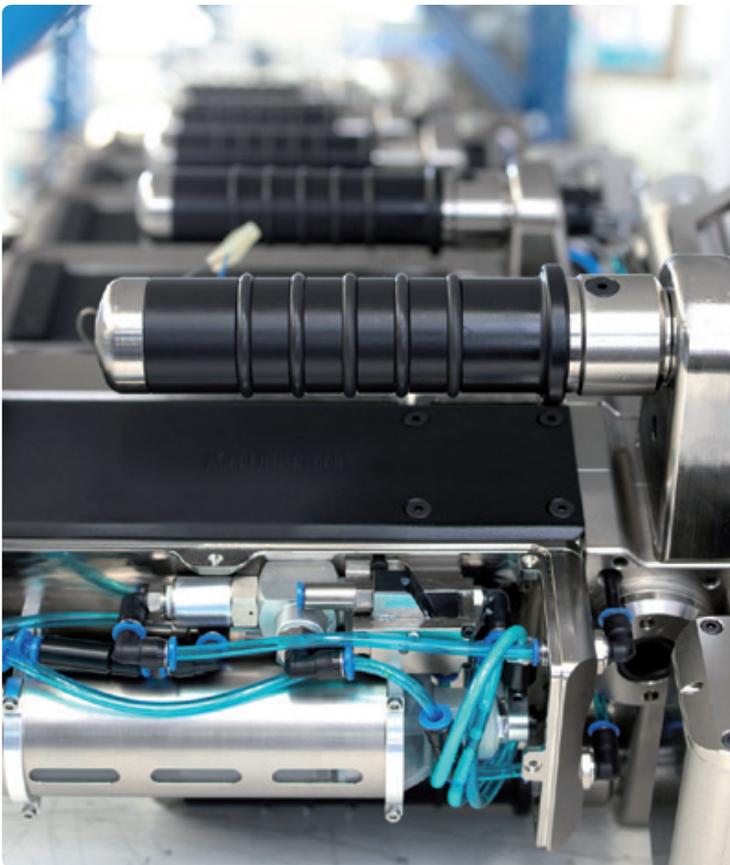


# It keeps its promise:

The APS GANTTPLAN working together with an ERP system and workshop controls at Johannes Lübbering GmbH, Herzebrock-Clarholz, Germany



# All of your orders transparent at all times, produced optimally and on time



"The introduction of GANTT-PLAN and the resulting process optimisation enabled us to reduce tooling and production times significantly.

The terminal-controlled production also provides increase transparency and security. Both systems together were able to shorten our delivery times significantly."

Oliver Nienaber, Process Planning at Johannes Lübbering GmbH

## Initial situation:

### A lack of overview and satisfaction

The initial situation in 2012: Numerous orders, processes that could no longer be followed, capacity bottlenecks, numerous delays in spite of overtime, lacking reliability, dissatisfied customers, high tool changing times, high staff and costs, inefficient machine utilisation; an absolutely critical competitive position, even though the Lübbering Group has already achieved a pleasingly stable market position thanks to patented proprietary processes and intelligent company policy.

For a number of decades now, the name 'Lübbering' has stood for quality products "Made in Germany". In 2009, 75 years of tradition at the Lübbering group of companies were also celebrated, as well as 25 years of success in the area of screw-driving technology. Lübbering has also managed to establish itself successfully in many fields of the market: screw-driving and drilling technology, production technology, ink signing, special machine engineering, the "Rollprofi", gas pump technology, and as a strongly service-oriented provider overall. Lübbering employs around 170 people and nearly 110 machines are in use. Due to the extensive machine park, an above-average production rate of over 90 per cent for small lot sizes (<10 pieces), and the resulting high degree of planning complexity required the introduction of a production control centre as a result of the circumstances described above.

## GANTTPLAN pushes ahead of its competitors

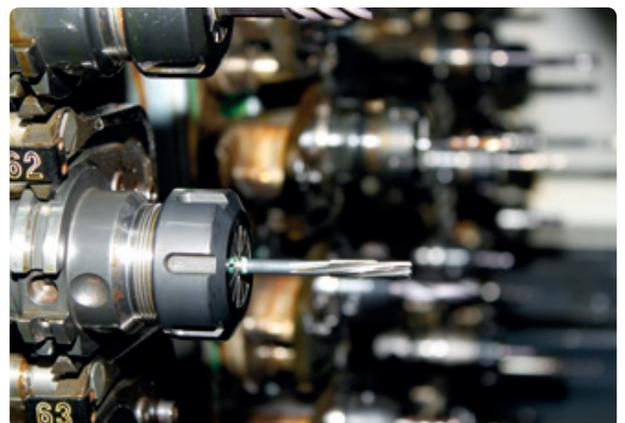
Using a structured selection process, whereby production control centres from several providers were compared, a number of arguments spoke for GANTT-PLAN: The control centre from DUALIS GmbH IT Solution is also able to be integrated via SQL interfaces easily and closely with the ERP system so that large data quantities are able to be managed. Planning also argued against limited capacities, the display of order networks, flexible arrangement of machines, staff, and tools, existing optimisation parameters for tool changing optimisation, and, last but not least, the overall cost-performance ratio for GANTTPLAN.



"Besides this, the chemistry was just right. Only DUALIS was in the position to produce a presales model as proof of functional suitability using our live data from approximately 12,000 orders, and they did it in just a few days."

Reinhard Teckentrup, ERP Administrator at Johannes Lübbering GmbH

Reinhard Teckentrup, ERP Administrator at Johannes Lübbering GmbH



Tool changing depot in the processing centre



"With regard to GANTTPLAN, I can say that everything DUALIS promised was also delivered. With the combination of the ERP system, GANTTPLAN, and workshop controls, the chaos that had developed with production and delivery deadlines was solved. Adherence to deadlines is now first-class again."

Achim Lübbering, General Manager

### Connection with the existing ERP system

APplus from Asseco was used for the ERP system. GANTTPLAN was able to be integrated here in an outstanding way, whereby the production control centre was placed between the ERP system and the workshop controls, which were also provided by Asseco. The master and dynamic data remain in the ERP in this case and GANTTPLAN provides complete detailed planning and optimisation.

This hinders data redundancy and simplifies maintenance activities; the ERP is and will remain the guiding factor. Previously scheduled production orders from APplus now normally pass through the SQL interface into GANTTPLAN once daily, where they are planned optimally according to available capacity and the defined target criteria. Following the planning phase, the APS passes the detailed schedule of work processes including assignment to resources back into the ERP system. All order information then passes through the workshop controls to the production employees.

### Employee scepticism transformed into enthusiasm

The implementation of GANTTPLAN for controlling nearly 108 machines lasted approximately 6 to 7 months. "The most time was spent on preparing our master data and our parts lists," according to Teckentrup. At Lübbering, an average of 8,500 orders, which are processed from Monday to Friday 24 hours a day and on Saturdays for half the day, need to be managed. In theory, there is no upper limit to this with GANTTPLAN.

"In the beginning, there was a lot of suspicion regarding the introduction of an APS. However, every one of us in every area of the company is convinced that the introduction of GANTTPLAN was exactly the right step for us to take. Every one of us is experiencing the concrete benefits ourselves every day," remarks Teckentrup. GANTTPLAN isn't even being utilised completely, and planning for employees and tools via the control centre is still upcoming.

### The effect: All of our goals have been reached

The production sequence of workshop orders is optimised under consideration of the different planning parameters. In this way,



Standard solution for pipe unions

machine utilisation is improved, tooling times are minimised via bundling, and complete transparency throughout the entire order processing chain is the result. Workshop terminals provide every worker with a constant overview of their orders and of the overall context involved. Where subjective decisions used to be made regarding which order should be tooled for next, GANTTPLAN now calculates the ideal sequence, and this is transferred directly to the controls.

In the meantime, the complete order processing procedure is controlled using GANTTPLAN. The rewards of using the software include planning stability and more 'smooth' production and assembly, which also give employees time to reflect on their work, to exchange with each other, and to develop ideas over the process, which could provide valuable innovations. "A lot of orders is good. Even more orders is better. But the best thing is when all orders are able to be processed reliably and swiftly," remarks Achim Lübbering with satisfaction.



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### Johannes Lübbering GmbH

Lübbering is known around the world for high-precision tools in screw-driver and drilling technology. Used in numerous areas of the automobile and aviation industry, by tradesmen and assembly workers, and in the area of gas pump technology, products from the Lübbering Group stand for quality "Made in Germany". Besides a comprehensive range of stan-

dard tools in the area of drilling and screw-driving technology, Lübbering Group also offers individual special solutions for unique applications. To increase the efficiency of time spent on project management, a series of aids are available. One unique service offered by the Lübbering group is its tailor-made hard foam prototypes. Using these prototypes, the geometry of a tool may be examined and the

accessibility of the component perfected. The provision of 3D volume data enables accessibility at the point of installation to be examined even prior to beginning construction. Lübbering is there every day for its customers with more than just one idea.

### DUALIS GmbH IT Solution

DUALIS GmbH IT Solution was founded in 1990 in Dresden and is specialized in the development of innovative simulation, optimization and scheduling software. Products such as GANTTPLAN and ISSOP for process optimization and detailed production planning are among the product portfolio, as well as the simulation suite of the Finnish supplier VISUAL COMPONENTS for 3D material flow simulation and layout planning. Users gain many benefits by using the DUALIS tools – both in strategic and operative usage. Through software-based scheduling, for example, the overall production efficiency can be increased significantly. Production orders are assigned in optimal sequences to the available resources

such as machines, workers and tools. In addition, exact delivery dates can be calculated based on all available production constraints. The 3D simulation product suite can be used to create exact simulation models in an early design stage of production systems with complex material flow configurations, different handling systems and also logistic processes. Using these simulation models can save configuration costs and time by reducing planning errors early on. Realistic 3D visualization also helps system integrators in their own sales process to communicate ideas and concepts. In this way VISUAL COMPONENTS products can be a simple and efficient platform for all machine builders to use for sales support and internal design.



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