

# Online and anywhere: ANDRITZ cares for your spares

ANDRITZ is committed to providing its customers with faster and more efficient digital service. The launch of its online Metris Spare Parts Catalog two years ago plays a major role here. We look back over its road to success and forward to an even more closely integrated digital future.

## TRANSFORMING CUSTOMER TOUCHPOINTS

A few clicks and then simply wait for delivery: Online shopping has revolutionized private retailing in recent years, making it faster, easier and more efficient. Increasingly, it is making its mark in the industrial environment, too. For some time now, ANDRITZ has been digitalizing its products, services and machines with its innovative Metris solutions. At an early stage of this process, the company recognized the potential benefits digital technology could bring to the processes of quotation and spare part sales – both major customer touchpoints.

## RAPID DIGITAL PROGRESS

To verify the demand for this change, ANDRITZ conducted a survey on customers across Europe. The response highlighted not only the importance of digital services, but also the desire for additional features like immediate assistance via remote support, or predictive maintenance notifications.

This is why ANDRITZ decided to create a single digital sphere of activity for internal and external partners: a shared online platform with access to a wide range of service modules and real-time interaction.

One of these service modules is the Metris Spare Parts Catalog, which offers the convenience

of online shopping to ANDRITZ's business partners. The tool benefits customers along the entire value chain, with high levels of transparency and traceability as well as rapid part selection, quotations and order processing.

In October 2016, ANDRITZ launched a group-wide smart services initiative. Employees worked with external partners to set up an ambitious schedule for the prototype of the Spare Parts Catalog with basic functions for areas in which spare and wear parts play an important role. Within three-and-a-half months, they had developed a minimum viable product serving around 100 machines; in less than one year, the team went live with an internal product including 2,600 machines – a status that other companies had taken three years to reach.

**We undertook a number of detailed investigations to develop a convincing tool that fosters our mission to digitally support our customers, while simultaneously structuring and improving our own internal processes."**

Josef Haintz,  
Program Manager  
Smart Service



Josef Haintz presents the Metris Customer Care portal and the benefits of the integrated Metris Spare Parts Catalog at the 2019 Hannover Messe. Search functions, 2D drawings, 3D models and process flow sheets make choosing the right spare part(s) a piece of cake.



## REFINING THE PRODUCT

The premise of the Metris Spare Parts Catalog was simple: users log in, select a machine and the respective spare parts they need, place them in the shopping cart and receive a quotation generated automatically in the ANDRITZ SAP system, including prices and delivery time.

An in-house trial run enabled further improvements to the system, especially in terms of user management, equipment and customer data quality, and usability in the selection and order process.

## INTERNAL AND EXTERNAL BENEFITS

ANDRITZ introduced the Metris Spare Parts Catalog to selected customers at the beginning of 2018. "We undertook a number of detailed investigations to develop a convincing tool that fosters our mission to digitally

support our customers, while simultaneously structuring and improving our own internal processes," explains Josef Haintz, Program Manager Smart Service. Daily training and feedback from internal and external users are necessary to evolve such disruptive tools and make them successful.

The result is a comprehensive but easy-to-use instrument. "The shop interface is very user-friendly and was developed to suit all our customer needs," says Josef Haintz. "Due to the high level of individualization, the customer sees only his own plant, processes and all the related ANDRITZ machines in 2D drawings or 3D models. The right items can be identified easily, either in the drawings or models or in the spare parts list linked to them. Both the drawings and the models are highlighted upon parts selection."



**Watch the video.**  
For further information  
about the ANDRITZ  
AR App see page 2.



But there are many more advantages to the catalog than simply identifying parts more easily. These include a comprehensive, transparent view of the history and status at any time, from enquiry to purchase order; the ability to select customized spare part packages for regular service work; and access to operating manuals and other useful documents.

#### SPEED IS CRUCIAL

Above all else, it is important to submit a quotation promptly – speed is one of the main success factors in spare parts business. The future goal is to submit an approved offer for standard components by e-mail within a maximum of 24 hours – and even include the services of a technician in accordance with schedules and availability. This factor should enable ANDRITZ to predict and better target the personnel resources and meet the service slots available at customers' machines.

Constant improvements to the Metris Spare Parts Catalog enhance the usability and flow of information between partners. The link between ANDRITZ's SAP system and the customer's ERP system enables the online catalog to be fully integrated into customers' standard purchasing processes.

#### WHAT IS NEXT?

For ANDRITZ, the next steps include the coordination of all other digital service modules. Having a single point of entry for the customers will support and enhance services both internally and for the customers. Join ANDRITZ on this exciting journey into the digital future. •



#### METRIS SPARE PARTS CATALOG AT A GLANCE

- Easy access to customer-specific spare and wear parts
- Customer-specific dashboard with customers' own plants and equipment
- Interactive identification of parts via 2D drawings or 3D models linked to parts list
- Customized spare part kits and maintenance packages
- Viewing of machine manuals and as-built documentation
- History of orders for fast repeat purchases
- Shopping cart with "add" and "remove" function
- Tracking of quotation and order status
- ANDRITZ stock information and material number
- Integration into customer's ERP system possible
- ANDRITZ key contact with call-back function to answer any queries

#### UPCOMING HIGHLIGHTS

- Checklists of parts required for next planned maintenance
- Offline part selection as well as preparation of requests and orders via mobile app
- Part identification based on P&I diagrams on equipment and plant level
- Generic ANDRITZ wear parts offered for non-ANDRITZ machines
- Purchase-and-pay function to speed up the delivery of standard spare parts

BY 2022, OVER TWO-THIRDS OF COMPANIES THAT HAVE IMPLEMENTED IOT WILL HAVE DEPLOYED AT LEAST ONE DIGITAL TWIN IN PRODUCTION.

DIGITAL

Twin

#### WHAT IS A DIGITAL TWIN?

A precise digital replica of something in the real world – a process, machine, factory or even an entire city. Internet of Things (IoT) sensors gather data from the physical world and send it to computers to reconstruct. The digital twin is continuously updated to mirror the state of its physical counterpart.

#### WHAT ARE THE BENEFITS?

Creating a digital twin gives a deeper understanding of real-time processes. It offers valuable insights into how to improve efficiency and product quality or reduce maintenance and waste. Digital twins also enable virtual support, without an engineer having to be on site. Experiments can be carried out with much less risk and a lot more return on investment.

#### WHERE DOES THE CONCEPT COME FROM?

The concept of 'pairing' goes back to early space travel, when NASA built analogue models on the ground to monitor and modify spacecraft that were thousands of miles above the earth. As computer power increased, these models became digital. The term digital twin was attributed to University of Michigan's Michael Grieves in 2002, but didn't become more commonly used until the widespread adoption of IoT technology.

#### DIGITAL TWIN FACTS AND FIGURES

- 13% of organizations implementing IoT projects already use digital twins, while 62% are either in the process of establishing digital twin use or plan to do so.
- By 2022, over two-thirds of companies that have implemented IoT will have deployed at least one digital twin in production.

#### DIGITAL TWIN EXAMPLES

Digital twin technology is being applied in a wide variety of uses:

- In Formula One racing, every millisecond counts. Digital twins offer valuable insights into how to maximize a car's performance.
- IoT sensors and digital twin technology are enabling farmers to improve crop yield, reduce wastage and cut fertilizer use.
- 3DEXPERIENCE is a digital twin of Singapore. It has enabled the city-state to improve energy consumption, fine-tune traffic flows and advise shops on opening hours.
- The UK wants to create a digital twin of the entire country's infrastructure to help it handle issues like climate change, population changes and energy consumption. This mammoth task could take decades to complete.