Stop wasting money!

Optimal Design and Utilization of your Production Plants

Your practical problems

<table>
<thead>
<tr>
<th>Question</th>
<th>Objective</th>
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<tbody>
<tr>
<td>• Can the existing plant produce the increased demand?</td>
<td>► secured capacity evidence</td>
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<tr>
<td>• Which investments are necessary in order to achieve the desired production capacity?</td>
<td>► elimination of bottlenecks</td>
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<td>• Must production scheduling remain a cumbersome task?</td>
<td>► graphic overview of the orders</td>
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<td>• Which orders can be produced on schedule?</td>
<td>► more exact statements about deliverability</td>
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<td>• Can the cleaning and set-up effort be reduced?</td>
<td>► improved capacity utilization</td>
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<tr>
<td>• Should each plant specialize in certain products?</td>
<td>► economical geographical distribution of the products</td>
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Do these questions sound familiar?

In today's economic environment - stronger competition and sinking margins -, no company can afford wrong production decisions any more. Cost reduction, optimal utilization of the existing capacity and elimination of superfluous investments are simply a necessity.

In this context, the careful solution of production logistics problems proves to be indispensable. Both when (re)designing production plants and when regularly scheduling production, it is essential to master the complex conflicts that result from the simultaneous request of the same production resources by different products. For this purpose, the access to modern simulation and scheduling software solutions - as substitute to pencil and blackboard, or as add-on to Excel and/or to the ERP - constitutes the best guarantee against unsuccessful juggling with capacity restrictions and unnoticed disappearing millions.

AICOS Technologies is your competent partner regarding these issues.

Our strengths

• Scientific expertise in the field of production logistics
• Many years of experience from numerous projects carried out with leading chemical and pharmaceutical companies as well as general contractors
• Current overview of the most important software packages for simulation and production scheduling
In close co-operation with you we will work out the problem definition, analyze your needs and find a suitable methodology and/or software for problem solving. For the analysis of the capacity of existing (or new) plants, we use our material flow simulation software SIMBAX that was especially developed for the process industry. For operational production scheduling, we use the Excel-compatible plan visualization software QuickGantt for simpler cases and the ERP-compatible integrated detailed scheduling solution Schedule++ for more complex situations. Depending on the practical problem, also different software solutions are recommended.

Thanks to our practical experience of the process industry, we are able to discuss the production process using the language of the engineer, chemist or production planner and to explain accordingly our recommendations in an understandable manner.

Our competence

Analysis of the capacity of existing plants
- modelling of the production plant and of the recipes (batch as well as continuous processes)
- analysis of the material flows via simulation
- identification and elimination of the bottlenecks
- definition of measures to increase the capacity of single- and multi-purpose plants

Optimal dimensioning of new plants
- modelling of investment and process configurations
- comparison of scenarios on a production capacity basis
- optimal dimensioning of the devices (quantity and volume), the utilities and the manpower

Determination of suitable software solutions for production optimization
- analysis of the objectives and of the features of the production processes
- preparation of functional specifications
- identification and comparison of possible software solutions
- development of specific solutions if necessary

Implementation of software solutions for detailed production scheduling
- modelling of production flows
- simple production plan visualization with Excel interface
- integrated detailed scheduling with graphic plan visualization and simulation abilities as well as an ERP interface (among others for SAP R/3)
- on-site installation
- user training

Interested? Just fax this page to: +41 61 686 98 88!

I would like to receive more information about:
- SIMBAX
- QuickGantt
- Schedule++
- Consulting in production logistics

Name ___________________________________________ Phone ________________________________
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Address ________________________________________ E-mail ______________________________
Postcode and City ________________________________ Date/Sign. __________________________