

CASE STUDY DISCRETE

RICHEL

Created in 1964, the **Richel Group** is a family business third generation that for over 50 years has been the French specialist and Europe's leading manufacturer of plastic greenhouses.

Richel Serre is recognized for its competence and know-how: excellence at the service of projects, from the smallest to the most ambitious. Richel designs, manufactures and develops complete greenhouses and shelters solutions for agriculture, construction and industry on a worldwide scale.

With a team of 60 people and an integrated design office, the DIMAC SAS branch based in western France designs, studies and installs heating, irrigation, handling, climate management systems, etc. of the horticulture and agronomy projects that Richel creates.

Three main activities completed the Group's experience: the creation in 2000 of a storage center under the TOUTABRI brand; the development of the Venlo Glass Greenhouses business in 2004 and the integration in 2007 within the group of the French specialist for greenhouses equipment and modular shelters, Richel Equipement.

Throughout its history, the Group has grown constantly both on the national and international markets. Present in 5 continents, Richel realizes complete projects of equipped greenhouses in 80 countries all over the world.

With a site for the design and production of greenhouses based in the south of France, the Richel Group is made up of 250 people who participate in the realization of around 500 projects per year in France and worldwide.

PROJECT

In 2015, Richel launched a global productivity plan in its plant in Eygalieres.

Until then, Richel monitored its production through the ERP system and files filled in by the operators.

As part of this global productivity plan, Richel asked sedApta to analyze the needs together and choose the most suitable tool for production monitoring.

The objectives of this global productivity plan were the following:

- » Allowing real-time production monitoring on twelve plant areas, with full reliability of the shown data;
- » Monitoring production for exceptions, having the opportunity to act promptly;
- » Leveraging on a true management tool for department heads and logistics and performance monitoring.

For Richel, the implementation of production monitoring had to allow to better understand the difficulties encountered during the execution of work orders (WO), recognizing and quantifying the risks of the production itself. With the installation of the next module for Scheduling and thanks to the automatic communication between this module and the MES, Richel had to be able to effectively monitor operational planning.

SOLUTION

The modules identified as building blocks of the solution therefore refer to the following components of the sedApta suite:

- » MES
- » Factory Scheduling.



COMPANY
RICHEL GROUP



SECTOR
PRODUCTION
OF COMPLETE
GREENHOUSES AND
SHELTERS SOLUTIONS



SIZE
2 PRODUCTION SITES IN
FRANCE AND 250 EMPLOYEES



TURNOVER
136 M€ (2019)



SEDAPTA MODULES
MES
FACTORY SCHEDULING

The implementation of the entire project begins in spring 2016.

Initially, sedApta sets up the monitoring of the production activity of 80 people and 30 machines and then the logistic monitoring. Following this implementation, sedApta-osys supports Richel in the second phase of the project, with the extension to the capacity planning part with the Factory Scheduling module, a tool that manages different types of production constraints.

Operator monitoring

Richel reproduced the operator consoles on existing PCs. The sedApta MES console allows the operator to have all the information on the production in progress. The application is also able to monitor all operators assigned to existing production. All this information is passed on to supervisors who recreate statistics that support decision-making.

Monitoring of machine activity

The sedApta MES allows to declare the start and end of a WO, but the solution also allows to set the start declaration of a multiple production. The states of the machine follow the production phases in sequence, thanks to the function of modifying the state of the machine. The sedApta MES reaches the point of perfecting the state of the machine, specifying the causes of the stops. From that moment on, the operator can perform maintenance monitoring by declaring the start or end of a maintenance or fault intervention. Several production information is displayed through the console thanks to the supervisors, but also to the modification of reports that can serve as support for the decision-making process.

Logistic monitoring

sedApta has installed monitoring of start-up and preparation activities. Operators retrieve the traceability of the labels through a barcode reader using the MES console and monitor a number of ready lines or a number of loaded packs.

BENEFITS

The sedApta MES and Scheduling project has achieved its objectives.

The goal of the MES was to improve and guarantee the digitalization of all the operators' inputs. In fact, Richel quickly found advantages in the operator's workstations: the elimination of an end-of-entry data sheet has saved time and paper, improving the reliability of information and freeing the operator for other activities.

On the other hand, as part of the action plan relating to the productivity of the machine, Richel worked on the yield (cycle time), but also on the loading speed of the machine. By working on multiple inputs, the machine park has gained reliability, capacity and working speed.

The implementation of the sedApta Scheduling solution achieves the following objectives:

- » Better plan resources
- » Respect the delivery date of a customer order, improving the service level
- » Analyze the costs of the finished product.

