

100% SAP-Integrated Calculation – flexible and simplified



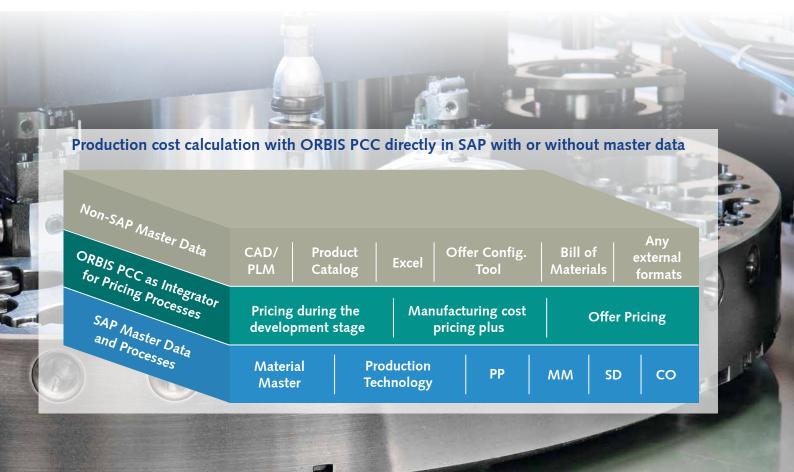
Optimal calculation in SAP with ORBIS Product Cost Calculator (ORBIS PCC)

Only companies that accurately calculate their product and manufacturing costs and quotations, also across departments, and have a complete overview thereof - from construction, sales to controlling – will be economically successful for the long term. The more precise the cost estimate, the more sound the decision-making bases are, ensuring a forward-looking and efficient control of the company. SAP ERP must be the system that achieves these goals.

Although a large number of manufacturing companies already use SAP ERP for the planning and managing of their business processes, in most cases, production costs (material prices, hourly rates, tariffs etc.) are calculated and simulated in external solutions such as Microsoft Excel or Access. As these calculations are generated decentralized, i.e. outside of SAP, neither data flows nor calculation histories can be reproduced. A further disadvantage is the high error rate and the enormous maintenance effort in terms of time, as the calculation data constantly need to be manually copied or transferred between SAP and Excel and updated. This problem is exacerbated for complex products or products involving a large number of variants.

Product cost calculation without redundant data storage directly in SAP with ORBIS PCC

The ORBIS Product Cost Calculator (ORBIS PCC), an SAP add-on based on ABAP, enables calculation directly in SAP, across accounting and cost accounting areas with a uniform calculation scheme. The online access to current controlling and production data as well as purchasing and sales terms, which is maintained centrally in SAP, makes it possible to accurately and quickly calculate product and manufacturing costs, from the construction to the quotation phase. Wage labor or external work processes are also considered. ORBIS PCC extends SAP Standard: With ORBIS PCC, all calculation phases are located 100% in SAP – SAP is the main system.



Processes supported with ORBIS PCC

The ORBIS Product Cost Calculator optimally supports the following application areas for the determination of manufacturing costs:

1. Construction and development cost calculation

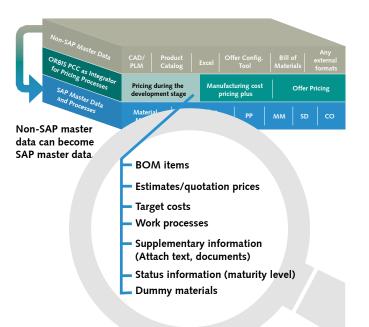
When developing new products, cost estimators often need to work with calculation items for which neither master data exist in the SAP system, nor prices are known for. With ORBIS Product Cost Calculator new materials or assemblies, for which no material numbers nor purchase prices are yet entered in the SAP systems, can be created with a price and a short text. These materials or assemblies which are not available in SAP, can be generated and created as new SAP master data via a function integrated into the add-on, when an order is placed. The ORBIS Product Cost Calculator estimates materials with pre-set calculation variants and calculation procedures. Prices can also be manually adjusted in the calculation: All changes are fully documented and thus reproducible at all times.

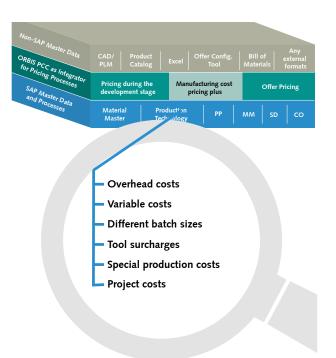
No master data are created yet, however, the calculation is performed in SAP. The cost type can be assigned here, in order to manage the associated overhead costs.

2. Manufacturing cost calculation Plus

Compared to standard material cost calculations, additional cost elements (e.g. tool costs) can be added in the manufacturing cost calculation Plus in the form of surcharges and variable items. It is possible to both simulate and change a material calculation, as well as to compare different calculations. Also, calculations with the same contents can be performed and saved with different calculation variants.

Separate surcharges or variable items are added.



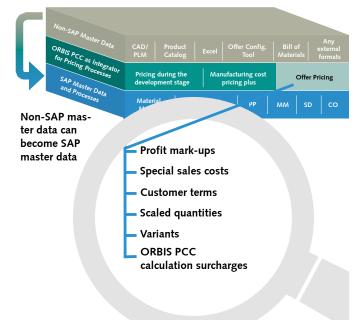


Processes supported with ORBIS PCC

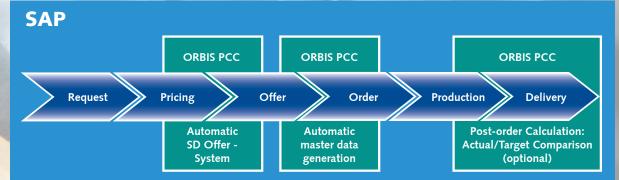
3. Cost calculation

Individual or special manufacturers often create extensive quotations, which need to be changed often or recalculated, before the customer places the order. However, only a small number of quotations actually results in orders. To avoid creating and maintaining unnecessary master data, ORBIS Product Cost Calculator allows calculations with dummy master data (materials, work schedules, assemblies). The cost estimate can be transferred into an SD offer without media break. All terms saved in the customer master data (e.g. discounts, commissions, freight costs etc.) can be reused.

No master data need to be created. In this case, quantity-based purchase terms are applied. The cost estimate can be calculated based on a request and transferred into an SD offer.



ORBIS PCC – Efficient calculating based on consistent process integration



With ORBIS PCC, all pricing phases are completed 100% in SAP. Therefore, processes for product development/production, purchasing, sales and controlling are supported optimally. SAP is the leading system.

ORBIS PCC: A crucial added value for calculation in SAP

Functional highlights of ORBIS PCC

- Calculation and simulation exclusively in SAP (PP, CO, MM, SD, PS)
- Calculation and simulation across cost estimate and accounting areas
- Calculation with and without SAP master data
- Calculation and simulation of a complete product cost lifecycle
- Generation of calculations without templates or based on document structures, sales receipts, sales materials, work schedules etc.
- Creation of calculation templates
- Creation of calculations and processing by means of context menus (right mouse button), graphic elements (colors, icons) and copy tools
- Define own surcharges (in percentage, as a fixed value, formula)
- Calculation versions (max. 99) and calculation comparisons
- Extensive search tools, change history and error list

Advantages and benefits of ORBIS PCC

Advantages for calculation processes

- Up-to-date, accurate calculation data and quick creation and simulation of calculations through "real-time" integration into the existing SAP ERP system
- Low maintenance, as existing ERP data are accessed from almost all SAP modules: integrated data models, therefore no data redundancy
- Quick retrieval of calculations (centrally stored in SAP, various search functions)
- Uniform central calculation with or without master data in SAP
- Intuitive and user-friendly operation
- Quick creation and processing of calculations with calculation templates
- Cost and process transparency across product cost life cycles, tools and country borders for quick and sound management decisions
- Efficient calculating based on consistent process integration (e.g. request cost estimate order) and avoidance of media breaks

- Individually adjustable status system (maturity) on calculation level
- Automatic quotation generation in SAP SD
- Integration into SAP variant configuration
- Customer-specific extensions or integration of external data sources at any time through SAP User Exits and BADIs
- Automatic creation of SAP master data
- Optionally, calculation with external data from PLM or CAD systems, material catalogs, machining times calculators, cycle time calculators

Extended functions

- Integration for cost / benchmark databases
- Calculation of machine hourly rates, processing operations and material prices according to countries and regions (to be selected)
- Long-term project calculations
- Work flow-supported calculation processing and generation of cost estimates
- Efficient "make-or-buy" decisions through market and supplier analyses based on average, global material, machine and labor costs

Advantages through SAP technology or integration

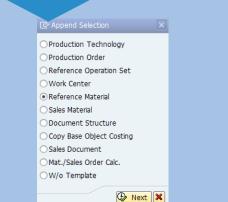
- SAP basis technology: existing company SAP / IT resources can be used
- Users already work with SAP and can immediately create calculations without extensive training requirements
- No further investments into additional infrastructures (server, database) required
- Reduction of number of interfaces, systems and potential sources of error
- Investment protection: own SAP name space; ORBIS PCC can be extended through standardized SAP interfaces at any time
- Reduction of process costs through automated generation of master data

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Intuitive operation and functionalities ...



New calculations can be accessed via different channels (e.g. via master data or sales receipts). A new calculation can be started or a completed calculation can be used as the basis for a modified calculation.





Parts from a multi-level specified BOM list (material or calculation) can be **copied and inserted** into other calculations.



Easy copying or moving of individual items with **drag & drop function**. Items/elements can be copied and inserted at a different location.

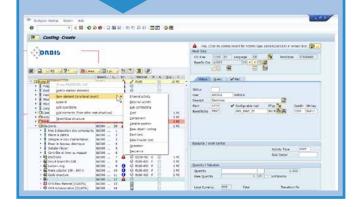


Intuitive operation through visual support (graphic symbols and colors).

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The following actions can be initiated via a **context menu** (right mouse button): Change, delete or insert items.



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An error list is displayed and explained.

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Complete access to all information in all SAP tables possible.

Calculation across accounting and cost accounting areas.



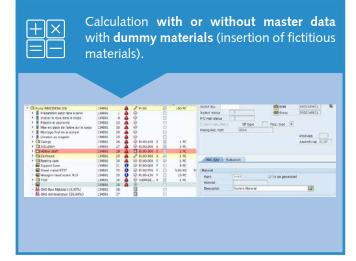
Construction data / CAD data can be read into ORBIS PCC.

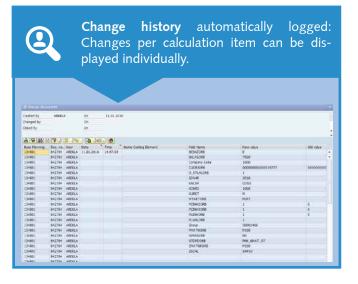
... simply the calculation in SAP



99 different calculation versions possible. Depending on the desired scaled quantities, a quantity-based calculation version is created for each calculation batch size.









Comparison of multiple calculations possible (e.g. for the visualization of different manufacturing alternatives).

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Documents can be integrated (e.g. external quotations or own notes on certain items). Costing 1045 Change (**70** ☞ /OCALC/CAL 100000000000000001045 _____ 🔁 🔽 🖌 🔄 🗖 🖉 🛃 🛃 Create Attachm ot Create note Create external document (URL) 📕 1 pc 🔪 🔁 🎦 🖉 C Store business document BaseO... I... Err. ... Material P. A. Enter Bar Code 0 104501 Ø ▶ Make parts ready from production orde 104501 ۲ 1 ▶ 불 Force the wheel in the casing 104501 9 Ō Painting the casing 104501 13 ۲



Data maintenance only **centrally in SAP**. SAP is the main system.

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Example: Calculations and simulations ...

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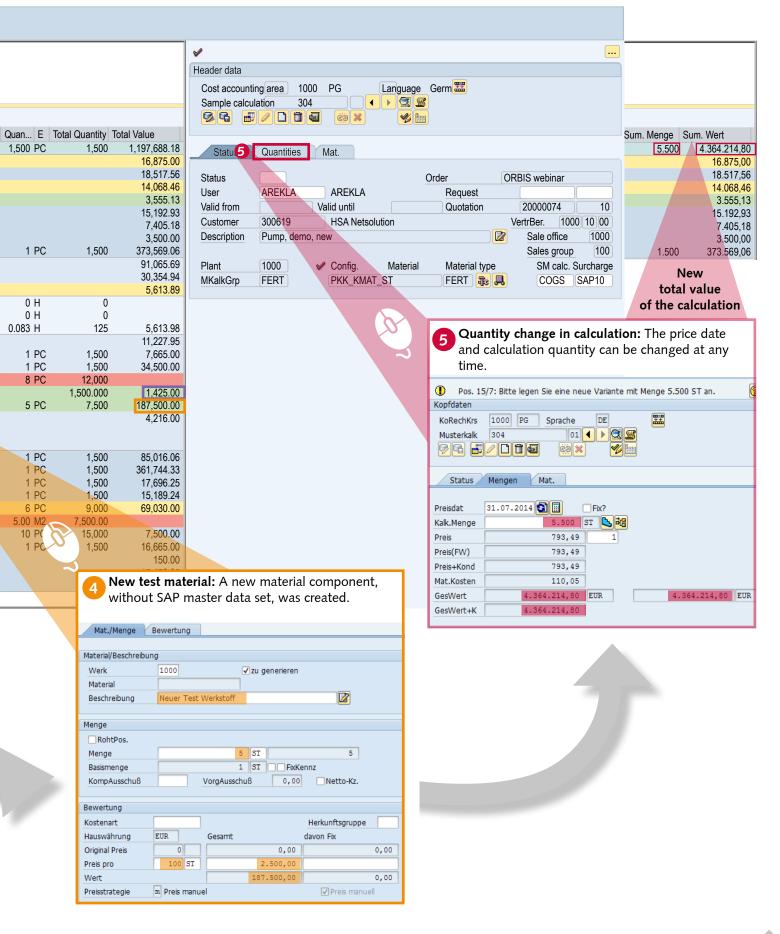
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Additional costs: Unforeseen additional costs can be specified directly in the calculation.

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... easy with ORBIS PCC in SAP



Outlook: ORBIS PCC functionality

Long-term project calculation

- The special feature of the project calculation is the spreading of project costs over several years, taking into account both inflation and cost increase factors (e.g. labor costs, material prices, raw material prices etc.) as well as cost savings potentials demanded by customers. This is made possible through the definition and creation of milestones, own surcharges etc. in ORBIS PCC.
- Wage rates and purchase prices can be escalated over the total term. Any time-dependent surcharge factors can be mapped. Milestones can be defined and evaluated on an individual basis.
- Special feature for orders/tenders by industrial companies for the public sector: ORBIS PCC allows for the creation of auditable tender documents taking into account the statutory guidelines for pricing review and pricing law.

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Use of benchmark data

- Within a manufacturing cost calculation, a comparison of global location factors via an external cost comparison data base – integrated into ORBIS PCC – is possible.
- This allows companies to better analyze and compare supplier offers, enabling them to specify sound cost specifications for future supplier relationships, already from the start.
- Instead of accessing existing SAP master data, calculations can be simulated with external comparative data: average costs of materials, machines (run-times), wages and energy cost from over 60 countries can be imported into the ORBIS calculation.
- This comparison database contains about 240,000 data entries, 30,000 different process and benchmark costs for parts and systems as well as more than 60 country-specific data. The data base is updated every 3 months. Own entries can be added individually to the tables from the benchmark database.

Analyses with Crystal Reports

- In field of Business Intelligence (BI), SAP offers market-leading solutions. Crystal Reports is a flexible SAP reporting tool with excellent layout functions for professional reporting, which can be used flexibly with different types of data sources.
- ORBIS AG develops customer-specific Crystal Report reports which contain the customer data from an OR-BIS PCC interface. These reports are directly displayed on the SAP GUI (Graphical User Interface) and can be called up directly from a calculation.
- The individual reports are stored on the SAP ECC Netweaver server. The customer's corporate design/lay-out can be fully mapped.

Conveniently calculate in SAP in just a few days

The introduction of ORBIS PCC is quick and easy and only takes 3 steps:

1 ORBIS supplies the ORBIS PCC transaction as a transport order, which is exported from the customer's IT into an SAP test or quality system.

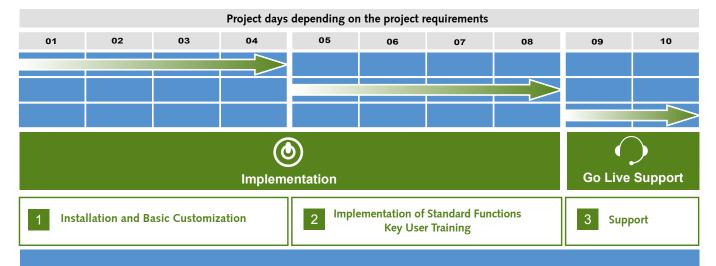
In coordination with the customer, customizing / parameterization settings are configured in SAP Standard (CO, SD) and In ORBIS PCC, and the standard functions and processes are implemented and tested.

3 This is followed by the initial training of the key users. If no additional customer-specific additional development is now required, the ORBIS PCC application can now be taken over into the production system.

This means, a project can be realized in one to three months.

Technical information:

- No additional infrastructure required
- 100% integrated into SAP as an SAP add-on (exclusively developed in ABAP)
- Own globally protected namespace avoids conflicts with SAP ERP Standard
- SAP release ECC 6.0 and higher



Test installation: ORBIS offers potential customers the option of testing ORBIS PCC on their own SAP test or Sandbox system. One requirement for this is a copy of the SAP productive systems, which his max. 6 to 12 months old. Another requirement is the participation in a two-day intensive test workshop, where pre-defined calculation processes are run through and tested. Before the start of the workshop, the necessary parameter settings are performed in ORBIS PCC, necessary master data are created and the SAP test system is adjusted accordingly. Following the workshop, ORBIS PCC is available for an extensive 4-week trial phase, which is guided by ORBIS on all levels.

EXCERPT OF OUR REFERENCES



About us



ORBIS is a business consulting company with international operations. ORBIS supports and provides consulting services for international Group companies and small and mid-sized businesses—from IT strategies, system selection, and optimization of business processes to system implementation and system integration. ORBIS uses solutions from the market leaders SAP and Microsoft, companies that ORBIS shares a close partnership with.

Our core competencies cover classic Enterprise Resource Planning (ERP), Supply Chain Management (SCM), Logistics Execution (EWM/LES), Manufacturing Execution Systems (MES), Variant Management, Customer Relationship Management (CRM), On-Premise and Cloud, Business Analytics (BI, EPM and data warehousing) and Product Lifecycle Management (PLM). ORBIS supports worldwide rollouts of ERP solutions and processes as a reliable partner. Own solutions for Industry 4.0, BI, MES, product costing and variant management as well as addons based on SAP complete our service portfolio. On the Microsoft Dynamics CRM platform, ORBIS offers numerous sector solutions and best practices that it has developed itself, such as SAP-integration. Over 1500 successfully completed client projects are testimony to our many years of experience in the automotive supplier industry, construction supplier industry, electrical and electronics industry, machinery and plant manufacture, logistics, metal industry, consumer goods industry, trade, financial service providers, and the pharmaceutical industry.

ORBIS' long-standing customer base includes among others, Bosch, Eberspächer, Edscha, Hager Group, Heineken Switzerland, Hörmann, hülsta, HYDAC INTERNATIONAL, Jungheinrich, KSB, KUKA Roboter, Magna, Melitta Haushaltsprodukte, Modine, Paul Hartmann, Pilz, Rittal, Schott, SCHUNK, Villeroy & Boch, WAGO Kontakttechnik and the ZF Group.







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