

WELDCUBE PREMIUM

RELEASE 2.20

RELEASE DESCRIPTION

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1 OVERVIEW: NEW FUNCTIONS

The following overview contains new features, enhancements and improvements of the releases 2.17, 2.18, 2.19 and 2.20 for the WeldCube Premium.

Release 2.17

- / Discontinuation of support for the old WeldCube hardware

Release 2.18

- / Transfer NTP server address to connected machines
- / Automatic threshold time correction
- / Renaming of hall layouts
- / Enhancements in the settings of the component report

Release 2.19

- / Seam length at set welding speed
- / System notifications

Release 2.20

- / Graphical clustering in statistics by time
- / Uploading images in the component report
- / Improvement of the UI on the welding detail page
- / Revised translations
- / Upload your own company logo

2 SETTING THE SUPPORT OF THE OLD WELDCUBE HARDWARE (R2.17)

Attention: With release 2.17 the WeldCube Premium hardware is no longer supported. The latest update for the WeldCube Premium hardware is Release 2.16.

2.1 Removed functions

In the course of discontinuing support for the old WeldCube Premium hardware, the following functions in the settings (Administration) have been removed:

- / Time settings for the WeldCube Premium will be taken from the host system
- / Network settings
- / Hostname
- / Switch off
- / OS Update

2.2 Navigation adjustment in Administration

In the course of discontinuing support for the old Weldcube Premium hardware, the following functions have been rearranged in the navigation structure in Administration under "WeldCube":

- / Currency
- / WeldCube URL
- / Restart

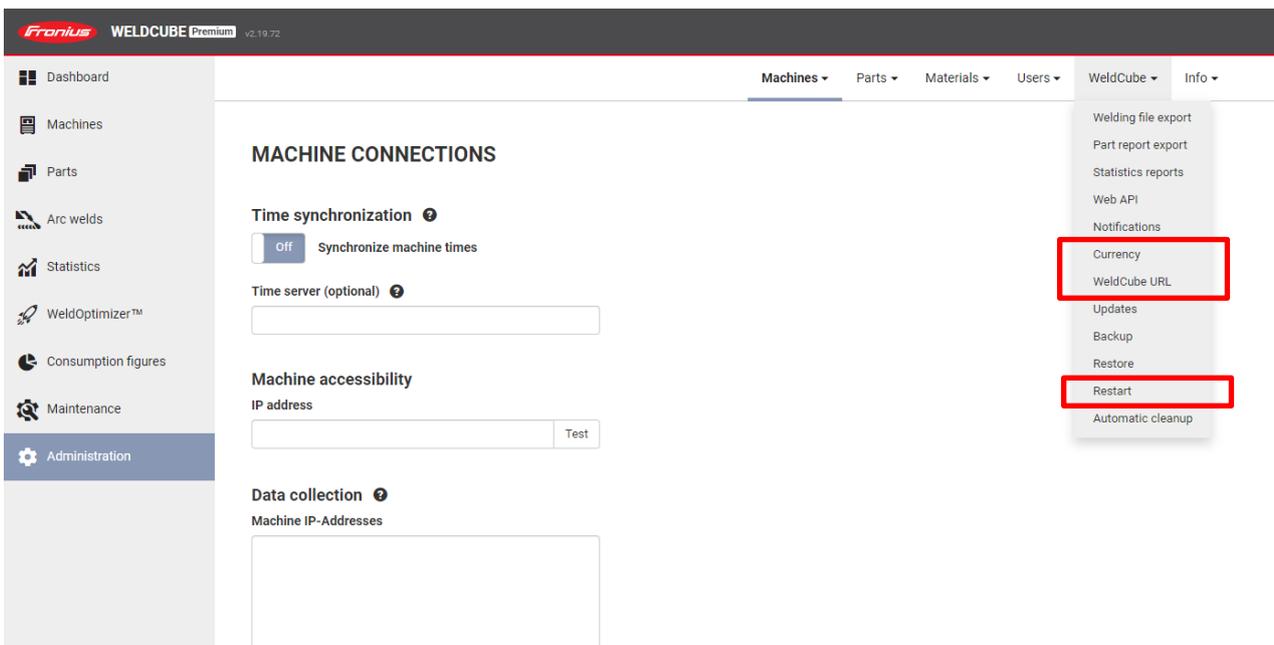


Figure 1: Customized navigation in Administration

3 TIME SYNCHRONIZATION (R2.18)

If the option "Synchronize machine times" is activated, the machine times in the machine settings are synchronized with the time of the WeldCube Premium. Different time stamps between the current source and WeldCube Premium can thus be prevented.

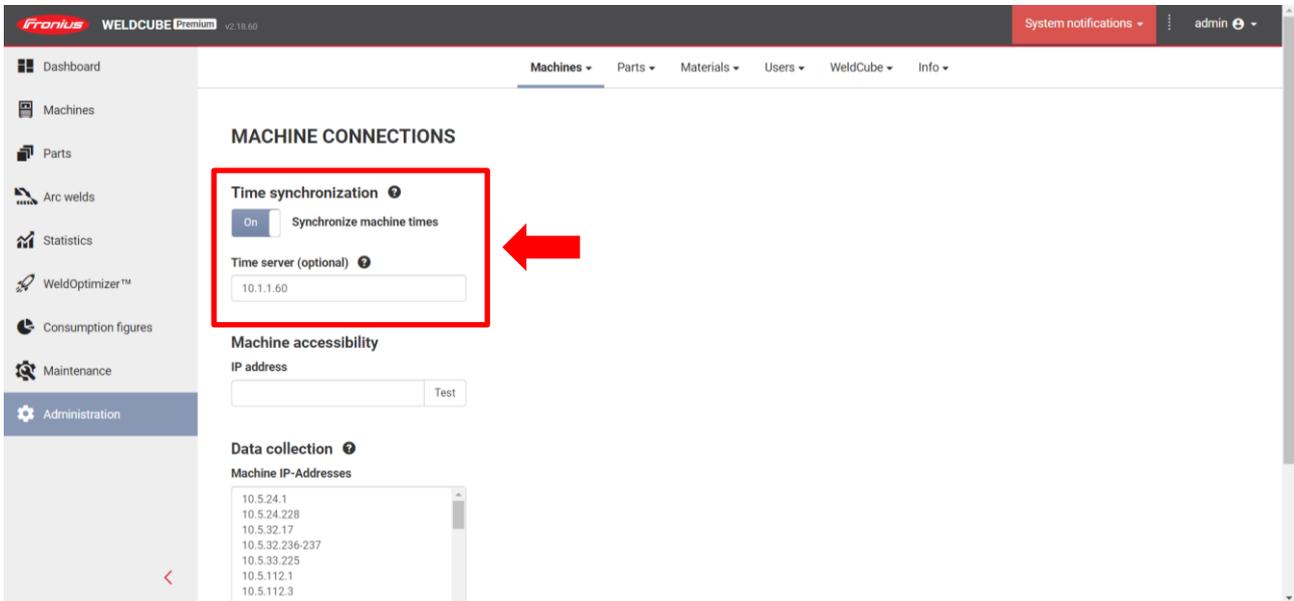


Figure 2: Activation of "Time synchronization" in the machine settings of the WeldCube Premium

3.1 Transfer TP server address to connected machines

With the "Timer server" function, the address of an NTP server can be transmitted centrally from WeldCube Premium to all connected machines. This eliminates the need to set up the NTP server individually in the settings of each power source.

- Input field empty: Time settings are taken from the operating system
- NTP server defined: The defined NTP server is rolled out to all connected power sources.

Attention: The function requires release V3.2.0 on TPS/i (available in the 2nd half of 2021).

Note: Old generation power sources (TPS/MW/TT) do not support time server.

Note: required settings on the power source

1. Date and time settings must be set to "automatically."
2. The time zone is not adopted on the power source and must be defined directly on the power source.

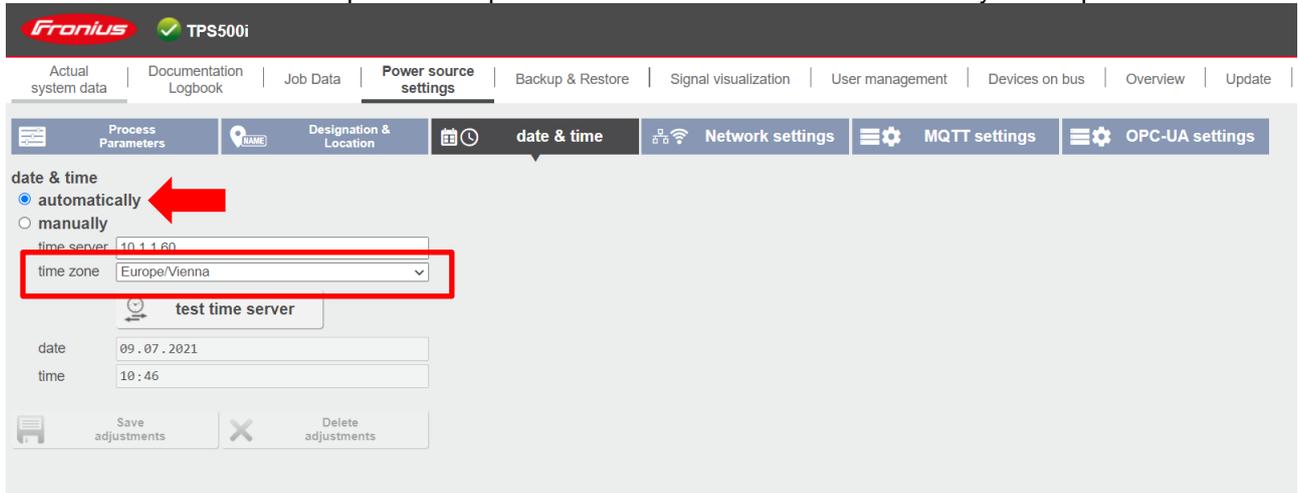
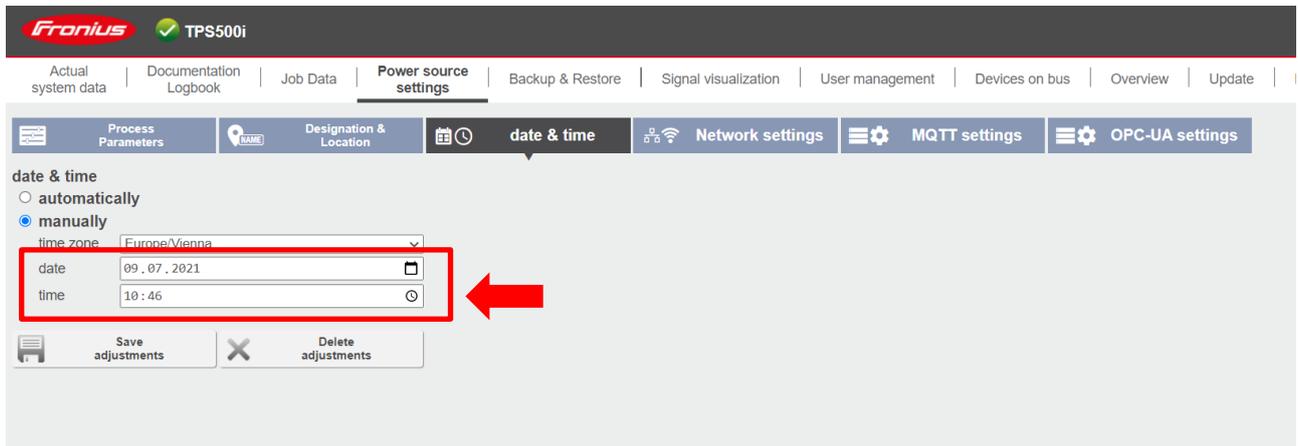


Figure 3: Settings on the power sources

3.2 Automatic threshold time correction

If the time settings on the power source are set manually (no NTP server is defined) ("Time server" function, manually), the time on the machine is automatically synchronized with the time of the WeldCube Premium. When a difference threshold is exceeded, the time on the current source is corrected. (WeldCube Premium is point of truth).



Attention: Threshold value time correction is only possible on the TPS/i with release V3.2.0 (2nd half of 2021).

4 GENERAL

4.1 Renaming of hall plans (R2.18)

In the settings (Administration/Machines/Hall plan administration) the name of a hall plan can be changed.

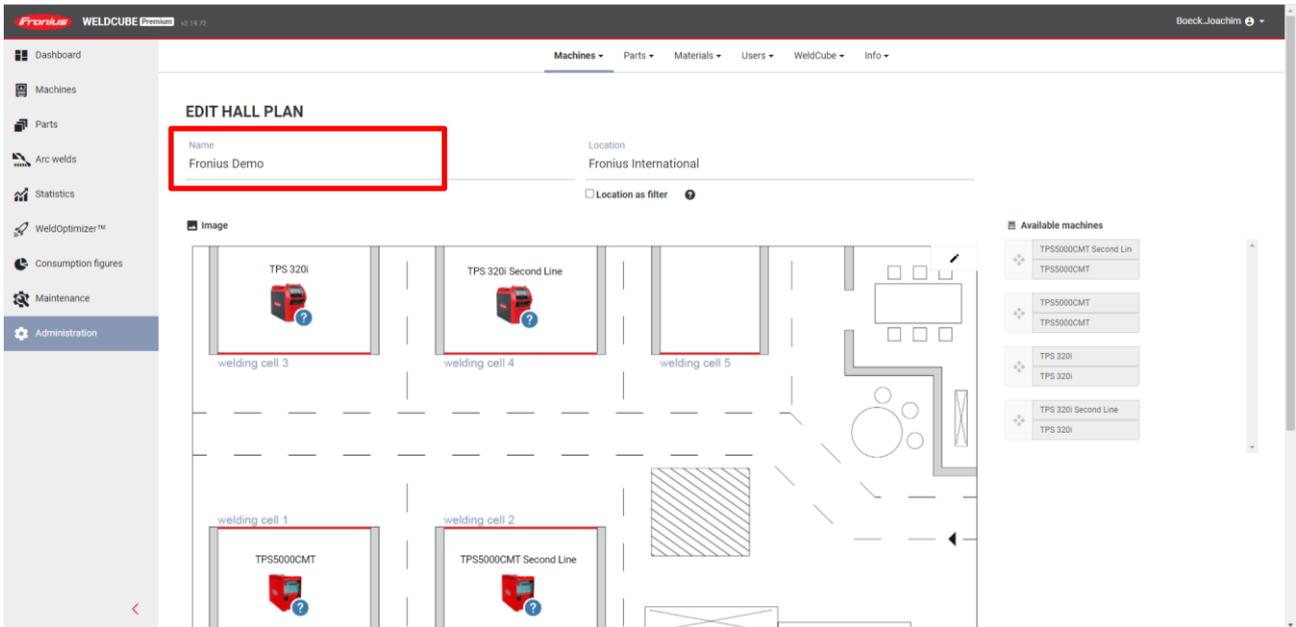


Figure 4: Settings for the hall layout under administration

4.2 System notifications (R2.19)

System notifications in the menu bar can now be reset collectively.



Figure 5: Display for system notifications in the menu bar

Note: Regardless of the display in the menu bar, all errors and messages can still be found in the WeldCube Premium logbook. (Administration/Info/Logbook)

5 COMPONENT REPORT (R2.19)

5.1 Seam length per component

The total seam length of all welds of a component is now displayed in the component report. This is summed up over all individual welds of the part.

PART REPORT

Name	-		Status: Not ok Unconfigured steps: 4 				
Item number	8000						
Serial number	140						
 Start time	4/14/2021 3:17:35 PM	 Process time	53min 47s	 Arc time	57s	 Seam length	9.37 cm

Attention: The function is only available for robot applications with documentation of the welding speed via the robot interface possible.

6 GRAPHIC TIME GROUPING (R2.20)

To improve readability in the maintenance and statistics charts, related data is highlighted graphically depending on the selected time grouping.

Ex: Grouped by weekly dates, those in the same month are highlighted together.

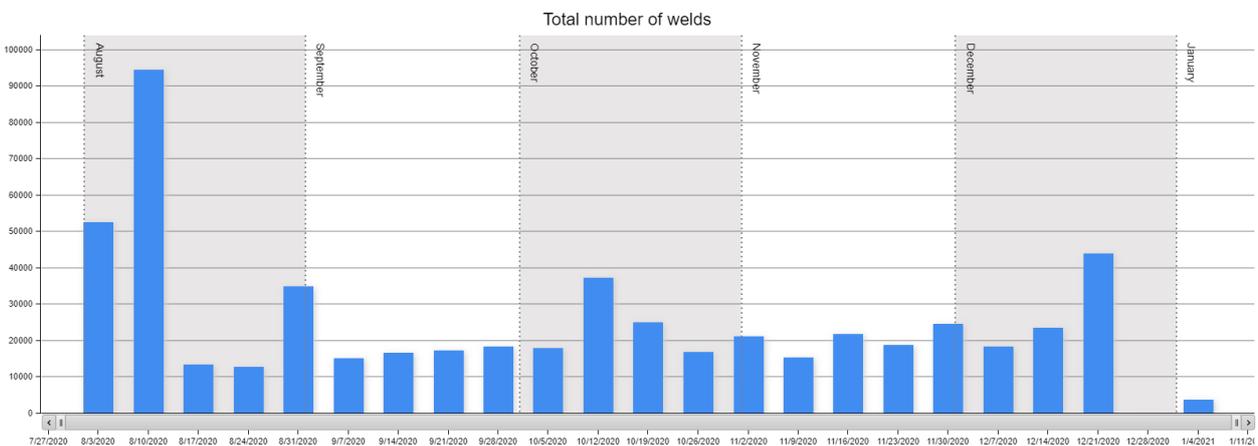


Figure 6: Graphical highlighting by time in the WeldCube Premium



Total number of welds

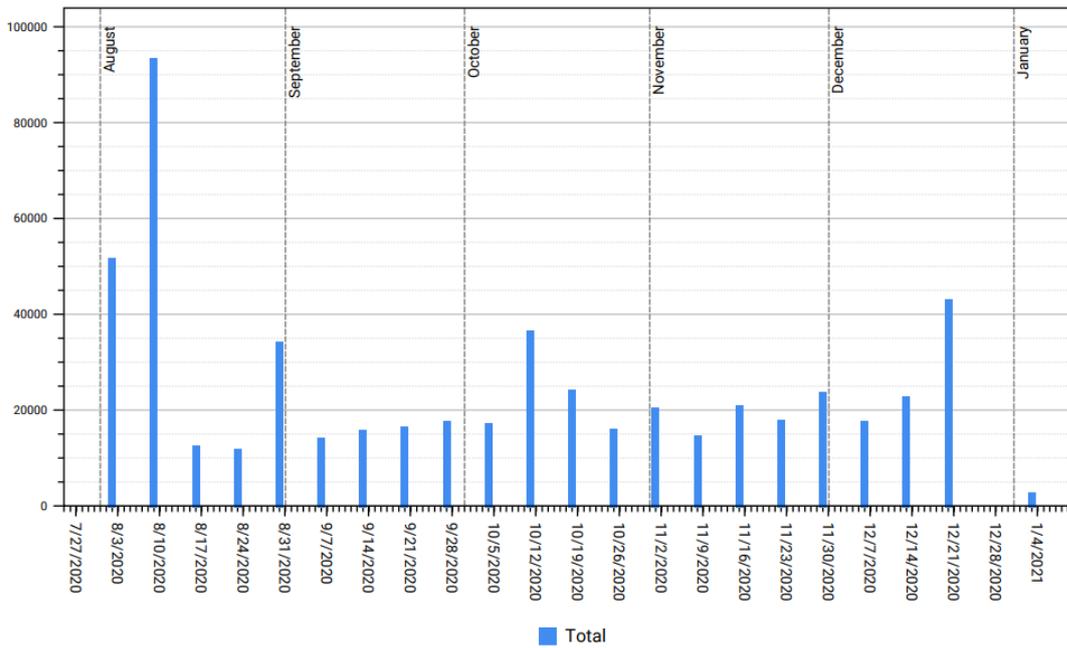


Figure 7: Graphical highlighting by time in PDF

Note: To ensure readability, if there are more than 30 markers, the highlighting is omitted for widgets on the dashboard, there is no graphical highlighting for 8 or more markers.

7 ADDITIONAL PICTURES IN THE COMPONENT REPORT (R2.20)

In the component report, photos can be added for documentation. The images can be loaded into WeldCube Premium **manually** or via REST API.

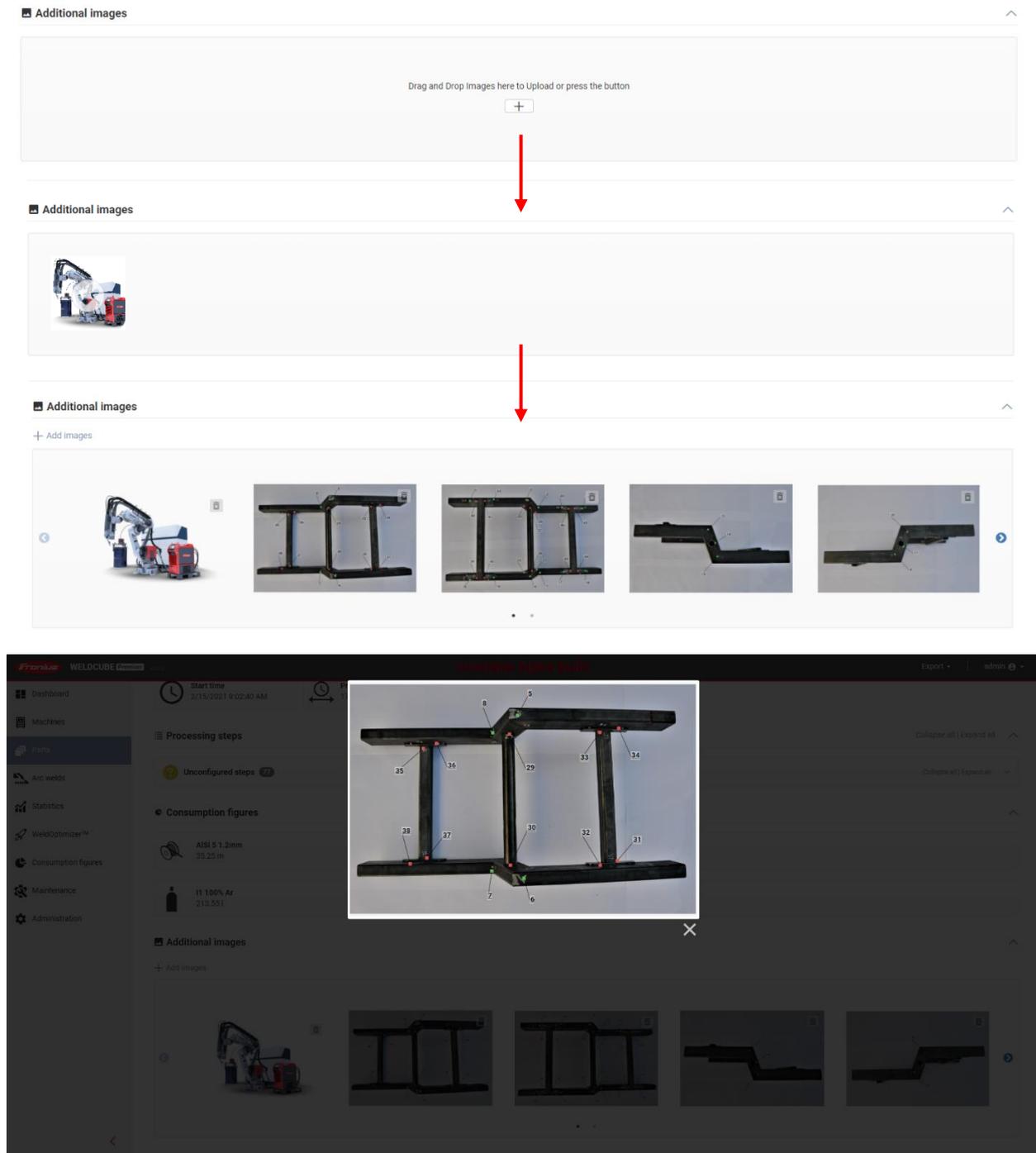


Figure 8: Additional images in the component report

Note: This function can be used, for example, to attach images from cameras in the production line or quality inspection to the documentation.

8 RE-DESIGN OF THE WELDING DETAIL PAGE (R2.20)

The welding details page has been graphically revised. Information has been rearranged and summarized. This further increases the clarity.

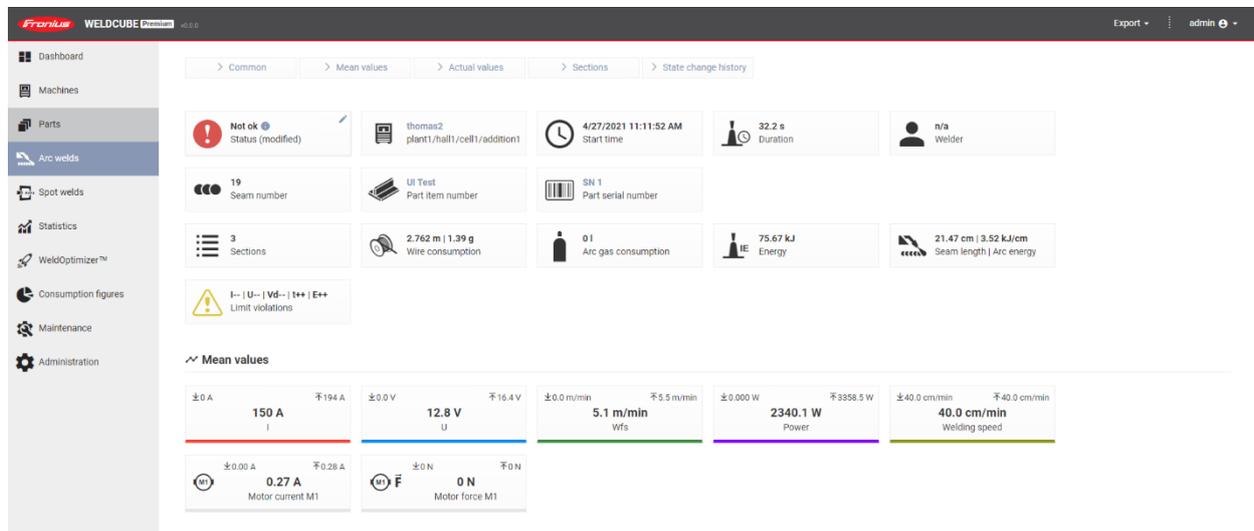


Figure 9: KPIs on the welding detail page

9 REVISED TRANSLATIONS (R2.20)

The translations in WeldCube Premium have been revised and updated.

10 UPLOAD COMPANY LOGO (R2.20)

In the administration you can upload your own company logo under WeldCube/Customizations. The uploaded logo is subsequently displayed on all reports.



Part Report

Testing beta_TPSI_3.1.0-25577.21632-RD / RiFB Inside 2.1.33 / SR63 1.740.0 -

10

Creation date: 6/1/2021 10:25:14 AM

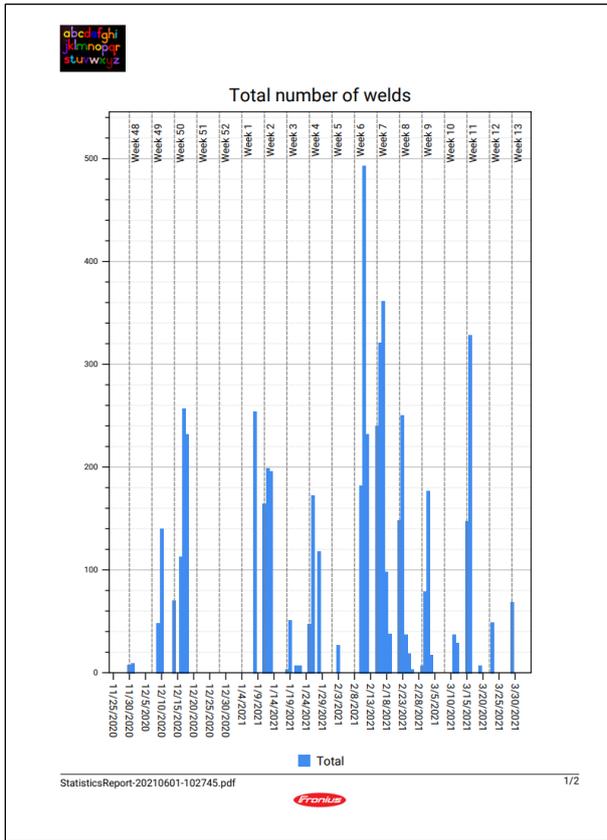



Figure 10: Custom logo in PDF report

Note: The function requires the authorization for "Customizations" in the user role.