

Production



From planning to operation

The complexity in production and the dynamics are increasing more and more due to close interlocking of the processes, from production to the customers. This leads to invariably new tasks in the planning and optimisation of resources, logistics systems and supply chain processes. Here static examinations and calculations with average values reach their systematic limits.

With the help of a dynamic simulation, which displays the complexity and dynamics realistically, these limits can be offset. In doing so already in the run-up the simulation facilitates an otherwise impossible transparency of the existing or planned processes as cause-effect relationships are clearly presented in the simulation model. Thus very quickly and efficiently bottlenecks can be analysed and optimisation measures deduced, which can then be examined in a simulation model completely risk-free. This safeguards crucial decisions and investments and differs from the classic method, which is mostly designed for local optimisation.

Your benefit:

- Improvement and reduction of plant planning
- Increase in process quality as bottlenecks can already be detected and rectified with suitable measures during the planning phase
- Optimisation of plant components under realistic conditions
- Optimisation of the buffer layout in order to uncouple plants and increase throughput and overall availability
- Risk-free analysis of improvement measures

Further information

[Article: Use of simulation for production planning and optimisation in solar industry](#)

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 [Next article](#)