



ORBIS Mill Solution - Digital Solution Experts in the Metal Industry



THE PERFECT SOLUTION FOR CONFIGURING VARIANTS USING RULE TABLES FOR STANDARDS, QUALITY, TOLERANCES, STORING CUSTOMER STANDARDS AND MUCH MORE

In the **metalworking industry**, the **material quality** is described by many characteristics that are grouped in **DIN ISO standards**.

These standards describe, among other things:

- the **chemical composition**,
- the **mechanical attributes**,
- as well as the **surface quality**.

INCREASING CUSTOMER REQUIREMENTS

Many customers go beyond the standardized DIN ISO standards and formulate their **own requirements in the form of customer standards**. These are often significantly more demanding and complex.

SOLUTION APPROACH: RULES INSTEAD OF EXPERT KNOWLEDGE

In order to reliably map such requirements, you need either comprehensive, in-depth **specialist knowledge** or an **intelligent set of rules** that specifies the permissible combinations.

ORBIS MILL SOLUTION

This is where the ORBIS Mill Solution comes in:

- The **article creation** process is based on a well-maintained set of rules.
- Users are guided safely through the process of **creating article variants**.
- This results in **error-free and producible articles** – even for complex requirements.

CORE FUNCTIONS OF THE SOLUTION





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PROCUREMENT/CONTRACT MANAGEMENT

In the steel industry, long-term planning of primary materials is difficult. Since this is not possible for concrete primary materials, contracts are agreed upon for groups of items of specific grades, which must be reduced accordingly for specific orders. Here, ORBIS Mill Solution offers a smart solution using **partially-configured group materials** and **contract determination to the characteristics** of the ordered item.



OCCUPANCY PLANNING

Production is provided a wide range of functions with the ORBIS Mill Solution, such as **planning and monitoring of order combinations, waste optimization, blade planning** and the consideration of machine restrictions. In addition, it is possible not only to compare quality based on characteristics, but also to find efficient primary materials and **optimize setup based on characteristics**.



QUALITY MANAGEMENT

Quality is a top priority in the steel industry, which is why quality management is a central component of ORBIS Mill Solution. Customers request dedicated quality characteristics and also require a **quality certificate regarding the ACTUAL characteristics**. This functionality, as well as the **seamless traceability** and batch history, are implemented in the ORBIS Mill Solution. Moreover, the digital ORBIS Mill Solution also has a **sophisticated reporting system**, which goes beyond the SAP standard and serves the industry specifics.



BATCH COCKPIT

The core functions of the ORBIS Mill Solution also include the ability to provide feedback as well as a **VPE batch management**. Because the combination orders must be reported back in the system at the detailed level, the ORBIS Mill Solution provides a feedback application that visualizes all important aspects for the user.

For goods movements, the batches are generated or posted, and all data regarding the origin and activity is updated in a central file.



MES

The ORBIS Mill Solution has with regard to the **MES** (Manufacturing Execution System) **own steel templates**. They provide feedback on both the order combinations as well as prefabrication. Optional quality feedback as well as **the connection of machine data recording** are also possible.



DISPATCH COCKPIT

The package sizes and weights need to be taken into consideration for dispatch already in advance, in order to **generate „transportable“ deliveries** and organize appropriate transport means. The dispatch cockpit of ORBIS Mill Solution supports **all types of shipments**, i.e. to the customer, to the supplier or to the subcontractor. The whole thing is structured according to shipping points and customer delivery addresses.

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