

Formula 1 Production with SAP PLM

Factory Control Center puts the right tools, devices, documents and NC programs on the right machine at the right time

The challenges in discrete manufacturing are more complex today than ever before: global competition, much shorter innovation cycles in order to produce new, high-grade configurable products down to batch size 1 faster and faster. Add to this dispersed production sites and the highest quality demands of the customers. In order to be able to defend one's position on the market, three factors are crucial: 1: maximum machine runtimes; 2: minimum setup times; 3: avoidance of production failures. To achieve this, it is absolutely essential – just as with the pit stop in Formula 1 racing – to bring the manufacturing machines back up to perfection following every round as fast as possible. Perfect organization and preparation are indispensable for an optimal flow – Factory Control Center (FCTR), together with SAP PLM, provides ideal prerequisites for the ultimate pit stop!



Formel 1 production for the factory of tomorrow

The "formula 1 production" concept offers companies a lot of chances – provided the data basis is right. If the product data is stored completely in the SAP system, follow-on processes can be started immediately. Factory Control Center (FCTR) integrates CAM, a tool library, and production planning in the SAP-based product creation process and connects shop-floor systems such as presetting devices, storage lift, CNC machine etc. FCTR provides for seamless CAD-CAM-DNC processes. Integrated in release and change management, planned orders and transformed into production orders. This efficiently supports production planning as well as the production of parts.

Effective management and structuring

With the help of FCTR, tools and tool assemblies as well as measuring equipment and resources can be classified and managed according to relevant standards – including BOMs, geometries, cutting data, 2D/3D data and block diagrams. Thanks

to Tool Data Management in the SAP system, tool flows can be systematically controlled and monitored. That doesn't just save time – it also makes for an optimal usage of tool resources. Triggered by a production order, the relevant information and data is reliably supplied to the resource provision and the CNC machines. Just as automatically, FCTR returns optimized production data to the SAP system.

In this way, manufacturing knowledge is preserved and the production quality can be constantly improved. Altogether, FCTR thus promotes tool standardization and storage streamlining, reduces setup times and downtimes, and optimizes resource and machine utilization.

THE BENEFITS

- All CAD-CAM-DNC processes in the SAP system
- Acceleration of production preparation
- Central tool management
- Consistent management of master data from the production area in the SAP system
- Connection of shop-floor systems and machine magazines



Kontakt

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