# WELDCUBE PREMIUM
## RELEASE 2.3

**RELEASE DESCRIPTION**

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# 1 OVERVIEW: NEW FUNCTIONS

Release 2.3 provides several new functions, extensions and improvements for WeldCube Premium. **TPS/i firmware Version 1.8.6 or higher** is required for using release 2.3 together with TPS/i. We recommend updating to **TPS/i firmware 2.0.0 or higher**, as this version allows using the complete functional range (incl. gas consumption) and fixes troubles with data communication between TPS/i and WeldCube Premium.

The following charts shows the 3 most important new possibilities with this release:
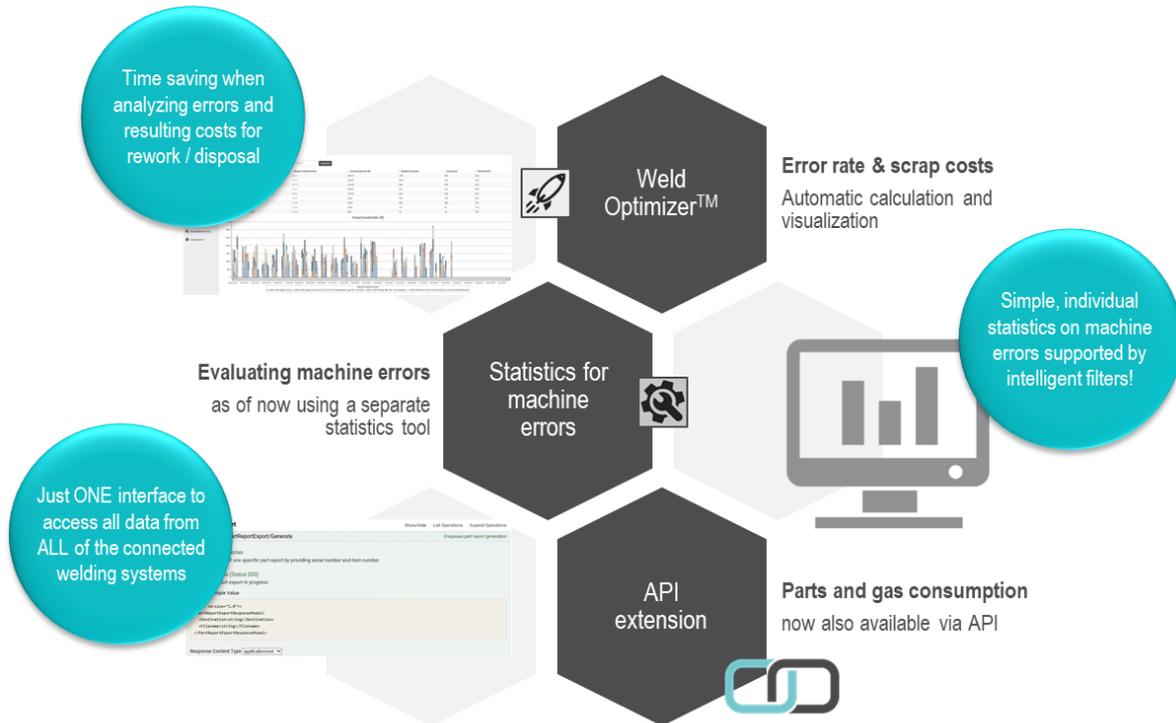


**The following list provides an overview of all new functions with release 2.3:**

/ General
    / Extensions for TPS machine backup & restore
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# 2 GENERAL

## 2.1 TPS machine backup & restore extensions

Release 2.3 extends the new possibility of creating a full backup of all data at UST and RCU of a TPS and restore the same manually using WeldCube Premium, provided by release 2.2:

/ Deleting machine backup
/ Restore backup to another TPS
/ Automated backup

### 2.1.1 Deleting machine backup

Deleting created backups is now possible.



### 2.1.2 Restore backup to another TPS

It is now possible to restore a machine backup to another TPS device.

In order to do so, WeldCube Premium provides a dialog with a list of available TPS devices the backup can be restored to after starting the restore process. One or several device/s can be chosen there:



The given list also shows the status of the machines:
/ Green: online
/ Red: offline

The "restore" button is only available if…
/ …at least on machine is chosen and
/ …none of the chosen machines is offline.

### 2.1.3 Automated backup

Release 2.3 also provides the possibility for automated backup. In order to use it, the customer can define individually per device at which point of time a backup shall be created:



It is possible to create an individual backup time schedule per TPS (day/s and time):

If a defined schedule shall apply for several TPS, it is possible to easily transfer this one by using the function "Copy to other machines". For this purpose, a dialog is displayed allowing to limit the available machine selection via a filter (1) and to choose the devices the time schedule shall be transferred to (2). Using the button **Copy to** wird der Vorgang abgeschlossen:
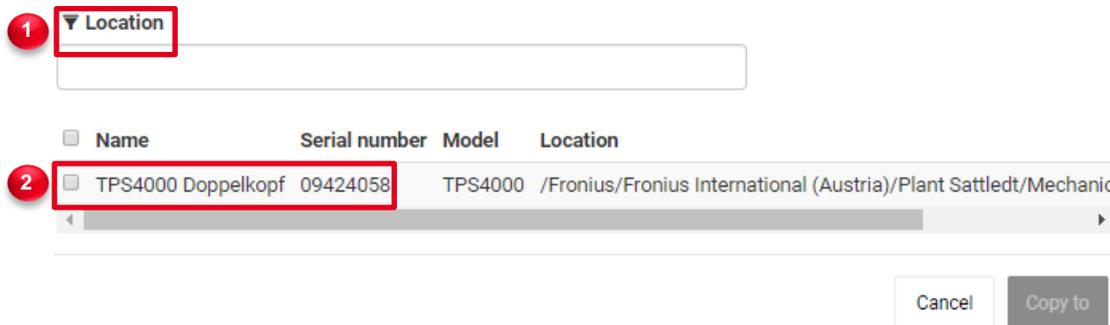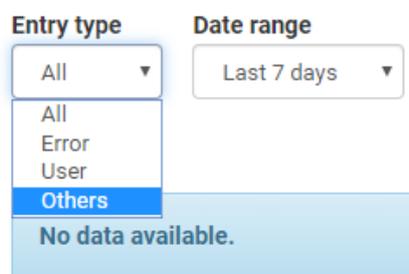


## 2.2 Logbook entry on R/L alignment

If the user chooses the category "all" within the machine logbook, a **successful** R/L alignment is shown as follows:
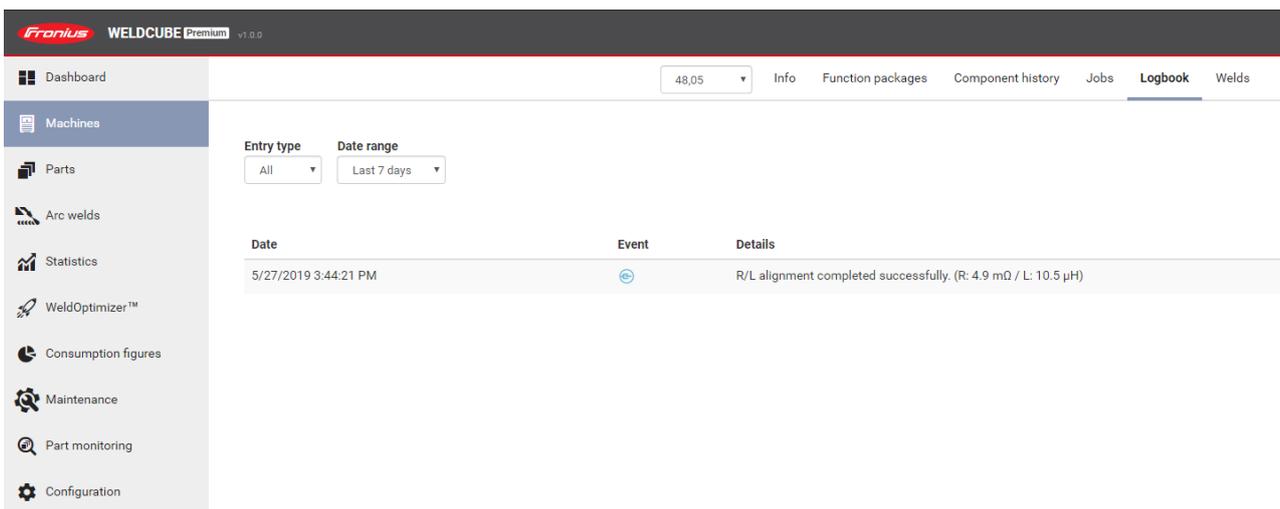


Additionally, there is a new category "other" available as of now. Currently, only the R/L alignment is assigned to this category:

## 2.3 Error solution proposals in TPS machine live view

As there are now solution proposals available for TPS as well, due to the new error statistics functionality (see 6.2), the TPS machine live view was extended as well. There are now solutions available for occurred errors for TPS as well (as already known for TPS/i).



## 2.4 System information in UI

As of now, the WeldCube Premium application provides detailed system information within the menu "configuration" → "about". The information for the on premises variant (without Fronius server hardware) will also include details on the operating system.

## 2.5  Redesign of error page and windows update warning

**Redesign of error page**

In order to provide the user with information in case of errors of the WeldCube Premium application and in order to forward this information to Fronius in case of support, the error page received a redesign.
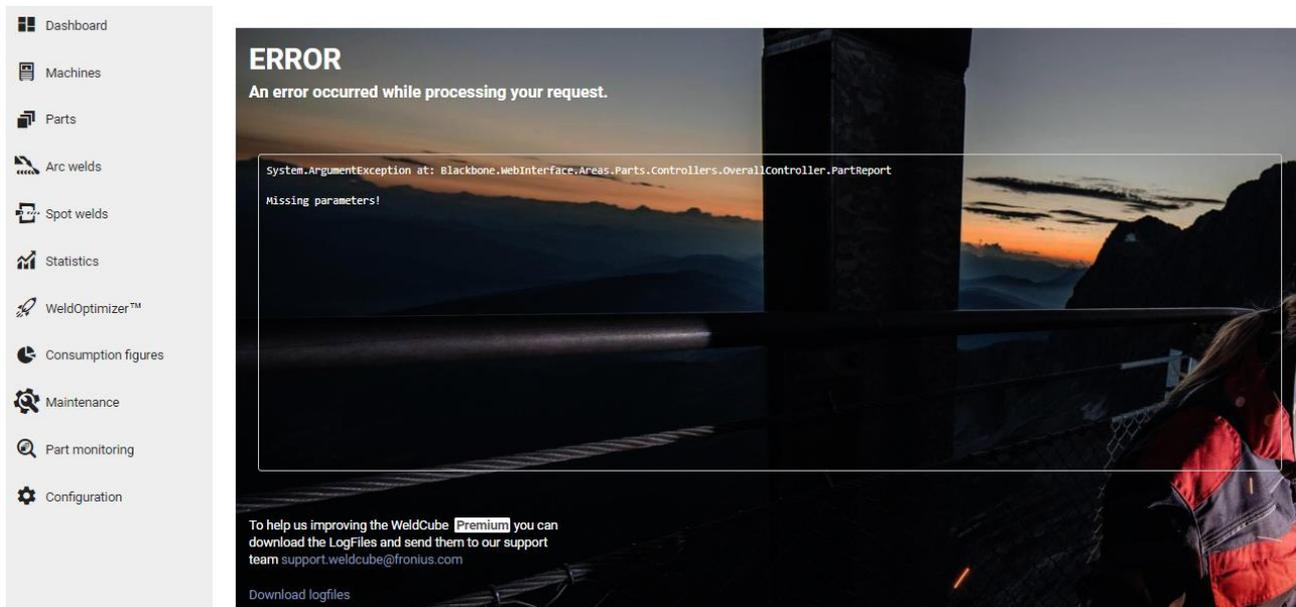


The following information is available:

/   Incidental error

/   File in which the error occurred

/   Link to WeldCube support

**Windows update warning**

If relevant, the user will get the information in future that with a restart of WeldCube Premium Windows updates will be installed resulting in unavailability of WeldCube Premium for a while.

# 3  STATISTICS & ANALYSIS

## 3.1  Adaption of standard date range

The standard setting for date range of statistics was changed from 30 to 7 days in ordert o optimize the initial loading time:



This applies to the following WeldCube Premium statistics features:

- / Statistics
- / Consumption figures
- / Maintenance

# 4  PART MANAGEMENT & REPORTING

## 4.1  Time stamp within part report

The part report within the application…



…and the pdf report…



…visualize the time stamp of the first welding at the part as "starting time" as of now.

## 4.2  Saving the last machine in part monitoring

The system saves the chosen machine in part monitoring per user. Thus, with every menu call-up the last chosen machine is automatically displayed – even after logging in / out of the user.

# 5 NEW FUNCTION: WELDOPTIMIZER™



Release 2.3 comes with the new menu option WeldOptimizer™ for all WeldCube Premium customers as standard:
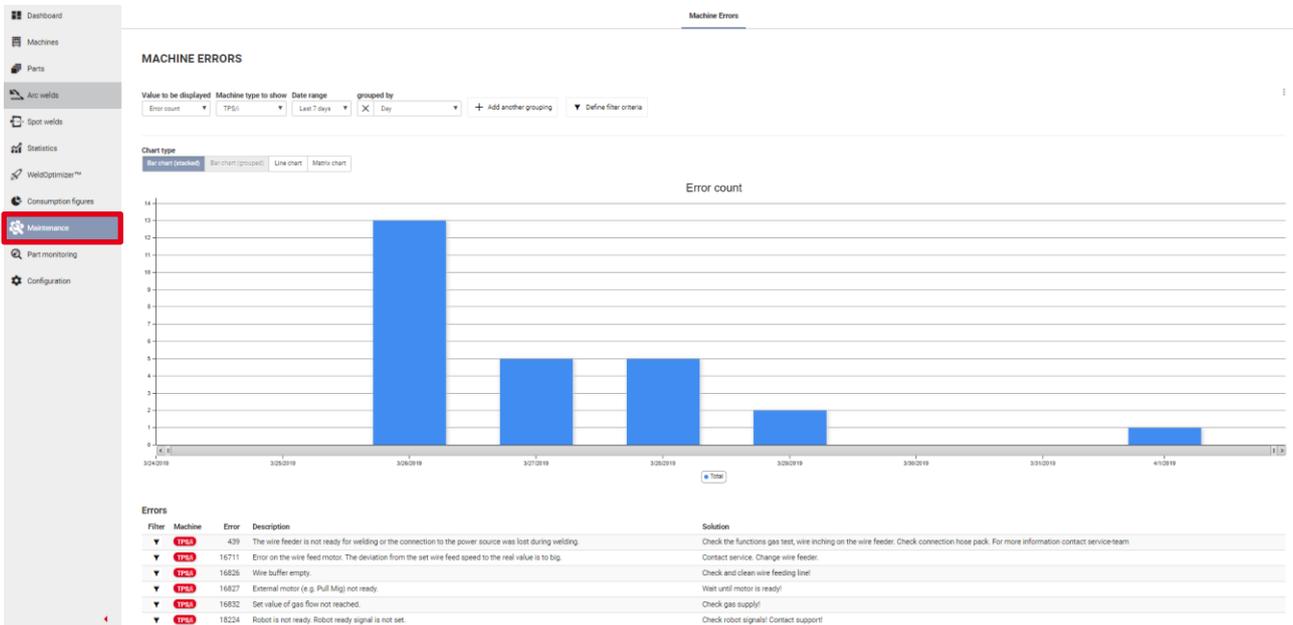
# 6 NEW FUNCTION: ERROR STATISTICS

Release 2.3 provides a new statistics function called "Maintenance" for evaluating machine errors. Basis is logbook data of all welding devices connected to WeldCube Premium.



As with statistics, the user can compile different views and evaluations based on the filter options by himself – for example

/ Number of errors (error count)

/ Error duration

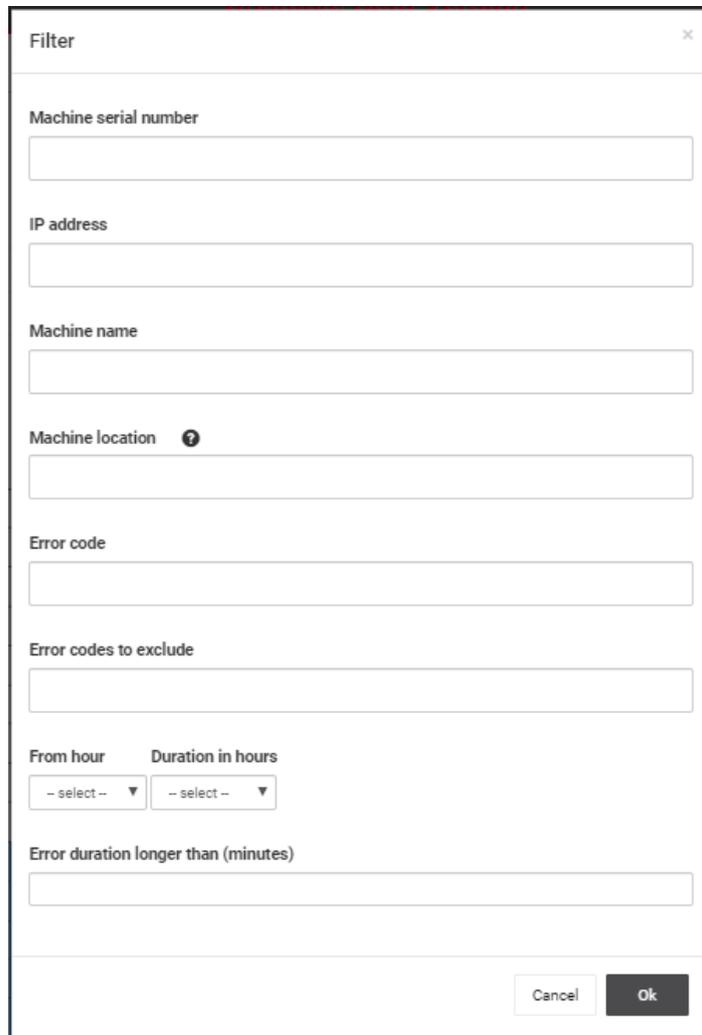Below the graph, all errors matching the filter criteria will be listed including a description and solution proposal:



Additionally it is possible to ignore an error for the statistics by clicking the available filter symbol (▾) within this.

## 6.1 Filter possibilities

The well-known filter wizard was extended for error statistics. It is– for example – possible to search for defined errors or errors with a defined minimum duration or exclude chosen error codes:



## 6.2 Error solution proposals for TPS

In order to be able to offer the functionality as complete as possible for TPS within the error list displayed, solution proposals for TPS based on the operating instructions of TPS 5000 have been implemented. As no clear assignment of shortname to error number was possible by this, there is not a solution for all errors (no assignment possible) or there might be solutions available that are not associated with an error.

## 6.3 Difference to known statistics function

The main difference to known statistics functions is, that all values will be calculated live based on logbook data and will not be aggregated within the database.

## 6.4 Dashboard

All error statistics can be pinned to the dashboard as normal.

Exception: analysis with unlimited date range (to high computing load for reload).

## 6.5 E-mail report

Provision of machine error statistics via automatic e-mail report is possible as well. As already known from other statistics, the user can add any currently configured view to a report:
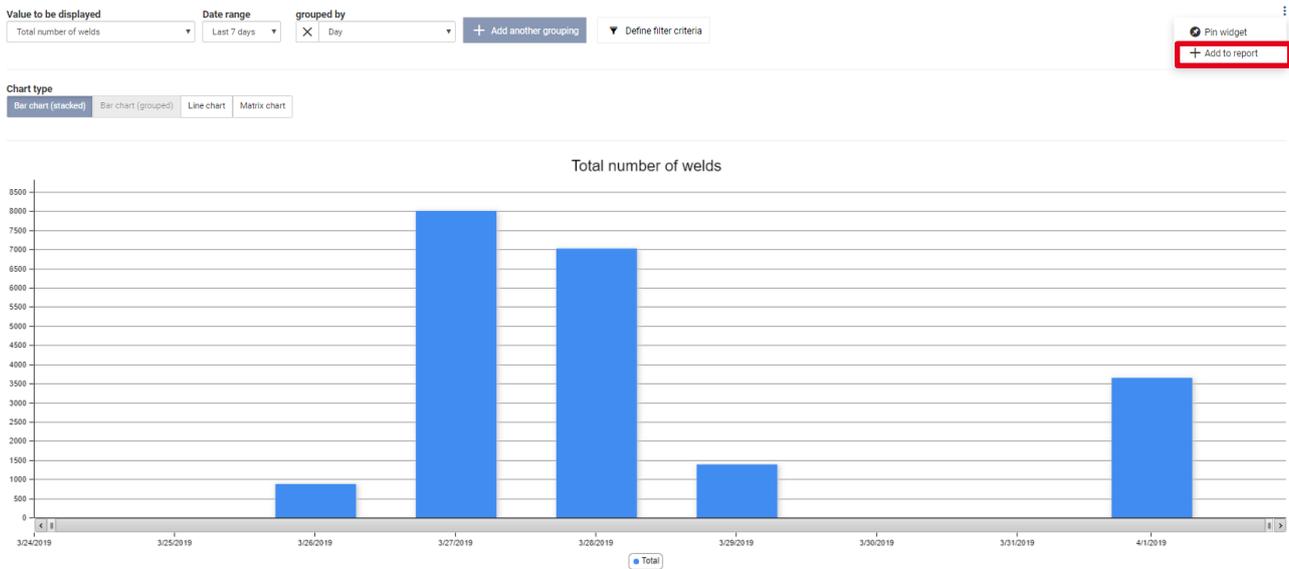


It is also possible to create reports consisting of mixed contents from statistics and maintenance area.

Details on e-mail reporting are available within the release description for release 2.1.

## 6.6 PDF export

Error statistics (current view) can be exported directly as a PDF as well:

# 7 DATA INTERFACE / API

## 7.1 API extension: part status

Based on item and serial number of a part, the part report is available via WeldCube Premium API as of now.

```
[Route("api/v1/Parts/{partItemNumber}/{partSerialNumber}")]
```

The associated welds are linked and can also be called up if required.

## 7.2 API extension: gas consumption

The information on welds and sections contains the gas consumption as of now.
To do so, "WeldData" (welds) now contains SingleStats providing the gas consumption value (Arc gas consumption). Within the Sections, the SingleValueStats was extended and now contains ArcGasConsumption.

## 7.3 WeldCube Premium REST-API – advantages for our customers

**1 interface for all Fronius systems connected to WeldCube Premium**
Available data of all welding devices connected to WeldCube Premium will be prepared and provided for other systems in the same way.



**Historical and prepared data**
All data available on the required topic will be combined to and provided as data packages. WeldCube Premium takes care of…

/ …handling of several welding system
/ …combination and evaluation of collected data
/ …providing complete packages on relevant topics

**No additional costs (covered by software subscription).**