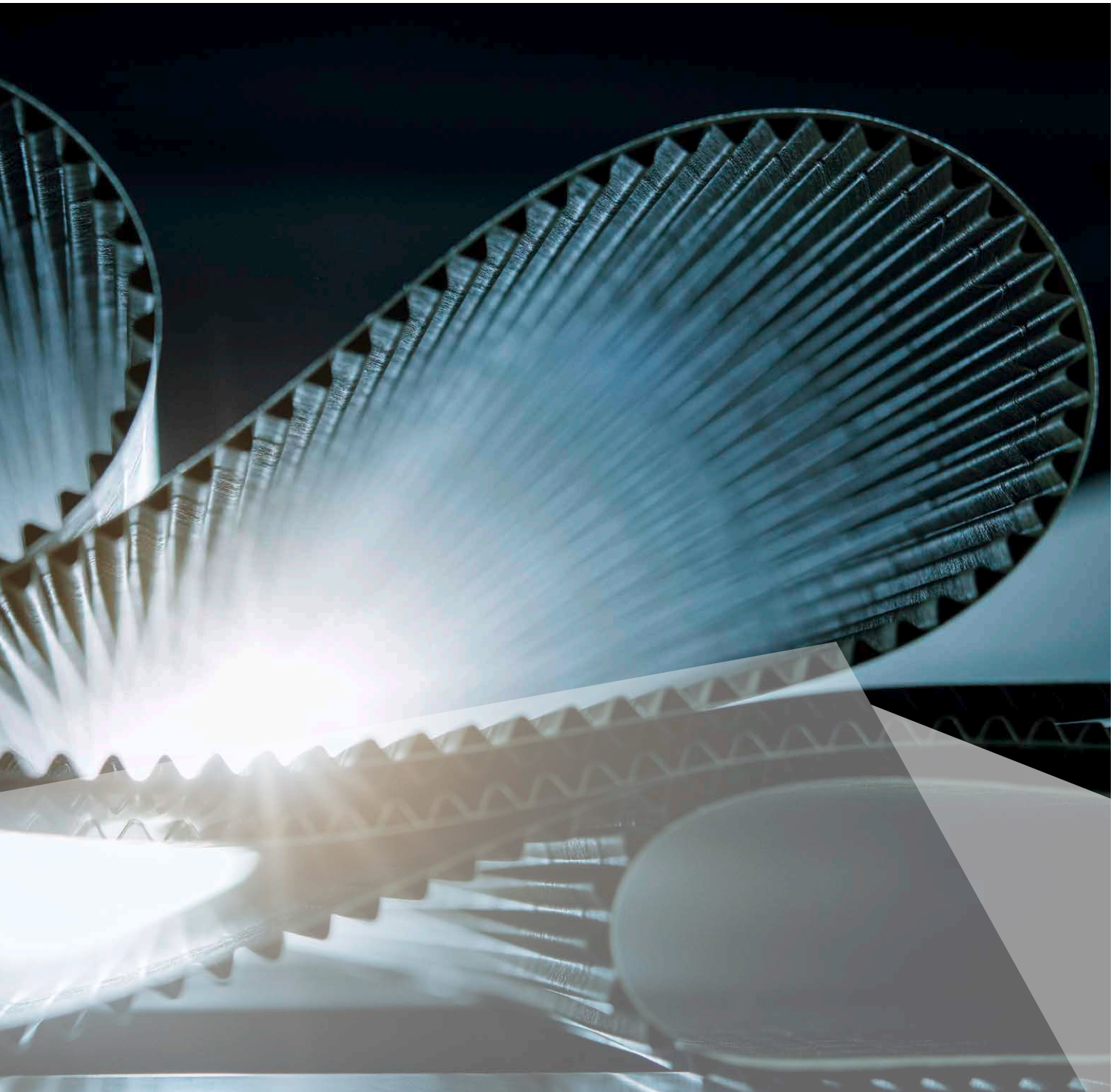


Flexible Visualization

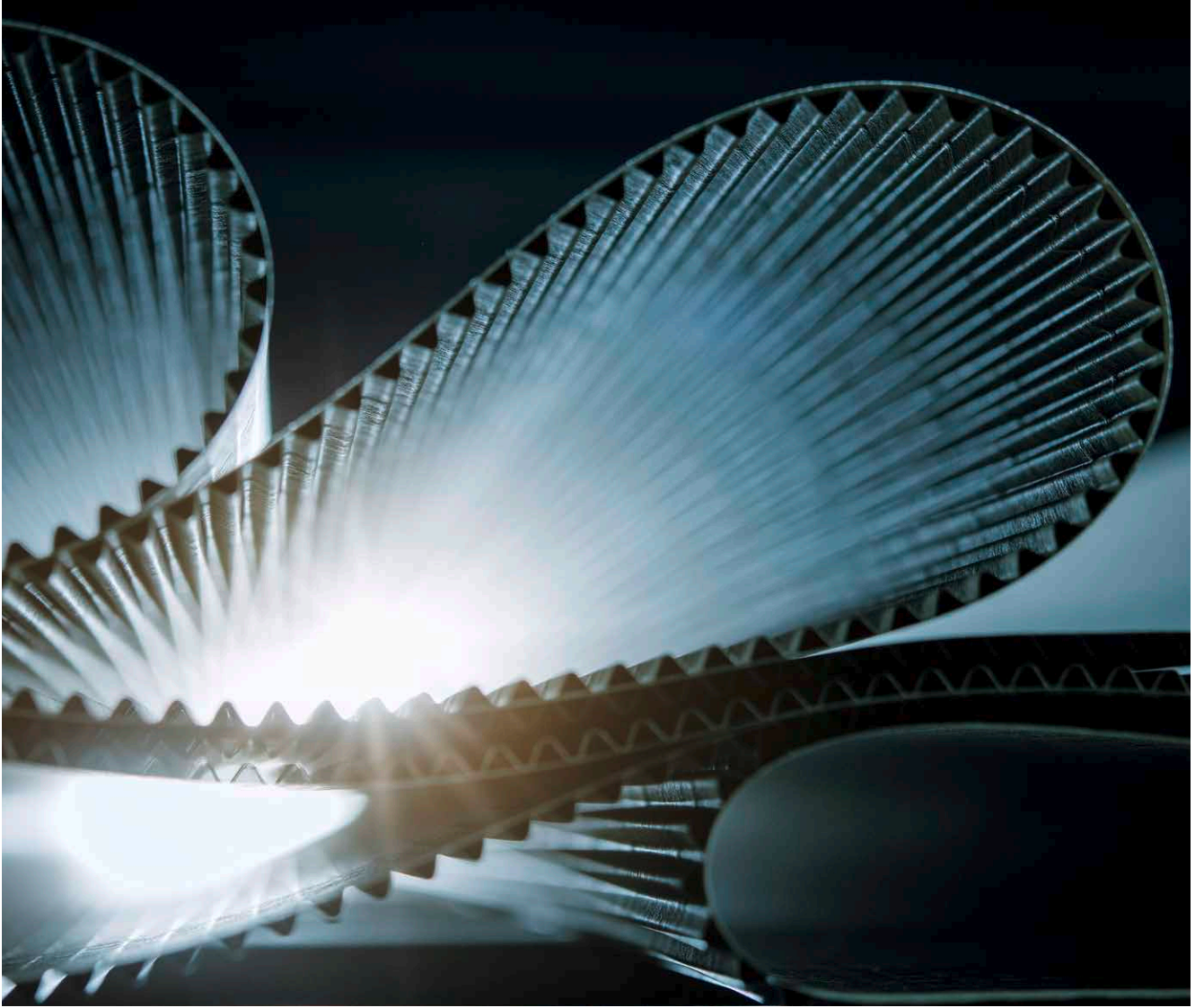
TRANSPARENT AND POWERFUL



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Flexible Visualization

TRANSPARENT AND POWERFUL

IBS Paper Performance Group specializes in improving the performance and energy consumption of paper, board and pulp machines. The company needed a convenient visualization solution for its more than 200 rebuild projects annually worldwide. The solution had to be easily integrated into their customers' numerous different plants, controller systems and process control systems. Therefore, it needed to be both open and adaptable to specific requirements.

Flexible solutions for a diversified market

The company encounters a diverse range of plant conditions during the course of rebuild projects for its customers worldwide, explains Robert Rauchegger, product manager in the automation division at IBS: "There are a lot of different approaches to automation and production in the industry, which we have to account for in our projects. In some cases, customers want to integrate our products into their own process control system with their own automation. In other cases, for example, there is no central controller system whatsoever." IBS products must therefore harmonize with a wide variety of controller and process control systems.

Missed opportunities

IBS subsystems were previously operated via a separate panel in the plant. "The functional scope of our previous visualization solution was limited. It was very time consuming to introduce additional functions," explains Rauchegger. As a result, three years ago the company started searching for a convenient and future-proof visualization solution

for its customers, one that provided IBS the flexibility and openness required for an extremely broad market: "We wanted to sensibly integrate our individual plants into an overall system, and provide our customers with a standardized and fast interface for plant operation."

Easy integration into the controller system with atvise®

IBS found the solution with atvise®. The openness of atvise® made it an easy decision for Robert Rauchegger: "The visualization solution's communication is based on OPC UA, so we kill two birds with one stone: On the one hand, customers can easily integrate our plant components into their control system, retrieving and operating them via the web. And secondly, we can very easily adopt process data from every well-known controller system manufacturer."

Consistent object orientation

When creating the plant visualization, object-oriented engineering proved to be a great help for IBS. Adapting visualization layouts to the respective application is very efficient, according

to the product manager: "With atvise®, we define our products as objects and then simply place them where we need them. We only have to adapt the layout to the respective system – the products in the background are the same. That used to be significantly time consuming."

Individual, wide range of functions

IBS utilizes many atvise® functions and then extends them. Thanks to the open architecture behind atvise®, IBS now has a very wide range of functions available for visualization, says Rauchegger: "atvise® offers us many features that you usually only see in really powerful controller systems – even recipe management. You compile certain recipes in advance, load them onto the control system as required, and use them to influence the product." But the option to export a defined status from every parameter is also a great advantage, he says, which until now was only available from larger control systems.

When customers integrate IBS subsystems into their overall system, important subsystem status information is quickly visible in the overview via

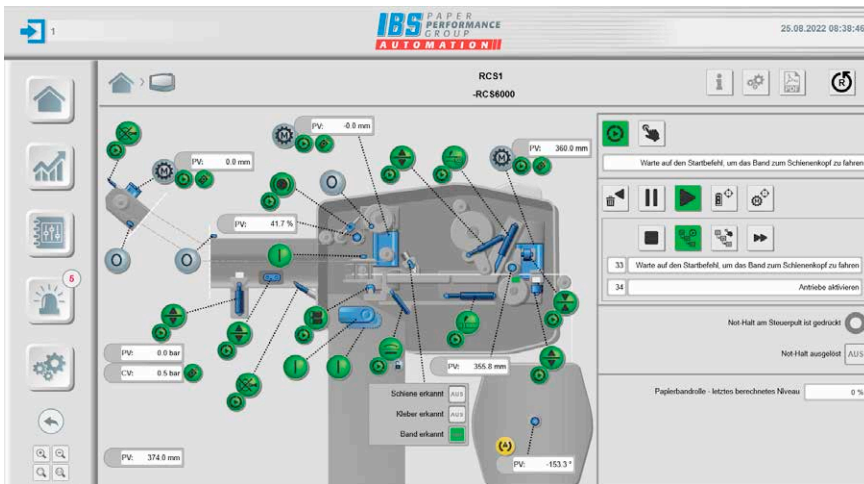


»atvise® is based on OPC UA.

The standardized interface makes it very easy for us to integrate our subsystems into various customer systems.«

Robert Rauchegger

Product Manager in the Automation Division at IBS



Full transparency:

Tooltips provide information about operating equipment identification on site as well as sensor and actuator designations.



IBS headquarter in Teufenbach-Katsch, (Styria/Austria)

alarm symbols. "Our plants can be parameterized directly from the higher-level controller system. Previously, operators had to analyze the operating status on the display directly on site, at the machine," says the visualization expert. In the new visualization, tooltips for individual plant components precisely indicate operating equipment labels on site, as well as sensor and actuator designation. The ability to view electrical system documentation directly from the control system is another valuable feature – for example, circuit diagrams or system-specific user manuals in the appropriate language.

Remote assistance

It took around a year a half year to develop the functional scope of the new visualization solution before the initial systems were delivered to customers. During this period, the group also expanded its remote service: IBS now simply installs visualiza-

tion updates for atvise® remotely. In addition, the service-oriented company has always offered remote support for parameterization based on data aggregated by atvise®: "We collect a lot of plant data at our customers' sites and store it locally. Customers can use this data, and we can help remotely with parameterization and highlight any problems we identify," says Rauchegeger. For IBS itself, however, it is also important to collect and understand the data accumulated from plant components. This is the only way to keep up with fast-paced development demand and continuously improve products.

With atvise®, the company sees itself well equipped for the future, especially as the paper industry moves toward mobile process operations. "This was one of the reasons why we opted for a solution based purely on web technology. And with atvise® you get a huge range of functions on top of that."

IBS PAPER PERFORMANCE GROUP

- Headquartered in Teufenbach-Katsch, Styria
- More than 750 employees of the 12 group brands operate at 20 locations worldwide
- A global leader in the optimization of paper, board and pulp machines. IBS products are used in almost all major paper machines around the globe
- The IBS Paper Performance Group has registered over 25 patents

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