



FACTON EPC 15.0 CM

COST MANAGEMENT

LEADING IN ENTERPRISE PRODUCT COSTING | WWW.FACTON.COM



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FACTON GmbH Konrad-Zuse-Ring 12b 14469 Potsdam, Germany

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Support Requests:

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2.1 FACTON EPC 15.0 CM

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1. FACTON EPC 15.0 CM

The version FACTON EPC 15.0 CM is the new main version 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
12.X	х		×
13.X	х		×
14.X	х		х

1.3 FUNCTIONAL ENHANCEMENTS

1.3.1 Tiered Prices

Our new tiered pricing logic enhances the way purchased part and standard part prices are managed and calculated, offering more flexibility and precision. Prices can be administered depending on price breaks (order quantity ranges) and are automatically calculated based on the order quantity used in the project.

Enhancement of Data Administration for purchased/standard parts

- The user can define tiered prices for purchased and standard part in the Data Administration
- Tiered prices can be administered for different price origins (e.g. supplier, location) and different validities
- Fiered prices can be either manually administered or imported using the Excel master data import
- The user can synchronize modified tiered prices from Data Administration with the project



1	Name 🛛 🖓	Name [German]	an] 中 Name [English] -	Inventory num	oer ⊽+⊃	Dimensions	7+₽	ISO identifier	γ÷₽	DIN identifier	7+₽	Rating	V÷ F	Refinem	ent ⊽+¤	Mass [g]	7+₽	Order numbe
_	Housing	Housing	Housing	5818													0,00	
	Shaft Type A	Shaft Type A	Shaft Type A	5834_A													0,00	
	Bolt hardened	Bolt hardened	Bolt hardened	5806													0,00	
	Stator / Rotor Assembly Type B	Stator / Rotor A	Asse Stator / Rotor Asse	5802_B													0,00	
	Stator / Rotor Assembly Type C	Stator / Rotor A	Asse Stator / Rotor Asse	5802_C													0,00	
	Bearings	Bearings	Bearings	5835													0,00	
	Permanent magnets	Permanent mag	gnets Permanent magnets	5836													0,00	
	Connector	Connector	Connector	5837													0,00	
	Thermal protection	Thermal protect	ction Thermal protection	5838													0,00	
	Mounting bracket	Mounting brack	cket Mounting bracket	5839													0,00	
	Shaft Type B	Shaft Type B	Shaft Type B	5834_B													0,00	
	Shaft Type C	Shaft Type C	Shaft Type C	5834_C													0,00	
	Assignments Miscellaneous			_			v					_						
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Price determination in the project

- The system automatically applies the price based on the order quantity at the part
- The order quantity can either be automatically calculated or manually entered by the user.
- The calculated order quantity results from the quantity sum of identical purchased or standard part in the single project and the purchased lot size defined at the project level.

Order Quantity = Purchased Lot Size * Absolute Part Quantity

Note

F

As the part quantity is calculated for all identical parts, referencing of the parts is not necessary.

Display of tiered prices

- The order quantity and corresponding prices can be displayed in the List Style
- Additional information is displayed in the separate window "Annual Attributes"
- The window may also be used to display customer-specific annual attributes



roject type: ife cycle: alculation year: luantity:	166.200		Quantity	Unit	Currency	Order Quanti	ty F	Price	Material Cost EUR/piece		
Annual quantity: Basic data:	2.000 Location-Stuttgart										
Servon	otor Variant A (SERVO-E	MEA-2022)	166.200	(70,1	3	
🗄 🛅 Extra d	harges										
	/omotor (SM) ditional costs		1	piece					70,1	3	
	nctional costs										
- P Ro											
	Final Assembly (Assemb		1								
	ZB DC E-Motor (Assemb	oly2)	1						37,6 37,6		
	Quantity: 1.00 piece Additional costs		'	piece					57,0	1	
fx	Functions										
	Routing										
	Wire spring steel 63 (Lodestone segment)		3			600,00 pi 400,00 pi		EUR/piece EUR/piece	25,1		
	Lodestone segment : Stator / Rotor Assem		2			400,00 pi 400,00 pi		EUR/piece	5,5		
	Bushing (5891)	ibly type A	1			200,00 pi		EUR/piece	1,0		
÷	Thermal protection (1	piece		400,00 pi		EUR/piece	1,9		
	Self tapping screw (5810		2			400,00 pi		EUR/piece	0,0		
	Self tapping screw C3.5x Housing (5818)	9.5 (5801)	2			400,00 pi 200,00 pi		EUR/piece EUR/piece	0,7		
	Shaft Type A (5834_A)		1			200,00 pi		EUR/piece	2,4		
	Bolt hardened (5806)		1	piece		200,00 pi		EUR/piece	5,3	6	
÷ 🗆 🤍	Thermal protection (583	8)	1	piece		400,00 pi	ece 1,78	EUR/piece	1,9	1	
<		>									
	Web Reporting	g Status : da	ita not export	ed							
Annual Attri	butes										
Diect: Therm	al protection (5838)										
Tiered Prio											
	Name	Value	Unit Use	e validities	s 2023	2024	2025	2026	2027	2028	2029
1	roject Quantity	p	iece		2.000	27.000	31.000	31.000	28.000	27.200	20.000
	bsolute Part Quantity		iece		2,00	2,00	2,00	2,00	2,00	2,00	2,00
	otal Part Quantity	p	iece		4.000,00	54.000,00	62.000,00	62.000,00	56.000,00	54.400,00	40.000,00
1	urchased Lot Size	p	iece		200	27.000	31.000	31.000	28.000	27.200	20.000
	Anual Order Quantity	p	iece								

Current limitations

- The auto-calculation of the order quantity is currently limited to single projects
- The current order quantity for parts that have already been purchased cannot be administered and used for the calculation just yet (planned for version 15.1)
- Pricing taking the order quantity into account is only possible for the "Offer" mode with automatic price determination

Further Information Further details on the calculation of tiered prices in the Cost Management are available in our Online Help (help.facton.com).

1.3.2 Window for Annual Attributes

- For displaying and entering properties including validities in the project, the separate area "Annual Attributes" was implemented
- Customer-specific properties (attributes) that are configured as validity-bound are displayed here



The values of these properties are currently entered within the production period

It is currently not possible to predefine properties with validities in the Data Administration

Life cycle: Calculatio Duantity: Annual qui	on year: 2023 166.200		Quantity	Unit	Currency	Order Quantity	Price	e 1	Material Cost EUR/piece		
Basic data											
- 😭 s	Servomotor Variant A (SERVO-EMEA	166.20	0					70,16			
	Extra charges								70.44		
	🍟 Servomotor (SM)			1 piece					70,16		
	$f_{\mathcal{X}}$ Functions										
	P Routing										
	Final Assembly (Assembly1)			1 piece					27.67		
	□ 🚮 ZB DC E-Motor (Assembly2) □ 🗊 Self tapping screw (5810)			1 piece 2 piece		400,00 piece	0.04 FL	IR/piece	37,67 0,09		
	Self tapping screw (3010)	(5801)		2 piece		400,00 piece		IR/piece	0,75		
÷[🗌 🤍 Housing (5818)			1 piece		200,00 piece			21,92		
	Shaft Type A (5834_A)			1 piece		200,00 piece		IR/piece	2,47		
	□			1 piece 1 piece		200,00 piece 400,00 piece		IR/piece IR/piece	5,36 1,91		
				i piece		400,00 piece	1,70 20	ny piece	1,91		
nnual	Attributes										
bject:	Attributes Self tapping screw C3.5x9.5 (5801) ed Prices										
bject:	Self tapping screw C3.5x9.5 (5801)	Value	Unit	Use validi	ties 2023	2024	2025	2026	2027	2028	2029
bject:	Self tapping screw C3.5x9.5 (5801) ed Prices	Value	Unit piece	Use validi	ties 2023 2.0		2025 31.000	2026 31.00		2028 27.200	
bject:	Self tapping screw C3.5x9.5 (5801) ed Prices Name	Value 2,00			2.0				0 28.000		20.000
bject:	Self tapping screw C3.5x9.5 (5801) ed Prices Name Project Quantity		piece		2.0	00 27.000 00 2,00	31.000	31.00	0 28.000 0 2,00	27.200	20.00
bject:	Self tapping screw C3.5x9.5 (5801) ed Prices Project Quantity Absolute Part Quantity		piece piece		2.0 2, 4.000,	00 27.000 00 2,00	31.000 2,00	31.00 2,0	0 28.000 0 2,00 0 56.000,00	27.200 2,00	20.000 2,00 40.000,00
)bject:	Self tapping screw C3.5x9.5 (5801) ed Prices Project Quantity Absolute Part Quantity Total Part Quantity		piece piece piece		2.0 2, 4.000,	00 27.000 00 2,00 00 54.000,00	31.000 2,00 62.000,00	31.00 2,0 62.000,0	0 28.000 0 2,00 0 56.000,00	27.200 2,00 54.400,00	20.000 2,00 40.000,00
)bject:	Self tapping screw C3.5x9.5 (5801) ed Prose Project Quantity Absolute Part Quantity Total Part Quantity Purchased Lot Size		piece piece piece piece		2.0 2, 4.000,	00 27.000 00 2,00 00 54.000,00 00 27.000	31.000 2,00 62.000,00	31.00 2,0 62.000,0	0 28.000 0 2,00 0 56.000,00 0 28.000	27.200 2,00 54.400,00	2029 20.000 2,000 40.000,00 20.000
bject: :	Self tapping screw C3.5x9.5 (5801) ed Prices Name Project Quantity Absolute Part Quantity Total Part Quantity Purchased Lot Size Manual Order Quantity Order Quantity		piece piece piece piece piece		2.0 2, 4.000, 2	00 27.000 00 2,00 00 54.000,00 00 27.000	31.000 2,00 62.000,00 31.000	31.00 2,0 62.000,0 31.00	0 28.000 0 2,00 0 56.000,00 0 28.000	27.200 2,00 54.400,00 27.200	20.000 2,00 40.000,00 20.000
bject: :	Self tapping screw C3.5x9.5 (5801) ed Prices Name Project Quantity Absolute Part Quantity Total Part Quantity Purchased Lot Size Manual Order Quantity Order Quantity		piece piece piece piece piece		2.0 2, 4.000, 20 400,	00 27.000 00 2,00 00 54.000,00 00 27.000 00 54.000,00	31.000 2,00 62.000,00 31.000	31.00 2,0 62.000,0 31.00	0 28.000 0 2,00 0 56.000,00 0 28.000	27.200 2,00 54.400,00 27.200	20.000 2,00 40.000,00 20.000
bject: Tiere	Self tapping screw C3.5x9.5 (5801) ed Vrices Name Project Quantity Absolute Part Quantity Total Part Quantity Purchased Lot Size Manual Order Quantity Order Quantity	2,00	piece piece piece piece piece piece		2.0 2,0 4.000, 20 400, ties 2023	00 27.000 00 2,00 00 54.000,00 00 27.000 00 54.000,00	31.000 2,00 62.000,00 31.000 62.000,00	31.00 2,0 62.000,0 31.00 62.000,0	0 28.000 0 2,00 0 56.000,00 0 28.000 0 56.000,00 2 2027	27.200 2,00 54.400,00 27.200 54.400,00	20.000 2,00 40.000,00 20.000 40.000,00 2029
bject: Tiere	Self tapping screw C3.5x9.5 (5801) ed Vices Name Project Quantity Absolute Part Quantity Total Part Quantity Purchased Lot Size Manual Order Quantity Order Quantity eral Name Name	2,00	piece piece piece piece piece piece	Use validi	2.0 2,1 4.000, 20 400, ties 2023 2,1	00 27.000 00 2,00 00 54.000,00 00 27.000 00 54.000,00	31.000 2,00 62.000,00 31.000 62.000,00	31.00 2,00 62.000,00 31.00 62.000,00 2026	0 28.000 0 2,00 0 56.000,00 0 28.000 0 56.000,00 0 56.000,00 0 2027 0 4,00	27.200 2,00 54.400,00 27.200 54.400,00	20.000 2,00 40.000,00 20.000 40.000,00 2029 4,00
bject: :	Self tapping screw C3.5x9.5 (5801) ed Vices Name Project Quantity Absolute Part Quantity Total Part Quantity Purchased Lot Size Manual Order Quantity Order Quantity edition Tansport [%]	2,00 Value	piece piece piece piece piece piece	Use validi	ties 2023 2,0 4,000, 20 400, 20 20 20 2, 0, 0,	00 27.000 00 2,00 00 54.000,00 00 27.000 00 54.000,00 00 54.000,00	31.000 2,00 62.000,00 31.000 62.000,00 62.000,00	31.000 2,00 62.000,00 31.000 62.000,00 2026 4,00	0 28.000 0 2,00 0 56.000,00 0 28.000 0 56.000,00 	27.200 2,00 54.400,00 27.200 54.400,00 2028 4,00	20.00 2,0 40.000,0 20.00 40.000,0 2029 4,0 0,0
)bject: 3	Self tapping screw C3.5x9.5 (5801) ed Vice Name Project Quantity Absolute Part Quantity Cotal Part Quantity Purchased Lot Size Manual Order Quantity Order Quantity edit	2,00 Value 0,00	piece piece piece piece piece piece	Use validi	2.0 2,1 4.000, 2 4.000, 2 400, 2 400, 2 2 400, 2 0, 0, 0, 0, 0, 0, 0,	00 27.000 00 2,00 00 54.000,00 00 27.000 00 54.000,00 00 54.000,00	31.000 2,00 62.000,00 31.000 62.000,00 62.000,00 2025 4,00 0,00	31.000 2,00 62.000,00 31.000 62.000,00 62.000,00 2026 4,00 0,00	0 28.000 0 2,00 0 56.000,00 0 28.000 0 56.000,00 0 56.000,00 0 4,00 0 0,000 0 0,000	27.200 2,00 54.400,00 27.200 54.400,00 2028 4,00 0,00	20.000 2,00 40.000,00 20.000 40.000,00

1.3.3 New Color Scheme for Calculation Modes

The colors of the calculation modes have been adjusted to the future color scheme. These display changes must be activated (like the new table design) via the system settings (Settings | User | Display | UI preview functions).



Servomotor Variant A (NO_1)	53,71	64,72		Admin
Extra charges				
	53,71	53,72	Variante 1	Admin
🗄 🌮 Additional costs				
-fx Functions				
- Prouting				
🖶 🗍 🛃 DC E-Motor Assembly (ASSY_002)	32,62	32,62	Variante 1	Admin
# Quantity: 1.00 piece	32,62	32,62		
- 🤣 Additional costs				
-fx Functions				
🖻 🏈 Routing	15,50			
🗊 🎲 RT10 (5804) Loading / Unloading	11,68			Admin
🕮 🏶 RT20 (5851) Assembly process	2,37			Admin
🕀 🍓 RT30 (5817) Fitting electric	0,12			Admin
RT40 (4.5.1.1.2) Pick up and Place	0,08			Admin
RT50 (5845) Functional check	1,25			Admin
🗉 🖓 RT60 (125) Final Inspection and Packaging				Admin
🗄 🗆 🗐 Stator, Rotor Assembly Type A (5802_A)	2,98	2,98		Admin
	2,47	2,47		Admin
⊕ 🔲 🥥 Bearings (5835)	0,73	0,73		Admin
	0,60	0,60		Admin
⊕-□ <a> □ □<td>5,21</td><td>5,21</td><td></td><td>Admin</td>	5,21	5,21		Admin
⊡-□ Mounting bracket (5839)	5,13	5,13		Admin
Housing (ASSY_003)	8,75	8,75	Variante 1	Admin
🕀 🔲 🧊 Self tapping screw (5810)	0,17	0,17		Admin
B Self tapping screw C3.5x9.5 (5801)	1,44	1,44		Admin
	10,72	10,72		Admin



1.4 OTHER ENHANCEMENTS

1.4.1 Improvement of the annual preview for additional costs

The section "Annual preview" in the additional cost dialog has been adjusted so that it can be displayed without scrolling.

1.4.2 Calling up the Batch Data Administration via context menu

The Batch Data Administration can now be accessed directly from the context menu of the Workspace Explorer or at the (open) project node. Additionally, the entire project structure is activated for editing by default.

1.4.3 Improvement of the manual setup rate at the manufacturing process

The unit of the manually entered setup rate ("Advanced" mode) is now saved correctly.

1.4.4 Default payment rule for project-specific machines

The system settings for project-specific machines can be configured to use default payment rule values for investment calculations.

1.4.5 Displaying project levels in reports

For the data channels "JahresvorschauStrukturReport" and "MultipleProjectFilteredStructureReport", it can be defined how many levels of a (multi-level) project structure should be resolved.

1.4.6 Displaying volume scenarios (Programs & Take Rates) in reports

For the data channels "JahresvorschauStrukturReport" and "MultipleProjectFilteredStructureReport" you can also have the volume scenario defined at the multi project displayed.

1.4.7 Availability of origins at basic data

The "Active" checkbox at assigned origins of basic data entries in the Data Administration determines whether the basic data is available for the origin in the project or not.

Example:



For example, if an assigned location is **deactivated**, the basic data entry is no longer available in the production planning for this location.



Prod	uction Pla	anning									
Productio	on Period										
Begin (S	OP): Ju	uni 2024	*								
Duration	i 🗌 fo	x 1 📫 a 0	Month(s)								
End (EO	P): N	1ai 2025	÷								
Fiscal Ye	ars Calendar Ye	ears Quantity Distribu	ition								
2	Fiscal Year	Gross Quantity	Deduction [%]	Quantity	Total Quantity	Number of Lots	Purchased Lot Size	Location	Receiving Country Group	Basic Data	Basic Data - Origin
▶ 2	4/25	10,000	0.00	10,000	10,000	1	1	Dresden	EU - European Union	OEM 1 🗸	(BD_OEM1) OEM 1
										OEM 1	
										OEM 2	

Due to the inactive link between basic data entry and location, both can no longer be set together as default value in the user settings.

Settings

Project	Default Values Production Planning	
···· Default Values ···· Display	Gross quantity:	10000
Languages Miscellaneous	Deduction [%]:	0.0
Unit System	Number of lots:	1
	Purchased lot size:	1
	Location:	Dresden 🗸
	Basic data:	OEM 1 ✓
		OEM 1 OEM 2

0

Note

If the location has not been activated for any basic data entry, the location is not available for basic data at all.



2. BUG FIXES

2.1 FACTON EPC 15.0 CM

- Investment calculation
 - FD #18062: The investment distribution of additional costs with manual distribution is no longer initially pre-assigned.
 - FD #18855: A bug in the monthly investment calculation was corrected. Previously, the calculation scheme returned only annual values before the start of production (SOP).
- Data Administration
 - FD #18937: If a manufacturing process is exchanged in the project, the assigned additional costs are exchanged accordingly.
 - An error with inserting purchased parts from the Data Administration via drag & drop has been fixed. The unit was incorrectly set when a unit class other than "piece" was used.
- Batch Data Administration (BDA)
 - FD #18660: An error when exchanging purchased parts in the BDA has been fixed. The bug
 occurred when units with the same conversion factor were defined within the same unit class. If
 the units are compatible, the unit of the purchased part to be exchanged is used.
 - The variable share of the machine cost rate is now displayed correctly in the BDA as soon as the machine has been assigned to a cost center.

Reporting

- FD #18722: An error when displaying the report description in English has been fixed.
- FD #18798: An error when transferring attribute values to the part in data channel "ProjectCompareReport" has been fixed.
- An error in the data channel "JahresvorschauStrukturReport" has been fixed. It could happen that for the functions "GetSurchargeValue" and "GetSurchargeValueWithQuantity" the total value was returned over the production runtime instead of an annual value.

Costing scheme

- An error in the assignment of other activities to a cost element has been fixed. The selection of the
 activity was lost after the change was confirmed with "Apply".
- An error when using the property "Project.AnnualGrossQuantity" was fixed. The error occurred when an attempt was made to access values outside the production period.
- "Scaling" calculation mode
 - A bug in copying parts in "Scaling" mode was fixed. The error occurred when the part was copied into another project. The costs were not correctly displayed.
 - A bug in versioning projects with parts in "Scaling" mode was fixed. The deviation between target costs and costs was not correctly displayed in the version.
- Excel BOM import
 - FD #18179: An error when importing the cycle time at manufacturing processes was fixed. The
 error occurred when the cycle time was to be imported without assigning the cavity.



- FD #18279: An error during the import using the "Infragistics" driver has been fixed. The import could not be completed when a large number of formulas was used. As a result, the formula validation has been disabled.
- The emission factors were not applied when assigning location factors in the project. This is now fixed.
- Excel project import
 - FD #18206: An error when inserting single projects into a multi project was fixed.
 - When the projects were created via the Excel project import, they had to be opened and saved each time before inserting. The error occurred because the setting for the investment period was not taken into account.
 - FD #18268: An error when using the "Excel Interop" driver has been fixed.
 - FD #18614: A bug occurring when using the new domain logic was fixed. The bug showed when the SOP month was not set.
 - FD #18626: A bug when setting the correct workflow status during the Excel project import was fixed.
 - FD #18663: An error when defining the lot size was fixed. The lot size at the top assembly is now automatically determined again.
- **FD #18513**: System settings An error when saving the settings for the workflow status has been fixed.
- **FD #18201**: Project comparison An error in displaying the column header in the project comparison was fixed. The error occurred when the absolute and percentage deviation was additionally displayed as a column.
- **FD #18572**: Exchange rates A bug in permissions for editing exchange rate tables in the Project Cockpit was fixed. It happened that users could not change the exchange rates even when the permissions were set correctly.
- **FD #18827**: Attributes Default values for attributes are now stored correctly in the database.
- **FD #18112**: Programs & Take Rates A problem with simultaneous editing of take rates has been fixed. The error led to inconsistent states of the quantities in the project.
- **FD #18525**: QBD An error when creating costing types after synchronizing them with the base project was fixed. The costing type could only be created after saving it again.
- Export quotation templates An error when exporting project costs to external quotation templates has been fixed. The bug occurred when multiple short names for currency units were administered.
- Sales prices The absolute and percentage deltas (savings) are now correctly displayed as read-only for the first year.
- Versioning An error in the versioning of project-specific shift model information was fixed. The error occurred when using the new domain logic.