



+ MES reinvented

PSIpenta/MES

Smart and agile production control

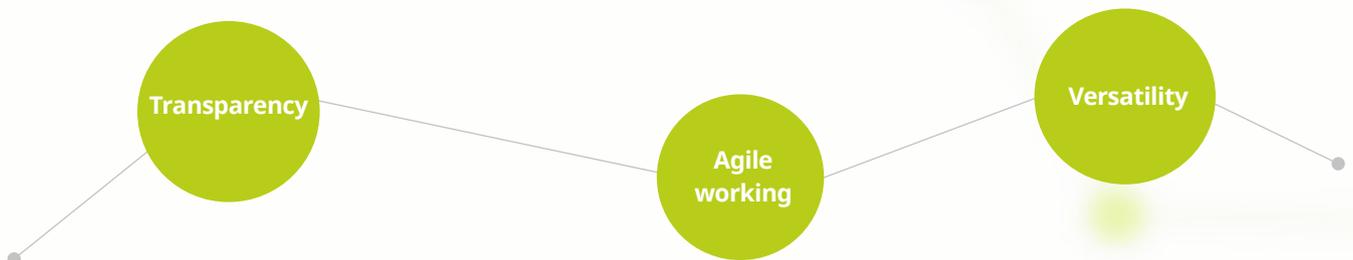
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AGILE MES FOR SMART PRODUCTION



Customer and market demands are changing faster and faster, leading to an increased need for optimization. The result is that manufacturing companies have to adapt value-added chains and the associated processes in an ever shorter time frame. At the same time, consistently high-quality production has to be ensured around the clock and costs have to be kept in check. The new PSpenta MES is the solution to this.

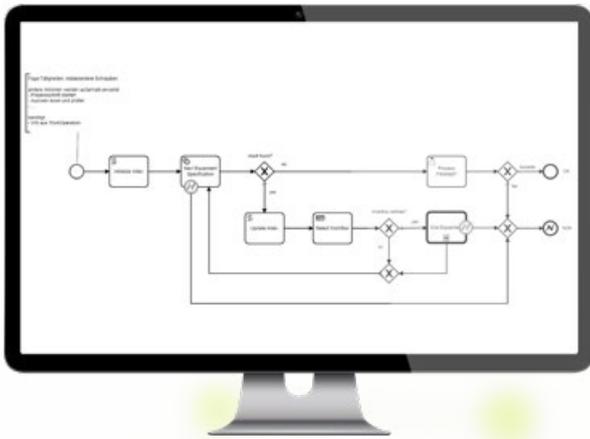


Seamless processes tailored to your needs no longer require laborious programming. With PSpenta MES, you can simply model and modify your processes yourself and control the process logic comprehensibly and efficiently. Benefit from improved transparency and increased responsiveness in a stable and reliable system.

PSIpenta MES stands for transparent processes that are not only well documented and comprehensible, but also executed exactly as you want them as an integral part of the solution. PSpenta MES serves as the foundation for agile working and a new form of cooperation between Production and IT.

TRIED AND TESTED APPLICATION EXAMPLES

1. Process improvement – CIP made easy



A real-life example: during a CIP meeting, it is decided to record the length of time that the materials are laying in front of the workplace in order to then optimize it. The IT systems used then have to be adapted accordingly. With PSIpenta MES, the modification can be quickly modeled, tested and ready to implement. The modification is also directly visible in the Worker Cockpit, the assistance system for your production employees.

Figure: The process modeled in BPMN 2.0 is expanded to include the arrival time of the materials in front of the workplace.

2. Quality improvement through worker assistance



Avoid errors and keep training periods to a minimum. PSIpenta MES provides its employees with multiple assistance functions in the form of the Worker Cockpit at all production workstations – even on the move!

Figure: The Worker Cockpit supports production employees in the workflow and includes diagrams and process-dependent procedures.

3. Faster responses thanks to the proactive factory monitor



Error prevention rather than rectification: the factory monitor for your production not only visualizes statuses, but also proactively issues rule-based alerts before faults occur. This means you have an overview of your production at all times and are informed of any anomalies in good time. Your maintenance service can then respond faster to the individual fault.

Figure: Maximum transparency in production – the factory monitor helps to detect errors early.

TECHNOLOGICAL BASIS

Advantages of an integrated workflow engine

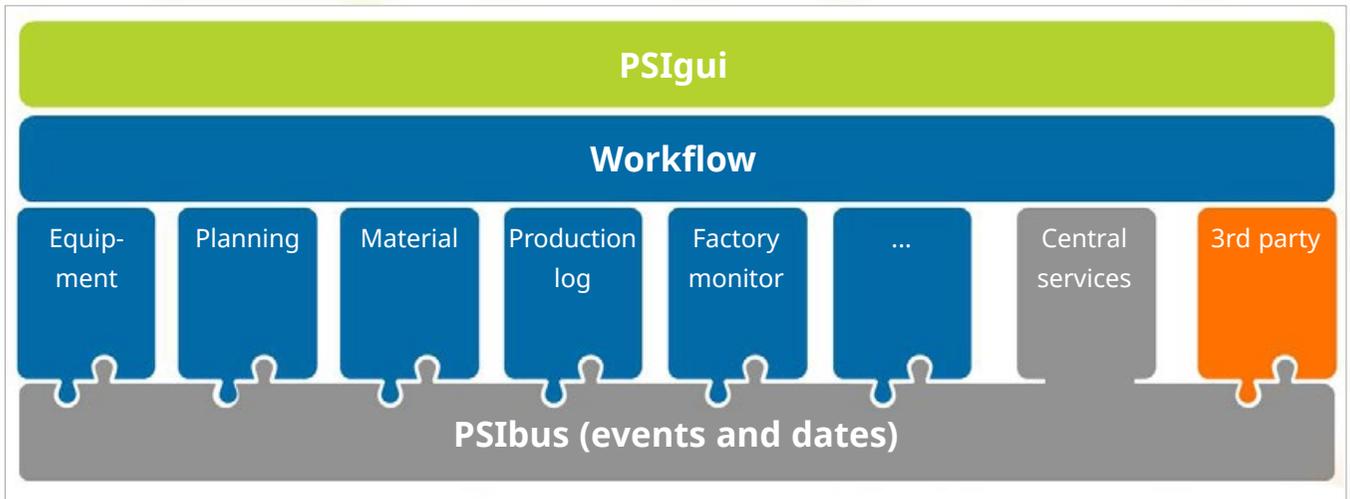


Figure: Processes modeled in BPMN 2.0 are executed directly, which significantly shortens development cycles.



Your benefits at a glance

- ✓ Shorter response times thanks to easily adaptable processes
- ✓ Increased process stability thanks to worker assistance
- ✓ Reliable, standardized communication with hardware/third-party systems
- ✓ Cost reduction as a result of optimized planning and control
- ✓ Increased throughput thanks to integrated material flow control
- ✓ Reduction of downtime and stocks



„Our **processes modeled in BPMN 2.0** are executed directly, which facilitates communication between specialist departments and the development team and significantly shortens development cycles.“

Volker Vogt, Head of Automotive Division

INTELLIGENT PRODUCTION



PSI Automotive & Industry is an expert in intelligent production. With our ERP + MES software, we optimize our clients' production and processes. Among German SMEs, the PSIpenta brand name stands for well-conceived solutions which are closer to the requirements of the sectors than any other. Teamwork helps us to come up with better ideas. That is why we combine the competencies of our clients with our own ones to form an even greater whole. We are:

- ✓ **More agile** – Processes are steered across all applications by means of workflows. Without programming and at an extremely fast speed, processes can be adapted to new requirements.
- ✓ **Closer** – We share our clients' passion for production. That is why we have exact knowledge of the requirements and take that decisive extra step.
- ✓ **More user-friendly** – With PSI Click Design, the software interface can be adapted by each individual user to his specific requirements.
- ✓ **More intelligent** – PSI has long been successfully applying robust methods of artificial intelligence in the industry. With the aid of this industrial intelligence, we support your decisions in complex situations, increasing the efficiency of your manufacturing, and automating your processes.
- ✓ **More open** – Our platform for production is distinguished by its outstanding integration capacity, offering flexible services and combining the processes across a wide variety of application software – entirely without complicated interfaces and on the basis of state-of-the-art standards.



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