

ORTAKÇI CAM CASE STUDY



Challenge:

Dealing with a wide variety of orders, the company needed a robust planning and scheduling solution to gain full visibility of its production schedules and reliably meet customer delivery deadlines.

Solution:

Ortakçı Cam selected DELMIA Ortems to plan and schedule its production processes from glass preparation to packaging. DELMIA Ortems provides detailed scheduling, optimized capacity planning, material planning, load balancing and deadline setting functions.

Results:

With a clear view of upcoming production requirements, covering machinery and personnel capacity, Ortakçı Cam is optimizing its resources, boosting productivity and saving time setting up its machines. Customer satisfaction is high as the company is able to provide accurate delivery dates, prioritize specific orders and avoid missed deadlines.

MAKING GLASS PRODUCTION SCHEDULING MORE TRANSPARENT

On the surface, a vehicle screen may seem like a simple part, however, the amount of resource – and time – that goes into producing it must not be underestimated. Each piece of glass must be cut, prepared, tempered and packaged to order – and that's before it gets to the automotive original equipment manufacturer (OEM) to be installed on the vehicle.

Based in Turkey, Ortakçı Cam handles the entire manufacturing process for glass products predominantly for the automotive industry. Every day, the company deals with all manner of custom requests from its global customers, creating everything from vehicle screens and driver cabins to emergency exit glass. They choose Ortakçı Glass for its high product quality, competitive prices and ability to deliver on time.

Until recently, though, Ortakçı faced challenges meeting tight customer deadlines. Its planners used spreadsheets to manage the production schedule. Routing selection was done manually, and they couldn't take into account production constraints or prioritize customer orders, resulting in long lead times.

"We needed to optimize our processes for more efficient production," said Merve Demircan, production planning officer at Ortakçı Cam. "We have a vast amount of production lots, including repeat orders, covering all the major industries we serve. Our clients don't generally give us forecasts or long-term orders, which can be challenging to manage."

Ortakçı found the solution to its production scheduling issues in DELMIA Ortems, which it now uses to plan and schedule all its production processes from glass preparation to packaging.

FROM SPREADSHEETS TO AUTOMATED PLANNING

Today, with DELMIA Ortems, Ortakçı's planners manage a detailed schedule and can quickly associate work orders with the right machinery to optimize and sequence tasks. They are able to take into consideration all customer due dates, production constraints, set up and changeover times, and priority orders.

"With DELMIA Ortems, we can plan and schedule with finite capacity for different periods of time," said Nuray Taner, production planning and logistics manager at Ortakçı Cam. "The solution provides us with detailed scheduling, optimized capacity planning, material planning, load balancing and deadline setting functions in the short and medium term."



Ortakçı uses DELMIA Ortems to plan and schedule all its production processes from glass preparation to packaging.

Ortakçı worked with its technology partner Grupas to implement the system and moved to DELMIA Ortems within six months. Grupas supported the company throughout the implementation, making sure the project stayed on track and that everyone received the right training so they could get the most out of the solution.

"The Grupas team worked closely with us to draw up a project plan and clear timetable," Demircan said. "They helped us to develop the interface design, make any necessary configurations, integrate our material requirements planning system and delivered end user training to smoothen the transition to the new software."



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— Nuray Taner, Production Planning and Logistics Manager at Ortakçı Cam



TIMELY INSIGHTS KEEP PRODUCTION ON SCHEDULE

Now fully up and running on DELMIA Ortems, Ortakçı has gained a clear view of all upcoming work orders and available resources in the workshop and is able to give its customers an accurate timeline of when their glass and mirror products will be ready. And because all information is linked, planners can see which orders are on time, which are delayed, and take timely action to avoid late delivery.

"We can now monitor our capacity occupancy and idle status in real time," Taner said. "With DELMIA Ortems, we can plan our material needs, shifts, personnel, machinery and maintenance schedules. At the same time, we can directly manage the set up to minimize production changes and analyze how any modifications will impact our scheduling according to our key performance indicators."

DELMIA Ortems' powerful optimization algorithm also helps the company to make the most of its resources. It can simulate a wide variety of what-if scenarios, compare them and immediately see how they will affect the production plan.

"It means we can react faster and more accurately to unexpected events," Taner said. "We can check in advance which lines are bottlenecked so we can take timely action. We can run simulations on our forecast orders and see what kind of workload they will place on our production lines, how many shifts they will need and whether they require overtime work."

"Backed by the power of DELMIA Ortems, we have the capabilities to meet our customers' deadlines faster and more reliably," Demircan concluded.

As a direct result of its new planning and scheduling capabilities, Ortakçı has achieved the following benefits:



40% increase in customer service levels



20% increase in productivity



Machine set up times reduced by **25%**



Overtime reduced by **20%**



Overall time saving of **65%**

Focus on Ortakçı Glass

Ortakçı Glass is a glass and mirror products manufacturer based in Turkey. The company primarily serves the automotive industry, as well as the industrial and home sectors, supplying treated glass mirrors and tempered glass products directly and indirectly to the production lines of large OEMs and frame companies, covering everything from vehicle screens and cabin glass to bedroom mirrors and shower screens. Ortakçı prides itself on its ability to meet its customers' needs, make high quality products and deliver them on time.

For more information
<https://ortakcicam.com.tr>



Focus on Grupas

Grupas is a consulting and training organization based in Turkey focused on management and operational excellence, and continuous development. Since 2010, the company has been sharing its industry knowledge and providing its customers with supply chain, advanced planning and optimization solutions.

For more information
www.grupasteknoloji.com.tr



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