

DELFORTGROUP IMPLEMENTS MES CAT

Production key figures at a glance

delfortgroup AG optimized their production processes across the company with the implementation of T.CON's MES CAT Suite. Production workflows could have been improved and are even more efficient now. The software is integrated seamlessly into the central SAP ERP system. A detailed analysis of latest key figures in production is possible at any time with the smooth exchange of data between all applications. At the same time SAP production orders are immediately sent to every machine so that there is no delay and production can be started. Our MES solution is installed locally; this increases the availability of machines.

delfortgroup AG is the world leader in design, development, manufacturing and promotion of thinner, more sustainable and tailor-made specialty papers for the tobacco industry, pharmaceutical and food industry. delfortgroup AG is based in Traun (Austria). They also produce thin print paper for package information leaflets, religious literature and catalogues as well as label base paper and electrical insulation paper. With over 1,970 employees all over the world, delfortgroup has six production mills in Austria, the Czech Republic, Hungary, Finland and Vietnam with five subsidiaries in Germany, France, Great Britain, the USA and China.

Cigarette and plug wrap paper, tipping base paper, catalogues, religious literature, package information leaflets or delfortgroup's "Ecopac paper" for clean and pure packaging of food: Many people use the specialty papers in their daily life without knowing it. Further information: www.delfortgroup.com

T.CON IMPLEMENTED THE FOLLOWING MODULES:

Execution

Analytics

Connect

Framework

Maintenance

Quality

Planning

INNOVATIVE AND INDIVIDUAL QUALITY PRODUCTS

The roots of the present paper mill dates back to Dr. Franz Feurstein who laid the cornerstone for the Traun-based company in 1867. The Feurstein company used to produce paper for the cigarette industry; in the last years, the team of 260 employees successfully develops and produces high-quality and resource-saving paper for the fast food industry, for manufacturers of baked goods and sweets. Together with the world's biggest fast food company they developed a new and particularly environmentally friendly packaging paper for Hamburgers: A pure vegetable product coated with soy replaces the conventional wax-coated packaging papers with less resource use and environmental impacts.



In 2013 delfortgroup AG generated a turnover of about 660 million Euros.

REAL-TIME MES AND ERP

Transparent and efficient processes in all areas are getting more and more important and are classified to have direct influence on competitive factors. "We have made it part of the business strategy that processes are based on an integrated and future-oriented IT architecture and consolidated data of highest quality which are standardized across the company", explains Robert Steindl who is application software engineer at delfortgroup. All business processes come together in one central SAP ERP installation, from the dis-

tribution stage at the beginning to production planning and reporting.

At the same time production processes are made transparent and clear so that they can be controlled and improved to be even more efficient. Data and KPIs from systems closely related to production were seamlessly integrated into the business workflows using a modern Manufacturing Execution System (MES): T.CON's MES CAT Suite. T.CON and the delfortgroup are working closely together in order to implement the software. T.CON as a specialist for this industry is also in charge of the implementation of this new software. The transfer of experience and best practice save time and money in terms of customization and changes.

24/7 OPERATION OF PAPER MACHINES

Every production location has its own server with MES CAT. All paper machines can be run 24/7. In case of a release change or for maintenance purposes, the central ERP system is shut down, but all data is of course buffered during this offline phase. As soon as the ERP system works again, data is transferred to the central system. Data synchronization is automatically done between the applications. "The advantages of a local production data acquisition are combined with the benefits of a central ERP installation", says Robert Steindl. "On the production side, machines cannot break down in case there is a problem with the software; from the holding company's view, all processes are standardized and harmonized across the company."

SUCCESSFUL MIGRATION WITHIN THREE DAYS

SAP ERP was implemented together with MES CAT and replaced the outdated software used by the paper mill Dr. Franz Feurstein GmbH in Traun. The trustful part-

nership with the T.CON consultants, their expertise and know-how in this industry and its processes made the project successful.

As planned the change of IT solutions together with the data migration was completed within three days. The whole production needed to be stopped during this period but with the close coordination together with the head of production, a smooth operation was guaranteed; together they decided which machine needed to be switched off and restarted again. The very positive impact and results of the integrated processes were immediately available after the go-live at the beginning of March 2014. All technical data (e. g. machine run times and downtimes together with proper and faulty goods) goes directly into MES CAT Suite which is connected with every machine. There are 17 terminals to be used by end users for further information like quality features for semi-finished and finished products, reasons for downtimes and faulty goods, reasons for items which need to be checked and then released, reasons for reworking of a paper roll or other exceptional circumstances.

VERTICAL INTEGRATION BETWEEN PRODUCTION AND ERP

All data and KPIs are transferred immediately to the SAP ERP system with MES CAT. In average, there are 1,400 stock entries each day. Together with all other business data they are immediately available in SAP Business Warehouse for further analysis or information. The MES solution also provides all released SAP production orders, cutting plans and knife settings so that they are available for production at once. MES CAT is the key hub between the existing shop floor data and all data from materials management; there is a closed loop system between production and ERP system. Latest data ensure a detailed and central view on production processes thank to the vertical integration; information is available at any time; further analysis can be made at once.

PRODUCTION KPIS AT ANY TIME

Management and production controlling are easily provided with information and valuable indicators in order to make production processes more efficient and to improve the products' quality. All key figures necessary are available and can be viewed in either daily, monthly or annual reports. For example, analysis can be made for scrap rates, average machine speed or energy consumption and many more requirements. All key figures can be com-

**DELFORTGROUP
WORKS WITH MES
CAT FROM T.CON**



T.CON's MES solution has met our requirements exactly; it is completely based on SAP technology and easy to handle. The solution is fully integrated into our SAP ERP system and fully maintained. Both work together in real time.

Mr. Mag. Robert Steindl

Application Software Engineer, delfortgroup AG

pared with other sites within the company; standard reports like productivity of single mills or machines are clearly defined and the same across the company.

All important information for production manager, shift leaders or machine operators are available in MES CAT Suite: Yield and scrap quantity, error statistics or information on material and energy consumption are easily accessible. Any interruptions of machines or other special situations can be realized immediately and all necessary actions can be taken at once. The analysis with the help of MES CAT deliver precious information on production processes of the last weeks for the management. Optimization and improvements can be initiated if needed. The current status of SAP production orders and how they are handled and processed can be controlled with a production monitor.

MES CONTROLS HIGH-RACK STORAGE AND LABELLING

It was very important and an urgent matter for delfortgroup's subsidiary Dr. Franz

Feurstein GmbH that the existing high-rack storage and the software for labelling work together with MES CAT without any problems. All paper rolls are delivered just in time and a smooth process needs to be guaranteed. Incoming goods and (physical) stock removal in the high-rack storage are controlled via a central monitor in the MES solution. All data necessary for labelling are available in the MES solution: all detailed specifications made by customers are of course respected.

Also delfortgroup's IT welcomed the implementation of MES CAT and the SAP ERP application. In case of personnel bottlenecks external SAP developers or consultants can help. For Robert Steindl, application software engineer at delfortgroup AG, it is clear that "with MES CAT and SAP ERP we have both a solid IT concept and the basis for efficient processes in our production and across the company". In order to reach their full potential, the applications need to be implemented at all sites. The next step involves the rollout in Hungary so that this ambitious goal gets closer.

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