least one provider are available. A measurement was selected from the results view of the current provider.

Clicking on “Apply values for selected measurement” applies the values for the current measurement. In the 3D view, the ring associated with the measurement is displayed in either black or blue (if the position has changed).

5.22 Transfer of changed Measurements to other Result Views

Requirements: Several result views are open. The currently selected result sheet contains at least one moved dimension.

After clicking on “Transfer of changed dimensions to other result views”, a security question will appear first:

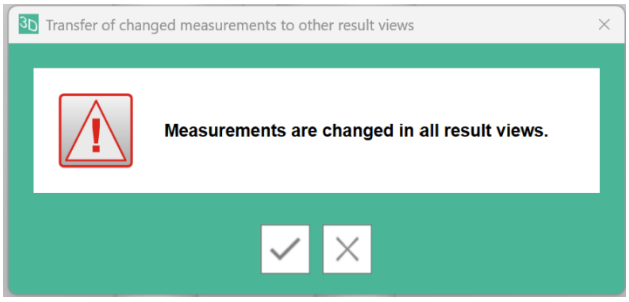


Figure 42 - Security question regarding the transfer of changed measurements to other result views

If this query is confirmed by clicking on the check mark, the data will be copied as follows:

- Only values that already exist in the results view are changed, i.e., no measured values are added.
- Only values that have been changed in the current results view are transferred. All other values retain their value.
- Data is only transferred to the result views that are active at the time of value transfer.

5.23 Synchronous Shifting of Multiple Measurements

Synchronous displacement of measurement values is only possible if the “Synchronous displacement of measurement rings” option is enabled in the display area controls. To activate the “Synchronous displacement of measurement rings” option, the user must double-click on a measurement value. Only leg measurements (measurements B to G) that exist on both legs can be displaced.

5.23.1 Selection of Measurements

A leg measurement is selected from the results table on a manufacturer's results page.

The selected measurement is selected on both legs. The aim is to set the length of the measurement on the unselected leg to the length of the measurement on the selected leg.

Both rows of the results table are highlighted in color. In the 3D view, the rings that correspond to the selected dimensions are displayed in red.

5.23.2 Moving the Measurements

Clicking on the “Move selected measurement up” or “Move selected measurement down” button changes the heights of the selected measurements. The table cells are updated, as is the position of the measurements in the 3D model.

The note about the movability of the dimensions can be disabled in the system settings under the “General settings/Options” tab.

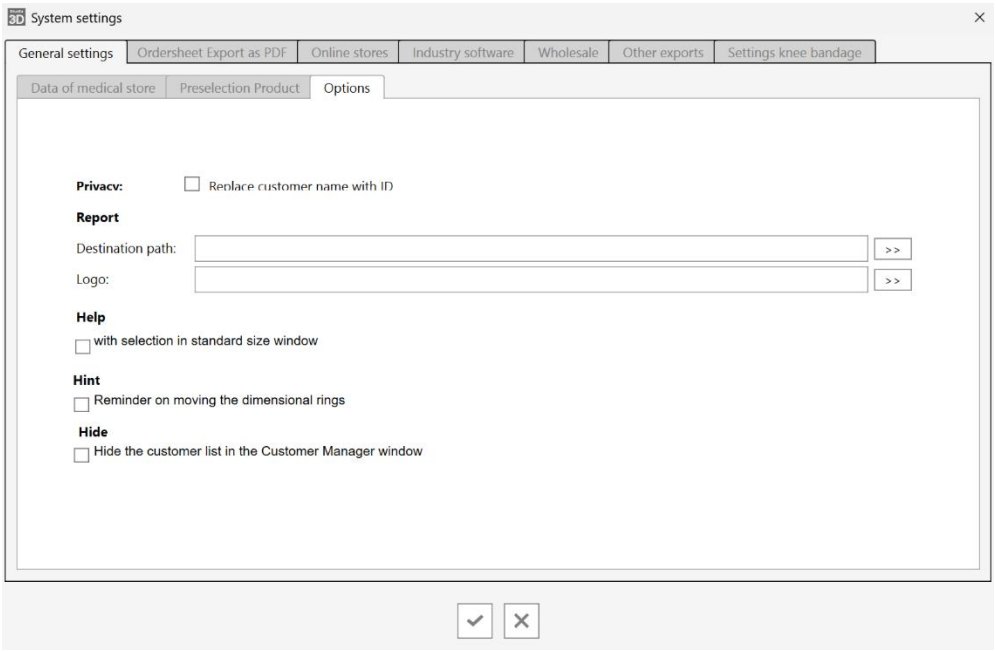


Figure 43 - “System settings” window, “General settings/Options” tab for activating the message to move the measuring rings

5.23.3 Apply Changed Values

Clicking on “Apply values for selected measurement” applies the values for the selected measurements. In the 3D view, the rings belonging to the measurements are displayed either in black or blue (if the position has changed).

5.24 Export STL

Requirements: A measurement was successfully performed or a measurement was loaded from the file.

1. Click on the “Polygon Export” button – the post-processing window will open (see chapter 4.4.8).
2. In the post-processing window, click on the “Export measurement” button.

3. In the “Save As” dialog box that appears, select the file type “stl” and specify the name and location of the file.
4. Close the “Save As” dialog box by clicking OK. An STL file with the specified name will be created in the selected directory.

5.25 Export Object

Requirements: A measurement was successfully performed or a measurement was loaded from the file.

1. Click on the “Polygon Export” button – the post-processing window will open (see chapter 4.4.8).
2. In the post-processing window, click on the “Export measurement” button.
3. In the “Save As” dialog box that appears, select the file type “.obj” and specify the name and location of the destination directory.
4. Close the “Save As” dialog box by clicking OK. A subdirectory with the specified name will be created in the selected directory. It will contain an *.obj, *.png, and *.mtl file.

5.26 Configuring Data for Order Sheets

The order forms are automatically filled in with the following data:

- Measurement data
- Customer data (last name, first name, date of birth)
- Master data of the medical supply store
- Additional manufacturer-specific data (customer number, alternative delivery address)

Customer data can be viewed and modified in the “Customer Management” window. This window can be accessed by clicking on the “Manage Customer Data” button in the toolbar.

The master data of the medical supply store is managed in the “Medical Supply Store Data” tab of the “System Settings” window.

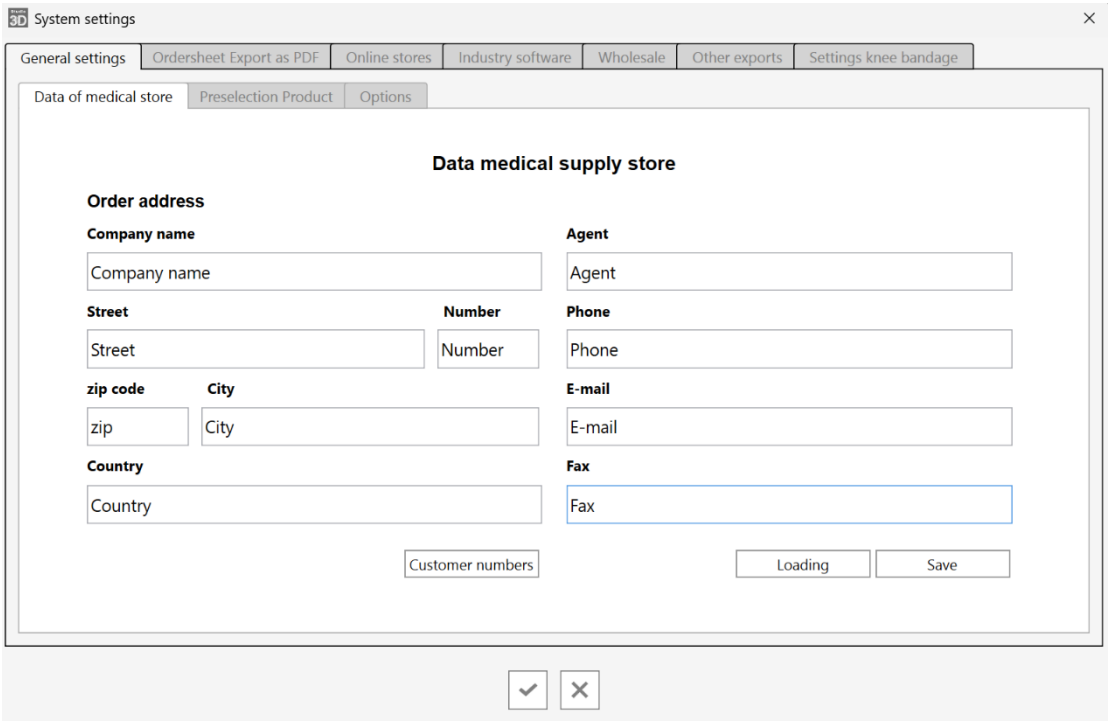


Figure 44 - “System settings” window, “Data of medical store” tab

Manufacturer-specific data such as delivery address is managed in the “Export order form as PDF” tab.

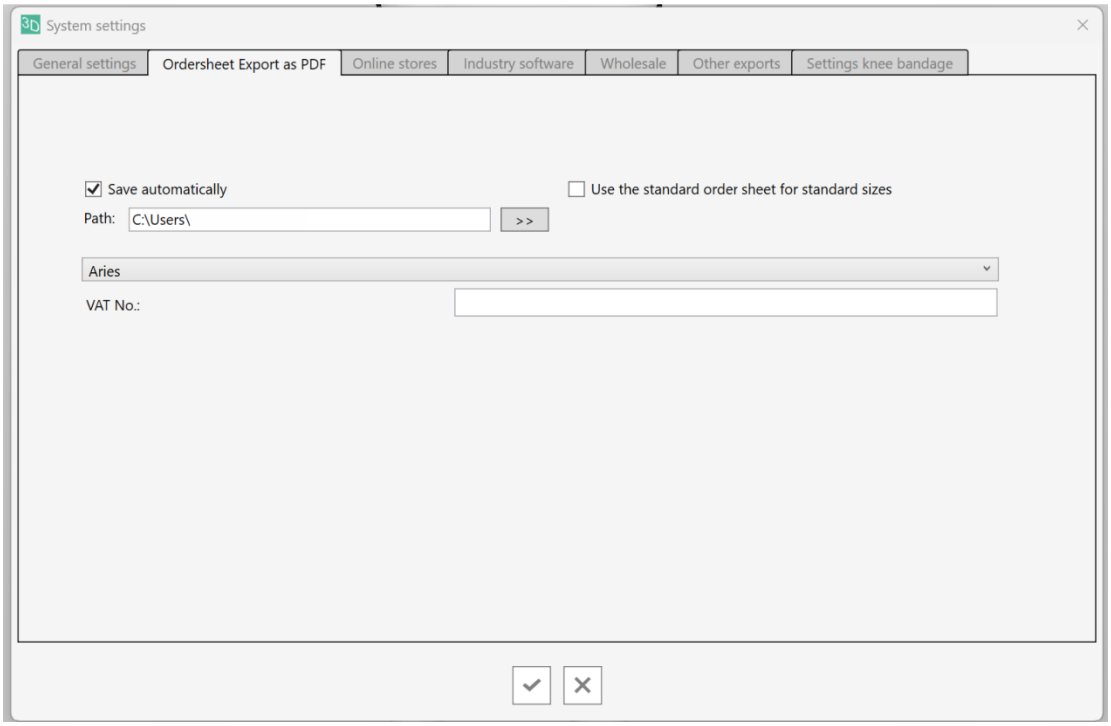


Figure 45 - “System settings” window, “Ordersheet Export as PDF” tab

The “Ordersheet Export as PDF” tab consists of two sections. The upper section is used to configure settings that apply to all order forms. “Save automatically” means that the order form is automatically saved in the specified directory without displaying a “Save as” window.

It is possible to save multiple order sheets for the same measurement and the same stocking manufacturer.

Settings for individual manufacturers can be configured separately in the lower section.

5.27 Data Export

Data export is configured when setting up the system or when changes are to be made to the settings. The settings for exports can be found in the “System Settings” window under the various tabs.

Data is exported by pressing the “Electronic order” button (see chapter 4.2.5.3). The measurement data from the currently visible results view is then exported to a file.

5.27.1 Export for the medi Webshop

5.27.1.1 Configuration

Clicking on the “System settings” button opens the “System settings” window. Clicking on the “Online stores” tab displays the selection of connected shops. Selecting the “medi webshop” tab opens a window with the required settings.

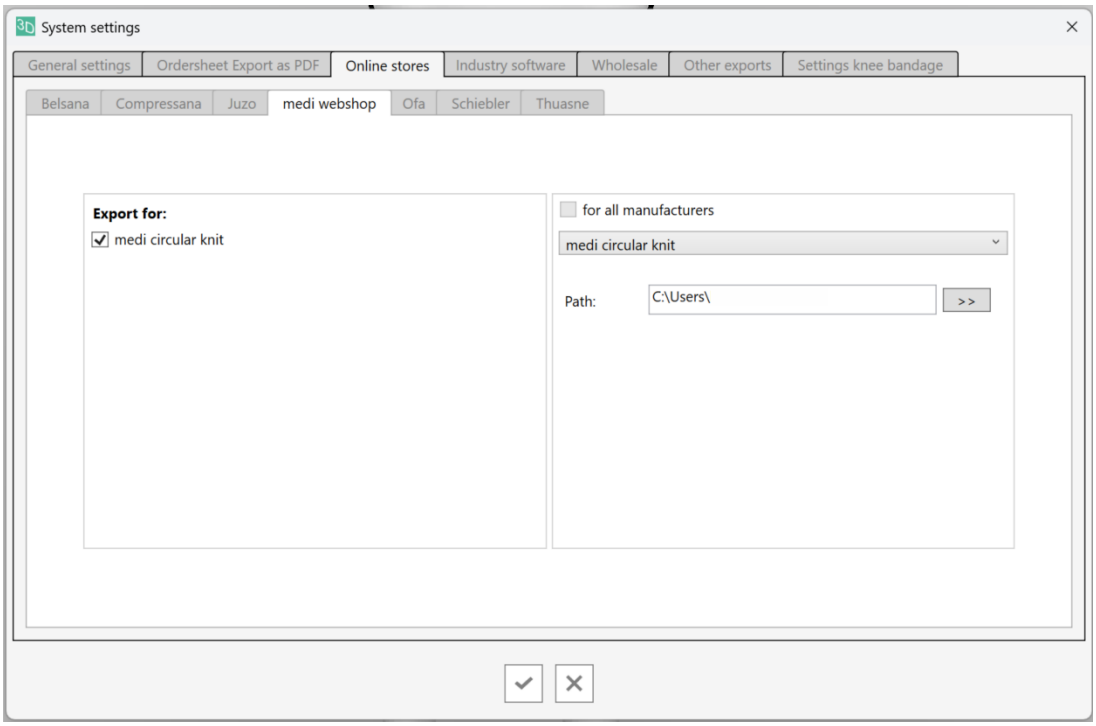


Figure 46 - “System settings” window, “Online stores/medi webshop” tab

All results pages for which data export to the medi webshop has been implemented are listed on the left side of the window (currently only medi circular knitting). The buttons can be used to specify whether the order form should be exported to the medi webshop when the “Electronic order” button is pressed.

On the right side of the window, the operator can select the file path where the file with the measurements will be stored.

5.27.1.2 Export

See chapter 5.27.9.

5.27.2 Export for the Juzo Webshop

5.27.2.1 Configuration

Clicking on the “System settings” button opens the “System settings” window. Clicking on the “Online stores” tab displays the selection of connected shops. Selecting the “Juzo” tab opens a window with the required settings.

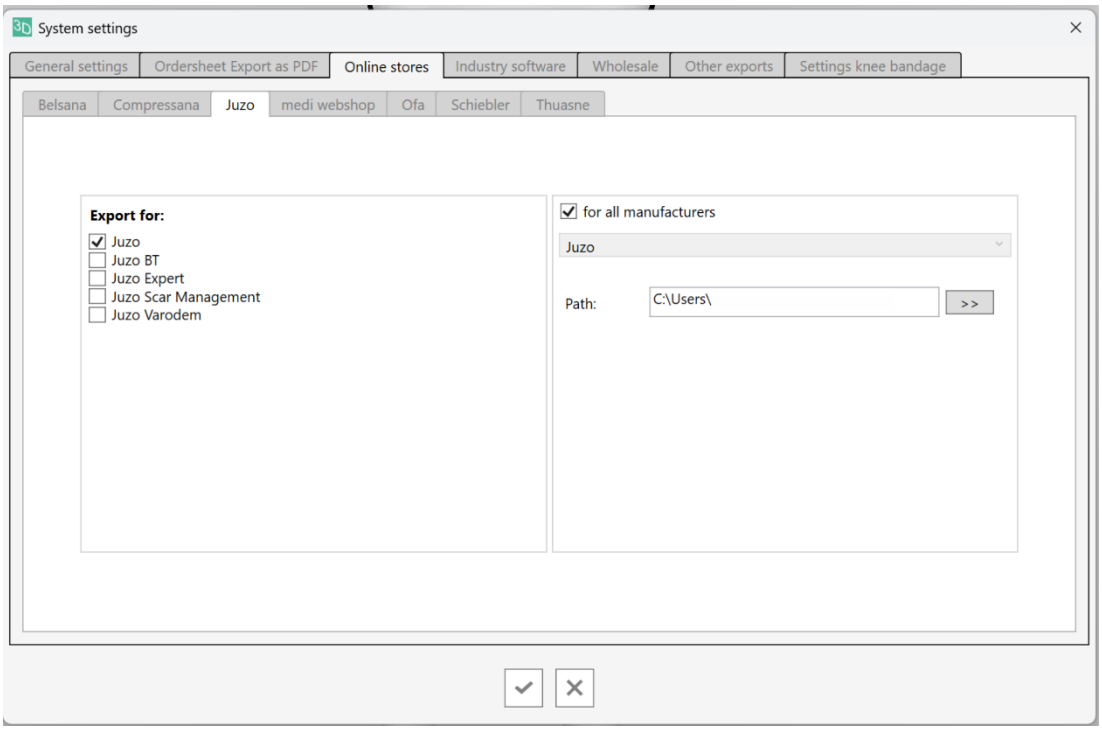


Figure 47 - “System Settings” window, “Online stores/Juzo” tab

All results pages for which data export to the Juzo webshop has been implemented are listed in the left-hand section of the window. The values of the buttons indicate whether the order form should be exported to the Juzo webshop when the “Electronic order” button is pressed.

On the right side of the window, the operator can select the file path where the file with the measurements will be stored. It is possible to select a separate file path for each results page, but the same file path can also be used for all results pages. To do this, click the “For all manufacturers” button. In this case, the data from the selected results page will be applied to all results pages.

5.27.2.2 Export

See chapter 5.27.9.

5.27.3 Export for the Belsana Webshop

5.27.3.1 Configuration

Clicking on the “System settings” button opens the “System settings” window. Clicking on the “Online stores” tab displays the selection of connected shops. Selecting the “Belsana” tab opens a window with the required settings.

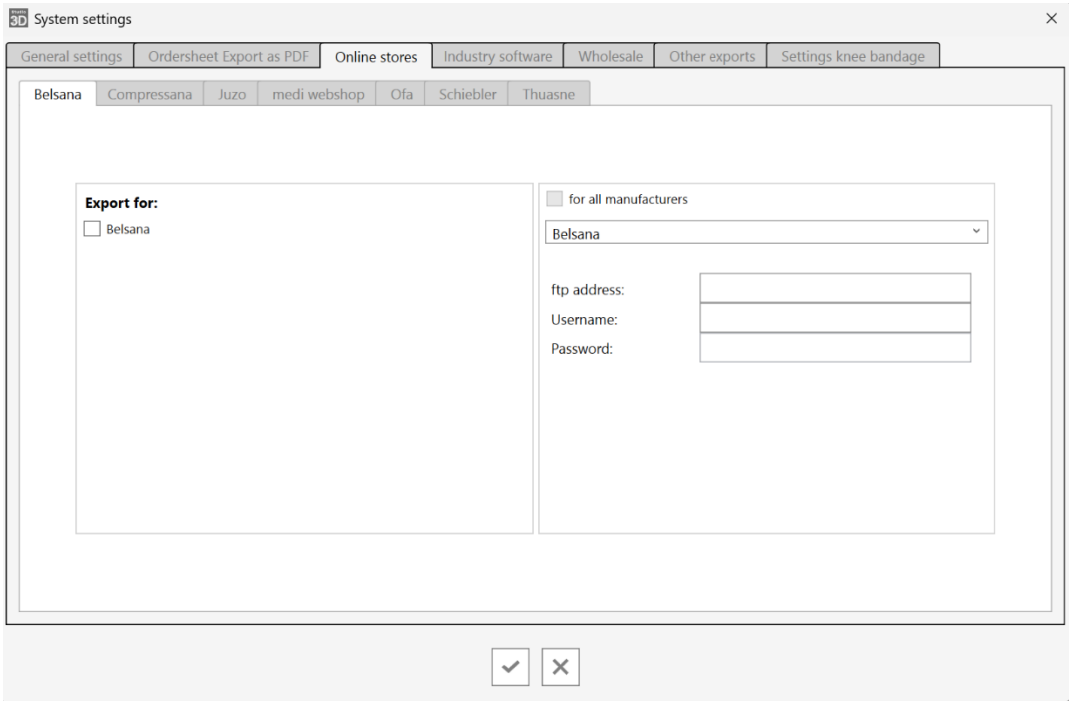


Figure 48 - “System settings” window, “Online stores/Belsana” tab

The left side of the window lists all results pages for which data export to the Belsana webshop has been implemented. The values of the buttons indicate whether the order form should be exported to the Belsana webshop when the “Electronic order” button is pressed.

The login details for the Belsana webshop are provided on the right-hand side of the window. Please request these from the manufacturer Belsana.

5.27.3.2 Export

See chapter 5.27.9.

5.27.4 Export for the Compressana Webshop

5.27.4.1 Configuration

Clicking on the “System settings” button opens the “System settings” window. Clicking on the “Online stores” tab displays the selection of connected shops. Selecting the “Compressana” tab opens a window with the required settings.

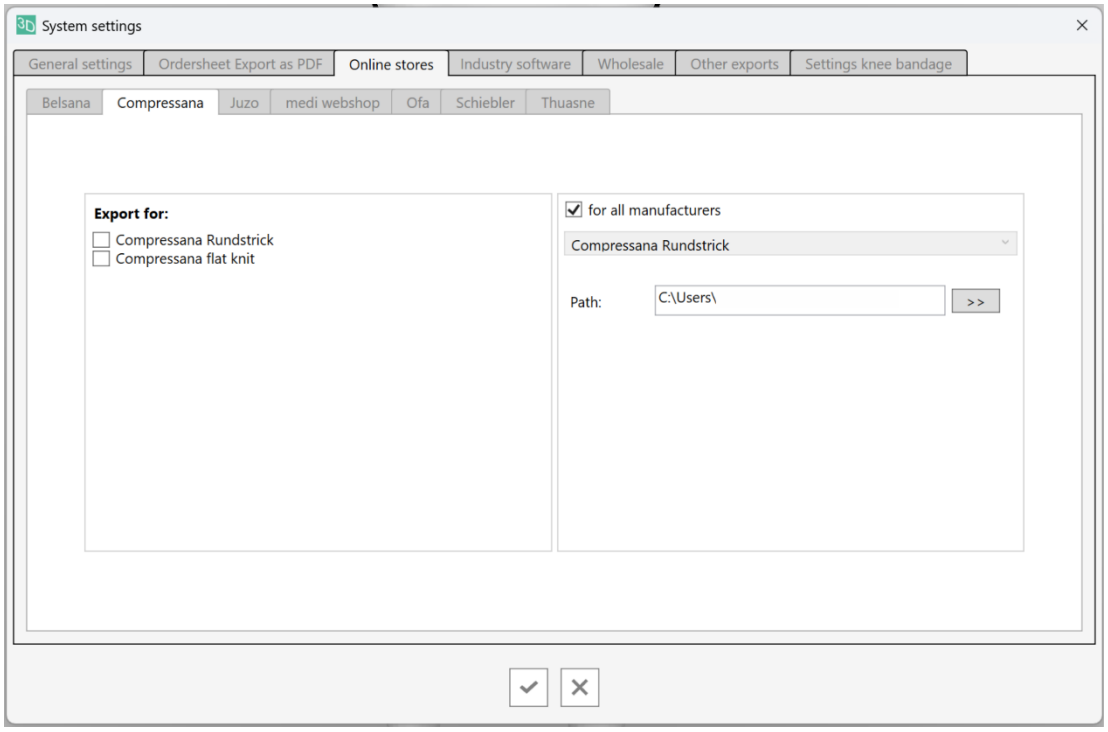


Figure 49 - “System settings” window, “Online stores/Compressana” tab

The left side of the window lists all results pages for which data export to the Compressana Webshop has been implemented. The values of the buttons indicate whether the order form should be exported to the Compressana Webshop when the “Electronic order” button is pressed.

On the right side of the window, the operator can select the file path where the file with the measurements will be stored.

5.27.4.2 Export

See chapter 5.27.9.

5.27.5 Export for the Schiebler Webshop

5.27.5.1 Preparation

To use the data export function, please request a login for the ftp-server from “Heinz Schiebler-Norddeutsche Gummistrumpffabrik GmbH & Co KG”.

5.27.5.2 Configuration

FTP access must be set up once in BodyLux®. To do this, please select the “Online stores/Schiebler” tab in the “System settings” window. The ftp-address is specified without a port.

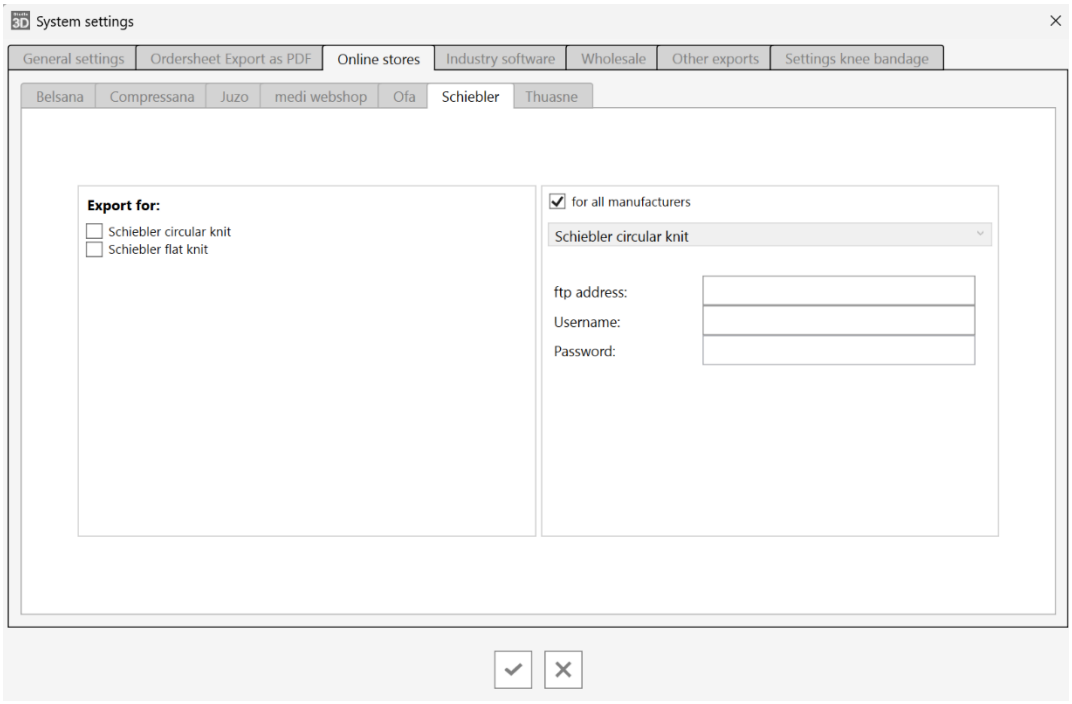


Figure 50 - “System settings” window, “Online stores/Schiebler” tab

The “Export for” selection boxes are used to enable and disable the data export button. If data is to be exported, the corresponding selection box must be checked.

5.27.5.3 Data Export

Data is exported using the “Data export” button in the order form display window. A message is displayed indicating whether the data was successfully transferred.

Figure 51 - Button „Data export“

Figure 52 - Button „Data export“

Attention: The export saves a file on the specified ftp-server. For information on how to import this file into the online shop, please contact “Heinz Schiebler- Norddeutsche Gummistrumpffabrik GmbH & Co KG”.

5.27.6 Export for the Thuasne Webshop

5.27.6.1 Preparation

To use the data export function, please request a login for the ftp-server from “THUASNE DEUTSCHLAND GmbH”.

5.27.6.2 Configuration

FTP access must be set up once in BodyLux®. To do this, please select the “Online stores/Thuasne” tab in the “System Settings” window.

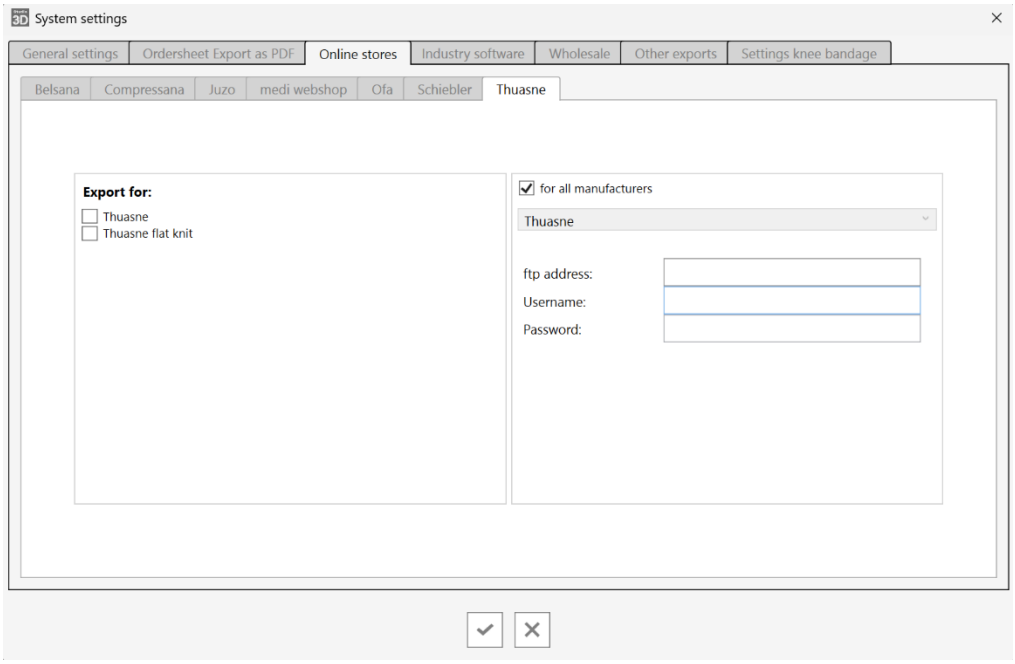


Figure 53 - “System settings” window, “Online stores/Thuasne” tab

The “Export for” selection boxes are used to enable and disable the data export button. If data is to be exported, the corresponding selection box must be checked.

5.27.6.3 Data Export

See chapter 5.27.9.

Attention: The export saves a file on the specified ftp-server. For information on how to import this file into the online shop, please contact “THUASNE DEUTSCHLAND GmbH”.

5.27.7 Export for the Ofa Webshop

5.27.7.1 Configuration

Clicking on the “System settings” button opens the “System settings” window. Clicking on the “Online stores” tab displays the selection of connected shops. Selecting the “Ofa” tab opens a window with the required settings.

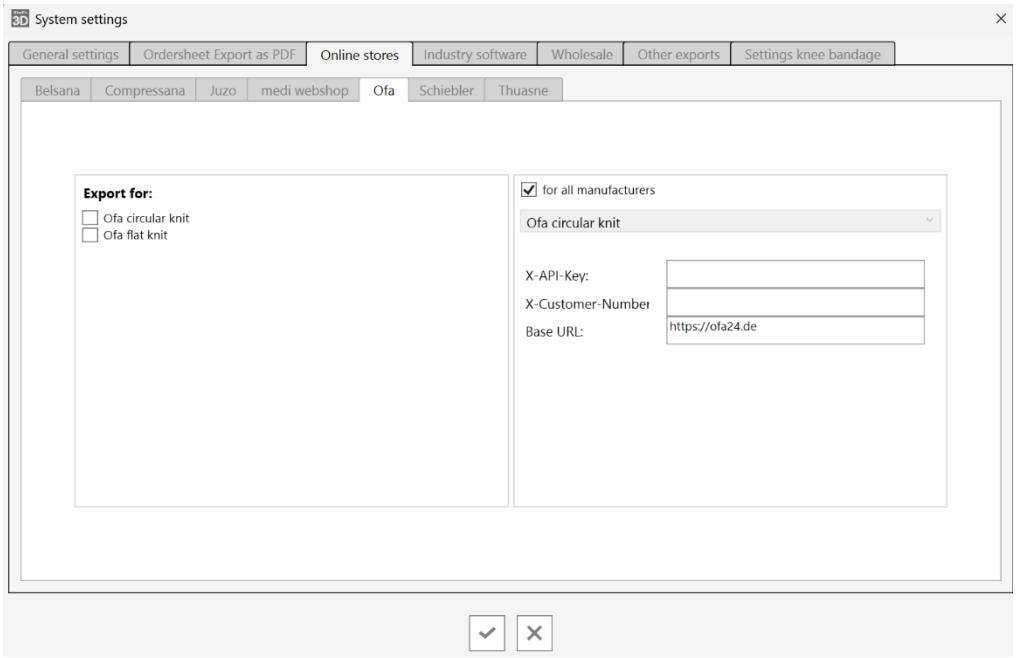


Figure 54 - “System settings” window, “Online stores/Ofa” tab

The left side of the window lists all results pages for which data export to the Ofa webshop has been implemented. The values of the buttons indicate whether the order form should be exported to the Ofa webshop when the “Electronic order” button is pressed.

The login details for the Ofa webshop are provided on the right-hand side of the window. Please request these from the manufacturer Ofa.

5.27.7.2 Data Export

See chapter 5.27.9.

Attention: The export saves a file on the specified ftp-server. Please contact “Ofa Bamberg GmbH” to find out how this file is imported into the online shop.

5.27.8 XML-Data Export

5.27.8.1 Configuration

Clicking on the “System settings” button opens the “System settings” window. Selecting the “Other exports” and “XML data export” tabs activates the window with the settings for XML data export.

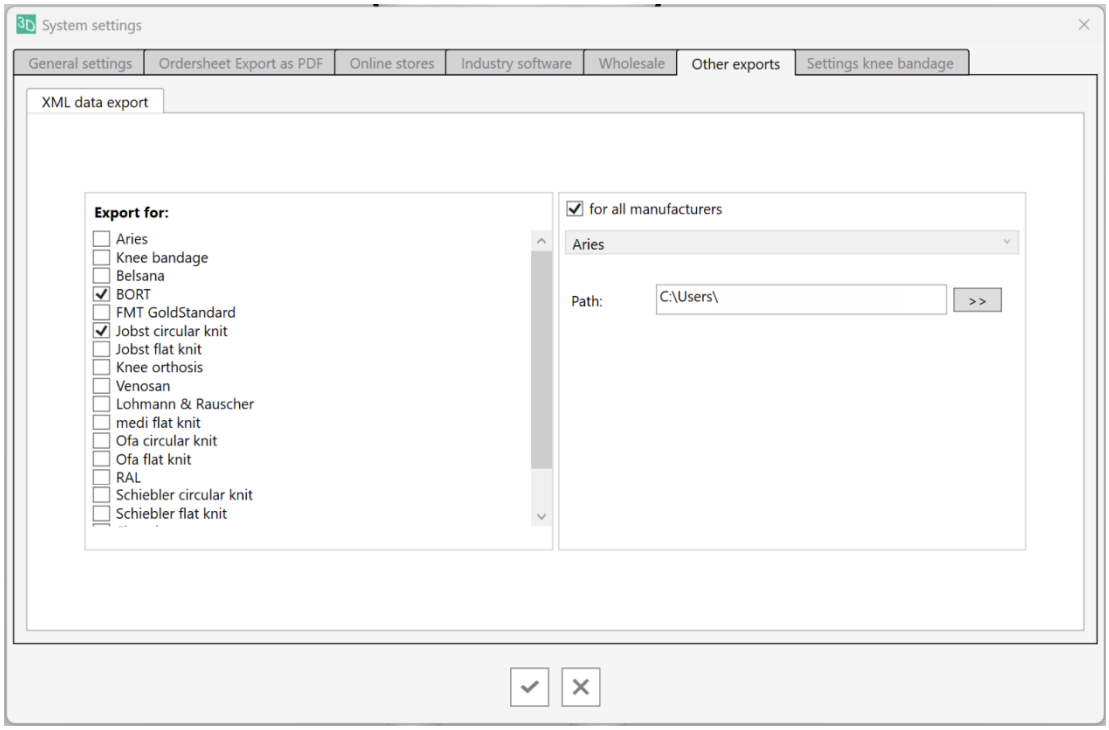


Figure 55 - “System settings” window, “Other exports/XML data export” tab

The left side of the window lists all results pages for which XML data export has been implemented. The values of the buttons indicate whether XML data export should be performed for the order form when the “Electronic order” button is pressed.

The file path in which the data file is stored can be selected in the right-hand part of the window. It is possible to select a separate file path for each results page, or the same file path can be used for all results pages. To do this, click the “For all manufacturers” button. In this case, the data from the selected results page will be used for all results pages.

5.27.8.2 Export

See chapter 5.27.9.

5.27.9 Electronic Data Export

To export data using the “Electronic order” button, proceed as follows:

1. Check whether the export is configured correctly for the results view
2. Select the desired results view as the current view in BodyLux®
3. Click on the “Electronic order” button in the toolbar

All configured data exports are executed. A window is then displayed indicating whether the exports were successful.

5.28 Connection to Industry Software

5.28.1 Communication with Industry Software TopM

5.28.1.1 Preparation

To work with the TopM industry software, please contact “TopM Software GmbH”. They will also provide you with the settings required for communication with the server.

5.28.1.2 Configuration

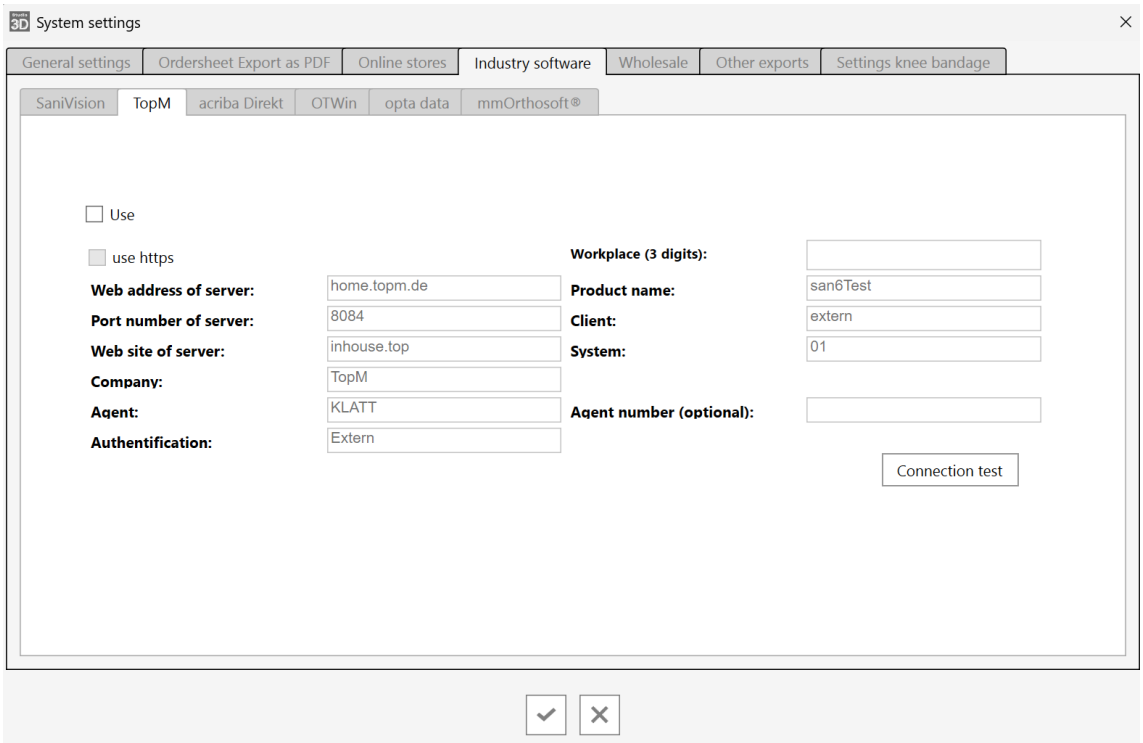


Figure 56 - “System settings” window, “Industry software/TopM” tab

Communication with the server is configured in the “Industry software/TopM” tab of the “System settings” dialog box. It is important to specify a workstation number here. This is required to retrieve a current work order.

After filling in all the necessary fields, the operator can use the “Connection test” button to test whether a connection to TopM can be established.

5.28.1.3 Picking up the current order

BodyLux® can retrieve the current order for the workstation by clicking on the “Retrieve current order” button in the customer selection dialog. If an order is available, it contains customer data such as surname, first name, date of birth, and gender.

The system checks whether a customer with the corresponding data already exists in the customer database. If no matching customer is found, a new customer is created.

The customer found or selected is selected in the customer list.

5.28.1.4 Sending the Order form and XML File

In order to send data to the TopM industry software, the operator must first request an order from TopM.

Clicking on the “Export TopM” button in the “Order view” window transfers the current order sheet and the XML file to TopM.

An order form in PDF format and an XML file are transferred for the selected manufacturer. The format of the XML file is the same as that exported from the medi online shop for configuring medi circular knitting. For all other manufacturers, an XML file is created in the data format defined by ViALUX.

Figure 57 - Button „Export TopM“

Figure 58 - Button „Export TopM“

5.28.2 Communication with Industry Software acriba Direkt

5.28.2.1 Preparation

To work with the industry software acriba Direkt, please contact “acriba Service GmbH” to obtain the access data required for communication.

5.28.2.2 Configuration

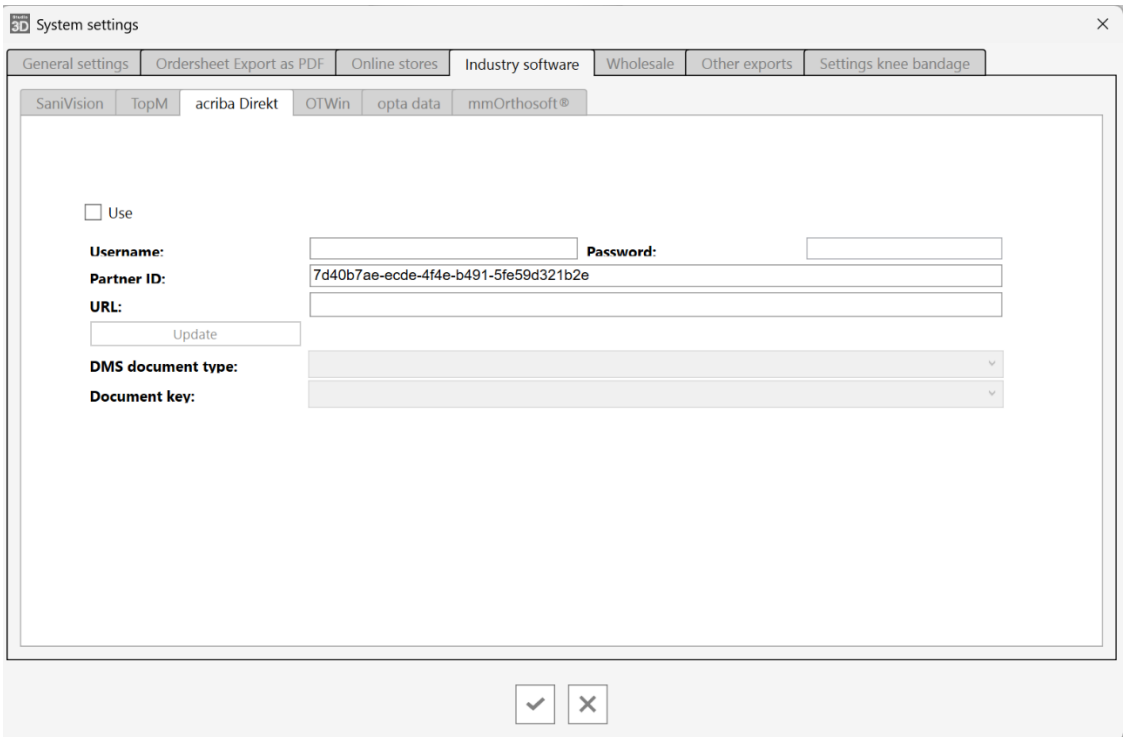


Figure 59 - “System settings” window, “Industry software/acriba Direkt” tab

The settings for communication with the server are configured in the “Industry software/acriba Direct” tab of the System settings dialog box. Username, password, partner ID, and URL must be provided. DMS document type and document key are optional parameters. Whether or not they need to be specified depends on the configuration of the system.

Clicking on the “Update” button determines whether the parameters are necessary for communication. At the same time, the currently available values for these parameters are determined. The user selects the appropriate value from the selection list. If one or more of the parameters are not required, no selection from the selection lists is possible.

5.28.2.3 Determination of Patient ID

The patient ID is determined when the operator selects a patient in the customer selection dialog. If the patient is not found in the industry software or a communication error occurs, an error message is displayed.

If the industry software contains multiple users whose last name, first name, and date of birth match the data of the currently selected patient, all entries found are displayed in a dialog box.

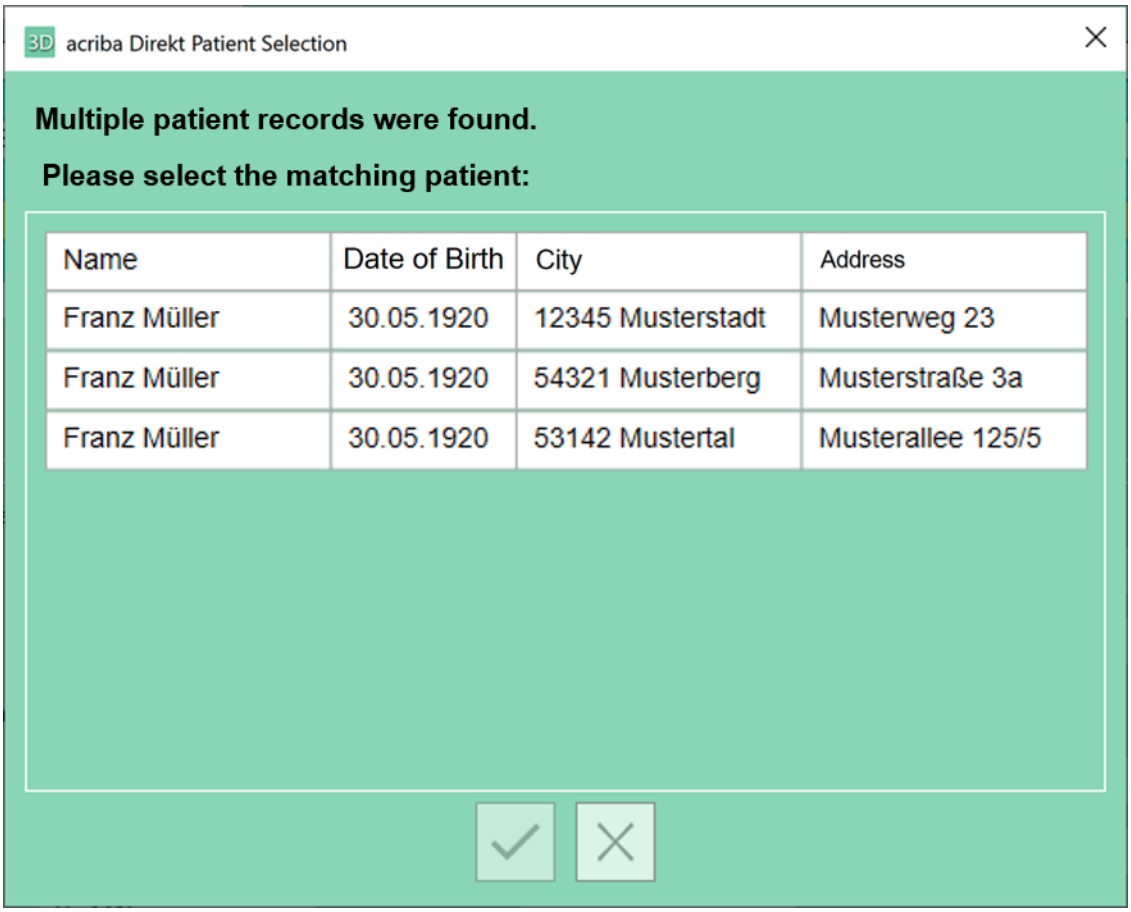


Figure 60 - acriba Direkt Patient Selection

When the user selects a customer and closes the dialog box with OK, the ID of the selected customer is adopted.

5.28.2.4 Sending Order Form and Measurement Data

In order to send data to the acriba Direkt industry software, communication with the acriba Direkt industry software must be activated and the patient must be assigned a patient ID in the industry software.

Clicking on the “Export acriba Direkt” button in the “Order view” window transfers the current order sheet and a list of measuring points to acriba Direkt.

5.28.3 Communication with the SaniVision Measurement Module

5.28.3.1 Configuration

Clicking on the “System settings” button opens the “System settings” window. Selecting the “Industry software” and “SaniVision” tabs opens the window with the settings for exporting to the “Trade Online” module or for measuring data in the SaniVision industry software.

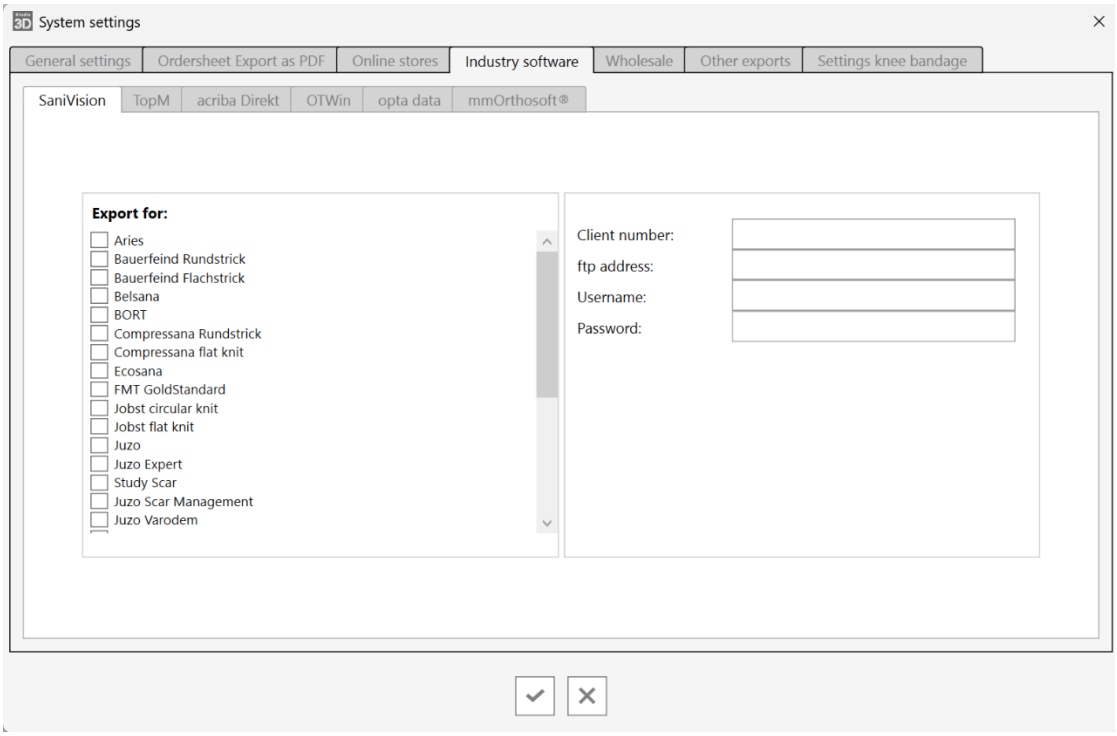


Figure 61 - “System settings” window, “Industry software/SaniVision” tab

The left side of the window lists all results pages for which export for further use in SaniVision has been implemented. The values of the buttons indicate whether the order form should be exported when the “Electronic order” button is pressed.

The login details for the industry software are entered in the right-hand section of the window (the specific details for the company will be provided by SaniVision).

5.28.3.2 Export

See chapter 5.27.9.

5.28.4 Communication with Industry Software OTWin

5.28.4.1 Preparation

To work with the OTWin industry software, please contact “OTEDV Oesterreich GmbH” to obtain the access data required for communication.

5.28.4.2 Configuration

The configuration of communication with the server is carried out in the “Industry software/OTWin” tab of the “System settings” dialog box.

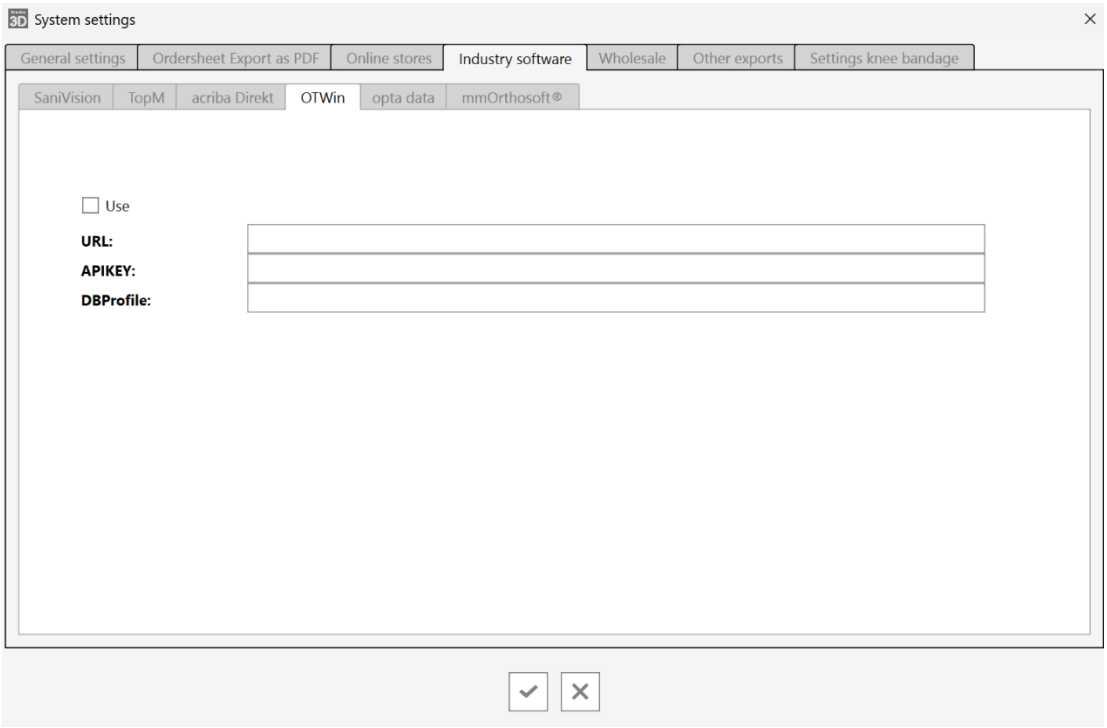


Figure 62 - “System settings” window, “Industry software/OTWin” tab

5.28.4.3 Picking up the Current Orders

BodyLux® can retrieve the currently available orders by clicking on the “Retrieve current order” button in the customer selection dialog. Each order contains customer data such as last name, first name, date of birth, and gender.

If at least one order is present, the following dialog box appears and the operator is asked to select a customer.

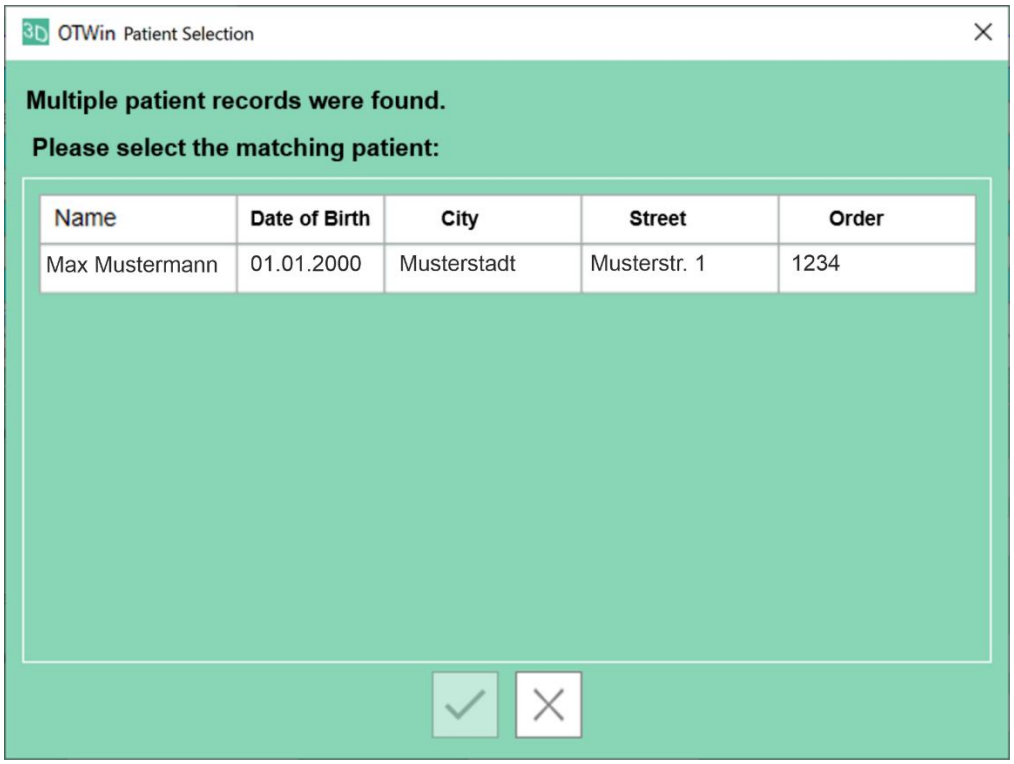


Figure 63 - Window “OTWin Patient Selection”

After selecting a customer, the system checks whether a customer with the corresponding data already exists in the customer database. If no matching customer is found, a new customer is created.

The customer found or selected is selected in the customer list.

5.28.4.4 Sending Order Form and Measurement Data

In order to send data to the OTWin industry software, the operator must first retrieve the current orders and select an order.

Clicking on the “Export OTWin” button in the “Order view” window transfers the current order sheet and the measurement data to OTWin.

Figure 64 - Button „Export OTWin“

Figure 65 - Button „Export OTWin“

5.28.5 Communication with Industry Software opta data

5.28.5.1 Preparation

To work with the industry software opta data, please contact “opta data IT Solutions GmbH” to obtain the access data required for communication.

5.28.5.2 Configuration

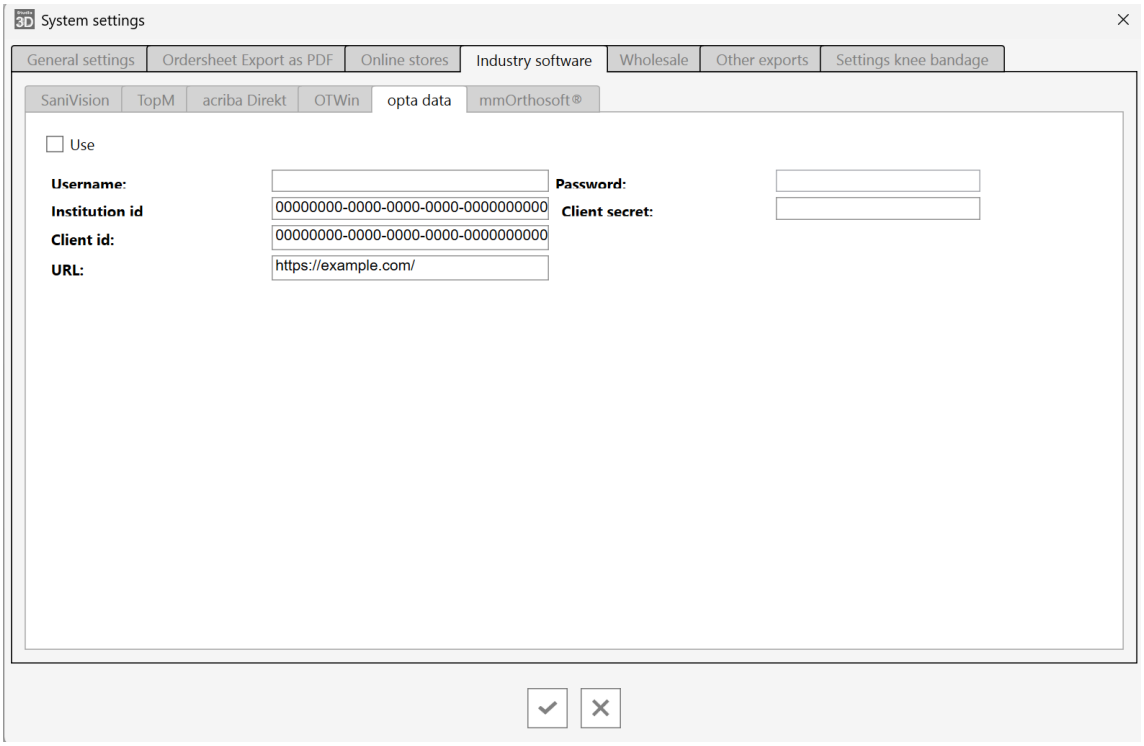


Figure 66 - “System settings” window, “Industry software”/opta data" tab

5.28.5.3 Sending the Order Form

In order for data to be sent to the industry software opta data, the customer must be registered in the customer management system with the corresponding insurance number.

Clicking on the “Export opta data” button in the “Order view” window transfers the current order sheet as a PDF file to opta data.

If the button is not active even though the connection has been established, then the customer could not be found in the opta data database.

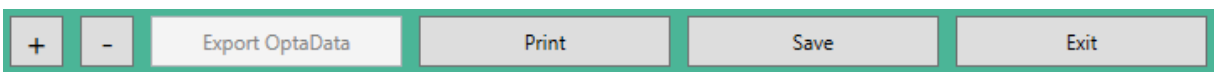


Figure 67 - Button „Export opta data: The customer was not found“

Figure 68 - Button „Export opta data: The customer was not found“

Once the connection has been established and the customer has been found, the button is activated and the file can be exported.

Figure 69 - Button "Export opta data: The customer was found“

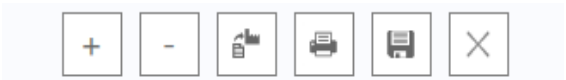


Figure 70 - Button "Export opta data: The customer was found“

5.28.6 Communication with Industry Software mmOrthosoft®

5.28.6.1 Preparation

To work with the industry software mmOrthosoft®, please contact “Michael Martin GmbH & Co. KG” to obtain the access data required for communication.

5.28.6.2 Configuration

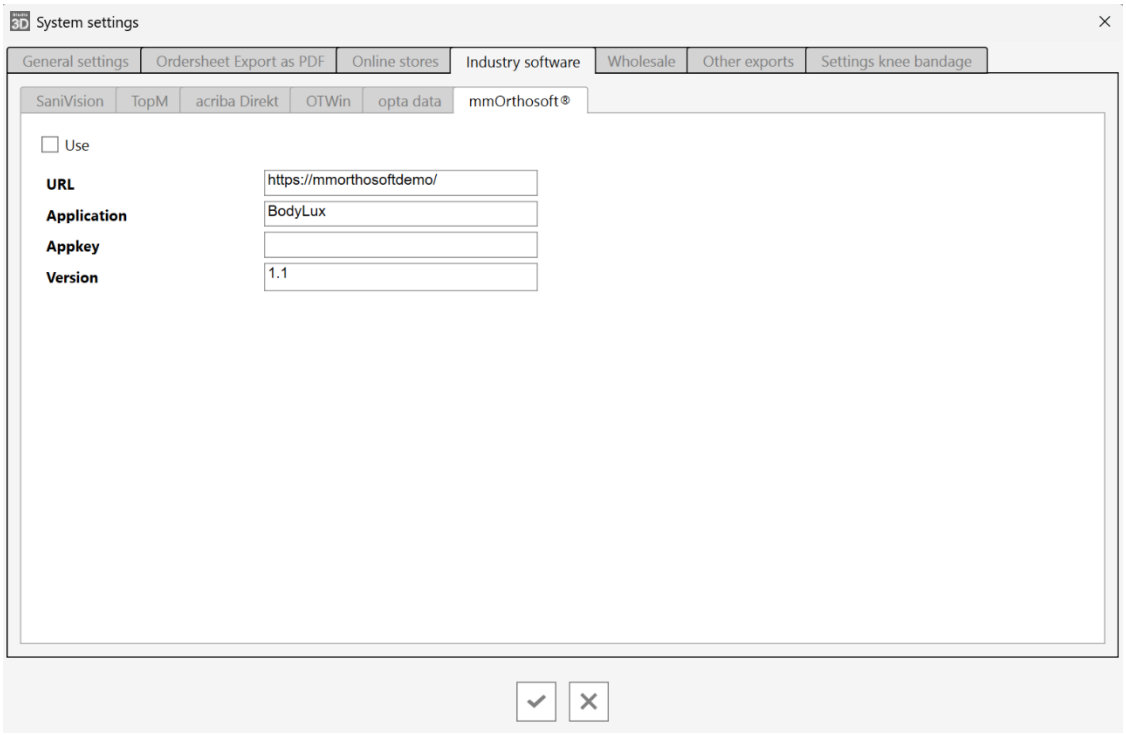


Figure 71 - “System settings” window, “Industry software/mmOrthosoft®” tab

The settings for communication with the server are configured in the “Industry software/mmOrthosoft®” tab of the System settings dialog box. The URL, application, app key, and version must be specified.

Clicking on the confirmation button determines the currently available values for these parameters.

5.28.6.3 Determination of Patient ID

The patient ID is determined when the operator selects a patient in the customer selection dialog. If the patient is not found in the industry software or a communication error occurs, an error message is displayed.

If the industry software contains multiple users whose last name, first name, and date of birth match the data of the currently selected patient, all entries found are displayed in a dialog box.

When the user selects a customer and closes the dialog box with OK, the ID of the selected customer is adopted.

5.28.6.4 Sending Order Form and Measurement Data

In order to send data to the mmOrthosoft® industry software, communication with the mmOrthosoft® industry software must be activated and the patient must be assigned a patient ID in the industry software.

Clicking on the “mmOrthosoft®” button in the “Order view” window transfers the current order sheet and a list of measurement points to mmOrthosoft®.

Figure 72 - Button "Export mmOrthosoft®“

Figure 73 - Button "Export mmOrthosoft®“

5.29 Connection to Wholesale

5.29.1 Communication with OTG Handels GmbH

5.29.1.1 Preparation

To work with OTG wholesale, please contact “OTG Handels GmbH” to obtain the access data required for communication.

5.29.1.2 Configuration

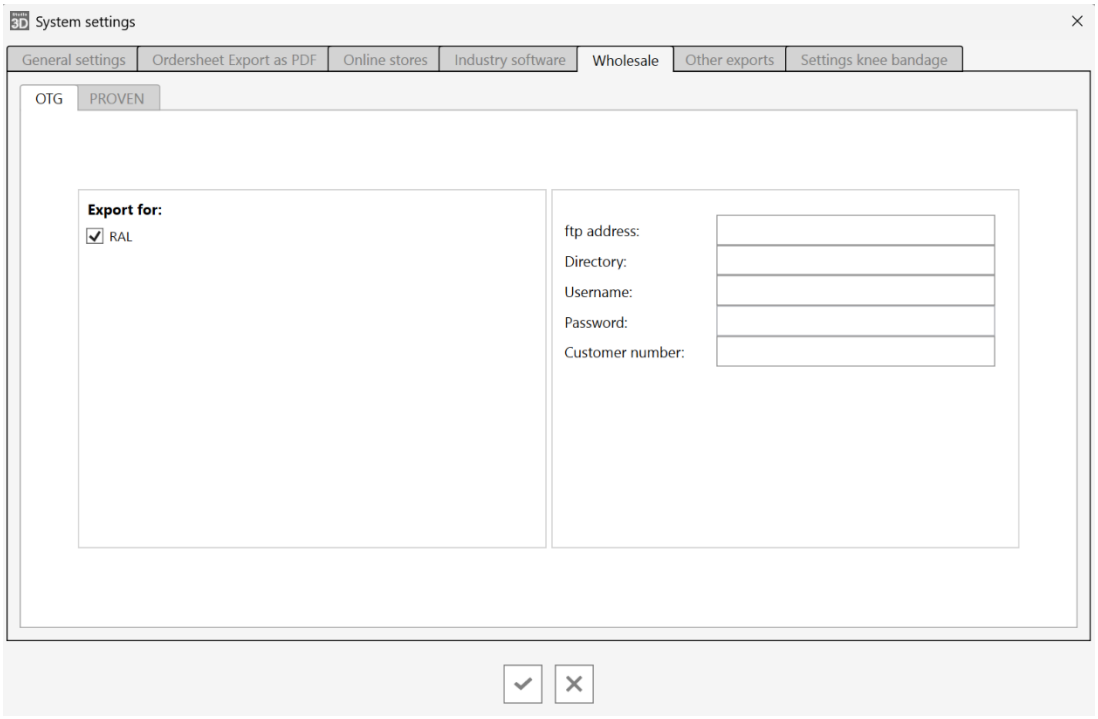


Figure 74 - “System settings” window, “Wholesale/OTG” tab

The settings for communication with the server are configured in the “Wholesale/OTG” tab of the “System settings” dialog box. The ftp-address, directory, user name, password, and customer number must be specified.

The left side of the window lists all results pages for which data export to OTG Handels GmbH has been implemented. The values of the buttons indicate whether the order form should be exported to OTG Handels GmbH when the “Electronic order” button is pressed.

The login details for OTG Handels GmbH are provided in the right-hand section of the window. Please request these from OTG Handels GmbH.

5.29.1.3 Data Export

See chapter 5.27.9

Attention: The export saves a file on the specified ftp-server. Please contact OTG Handels GmbH to find out how this file is imported into the wholesale system.

Clicking on the confirmation button determines the currently available values for these parameters.

5.29.2 Communication with PROVEN GmbH

5.29.2.1 Configuration

Clicking on the “System settings” button opens the “System settings” window. Clicking on the “Wholesale” tab displays the selection of dealers. Selecting the “PROVEN” tab opens a window with the required settings.

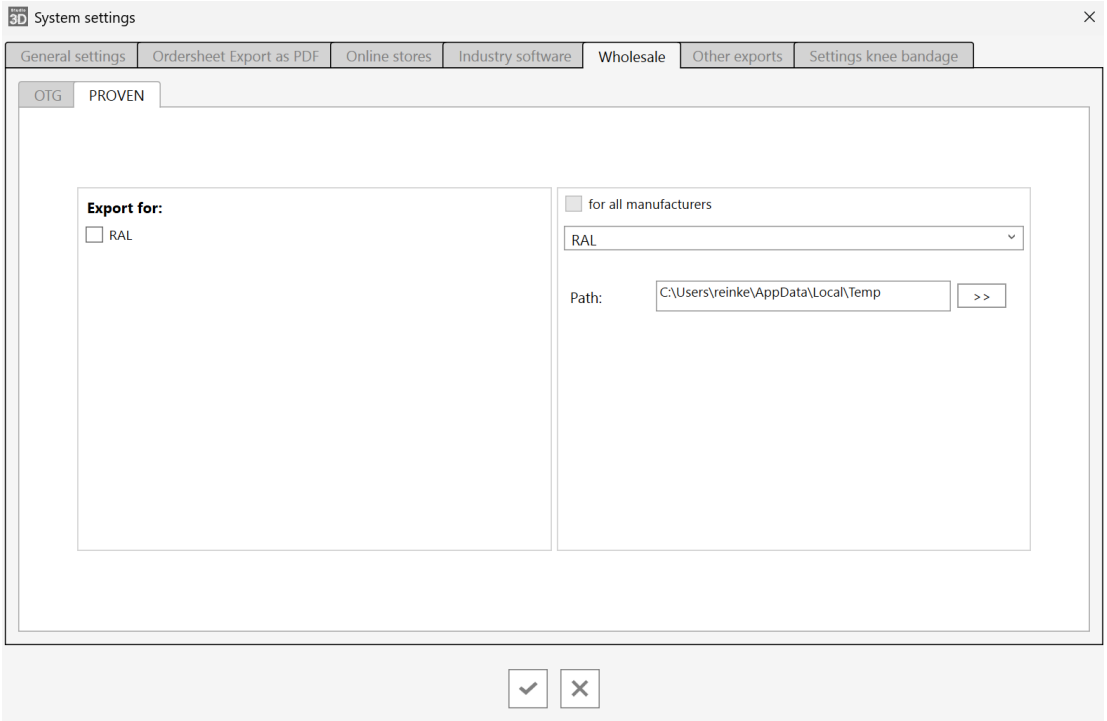


Figure 75 - “System Settings” window, “Wholesale/PROVEN” tab

The left side of the window lists all results pages for which data export to PROVEN GmbH has been implemented. The values of the buttons indicate whether the order form should be exported to PROVEN GmbH when the “Electronic order” button is pressed.

On the right side of the window, the operator can select the file path where the file with the measurements will be stored. It is possible to select a separate file path for each results page, but the same file path can also be used for all results pages. To do this, click the “For all manufacturers” button. In this case, the data from the selected results page will be applied to all results pages.

5.29.2.2 Export

See chapter 5.27.9.

5.30 Fitting a Knee Bandage

To measure a knee bandage, select “Knee bandage/orthosis” in the “Supply area” window before starting the scan. After scanning, select the “Knee bandage” tab in the main view. A control panel is displayed on the right-hand side below the measurement table.

Figure 76 - Control elements measurement knee bandage

In this case, the operator can choose between custom-made and standard products. In addition, the patient's leg can be selected.

5.30.1 Custom-made Product

For custom-made products, dimensions C, D, E, F, and F' are calculated. The lengths C, D, F, and F' are specified as the difference from the length of dimension E. All dimensions can be moved individually.

5.30.2 Standard Product

For a standard product, dimensions D, E, and F are calculated. Dimensions D and F have defined distances from dimension E. Only dimension E can be moved. After the new value is accepted, dimensions D and F are recalculated.

5.30.3 Adjusting the Distances

The distances between D and E and between F and E are set in the “Knee bandage settings” tab of the “System settings” window. They can also be adjusted after scanning for the current measurement.

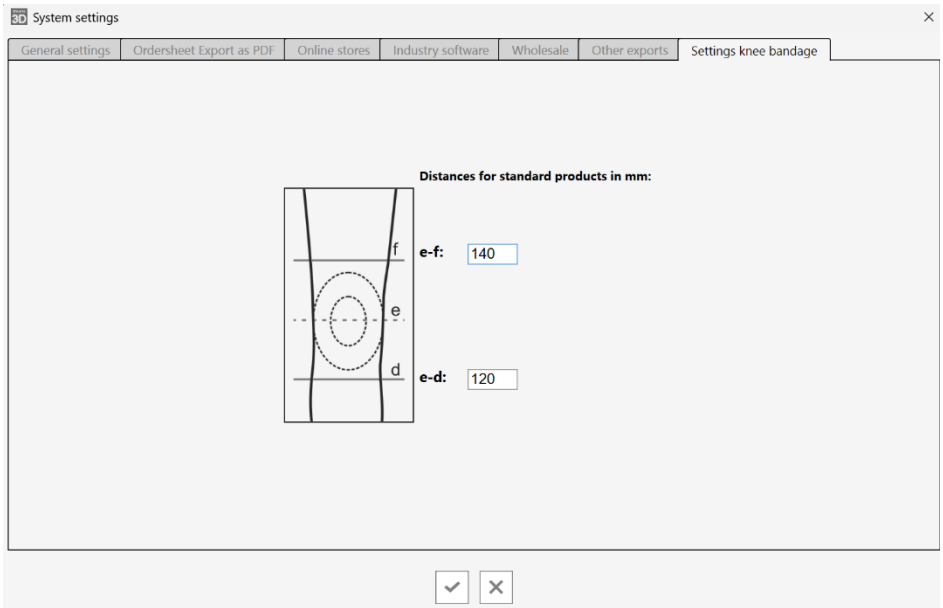


Figure 77 - “System settings” window, “Settings knee bandage” tab

5.31 Fitting a Knee Orthosis

To measure a knee orthosis, select “Knee bandage/orthosis” in the “Supply area” window before starting the scan. After scanning, select the “Knee orthosis” tab in the main view. A control panel is displayed on the right-hand side below the measurement table.

Figure 78 - Control element measurement knee orthosis

The patient's leg can be selected here. Dimensions C, D, E, F, and ‘F’ are calculated. Lengths C, D, F, and F' are specified as the difference from the length of dimension E. All dimensions can be moved.

5.32 Fitting and Configuring a Medical Adaptive Compression System

To measure a medically adaptive compression system, select one of the following entries in the “Supply area” window before starting the scanning process:

- Pantyhose (AT)
- Thigh stockings (AG/AF)
- Below-knee stockings (AD)

The following table shows how the choice of care area affects the provision of bandages.:

Supply area	Supply available from
AT	Thigh
AG/AF	Knee
AD	Lower leg

After clicking on the “Order form” button in the toolbar, a configuration dialog box opens. Here the operator can configure the desired bandages.

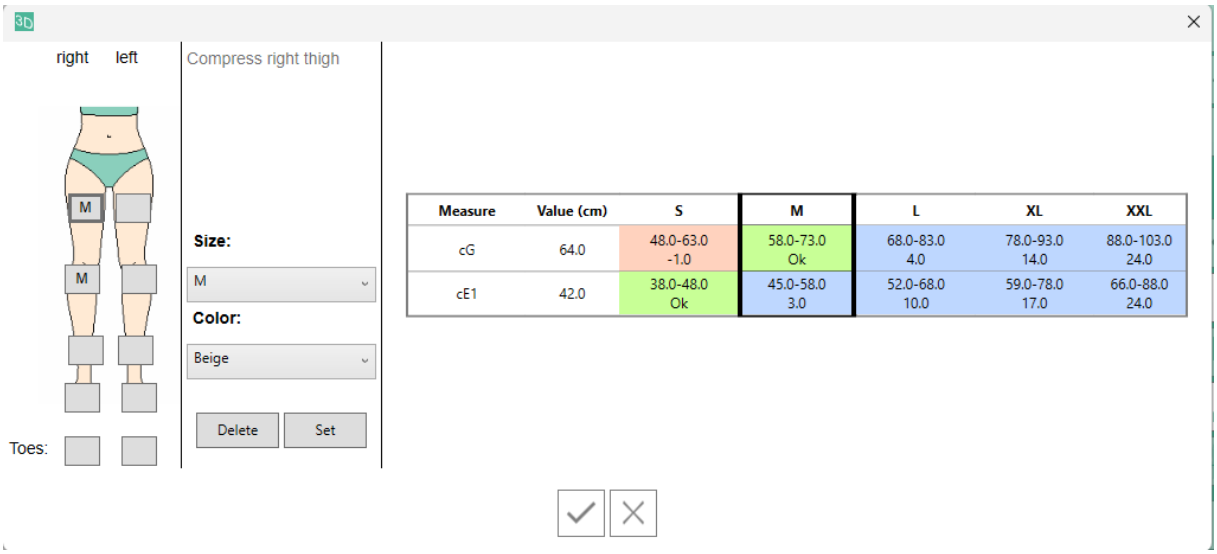


Figure 79 - Configuration dialog for a medical adaptive compression system

The dialogue consists of three sections.

The available compresses are displayed in the left-hand area. The currently selected compress is indicated by a thick frame around the button. Configured compresses can be identified by the fact that the selected size is displayed in the corresponding button.

The available sizes for the selected compress are displayed on the right-hand side.

The selected compress is configured in the middle section. To select a compress, set the size and color for this compress. To delete a compress, use the “Delete” button.

When the configuration dialog is closed with the “OK” button, the configurations made are transferred to the order form.

5.33 Anonymization of Patient Data

Customer data can be anonymized for PDF order forms and data exports to the medi webshop. First and last names are replaced with a unique customer number, which can be specified in the customer selection dialog. The name is replaced in the file content. In addition, the customer number is used to form the file name.

5.33.1 Configuration

Select the “General settings/Options” tab and check the “Replace customer name with ID” box in the “Privacy” section. Please note that patient data will only be anonymized if a customer number is specified for the selected patient.

5.34 Displaying the User Manual

Clicking on the “BodyLux® plugin user manual” button opens a window displaying the current user manual for the BodyLux® plugin.

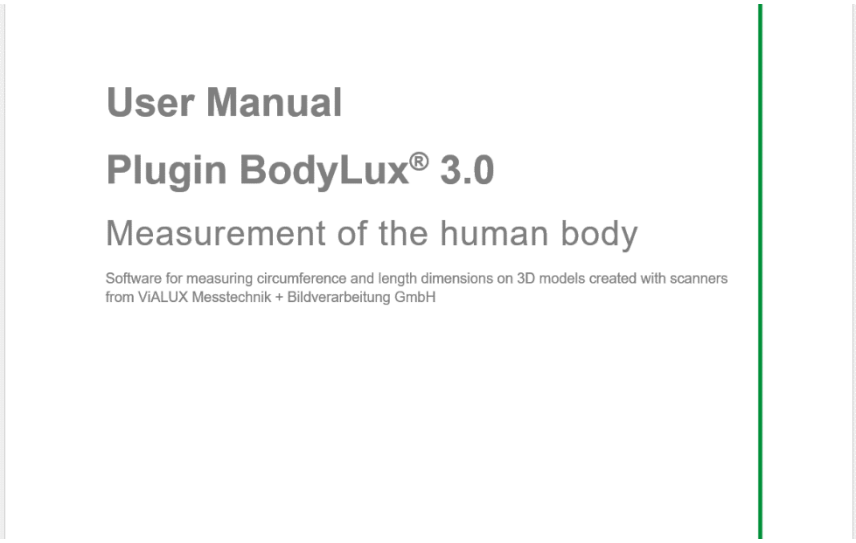


Figure 80 - Window for displaying the user manual

5.35 Creating a Report for the Currently Selected Customer

A report is a document consisting of a series of screen contents such as the customer's 3D model, the size chart of one or more manufacturers, and the supply history.

To create a report, perform the following steps:

- Settings (selection of the storage directory and the medical supply store logo)
- Collecting screen content (3D model, size chart, history)

- Creating the report from the collected images

5.35.1 Preparation

In the “Options” tab of the “System settings” window, there is a “Report” section. In this section, the operator can specify the storage directory for the created report files and select the logo of the medical supply store.

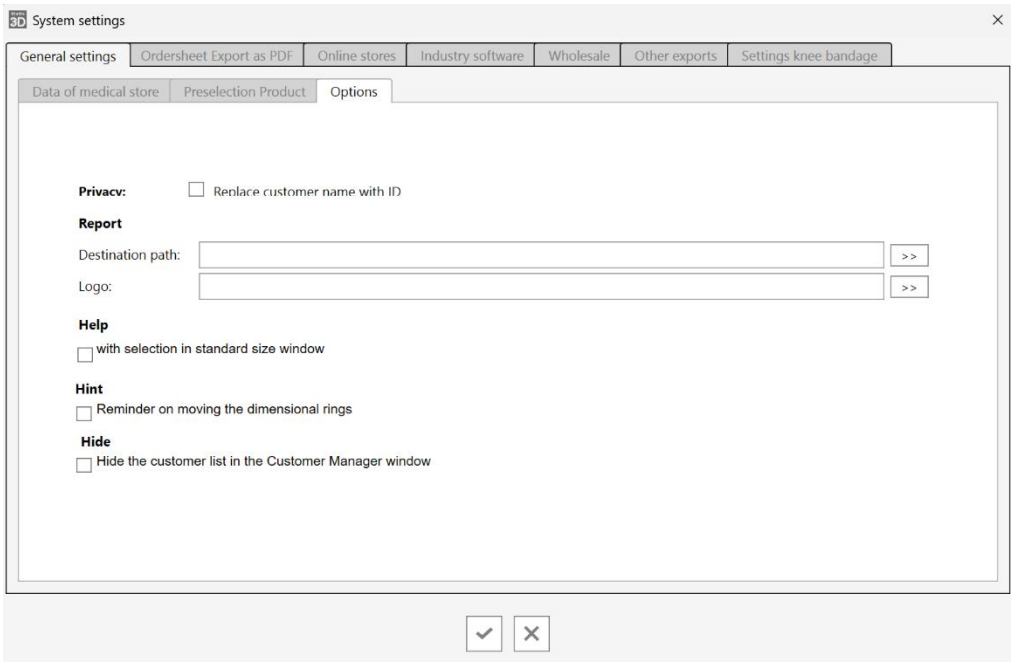


Figure 81 - “System settings” window, “General settings/Options” tab

5.35.2 Collecting Screen Content

The screen contents of the following windows can be collected for the report:

- Window for selecting size (see chapter 4.4.5)
- Time history (see chapter 4.4.7)
- 3D model (see chapter 4.3.2.1) when using the list of control elements (see chapter 4.3.3).

After successfully adding screen content, a success message is displayed.

Note: The collected images will be deleted when:

- a new patient or another measurement is selected,
- a new measurement is started,
- a report has been created,
- Studio 3D is closed.

5.35.3 Creating a Report from the Collected Screen Contents

After clicking on the “Create report” button, the collected images are compiled into a PDF document. This consists of:

- a page with information about the patient and the medical supply store
- the image of the 3D model, if added
- Size charts, if added
- the time history, if added.

5.36 Configuring Size Selection for Series Products

5.36.1 Favorite Product

The medical supply store has the option of selecting a favorite product for each stocking manufacturer that offers series products. This favorite product is then preselected as a product in the manufacturer's size selection window.

Attention: No product favorites are set in learning mode.

To select a product favorite, proceed as follows:

- Click on the “System settings” button in the toolbar
- In the “System settings” window, select the “General settings/ Preselection Product” tab
- Select a product favorite from the “Favorite” selection window
- Close the dialog box by clicking the “OK” button

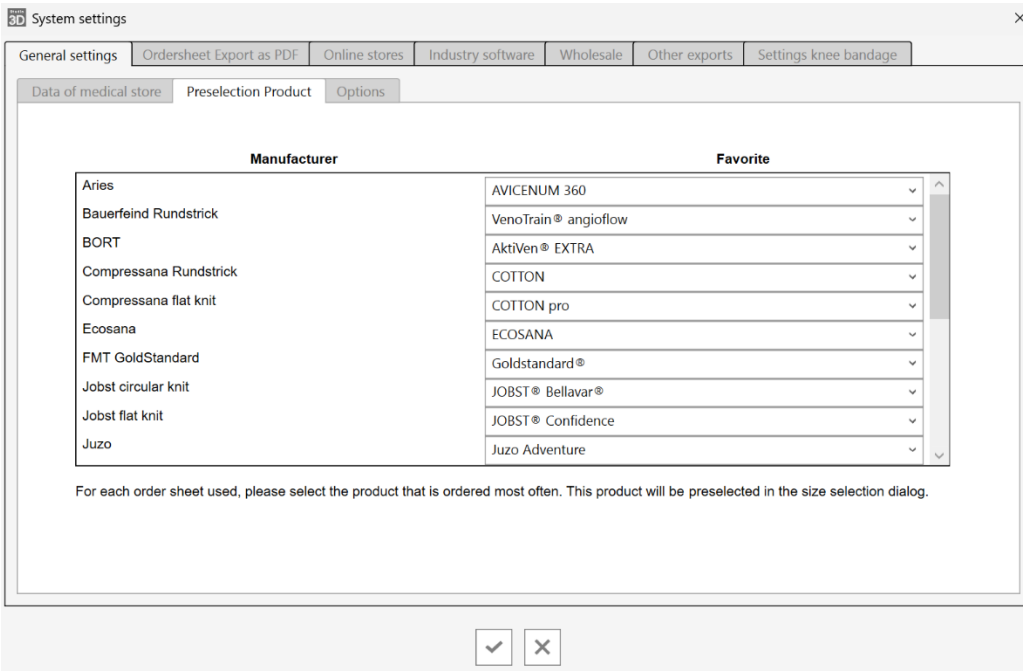


Figure 82 - “System settings” window, “General settings/Preselection Product” tab

5.36.2 Order Type

The last actively selected order type (e.g., AD, AG, AT) is noted in the program and preset the next time the size selection dialog box is opened. “Actively selected” means that the user has deliberately set an order type (e.g., changed the preset order type).

5.36.3 Learning Mode

In order to make new users aware that they should not simply accept the default settings made by the software, a learning mode has been added to the size selection dialog.

If this mode is active, all size selection windows must be set to active before the data can be transferred to the order form.

5.36.3.1 Activating Learning Mode

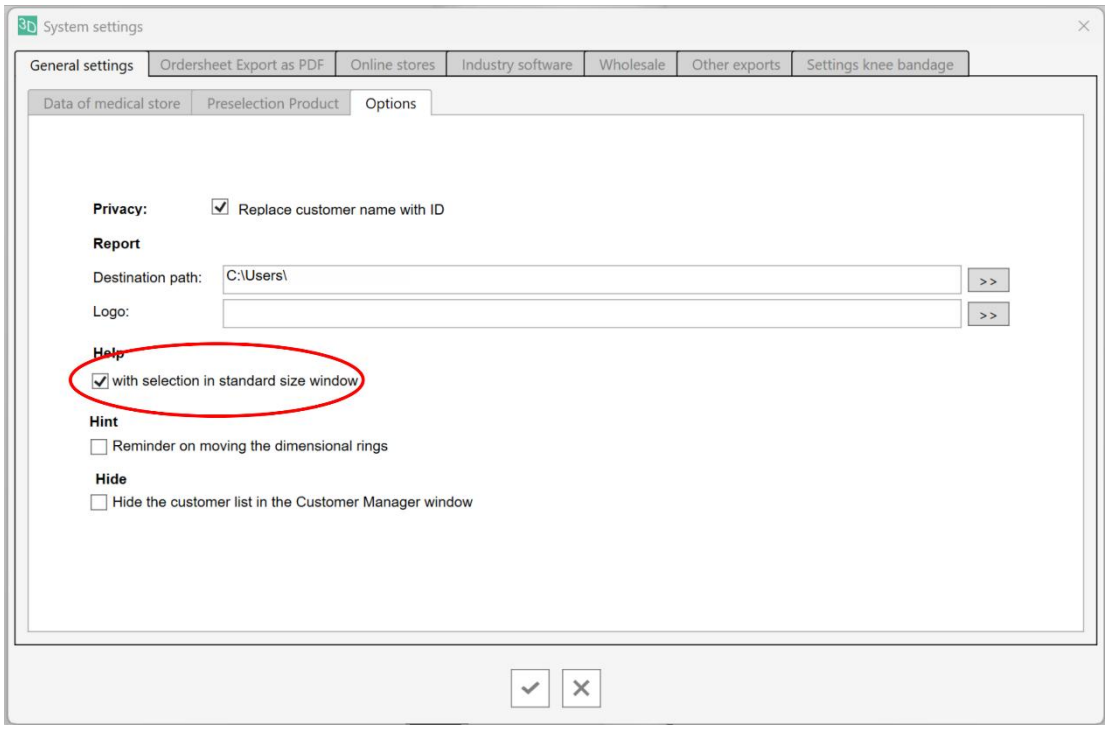


Figure 83 - Learning mode in the “General settings/Options” tab

To activate learning mode, proceed as follows:

- Click on the “System settings” button in the toolbar
- In the “System settings” window, select the “General settings/Options” tab
- Select the option “Help with selection in the standard size dialog.”

5.36.3.2 Using the Learning Mode

When learning mode is active, the size selection window for standard products looks like this:

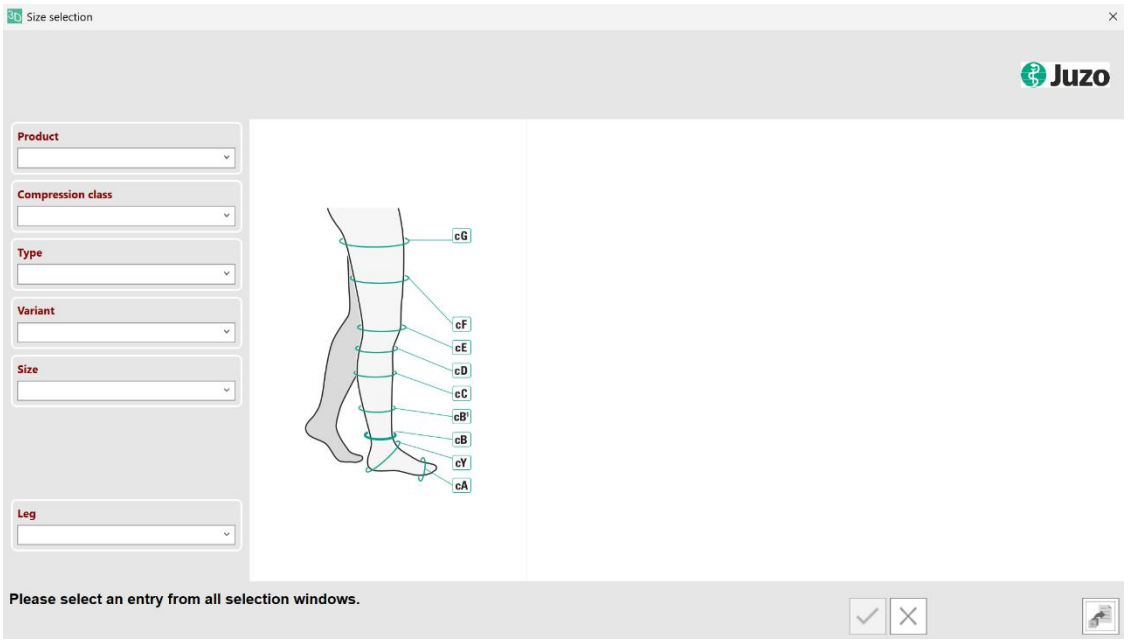


Figure 84 - Size selection window in learning mode

Selection windows without a set value are displayed in red. As long as at least one value still needs to be selected, a corresponding message is displayed in the lower part of the window and the OK button is not active.

If a selection is made from a selection window, the name of the selection window turns black and values are entered in the selection fields that depend on the selected value (e.g., compression class and type depend on the product).

One possible selection order would be:

- Product
- Type
- Variant
- Leg
- Size
- Compression Class

Attention: A value table can only be displayed if the following settings have been made:

- Product
- Type
- Variant

5.37 Management of Data of Medical Store Customer Numbers

Each branch of a medical supply store can be assigned its own customer number by a stocking manufacturer.

To set the customer number, proceed as follows:

- Click on the “System settings” button in the toolbar
- In the “System settings” window, select the “General settings/Data of medical store” tab
- In the selected tab, click on the “Customer numbers” button

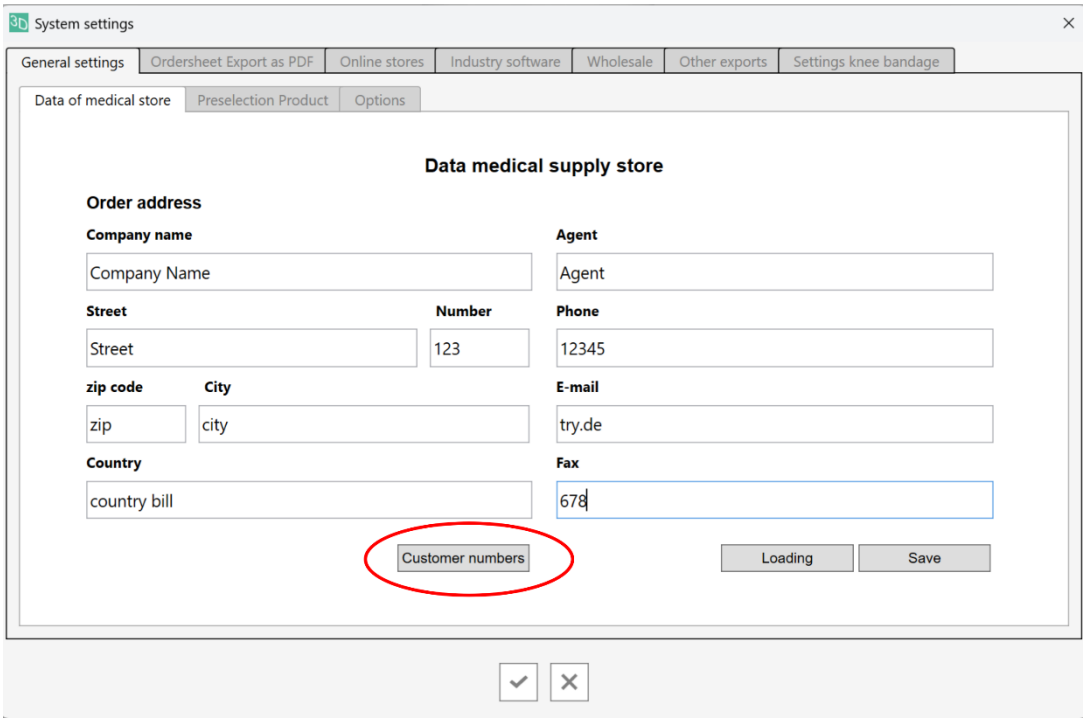


Figure 85 - “Customer numbers” button in the “General settings/Data of medical store” tab

The “Customer numbers” window appears. In this window, the customer numbers of the branch are assigned to the currently active hosiery manufacturers.

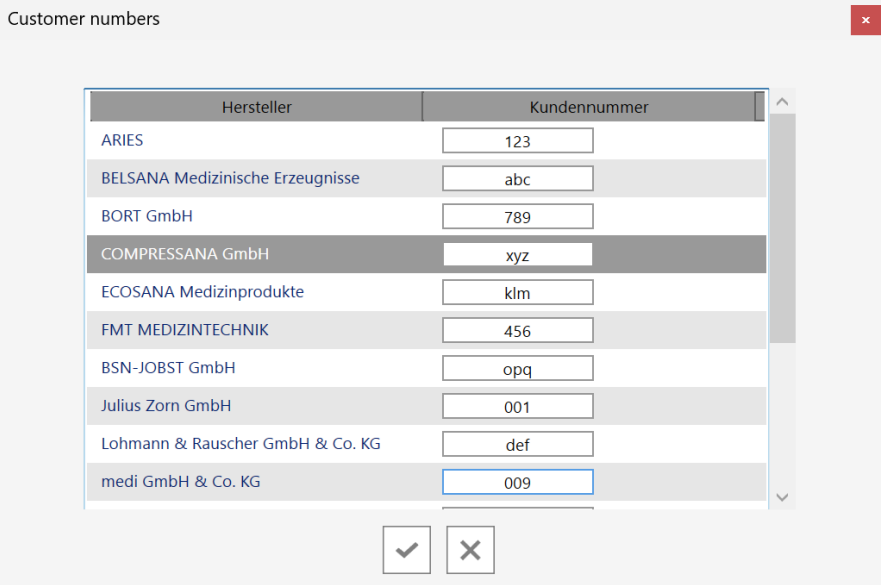


Figure 86 - “Customer numbers” window

The customer number of the medical supply store branch is automatically entered on the order forms when necessary.

6 Operating Instructions

6.1 Maximum Permissible Weight

Only persons weighing a maximum of 180 kg can be measured.

6.2 Clothing

Please note that BodyLux® takes measurements on the surface of the skin. **The person being measured should not wear any clothing in the area to be measured (exception: underwear). Any clothing worn must be as tight-fitting as possible, must not be too dark, and must not have any contrasting patterns**.

6.3 Measurement for Calf Stockings (AD)

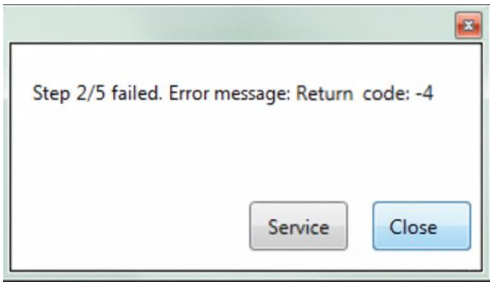
For smaller individuals, determining the measurements for calf-length stockings is more reliable when thigh-length stockings (AG) are measured.

7 Service Reports

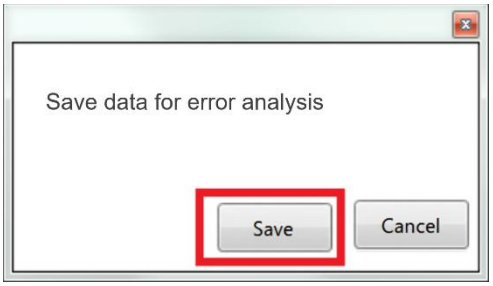
If an error occurs during the measurement process, a service report can be generated. All relevant files are automatically compiled and saved in a *.zip file. This file can then be sent to 3dsupport@vialux.de along with a description of the problem.

To create a service report, proceed as follows:

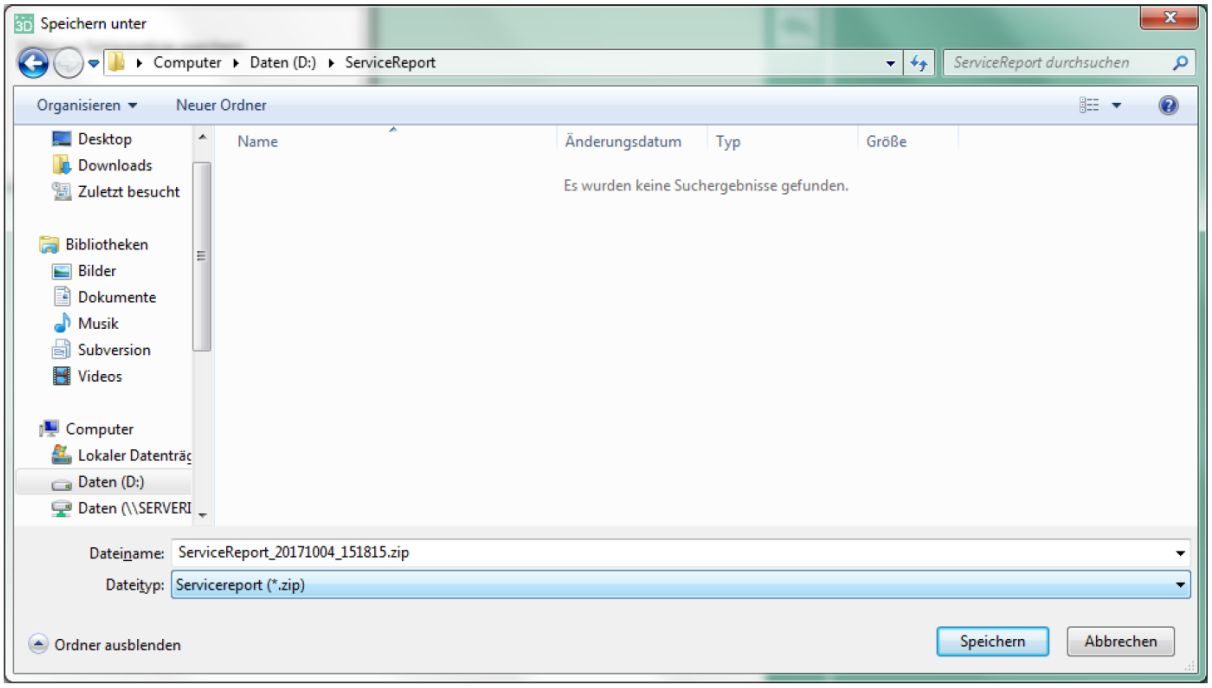
1. Click on the “Service” button in the error window.



2. Another window will open. In this window, click on the “Save” button.



3. A dialog box entitled "Save As" will open. Within this dialog box, the file name under which the service report is to be saved must be selected, and the option labeled "Save" must be selected.



4. A message is displayed when all data for the service report has been saved.

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