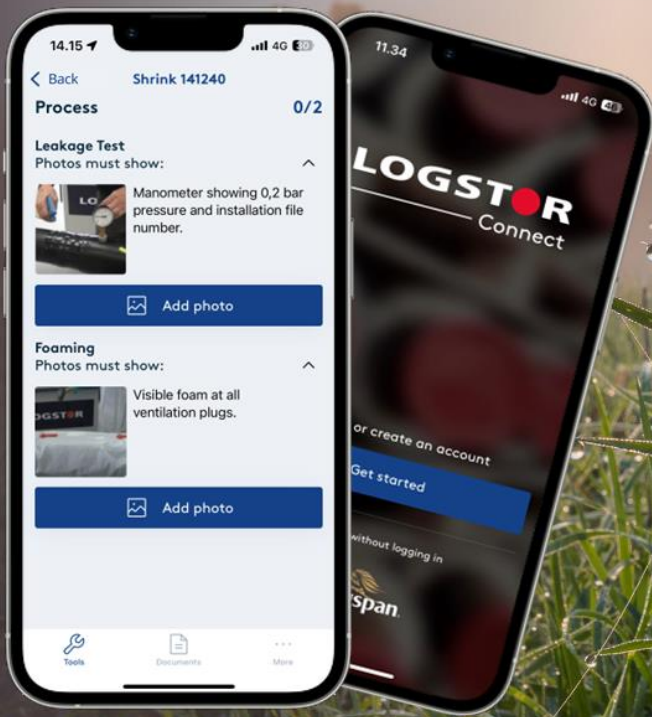


# LOGSTOR ShrinkMaster and LOGSTOR InstallationPortal



Kingspan LOGSTOR

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## UPDATE REGARDING LOGSTOR PRODUCT PROGRAM

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It's once again time for new updates.

Below, please find our Product info No. 5 - 2023 with following updates:

- Introduction to LOGSTOR ShrinkMaster
- WeldMaster Portal renamed to LOGSTOR InstallationPortal

Should you have any questions, please contact your usual LOGSTOR contact person or the undersigned.

Best regards  
Kingspan LOGSTOR

**Peter Jorsal**

Product & Academy Manager



## LOGSTOR ShrinkMaster and LOGSTOR InstallationPortal

We are now ready to launch a new solution on the LOGSTOR Connect App:

### LOGSTOR ShrinkMaster

ShrinkMaster is a tool for approval and documentation of shrinkable joint installations via your smartphone.

Because of this we will rename the **LOGSTOR WeldMaster Portal** to **LOGSTOR InstallationPortal**.

The **LOGSTOR InstallationPortal** will from now on include documentation of weld joints as well as documentation of shrinkable joints.

Very soon we will introduce more language layers (DK, DE, PL, NL & FR) to the LOGSTOR Connect (ShrinkMaster and WeldMaster).



### Teaser video

On the following link you can see a short teaser video about ShrinkMaster:  
[https://youtu.be/henZQvTSobM?si=Vw\\_bko1wZUYVOh-6](https://youtu.be/henZQvTSobM?si=Vw_bko1wZUYVOh-6)

## Customer and contractor benefits

- **Detailed documentation of joint installation**
  - Date, time, installer credentials, contractor credentials, project information, GPS-location, joint type, joint dimension, isolation type, photo documentation, manual checks, resistance measurements, and comments are saved during installation
- **Digitized documentation with easy access**
  - No more written reports needed to be stored in a physical location, as they are now available in the InstallationPortal - securely stored online
- **More transparency**
  - As a customer you will gain detailed information about the installation of the joints installed in your pipe network
- **Easier workflow for supervision**
  - By having all documentation available in one place, it will be easier to supervise your projects
- **Clear overview of installations and locations**
  - Through a map feature in the InstallationPortal you will have an easy map overview of your shrinkable joints' GPS-location
- **Contractors can document their installations**
  - As a contractor you can generate detailed reports of your work for your customers
- **Removal of manual processes**
  - All documentation is automatically available in the InstallationPortal after upload and can be generated as a report automatically

## ShrinkMaster

LOGSTOR ShrinkMaster is a tool for utilities, contractors, installers, advisors, and supervisors, who want better documentation of shrinkable joint installations. The tool enables users to capture the installation process with photo documentation and resistance measurements for alarm wire and insulation.

After upload in the LOGSTOR ShrinkMaster tool via a smartphone, the documentation will be available in the InstallationPortal, where it can be extracted as reports. Unlike today's manual processes, our product provides comprehensive documentation for every single installation, eliminates written manual administrative processes, stores reports with easy user access, and makes it simple for our customers to supervise quality assurance.

### Registration of project information

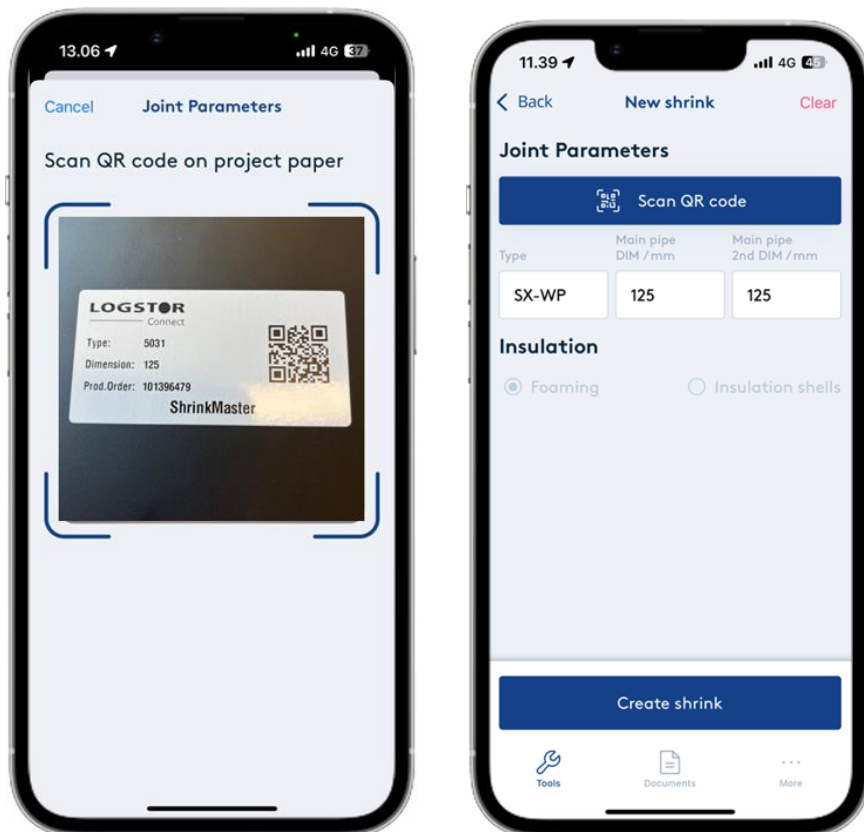
The first thing to do for the installer is to fill out project information:  
Customer ID and Project ID

## Shrinkable joint parameters

All standard LOGSTOR shrinkable joints are available for installation in LOGSTOR ShrinkMaster.

We have started adding a label with a QR code on the packing foil of SX-WPJoint, SXB-WPJoint, SXT-WPJoint, BXJoint and BXSJoint. By scanning this QR code you can automatically register the correct information about the joint type and dimensions in the tool, but also the production order ID will be saved in our database, whereby we can track the joint to be installed on batch level if necessary.

You will start to see the label with the QR code when we have delivered our stock of joints without the label.



LOGSTOR ShrinkMaster can also be used if the QR code is damaged or unavailable. Information about the type of joint and dimensions is in this case inserted manually by clicking the input fields.



### Start the process

When all data has been entered, the installer will start the process and a 6-digit file number for the installation will be created for the installation and metadata will be saved for the file (i.e. date, time, gps location).

The file number shall be written on the casing of the pre-insulated pipe and fittings as this is the traceability of the joint installation.

## Manual checks and measurements

Before the file can be uploaded to the InstallationPortal, the installer must carry out four manual checks and two measurements:

Manual Checks:

- Alarm test
- Leakage test
- Foam inspection
- Visual inspection

Measurements:

- Alarm wire resistance
- Insulation resistance

The measured alarm wire resistance and insulation resistance shall be entered. If the measurement is approved, the input field will display a green outline and the text: "Approved according to LOGSTOR accept criteria".

If the measurement is not approved, the input field will display a red outline and the text: "Not approved according to LOGSTOR accept criteria".

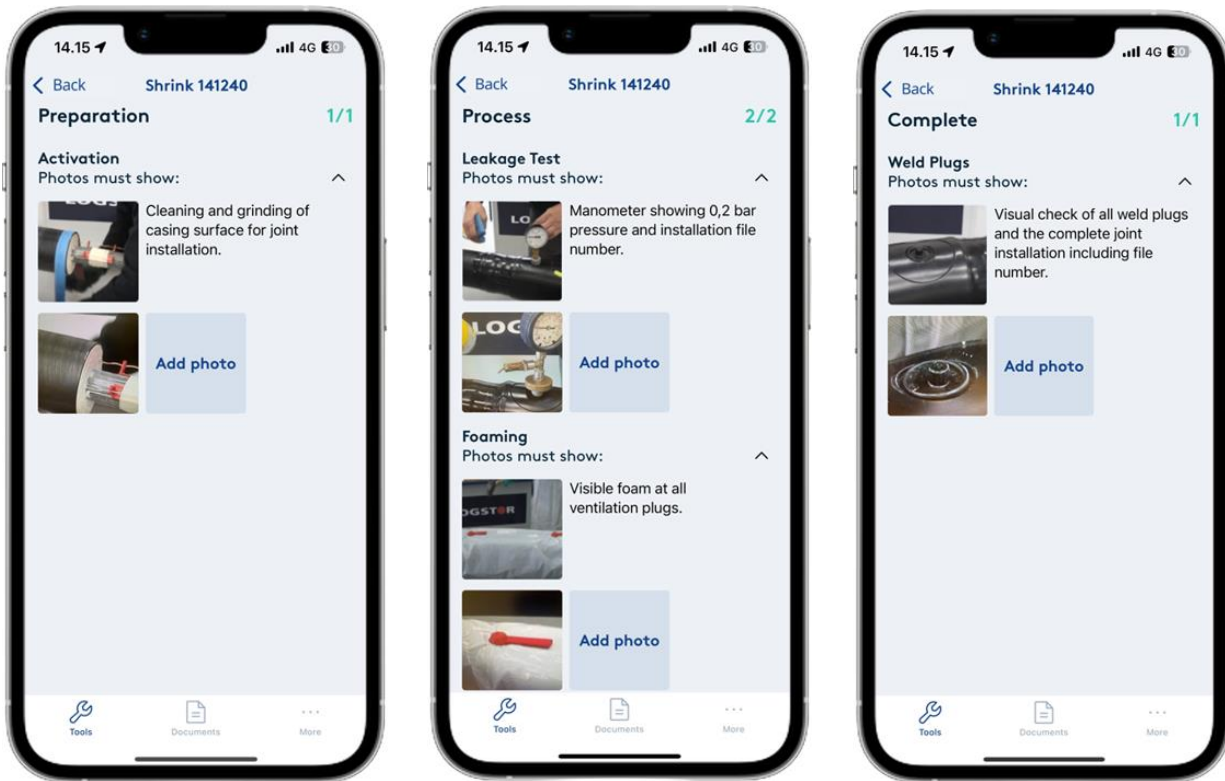
Alarm test and leakage test can be set to "not done" if not required for the specific joint.

## Installation phases

When installing a shrink joint, the installation process must be documented with photos of three phases. The photos shall document that installation instructions are followed:

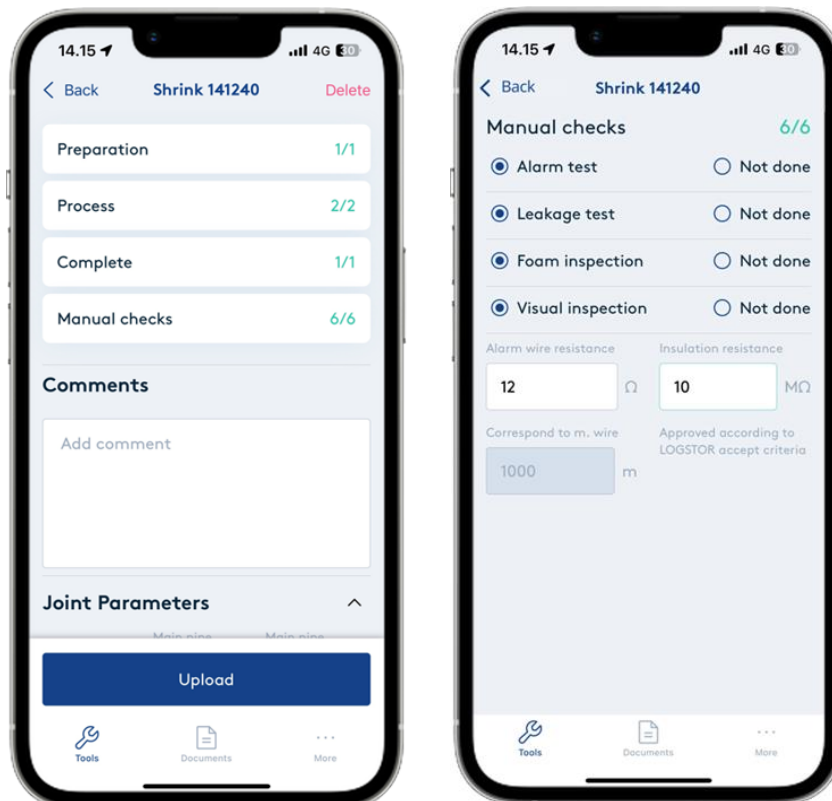
- Preparation
- Process
- Complete

Below, see examples of photo documentation of these phases (the photo documentation requirements will be different for different type of joints):



### Upload to the installation portal

When all manual checks have been done and mandatory photos have been added for the installation phases, the file for the joint is ready to be uploaded to the InstallationPortal.



## LOGSTOR InstallationPortal

The **LOGSTOR InstallationPortal** will from now on include documentation on weld joints as well as documentation on shrinkable joints.

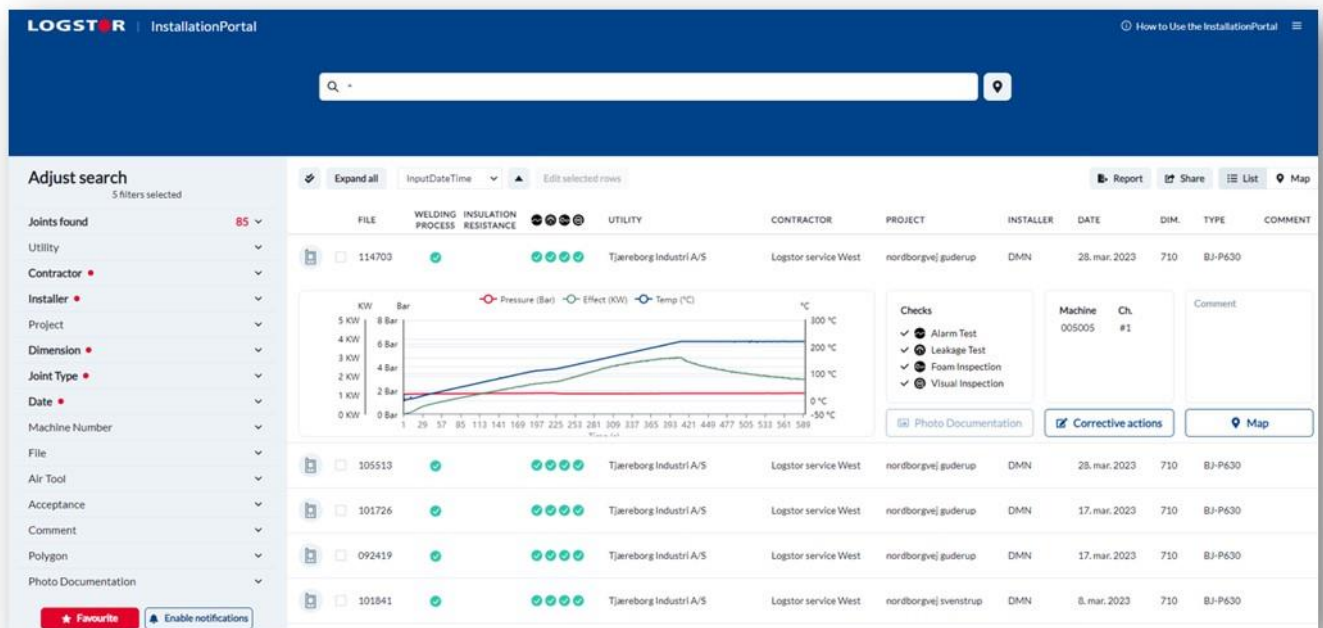
The InstallationPortal gives you the possibility of seeing the documentation for all casing joints installed with the PDA or LOGSTOR Connect app via a smartphone.

The process documentation for shrinkable and welded casing joints differs and therefore information in the InstallationPortal also differs in some instances.

It is possible to search for projects, towns/utilities, installer, contractor, file number of specific joints, joint type, approved/not approved joints, polygon/map etc.

Based on a chosen search a report can be generated.

### Example of a search on weld joints



Green marking on Welding Process means welding process performed according to LOGSTOR Accept criteria. Red marking and welding process is not performed according to LOGSTOR accept criteria.

If all manual checks are done all markings will be green. If manual checks are not done the Alarm Test and Leakage Test will be blank and Foam Inspection and Visual Inspection will be red.



## Example of a search on a shrink joint

The screenshot displays the LOGSTOR InstallationPortal interface. On the left, there is a sidebar titled 'Adjust search' with 1 filter selected. The main area shows a table of search results for shrink joints. The table has the following columns: FILE, WELDING PROCESS, INSULATION RESISTANCE, UTILITY, PROJECT, INSTALLER, DATE, DIM., TYPE, and COMMENT. The first row shows file 095518 with a green dot in the INSULATION RESISTANCE column. Below the table, there are three phase images labeled 'Preparation phase 1', 'Process phase 2', and 'Complete phase 1'. To the right, there are checklists for 'Checks' (Alarm Test, Leakage Test, Foam Inspection, Visual Inspection) and 'Alarm wire resistance' (12 Ω, Insulation resistance 88 MΩ). Buttons for 'Photo Documentation', 'Corrective actions', and 'Map' are also visible.

Green marking on Insulation Resistance means Insulation Resistance performed according to LOGSTOR Accept criterias. Red marking and Insulation Resistance is not performed according to LOGSTOR accept criterias.

## Login

Login is via [www.installation.logstor.com](http://www.installation.logstor.com).

A username and password are needed.

All data is protected, and any kind of access requires username and password.

## Price

App License, yearly fee included 1 user:

- WeldMaster, Euro 885
- ShrinkMaster, Euro 430
- Combined, Euro 1099

Extra users, Euro 40 per user per year

## **Documentation on our homepage**

The following will be available on our home page in Danish, English and German language.

- User Manual for ShrinkMaster tool in LOGSTOR Connect
- User Manual for LOGSTOR Installation Portal