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# Metris Augmented Reality Glasses

## Foresee digitally – enhanced potential for interactive operation and maintenance

The very latest technology innovations at ANDRITZ provide the pulp and paper industry with specifically enhanced potential for interactive operation and maintenance where and when it is needed most. With the implementation of ultramodern devices such as augmented reality glasses, hidden potential can be utilized and overall equipment effectiveness can be improved significantly.

Imagine being responsible for mill maintenance and operation in a demanding modern mill environment, with tough targets on quality, productivity, and sustainability. Augmented reality is a high-tech way of engaging staff, enabling them to monitor and improve on all those challenges using the AR glasses that are connected to the main control system of the plant. Depending on individually selected features, a wide variety of useful tools can be utilized to carry out crucial alterations and adjustments in less time, with less cost, and with employees fully focused on the task in hand.

### The following features are already available in this next generation of digital assistance:

- **Documentation** – Related material and documentation can be examined quickly and directly at the machine. Operators can access any information needed such as circuit diagrams and operating manuals.
- **Equipment Identification** – In order to make the most relevant information accessible directly where it is needed, equipment is identified in the whole mill. Virtual signs and identification are placed directly on the equipment concerned.
- **Live Values** – Real-time information on the device can be accessed at the tap of a finger. Real process information and live values can be checked at once, indicating proper functioning of machines and processes.
- **Checklist** – In case of malfunctions, operators are assisted with digital checklists in order to resolve the issue without delay.
- **3D Remote Support** – Interactive video conferencing functions simplify the maintenance process, making it extremely efficient. Dedicated remote support service teams can not only see the environment view of the operator but can use 3D annotation within the view in order to guide the operator towards solutions of each individual issue.
- **Online Spare Part Catalog** – A plugin to the ANDRITZ Online Spare Part Catalog enables direct placements of parts to go into the shopping cart, which will be handled immediately by ANDRITZ for submission of sales quotations.
- **3D Simulation** – Digital features such as 3D animations are a bonus when providing assistance and training. Futuristic hologram models of maintenance pro-



cesses placed in the operator's line of vision just above the real equipment enhance the training effect and acceptance by the operator, while also shortening any downtime needed.

- **Work Archiving** – In case of several shifts, operators can record and save videos of important steps of procedure for their co-workers or for knowledge management.

With its new digital technologies such as the Metris Augmented Reality Glasses, ANDRITZ is taking mill operations to the next level. By monitoring an intuitive human-machine interface of the control system that is equipped with groundbreaking digital and visual technology, highly efficient workflows make the future calculable and enable proactive action through the analysis of data. Benefits such as optimized performance and cost-efficiency are achieved with ultramodern digital IIoT solutions.