PSIasm/Qualicision

Advanced Sequencing & Monitoring in Production Planning

Software for optimal KPI-oriented production line sequencing, simulation and control

- Designed to meet complex requirements of line production in automobile industry
- Optimization of weekly, day-to-day or shift planning as well as control and simulation
- Sequencing based on product properties and production times
- Automated KPI calculation makes sequences balanced, measurable and transparent
- Basis for JIS/JIT requests to suppliers
- High flexibility to changing customer requirements

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Work with PSIasm/Qualicision Sequencing

PSIasm/Qualicision Sequencing optimizes upstream production areas by combining several sequences as well as by taking advantage of intermediary buffers. In the car production, for instance, the assembly sequence serves as a basis for further paint shop and body shop sequence corresponding to their own area-specific optimization criteria (e.g., color bulks). If necessary, a certain day or shift of weekly packages can be re-planned in order to compensate short-term disruptions (e.g., supply bottlenecks). During the production phase PSIasm/Qualicision Sequencing controls the actual assembly sequence based on the planning requirements and reality. This allows automated response to immediate disruptions by re-sequencing in real-time, taking into account the changed general conditions. PSIasm/Qualicision Sequencing makes sure that at all times any technical restrictions are adhered to, also in the event of a disruption, and that an optimal throughput is achieved while avoiding utilization peaks. Based on the current production situation it is possible to simulate the production control system. This can be done manually to verify changes to the optimisation criteria or the impact of time-limited order locks. The resulting sequences are assessed KPI-orientedly and are thus comparable. For manual simulation, PSIasm/Qualicision Sequencing provides stationary and mobile apps. Within the scope of KPI-oriented online monitoring, PSIasm/Qualicision Sequencing offers a cyclical simulation feature. Running in the background it provides the user at any time future prospects on the upcoming KPI values. This enables the user to act proactively in the event of production disruptions rather than to react later.

PSIasm/Qualicision Requirements and Restrictions List, Criteria Relations Wheel, X-List, SC Graph

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