■ Operating instructions

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Quality management software

Xbutton Tool

099-L08742-EW501	Observe additional system documents!	16.01.2017

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General instructions

<div style="border:2px solid orange; padding:10px;">

⚠ WARNING

Read the operating instructions!

The operating instructions provide an introduction to the safe use of the products.

- Read and observe the operating instructions for all system components, especially the safety instructions and warning notices!
- Observe the accident prevention regulations and any regional regulations!
- The operating instructions must be kept at the location where the machine is operated.
- Safety and warning labels on the machine indicate any possible risks.
  Keep these labels clean and legible at all times.
- The machine has been constructed to state-of-the-art standards in line with any applicable regulations and industrial standards. Only trained personnel may operate, service and repair the machine.
- Technical changes due to further development in machine technology may lead to a differing welding behaviour.

</div>

☞ *In the event of queries on installation, commissioning, operation or special conditions at the installation site, or on usage, please contact your sales partner or our customer service department on +49 2680 181-0.*

A list of authorised sales partners can be found at www.ewm-group.com.

Liability relating to the operation of this equipment is restricted solely to the function of the equipment. No other form of liability, regardless of type, shall be accepted. This exclusion of liability shall be deemed accepted by the user on commissioning the equipment.
The manufacturer is unable to monitor whether or not these instructions or the conditions and methods are observed during installation, operation, usage and maintenance of the equipment.

An incorrectly performed installation can result in material damage and injure persons as a result. For this reason, we do not accept any responsibility or liability for losses, damages or costs arising from incorrect installation, improper operation or incorrect usage and maintenance or any actions connected to this in any way.

1   Contents

2 For your safety

2.1 Notes on the use of these operating instructions

⚠ DANGER

Working or operating procedures which must be closely observed to prevent imminent serious and even fatal injuries.
- Safety notes include the "DANGER" keyword in the heading with a general warning symbol.
- The hazard is also highlighted using a symbol on the edge of the page.

⚠ WARNING

Working or operating procedures which must be closely observed to prevent serious and even fatal injuries.
- Safety notes include the "WARNING" keyword in the heading with a general warning symbol.
- The hazard is also highlighted using a symbol in the page margin.

⚠ CAUTION

Working or operating procedures which must be closely observed to prevent possible minor personal injury.
- The safety information includes the "CAUTION" keyword in its heading with a general warning symbol.
- The risk is explained using a symbol on the edge of the page.

☞ *Special technical points which users must observe.*

Instructions and lists detailing step-by-step actions for given situations can be recognised via bullet points, e.g.:
- Insert the welding current lead socket into the relevant socket and lock.

You can identify events that result from an action by the hyphen and indented event description, for example:

− The software will be installed.

2.1.1 Explanation of icons

Symbol	Description	Symbol	Description
	Indicates technical aspects which the user must observe.		Activate and release/tap/tip
	Switch off machine		Release
	Switch on machine		Press and keep pressed
			Switch
	Wrong		Turn
	Correct		Numerical value – adjustable
ENTER	Menu entry		Signal light lights up in green
NAVIGATION	Navigating the menu		Signal light flashes green
EXIT	Exit menu		Signal light lights up in red
4s	Time representation (e.g.: wait 4 s/activate)		Signal light flashes red
	Interruption in the menu display (other setting options possible)		
	Tool not required/do not use		
	Tool required/use		

2.2 Part of the complete documentation

☞ *These operating instructions are part of the complete documentation and valid only in combination with all other parts of these instructions! Read and observe the operating instructions for all system components, especially the safety instructions!*

The illustration shows a general example of a welding system.
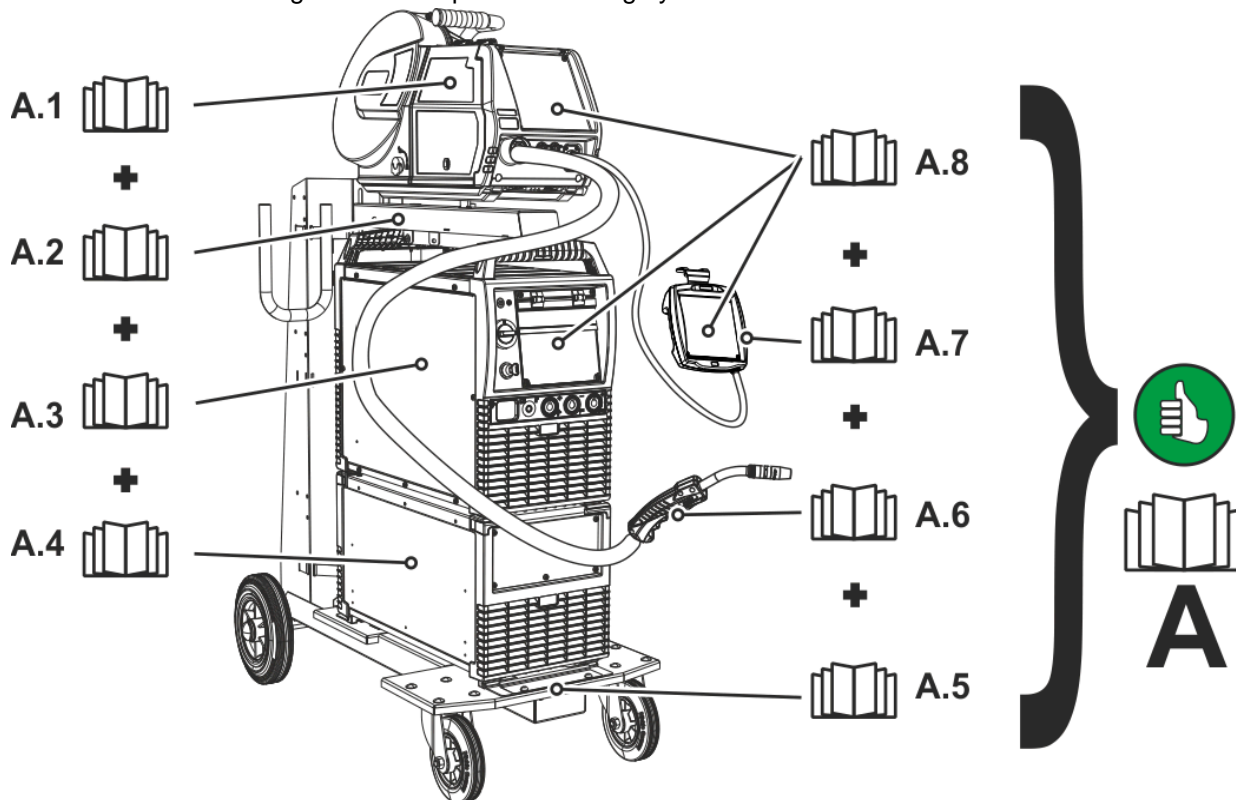
Figure 2-1

Item	Documentation
A.1	Wire feeder
A.2	Conversion instructions
A.3	Power source
A.4	Cooling unit, voltage converter, tool box etc.
A.5	Trolley
A.6	Welding torch
A.7	Remote control
A.8	Control
A	Complete documentation

3 Overview

3.1 Brief description

Xbutton is a system to intelligently control access rights for EWM welding machines equipped with an Expert 2.0 control. By programming small and handy storage chips for recognition, users can be assigned different usage rights.

Xbutton Tool is used to manage the recognition memory, users, welders and welder qualifications.

3.2 Audience

3.2.1 IT administrator

Based on their training and experience, the IT administrators are able to provide for the system requirements and work environment, including the technical equipment, required for operating the software. They are also able to provide sufficient server capacity and ensure data backup.

3.2.2 Welding supervisor

Based on their relevant vocational or further training, expertise, experience and knowledge of the different welding processes, the welding machine operator, welding engineer or welding supervisor is able to perform the task of monitoring and analysing the welding process data as assigned to them.
They are also able to operate the computers and access the operating panel.

3.3 System requirements

3.3.1 Client system requirements

Parameter	Minimum requirement
Compatibility	IBM compatible
Hard disk	500 MB hard disk space or more
Connections	2 available USB 2.0 ports or more
Operating system	Windows 7 or later
Software	.NET 4.0 (part of the installation, if required)

3.4 Scope of supply

3.4.1 Standard scope of supply

The standard scope of supply includes:
• USB interface with Xbutton adapter
• Software
• Licensing dongle
• 10 Xbuttons

3.5 Required accessories and licenses

Xbutton is supplied with a dongle with an activated license to operate the Xbutton Tool.

If you intend to operate Xnet and Xbutton at the same time, please contact EWM AG to transfer the license to the existing Xnet dongle.

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4   Administrator manual

4.1   install Xbutton Tool

☞   *You can change the company ID during the installation process. However, the software company ID has to be identical to the welding machine company IDs as otherwise the welding machines cannot be accessed.*
We recommend not changing the company ID during installation but to retail the default.

- Connect the dongle to an available USB port of the computer.
- Navigate to the XbuttonTool\Release\ directory.
- Double-click the Setup.bat installation file to open it.
    - A prompt opens to check whether .NET4.0 is installed on the system.
- Press any button to close the prompt and install .NET4.0, if required.
- Set the installation language.
- Click the "Install" button.
- In the component manager, select Xbutton Tool Software, WiBu Runtime and USB Serial Driver.
- Click [Next].
    - The software will be installed.
- Click [Close].

4.2   Wibu Runtime installation

To start Xbutton Tool, Wibu Runtime has to be installed. If not installed yet, the installation will start automatically.

- Click [Next].
- Set the "Install for all users of this computer" installation mode.
- Click [Next].
    - The software will be installed.

4.3   FTDI USB driver installation

The FTDI USB driver is a required component to control the Xbutton USB interface. If not installed yet, the installation will start automatically.

- Click [Extract].
- Click [Next].
    - The software will be installed.
- Click [Next] and follow the installation instructions until completion.

4.4   Update Xbutton Tool

The update procedure is similar to the installation, with the exception that you have to deselect the "Database initialisation" option in the available components list.

☞   *When you start the installation without disabling the "Database initialisation" option, the existing database will be irrevocably deleted.*

5 User manual

5.1 Taking the first steps

5.1.1 Starting the program

- Double-click the Xbutton Tool desktop icon.

5.2 Xbutton Tool screen layout

For a clearer overview the screen display is divided into different sections in this manual.
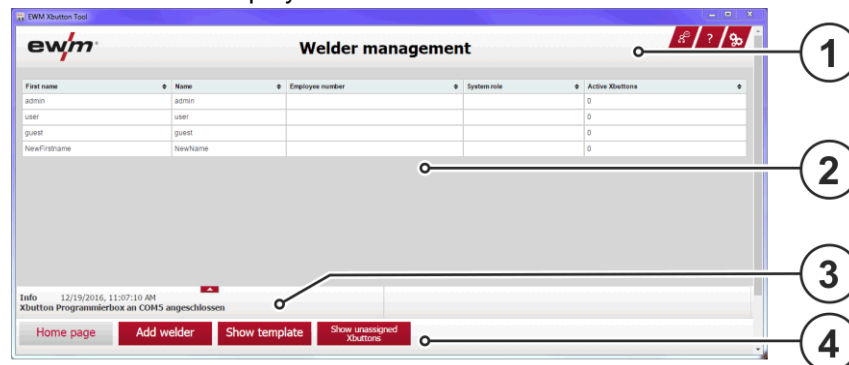
Figure 5-1

Section	Designation
1	**Navigation bar** Used for quick access to language settings, online help and system settings.
2	**Dialog** Shows the contents of the respective context.
3	**Event display** Shows the software status messages.
4	**Button bar** Shows context-sensitive buttons and is used for navigating the software.

5.2.1 Connect programming box

- Connect the programming box USB plug to an available USB port of the computer.
  - The event display will show a confirmation that the programming box has been connected.

5.2.2 Changing the language

- Click [Change language] .
- Select the language.

5.2.3 Calling up the help function

The software provides context-sensitive help.

This can be called up at any point in the program by clicking the [Help] button.

5.3   Welders and welder qualifications

5.3.1   Add welder

- Click [Add welder].
- In the Add welder dialog, enter the relevant values.

☞ *The Name and First name fields are mandatory and have to be completed.*

The value of the Employee number field is unique across the system and may be assigned only once.

The value of the field System role can be assigned as required. By clicking in the field you can open a drop-down menu with existing values. To enter a new value, enter it in the System role field. The new value is added to the list automatically.

- Set up Xnet access (optional).
  - Enable the Xnet user data checkbox.
  - Enter the credentials.

5.3.2   Edit welder

- Under Welder management, click the welder you want to edit.
- Click [Show welder].
- Click [Edit welder].

☞ *The Name and First name fields are mandatory and have to be completed.*

The value of the Employee number field is unique across the system and may be assigned only once.

The value of the field System role can be assigned as required. By clicking in the field you can open a drop-down menu with existing values. To enter a new value, enter it in the System role field. The new value is added to the list automatically.

- Set up Xnet access (optional).
  - Enable the Xnet user data checkbox.
  - Enter the credentials.

5.3.3   Enter welder qualifications

- Under Welder management, click the welder you want to edit.
- Click [Show welder].
- Click [Add welder qualification].
- On the Validity dialog, enter the data from the relevant welder exam certificate.
- On the Exam number dialog, enter the data from the relevant welder exam certificate.

☞ *To enter a qualification not included in the BS EN ISO 9606-1:2013, enable the Special qualification checkbox and enter the number manually.*

- Add document (optional).
  - Click [Upload document].
  - Click [Save] to continue or [Cancel] to cancel.
- Click [Save welder qualification] to save.

5.3.4   Delete welder qualification

- Under Welder management, click the welder you want to edit.
- Click [Show welder].
- Click the welder qualification you want to delete.
- Click [Show welder qualification].
- Click [Delete welder qualification].

☞ *The data record will be deleted without any prompt for confirmation.*

5.3.5 Edit welder qualification

- Under Welder management, click the welder you want to edit.
- Click [Show welder].
- Click the welder qualification you want to edit.
- Click [Show welder qualification].
- On the Validity dialog, enter the data from the relevant welder exam certificate.
- On the Exam number dialog, enter the data from the relevant welder exam certificate.

☞ **To enter a qualification not included in the BS EN ISO 9606-1:2013, enable the Special qualification checkbox and enter the number manually.**

- Add document (optional).
  - Click [Upload document].
  - Click [Save] to continue or [Cancel] to cancel.
- Click [Save welder qualification] to save.

5.4 Xbutton administration

5.4.1 Overview of the data saved on the Xbutton

On the Xbutton, information for unique identification of the Xbutton and the Xbutton permissions are saved. If the Xbutton is assigned to one welder only, you can optionally save the welder qualifications and advanced configuration data as well.

5.4.1.1 Permissions

Permission	Meaning
Enable correction mode	Select this option to enable the correction mode for the user.
Block changing of wire feed speed	Select this option to prevent the user from changing the wire feed speed.
Block changing of voltage correction	Select this option to prevent the user from changing the voltage correction.
Block changing of arc dynamics	Select this option to prevent the user from changing the arc dynamics.
Block change of operating mode	Selecting this option will prohibit the user from changing the operating mode.
Block change of welding type	Select this option to prevent the user from changing the welding type.
Block change of superPuls	Select this option to prevent the user from activating superPuls.
Block JOB switching	Selecting this option will prohibit the user from changing the welding JOB.
Block JOB reset	Select this option to prevent the user from resetting the welding JOB.
Restrict program selection	Select this option to prevent the user from selecting certain welding programs.
Restrict program selection	Select this option to prevent the user from selecting certain welding program sequences and changing their parameters.

Permission	Meaning
Block change of configuration parameters	Select this option to prevent the user from changing the configuration parameters.
Block program "0"	Select this option to prevent the user from accessing program "0".
Block welding start	Select this option to prevent the user from changing the welding start.
Block Xbutton configuration	Select this option to prevent the user from changing the Xbutton configuration.
Block operation settings	Select this option to prevent the user from changing the operation settings.
Block advanced JOB parameters	Select this option to prevent the user from changing the advanced JOB parameters.
Block Expert constants	Select this option to prevent the user from changing the Expert constants.
Block welding monitoring configuration	Select this option to prevent the user from changing the welding monitoring configuration.

5.4.1.2 Welder qualification

If the Xbutton is used by one welder only, you can save the welder qualifications on the Xbutton.

5.4.1.3 Information

Parameter	Meaning
Xbutton version	Shows the version of the Xbutton.
Xbutton ID	Shows the unique ID of the Xbutton.
Company ID	Shows the company ID that has been assigned during the software installation.

5.4.1.4 Configuration

Parameter	Meaning
Local anonymisation	Select this option to prevent the user name from being displayed on locally connected machines.
Record test data	Select this option to enable advanced welding data recording at all times.

5.5 Template administration

Templates are used to define frequently used groups of user rights to facilitate the assignment of those rights to the users.

5.5.1 Show templates

- Click [Show templates].
    - The upper section of the dialog shows the templates.
    - The lower section of the dialog shows the permissions of the individual templates.

5.5.2 Create template

- Connect Xbutton to the programming box.
    - The upper section of the dialog shows the Xbutton name and system role as well as the name of the user to whom the Xbutton is currently assigned.
    - The lower section of the dialog shows the data assigned to the Xbutton.
- Click [Permissions].
- If the Xbutton name field is empty, enter a name. This name is used to identify the new template.
- You can enable or disable the required permissions using the checkboxes.
- Click [Save as template].
    - The new template is saved in the system and is immediately available by clicking the "Templates folder" button.

5.5.3 Edit template

- Click [Show templates].
- Select the template you want to edit.
- You can enable or disable the required permissions using the checkboxes.
- Click [Save template].

5.5.4 Delete template

- Click [Show templates].
- Select the template you want to delete.
- Click [Delete template].

5.6 Overview of unallocated Xbuttons

Initial situation: Program has been started.

- Click the "Unallocated Xbuttons" button on the button bar.
    - The dialog opens the list of all inactivated Xbuttons which are assigned to the "unallocated user" in the system.

5.6.1 Assign Xbutton

- Connect Xbutton to the programming box.
- Click [Assign to other welder].
- In the selection list, select the welder you want to assign the Xbutton to.
- Click [OK] to continue or [Cancel] to cancel.

5.7 Save data on Xbutton

- Connect Xbutton to the programming box.
- Click [Write Xbutton].

6 Appendix A

6.1 Overview of EWM branches

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