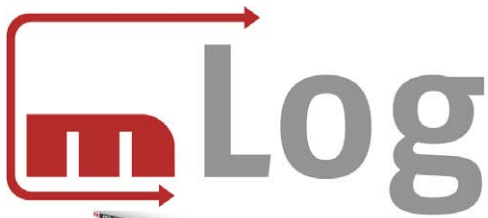


# Data logging mLog

Data management



Data logging mLog



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EXTRUSION

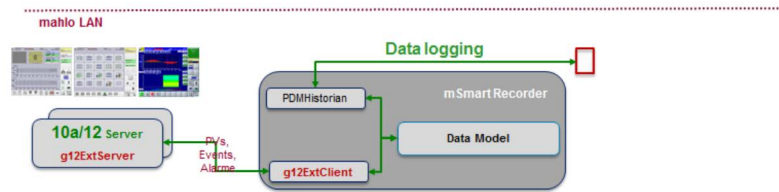
## MLOG



mLog is the name of the new tool from Mahlo for data management. The system records data of a production line, relevant for the process, and stores them. This lets the user create clearly arranged and meaningful reports.

Through mLog logging, the products (webs) are enriched with the measured information of the sensors – they become an information carrier, a "Smart Product". Throughout the entire production process, it becomes clear when something was treated where, in what quality and with what efficiency.

### Concept

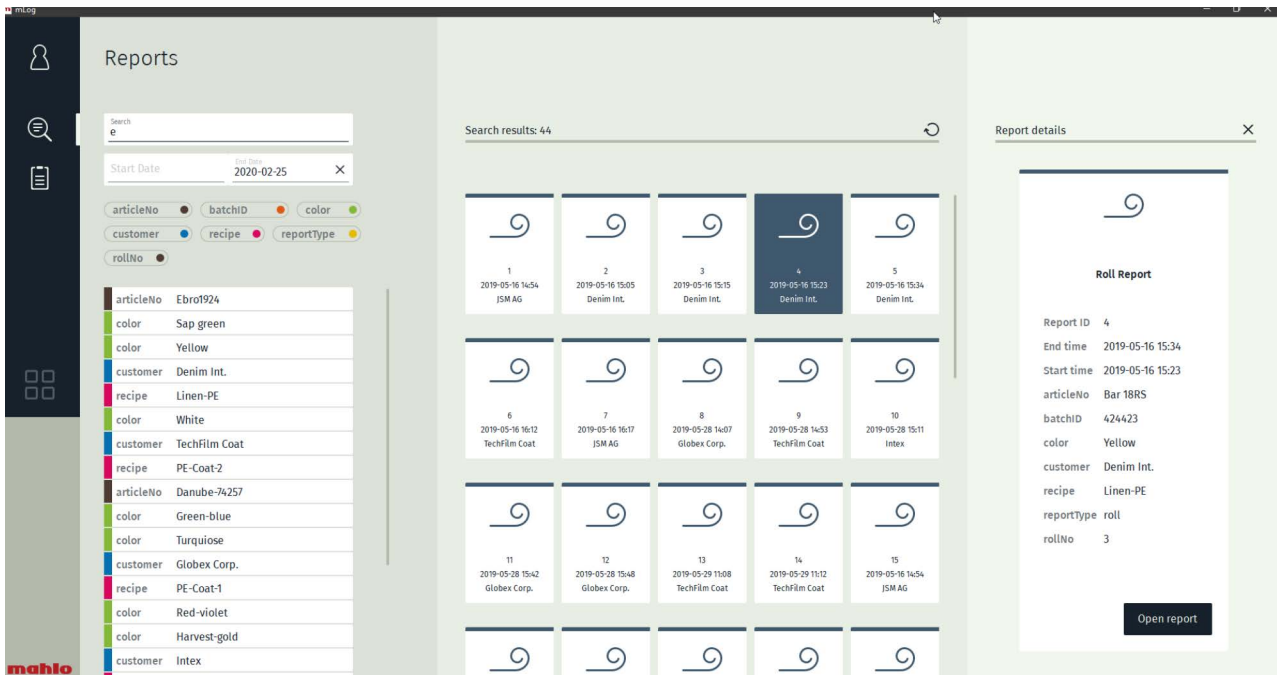


With the mLog, the mSmart recorder services run on any IPC within the Mahlo machine network. No connection to the customer's network is therefore required.

The data generated can be utilised in different ways. The user can send the report to the printer, save it or send it to an e-mail recipient. Opening with a standard PDF program (e.g. Adobe Acrobat) is also possible.

### Search hit list

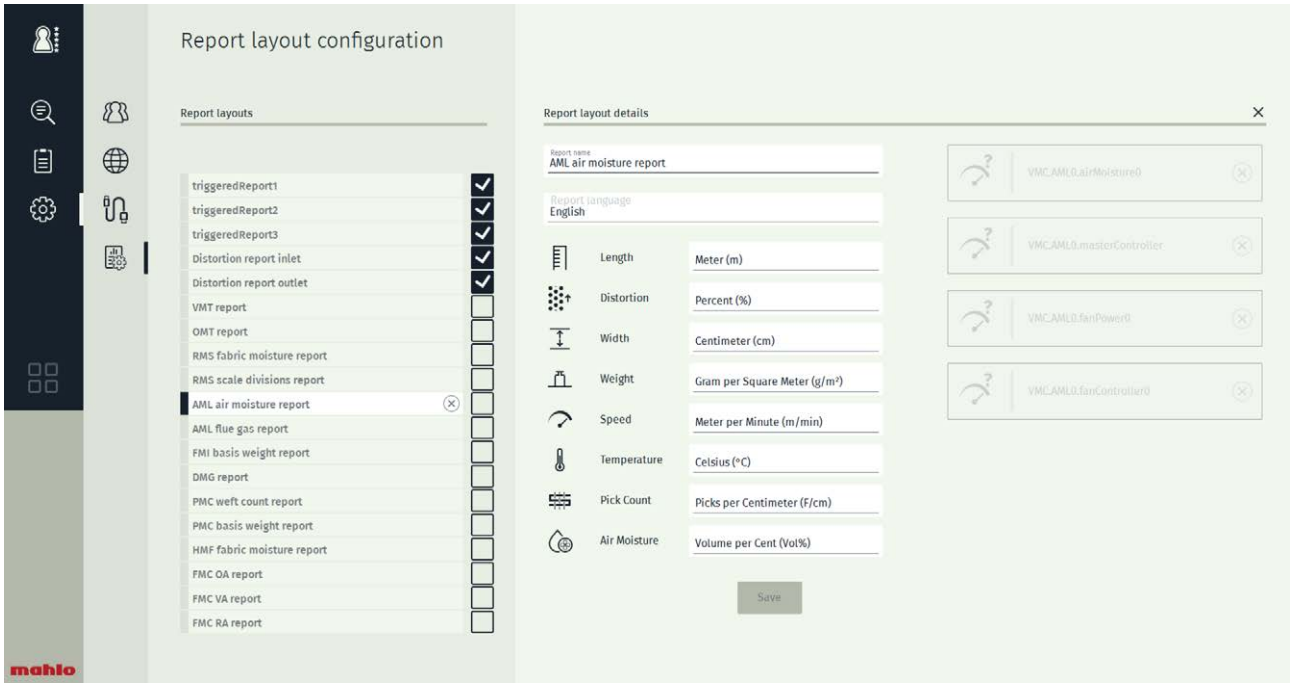
Suggestions from existing records are displayed as soon as something is entered in the search field. A single click on a search hit in the results list opens the detail information of the report. This allows the user to quickly verify if this is the requested data.



*Find it quickly: Hit list already at the first character in the search*

### Report layout configuration

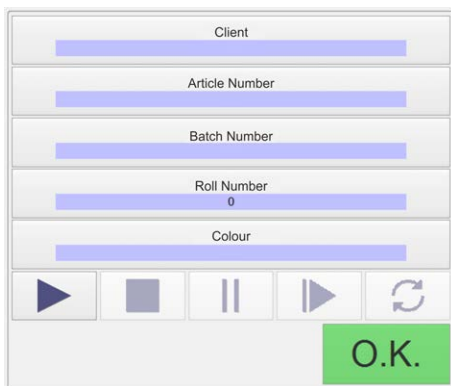
Here the report layout can be configured, an existing view selected or a new one created. This template contains the elements that are logged and displayed in a PDF file. Several reports can be generated simultaneously.



Individual: Configure your own protocols

The user also has the option of creating identical reports in different languages, for example, if a different language is required for the customer than for his own documentation. The user defines which logs are currently actively recorded.

### Features



User Interface at the Mahlo device

- **Interface to different Mahlo devices (e.g. Orthopac FMC, Optipac VMC, etc.)**

Various Mahlo devices of a production line can be coupled to the mLog.

- **User Interface for maintaining and managing report data**  
Here users can enter important information such as customer name, item number or batch. Later this information will contribute to the search.

- **Selection of automatic report triggers**

The user sets when a report is generated automatically. For example, after every 200 m of product passage.

- **Report generation**

Here the user makes his individual reports settings such as language or units.

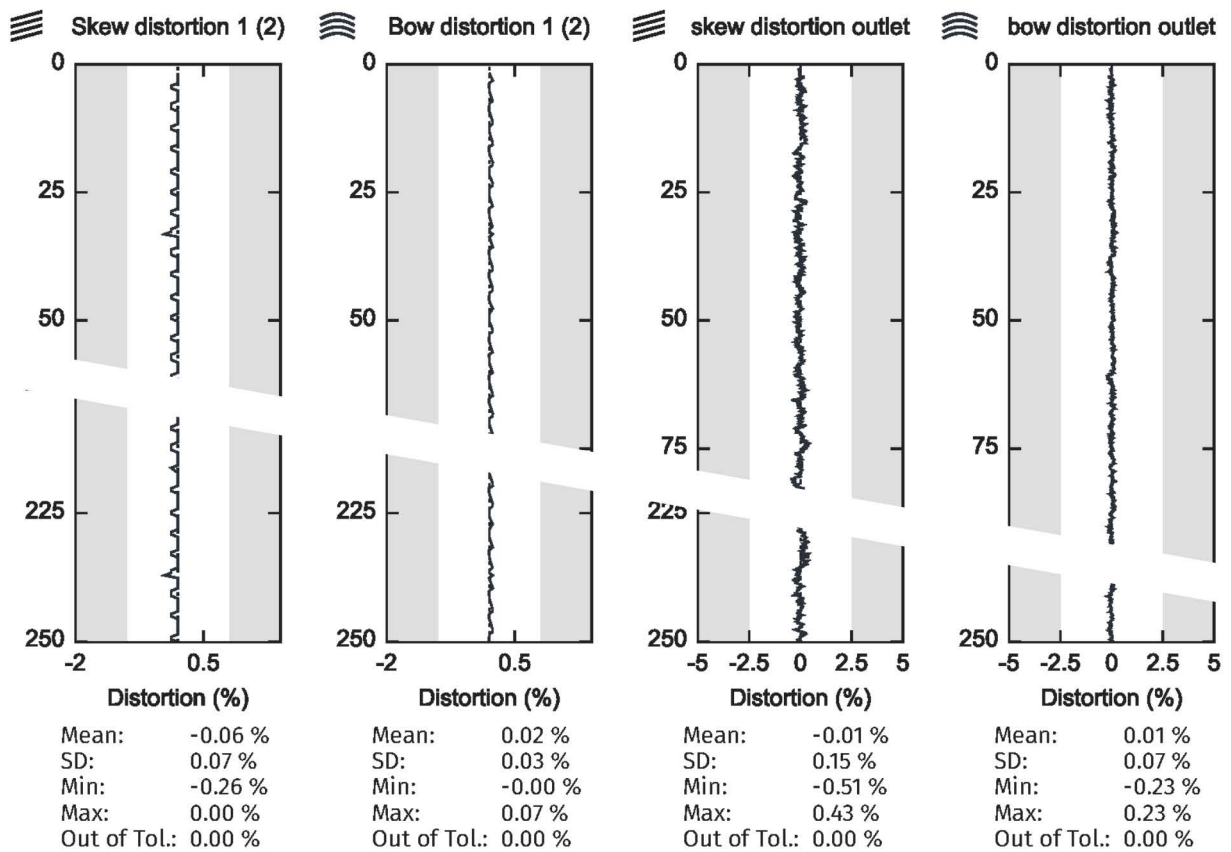
- **PDF Viewer function (View + Export)**

The reports with all key information items are displayed in PDF format allowing them to be saved or sent.

- **Expanded report settings**  
Amongst others, the user can design his own sequence of process variables.
- **Working on Linux and Windows systems (Win 7 and later)**



|            |                  |           |           |
|------------|------------------|-----------|-----------|
| End time   | 16.05.2019 15:05 | articleNo | Ebro1924  |
| Start time | 16.05.2019 14:54 | batchID   | 882423    |
| Length     | 250.16 m         | color     | Sap green |



mLog report view using the example of skew and bow distortion

## SYSTEMVORAUSSETZUNGEN BEIM KUNDEN-PC

The customer PC must meet the following system requirements for the Mahlo software:

Tab. 1: System requirements

|                  | <b>Minimum equipment</b>                                       | <b>Recommended equipment</b>           |
|------------------|--|--|
| Operating system | Windows 7<br>(Professional / Ultimate / Embedded)              | Windows 7 Embedded or Windows 10 (IoT) |
| Processor        | Intel Core i3  | min. equipment or better               |
| RAM              | 4 GB   | min. equipment or better               |
| Flash memory     | SSD or M.2 (with 128 GB)<br>(for Printservers at least 512 GB) | min. equipment or better               |
| Graphic card     | onBoard graphic card   | onBoard graphic card                   |
| Connections      | 4 x USB<br>2 x LAN   | 4 x USB<br>3 x LAN                     |

### **Additional requirements:**

- The operating system must be pre-installed.
- Created user accounts and corresponding passwords must be documented and forwarded to Mahlo.

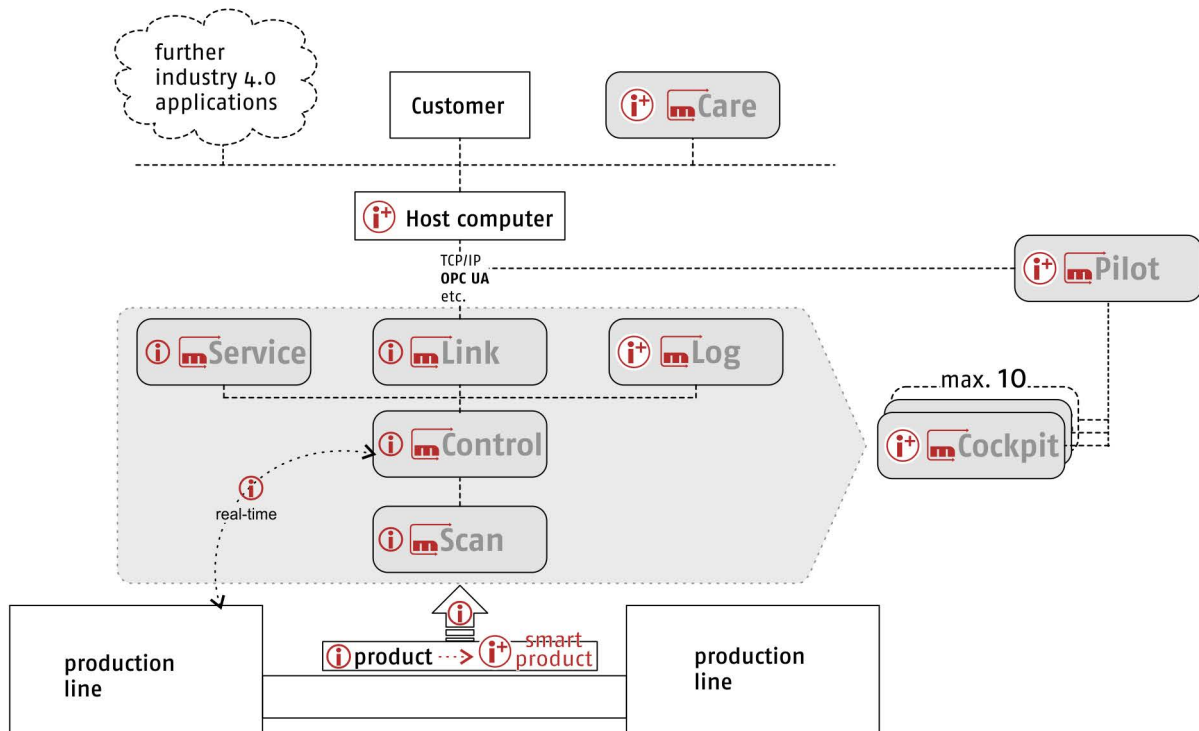
### **Additional information:**

- 2 LAN ports for Mahlo LAN and customer LAN.
- The IP address for the Mahlo LAN is assigned by Mahlo.
- 3) LAN port for a possible additional network.
- Windows-Embedded variants are recommended because of their greater fail-safe properties.

## MSMART – INDUSTRIELLE DIGITALISIERUNG VON MAHLO

Mahlo equipment and systems are at the heart of manufacturing and finishing processes for web products.

Basic functions are the continuous measurement and control of important product parameters in the running process. Intelligent sensors provide measurement data with optimum quality. The processing of the data in control algorithms for controlling actuators, adapted to the respective process, ensures the best possible production results.



- Information (measurement data) recorded and processed by the Mahlo device

- Information enriched with context information by mLog and mCockpit for evaluation and further processing

User-friendly visualisation, the preparation of data in the form of protocols and flexible evaluations increase the benefits for the customer. Simple and secure integration into production processes and higher-level computer systems allows unhindered data flow.

The basic ideas of Industry 4.0 have always been the basis for Mahlo's business model and products. The use of new digital technologies on the modular mSmart platform is a logical and consistent development step for Mahlo – always with concrete customer benefits.

## Monitoring and control systems, automation

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### **Mahlo GmbH + Co. KG - Germany**

Donastr. 12  
93342 Saal / Donau  
Telephone: +49-9441-601-0  
Fax: +49-9441-601-102  
Email: info@mahlo.com

### **Mahlo Italia S.R.L. - Italy**

Via Fiume 62  
21020 Daverio  
Telephone: +39-0332-94-95-58  
Fax: +39-0332-94-85-86  
Email: mahlo.italia@mahlo.com

### **Mahlo America Inc. - USA**

575 Simuel Road  
Spartanburg S.C. 29304  
Telephone: +1-864-576-6288  
Fax: -  
Email: mahlo.america@mahlo.com

### **Mahlo Ouest S.R.L. - Belgium**

Quantum Center  
Hütte 79 - Bte 10  
4700 Eupen  
Telephone: +32-87-59-69-00  
Fax: +32-87-59-69-09  
Email: mahlo.ouest@mahlo.com

### **Mahlo España S.L. - Spain**

Calle Luxemburgo nº 4  
08303 Mataro (Barcelona)  
Telephone: +34-938-640-549  
Email: mahlo.espana@mahlo.com

### **Mahlo Shanghai Rep. Office - China**

Bldg 2, 569 Hua Xu Road  
Xu Jing Town  
Shanghai 201702  
Telephone: +86-1390-1804736  
Fax: -  
Email: frank.feii@mahlo.com

**WWW.MAHLO.COM**

mLog 84-010506, 2, en\_GB

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