

Intelligent detailed planning through advanced planning and scheduling

SIMULTANEOUS MATERIAL AND MULTI-RESOURCE PLANNING WITH “ORSOFT MANUFACTURING WORKBENCH”

The challenges for production planning are manifold: fluctuating order volumes, time pressure, delayed or limited material deliveries, and long set-up times for production machines due to complex product requirements. This complexity requires detailed planning – and simultaneously makes it extremely difficult.

Production and logistics planning in ERP systems, such as SAP ERP PP, uses the MRP-II method, requires separation of material requirements and capacity planning, and is transaction-oriented. The “ORSOFT Manufacturing Workbench”, on the other hand, follows the principles of advanced planning and scheduling and offers interactive material and multi-resource simultaneous planning with the possibility of simulating and optimizing planning scenarios.

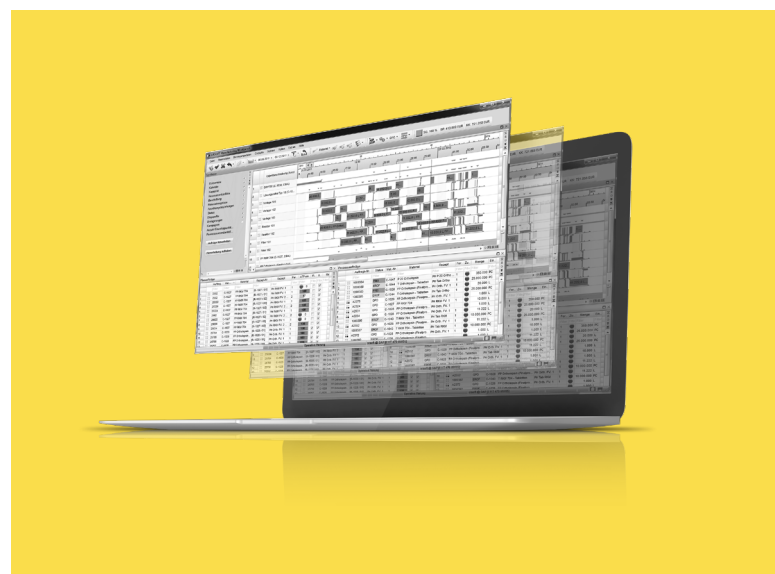
APS software as an add-on to SAP ERP and SAP S/4HANA

Our solution “ORSOFT Manufacturing Workbench” is an advanced planning and scheduling software that can be used as an add-on to SAP ERP and SAP S/4HANA. Without having to introduce complex additional IT infrastructures or a separate parallel SCM system, the solution enhances SAP ERP, for example with an interactive planning board, planning functions and functions for SCM business processes.

Our software solution is based on a standard system with a user-specific shell, which forms the basis for tailor-made, individual planning solutions.

These individual solutions will be developed in the user shell in a release-safe manner. Both dialog-oriented, step-by-step improvements of plans using heuristics and algorithms, as well as mathematical solver-based optimization methods are applied.

Based on SAP ERP or SAP S/4HANA data, the software provides an immediate overview of capacity utilization, material flows, delay situations and material key figures – even across different locations.



Decision support directly from SAP

Processes in business application systems often run in isolation from other planning and control processes, or many processes are organized as batches and not interactively. Yet in light of increasingly complex production environments and the potential of smart factories, analysis results should not only be prepared for passive use, but also provide support in decision-making. The “ORSOFT Manufacturing Workbench” accordingly supports manual processes as well as automated planning, in which human intervention is only required for regulation.

All partial solutions are not only used as APS systems or control stations, existing SAP processes are also replaced, for example, by online ATP and CTP checks using static or dynamic pegging at the touch of a button directly from SAP transactions. Users receive current and reliable information on delivery dates and prices right during the sales process, without having to be familiar with and operate the software.


The “ORSOFT Manufacturing Workbench” only uses the data structures and nomenclature of the superordinate SAP system. As a result, no parallel data worlds are created, which makes use and administration much easier and more cost-effective compared to separate, parallel systems. Our detailed planning software uses a certified interface to the


SAP system and can be implemented and put into production within a few weeks. Our product provider ORSOFT has been a close partner of SAP SE since 1997, and a Microsoft ISV Gold Partner since 2011.


Our solution extends SAP ERP, SAP S/4HANA and SAP S/4HANA PP/DS with regard to production planning through functional or model-specific additions and adds APS functionalities for SAP Industry Solutions. Thanks to the simple sequence planning system in clear Gantt charts, individual production orders can be optimally dispatched.


This special function package for detailed planning can also be extended with industry-specific packages for campaign planning, levelling & smoothing, or creating missing parts lists. In addition to these production-specific applications, additional model-dependent function packages provide planning functions for laboratory planning in QM, maintenance planning or project planning. To do this, the planning tool incorporates the data for raw materials, machines, and semi-finished parts from SAP or other ERP software.


THE ADVANTAGES OF THE “ORSOFT MANUFACTURING WORKBENCH” AT A GLANCE

 Easy-to-administer software and interface

 100% integrated in SAP ERP and uses existing SAP ERP, SAP S/4HANA and SAP S/4HANA PP/DS data

 High-performance response of the possibility of planning in real time through local RAM database

 Minimization of project risk through piloting based on customer data

 Proven industry solutions such as tank and campaign planning are available as standard

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