

1. FACTON EPC 12.2 CM

The version FACTON EPC 12.2 CM is a maintenance release with an extended range of functions.

1.1 SYSTEM REQUIREMENTS

see Technical Factsheet

1.2 BACKWARD COMPATIBILITY AND INSTALLATION

INSTALLED VERSION	BACKWARD COMPATIBLE	FACTON UPDATE	INSTALLATION
10.3	x		x
11.3	x		x
12.0	x	x	x
12.1	x	x	x

1.3 RELEASE SUMMARY

In version 12.2, the usage list for elements in data administration (e. g.: machines, purchased parts) has been revised. The usage positions are displayed in a table and can thus be easily filtered and grouped.

The individual parts of the machine cost rate, such as depreciation and consumption, are provided in web reporting for each machine used in the project. Therefore, evaluations over a large amount of projects are simplified.

The usability of dealing with programs has been improved. Programs can now be organized in folder structures.

1.4 FUNCTIONAL ENHANCEMENTS

- Revision of the usage list for calculation elements in data administration
- Extension of web reporting to include machine cost rates for project-specific machines

1.5 MISCELLANEOUS

- Programs and take rates: Administer folder structures for programs and improved program selection for multi and configuration projects
- Project-specific machines: The depreciation and residual value calculation on project-specific machines for annual production start and/or annual production end has been adjusted
- Web reporting: Export of project-specific exchange rates in web reporting over the investment period
- Batch data administration: Display of configuration projects in batch data administration as separate data line in the Project Properties category
- External links: The display and access to external reports can be administered via permissions in the system settings

- License dialog: The assignments in the license dialog can be copied to Excel for evaluations, a corresponding export button has been added
- Origin filters for cost centers and purchased parts are displayed in the selection in alphabetical order
- The column width and the column order in the batch data administration, the additional costs dialog, and the version dialog are now saved user-specifically

2. FUNCTIONAL ENHANCEMENTS

2.1 REVISION OF THE USAGE LIST FOR CALCULATION ELEMENTS IN DATA ADMINISTRATION

The usage list for administration objects has been revised and now displays all usage positions in a table.

Each object position (e. g.: machine or purchased part) in the project is displayed as separate line in the results area. Only projects the user has at least reading permission for are displayed.

The user can open the project as usual from the results area or have it displayed in the Workspace Explorer. If the project is opened, the position of the object is also selected in the structure.

The results can be conveniently copied to Excel.

By default, the user can show and hide columns in the result list, and also change the column order. Columns can also be pinned for easier scrolling.

The result can be filtered and grouped as desired.

Name	Inventory number	Is Project Specific	Project Name	Internal Project ID	Reference Type	Number of References	Number	Reference Group ID	Project Created
M-Default-06	01-06	<input checked="" type="checkbox"/>	Sub_EUR (Kunden: KA-Testkunde 01)	703		0			01.02.2017
M-Default-06		<input checked="" type="checkbox"/>	Sub_EUR	700		0			01.02.2017
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Suppliers: KA-Testlieferant 01)	655		0	P-0123		29.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Suppliers: KA-Testlieferant 01)	655		0			29.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Suppliers: KA-Testlieferant 01)	675		0			30.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Suppliers: KA-Testlieferant 01)	675		0			30.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Locations: KA-Teststandort 01)	676		0			30.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Locations: KA-Teststandort 01)	676		0			30.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Customers: KA-Testkunde 02)	651		0			29.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Customers: KA-Testkunde 01)	648		0			29.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Customers: KA-Testkunde 01)	648		0			29.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Customers: KA-Testkunde 01)	674		0			30.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences (Customers: KA-Testkunde 01)	674		0			30.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences	641		0			29.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences	641		0			29.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences	673		0			30.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProjectReferences	673		0			30.09.2016
M-Default-06		<input checked="" type="checkbox"/>	SimpleProject02	574		0			06.10.2015
M-Default-06		<input checked="" type="checkbox"/>	SimpleProject02	574		0			06.10.2015
M-Default-06		<input checked="" type="checkbox"/>	SimpleProject01	568	Active Reference C	2		1838	06.10.2015

Note: Only usage locations to which you have at least read permissions are displayed.

The following properties are shown for all elements in use by default:

PROPERTY	DESCRIPTION
Name	Name of the object in content language
[ID]	Identifier: The concrete column name depends on the specific configuration
Project Name	Name of the project in content language

PROPERTY	DESCRIPTION
Project Number	Project Number
Internal Project ID	FACTON-internal ID of the project (unique across whole system)
Project Created By	Creator of the project
Project Created On	Creation date
Project Modified By	User who made last changes at the project
Project Modified On	Modification date
Project Type	Type of project (e. g. single project, multi project, costing type, etc.)
Version Name	Name of the version
Version number	Version number
Is last version	Indicates whether this is the current status of work
Folder path	Project path in Workspace Explorer
BoM Path	Object path in the bill of material (BoM)

For machines, the following additional properties are provided:

PROPERTY	DESCRIPTION
Is Project-Specific	Indicates whether the machine was inserted as project-specific
Reference Type	<p>Returns the reference type</p> <ul style="list-style-type: none"> ■ Reference: simple reference ■ Active reference: active reference copy ■ Inactive reference: inactive reference copy <p>If no value is returned, the machine was not inserted as a reference</p>
Number of References	Returns the number of references
Reference Groups ID	Returns the reference group ID, all references belonging to the same machine have the same reference group ID

2.2 ENHANCED WEB REPORTING TO INCLUDE MACHINE COST RATE

The components of the machine cost rate of a project-specific machine are now available in web reporting via the table: WRMachineCostRates.

The components include, among others, depreciation, imputed interest rate and consumption costs. The values are provided over project duration including variable portion.

For detailed description see the Webreporting Documentation.

Machine Properties

General | Special | Calculation | **Investment**

Cost Rates

Machine cost rate: 8.4714 3.8847 €/h. ☐ Manual ☒ Calculated

Setup rate: €/h.

Machine Costs

Investment and Depreciation

Acquisition cost: 100.000.0000 €

Residual value: 0.0000 € ☐ Calculate residual value

Acquisition date: 2021 ☒ Set to start of production (SoP)

Amortization time: 84 Months ☒ Use duration of projects

Imputed Interest

3.000.0000 €/a

0.7960 €/h

Imputed Depreciation

14.285.7143 €/a

3.7906 €/h

Consumption

Energy demand: 1.0000 kW

Foot print: 10.0 m²

Gas demand: 1.0000 m³/a

Water demand: 1.0000 m³/a

Demand of repair: 5.0 %/a

Ressource demand: 1.000.0000 €/a

Demand of auxiliary means: 1.000.0000 €/a

Cost Rates

2.0000 €/kWh

10.0000 €/m²a

0.4100 €/m³

2.6900 €/m³

Ongoing Charges

2.0000 €/h	100.0 %
0.0265 €/h	100.0 %
0.0001 €/h	100.0 %
0.0007 €/h	100.0 %
1.3267 €/h	100.0 %
0.2653 €/h	100.0 %
0.2653 €/h	100.0 %

[Help](#) **OK** **Cancel**

3. BUG FIXES

3.1 FACTON EPC 12.2 CM

- **#15507:** An error in the web reporting export has been fixed. It could happen that the latest status of work was exported, although only the versions should be exported.
- **#14996:** An error with the currency conversion of materials with assigned raw materials has been fixed.
- **#15688:** An error in the multilingual display of fixed selection lists in batch data administration has been fixed.
- **#15860:** In the batch data administration, the exchange rates are now also offered for editing on multi project level.
- **#15722:** Project-specific exchange rates before SOP and after EOP have been made available in web reporting.
- **#15055:** An error in the calculation of the return on sales in batch data administration has been fixed. The error occurred when other actions were performed in the client during calculating.
- **#14453:** An error when reloading the purchase part prices into the project has been fixed.
- **#14961:** An error when exchanging purchased parts in batch data administration has been fixed. The quantity is now converted correctly when another unit of the same unit class is used.
- **#14849:** Copying data rows in the variant matrix is possible again.
- An error when synchronizing project-specific machines between base calculation and costing type has been fixed. The error occurred when the machine was checked out in the costing type.
- **#15471:** An error in database synchronization of projects with referenced assemblies has been fixed.
- An error occurring when calculating inflation was fixed. Inflation on cost center rates was not displayed correctly after loading the project.
- **#15569:** An error when loading the ribbon was fixed. The error occurred mainly when adding reports.
- **#15579:** An error in displaying calculation schema elements in reports has been fixed. German names were used even in English reports.
- **#15822:** An error when deleting not explicitly assigned locations in the Project Cockpit was fixed.
- An error displaying manufacturing times in the synchronizing dialog for costing types has been fixed. When updating the dialog, the manufacturing times were recalculated with each update.
- An error when synchronizing quantities of sub-projects in costing types has been fixed.
- An error in the versioning of base data in multi and configuration projects has been fixed.
- In Excel project import, the value for percentage discounts on sales prices is interpreted again as in version 10 and 11. A value of 0.09 is imported as 9 %.
- **#15009:** An error when restoring the current state of work for configuration projects with costing types as sub-projects has been fixed.
- **#15882:** An error when logging in via Single Sign-on was fixed.
- An error in versioning and saving under of projects with annual labor wage rates has been fixed.
- An error in the master data synchronization of purchased parts has been fixed. It could happen that the price determination changed after synchronization.