



BOOST EFFICIENCY WITH ADVANCED DRYING PERFORMANCE

**Metris addIQ control system
for contact drum and paddle dryers**



ANDRITZ

Intelligence for machine and process control



With Metris addIQ, you have a well-proven, intelligent control solution for industrial processes and machines. Our solid/liquid separation specialists use their in-depth expertise to provide scalable solutions that are individually tailored to regional and application requirements. Whether you're automating new equipment or upgrading to extend the lifecycle of existing systems, we find the ideal solution for you.

METRIS addIQ CONTROL SYSTEMS

Our tailored turnkey systems from a single supplier can improve entire plants or individual machines. By providing state-of-the-art automation technologies and digitalization, we ensure best-in-class performance. Automating machine and plant equipment measurably reduces gaps in many different production process steps. By using automation from ANDRITZ, you can reduce downtime thanks to features such as predictive analysis that allow you to optimize productivity.

Metris addIQ control system covers all levels of automation, starting at basic automation (machine, process, and plant control), to upgrades, and add-ons for process optimization. Together, you have a full range of optimized solutions that help reduce maintenance efforts and ensure preventive service for your machines and plants. These are all delivered from a single source and always individually tailored to your business demands.

METRIS - THE ANDRITZ BRAND FOR DIGITAL SOLUTIONS

Under the brand name Metris, ANDRITZ offers a broad and growing range of innovative products and services in the field of industrial digitalization. They help customers increase plant efficiency and profitability, optimize resource use, achieve consistent product quality, reduce production downtime, and maximize user-friendliness.

GET AN OVERVIEW

Metris addIQ
control systems



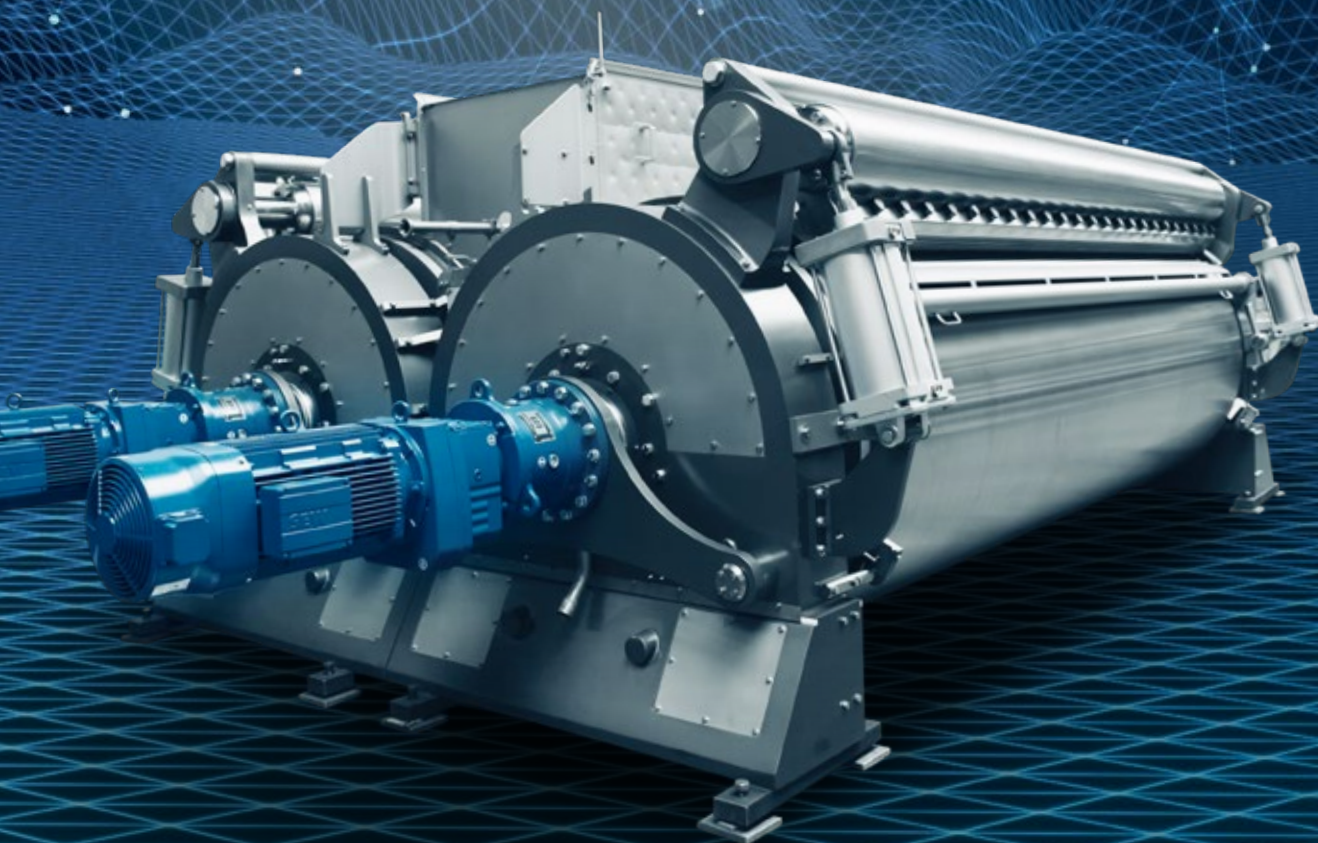
Make your contact drum and paddle dryer ready for the future

Our mission is to enable our customers to achieve their targets in terms of overall equipment efficiency, minimum production costs, transparency, and short training periods – all necessary to give our customers peace of mind. This is particularly important in the highly competitive markets in which our customers operate – be it the food, mining and minerals, environmental or chemical industries. And these industries are facing a new challenge: the Fourth Industrial Revolution, based on the use of cyber-physical systems. This is what drives us in our continuous R&D efforts to develop both state-of-the-art and future-focused dryer technologies.

YOUR TRUSTED PARTNER FOR CONTACT DRUM AND PADDLE DRYER TECHNOLOGY IN THE PAST AND IN THE FUTURE

We can look back on more than 110 years of experience with over 1,500 contact drum and paddle dryer installations worldwide – a track record that not only

underlines our status as a global separation specialist, but also as a strong partner for a wide range of customers in different industries. Our references underpin our vast experience and the trust our customers put in our know-how. Extensive experience paired with innovation – ANDRITZ is your key to digitalization.



Metris addIQ expansion stages to meet your needs

Metris addIQ control system for contact drum and paddle dryers is available in three different stages of expansion: addIQ Dynamic, addIQ Prime, and addIQ Flex.

METRIS addIQ CONTROL SYSTEM FOR CONTACT DRUM AND PADDLE DRYERS

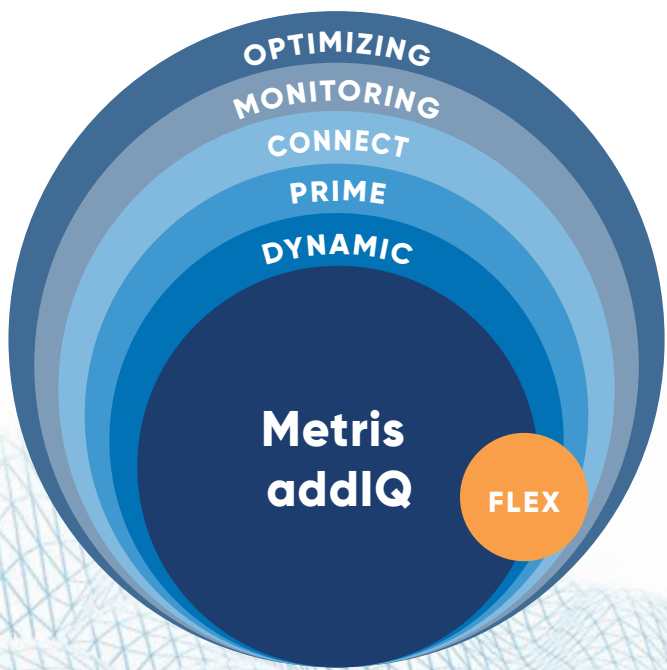
Metris addIQ control system for contact drum and paddle dryers combines all our extensive operation and start-up experience in one tailored automation solution. It is a unique ANDRITZ automation product to maximize your machine performance. Metris addIQ control system for contact drum and paddle dryers is available in different packages according to individual

needs. Naturally, the system can also be retrofitted to existing installations.

EX PROOF

An explosion-proof version of the Metris addIQ control system for contact drum or paddle dryers is also available. It is the ideal option for processes that meet hazardous area classification requirements.

FEATURES	DYNAMIC	PRIME	FLEX
Specific machine control functions	x	x	Customized solution to meet specific customer mill standard
HMI panel for monitoring and parameter setup	10'' touchscreen with upscale possibility	15'' panel PC in every process area	
Easy integration into overall control systems	x	x	
Ready for future functional updates	x	x	
Basic trending functions	x	x	
Monitoring and control of machine and machine auxiliaries	x	x	
High-end trending, optimization and diagnostic functions		x	
Metris addIQ Connect	included	included	
Metris addIQ Monitoring	Option	Option	
Metris addIQ Optimizing	Option	Option	



GET AN OVERVIEW
Metris addIQ control system for contact drum and paddle dryers



Metris addIQ options to step into IIoT solutions

Based on your chosen Metris addIQ control system, you can add further options to get even closer to a digitalized process.

METRIS addIQ CONNECT

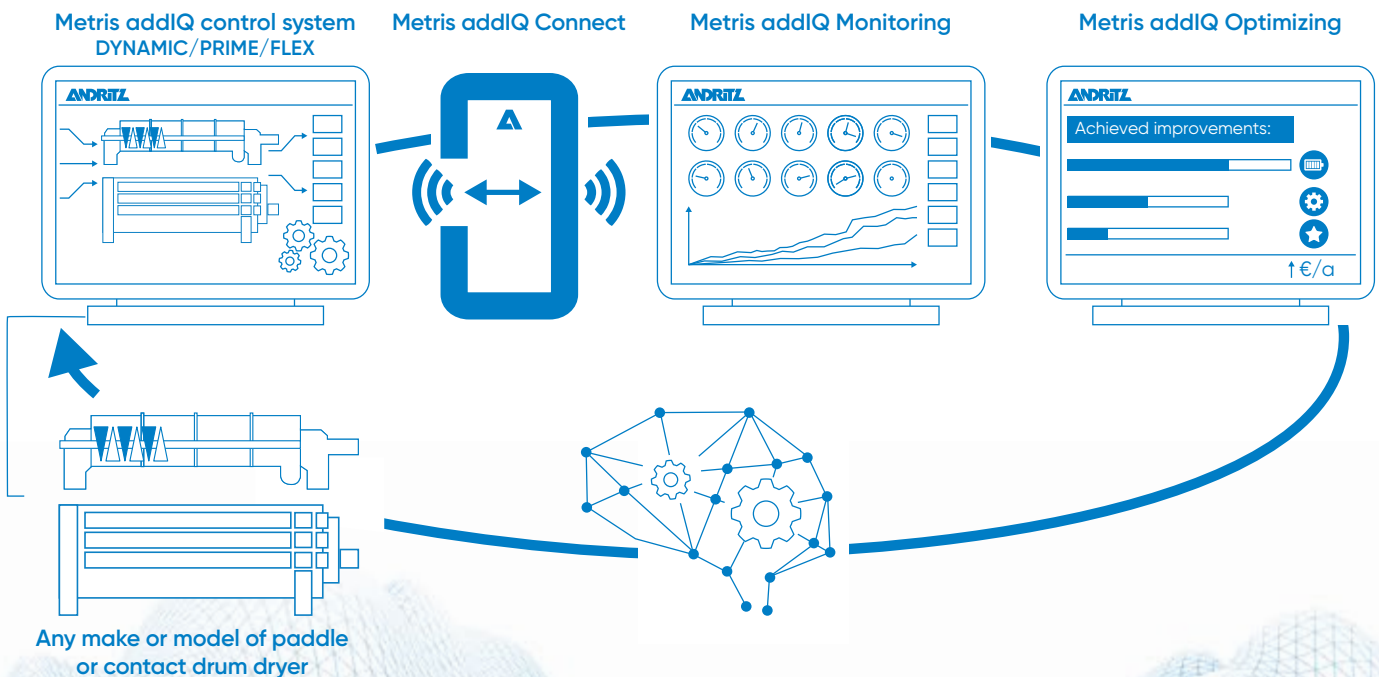
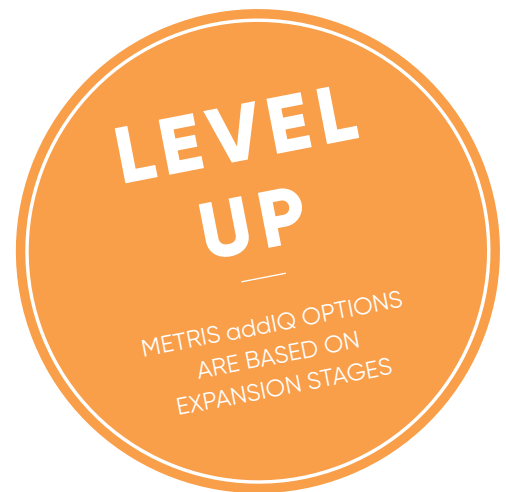
Metris addIQ Connect integrates your dryer into the secure ANDRITZ environment, enabling remote support and fast interaction between your machine and ANDRITZ specialists.

METRIS addIQ MONITORING

Metris addIQ Monitoring is a real-time tracking tool that allows you to monitor the operating status of your machine 24/7 from anywhere in the world.

METRIS addIQ OPTIMIZING

Metris addIQ Optimizing is an analysis tool that ensures your machine performs at its best. Combined with the expertise of ANDRITZ specialists, it reveals opportunities for you to save money, and stabilize and increase the production of your equipment.



From raw material to final product – All in one system

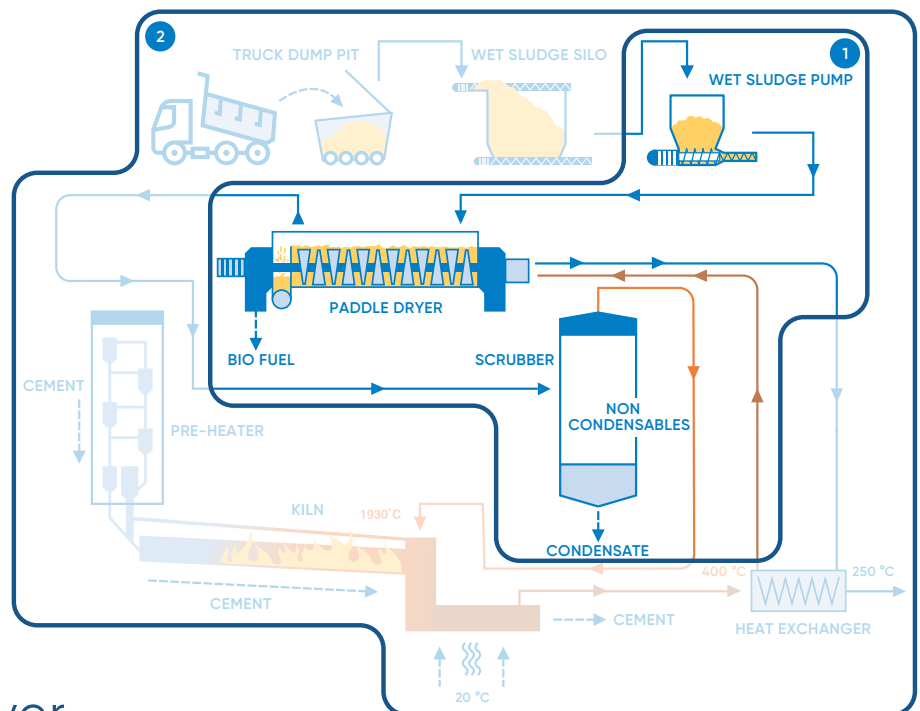
Take full control of your drying processes with ANDRITZ's state-of-the-art solutions. Integrated systems ensure precise maintenance, temperature control, and residence time measurement.

ANDRITZ contact drum and paddle dryers can both be used in turn-key solutions for various purposes. Depending on the application, the full equipment package may also contain raw material intake, storage facilities, milling, and packaging. All the necessary instruments can be easily integrated into the

Metris addIQ control system for simple and efficient operation of your manufacturing process. Maintenance sequence for certain wear parts, temperature control, and residence time measurement are just a few of the topics that can be controlled using the Metris addIQ control system.

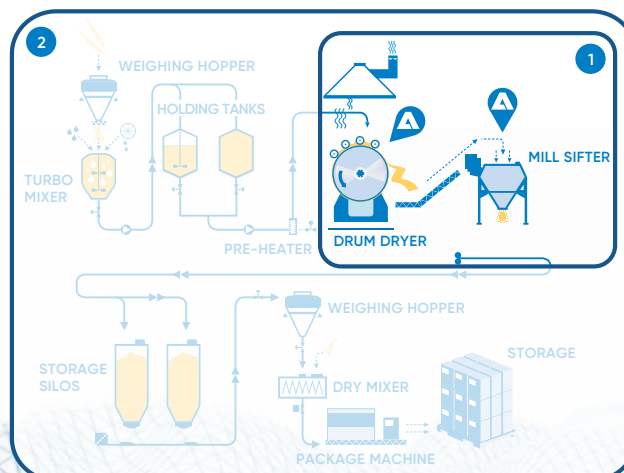
Paddle dryer

- 1 Possible scope of supply by Metris addIQ Dynamic
- 2 Possible scope of supply by Metris addIQ Prime



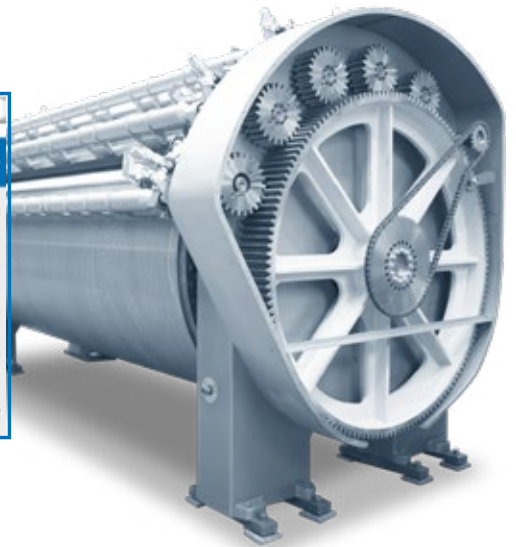
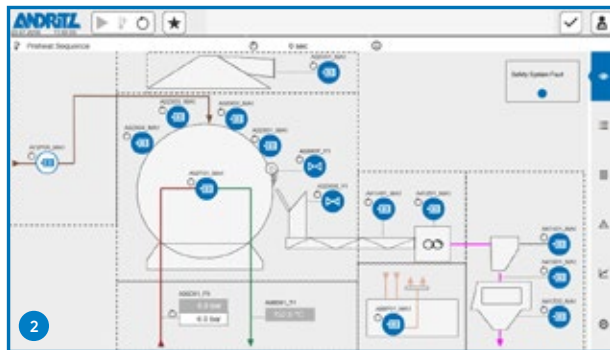
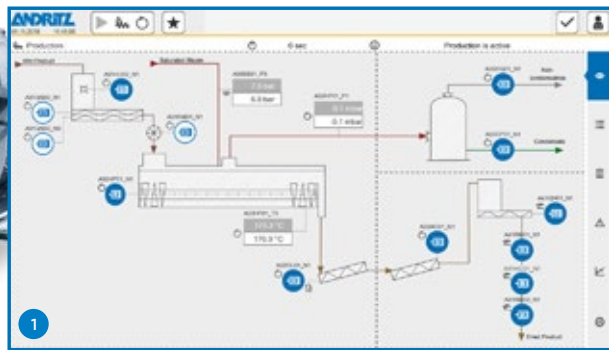
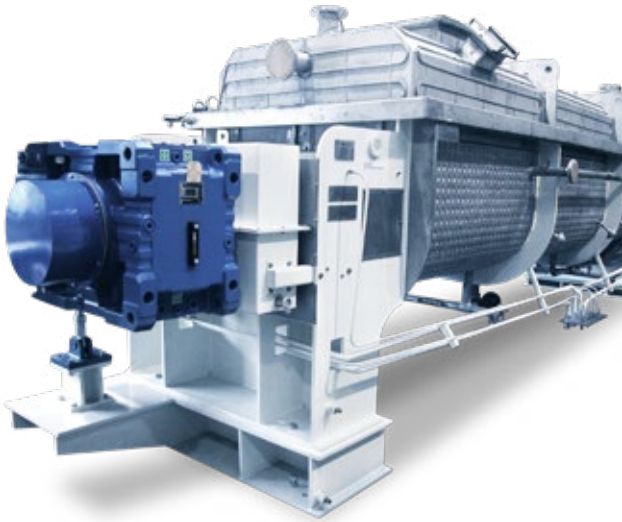
Contact drum dryer

- 1 Possible scope of supply by Metris addIQ Dynamic
- 2 Possible scope of supply by Metris addIQ Prime



Standard tool set tailored to your specific needs

**INSTALL METRIS
addIQ CONTROL
SYSTEM ON YOUR NEW
DRYER OR UPGRADE
YOUR EXISTING ONE**



- 1 Metris addIQ control system – HMI for paddle dryer
- 2 Metris addIQ control system – HMI for contact drum dryer

Benefits

- Easy integration and short start-up time in existing or new systems
- Higher plant availability and best performance via alarms and intuitive machine interface
- Improved process stability
- Short response times via remote support
- Door opener for all future IIoT solutions

Additional functions that can be included in your Metris addIQ control system

With your Metris addIQ control system, you can not only interact with the different operating modes of your contact drum or paddle dryer, but also access a wide range of other functions and tools that will sustainably improve your process.

SERVO-CONTROLLED APPLICATOR ROLL GAP SETTING FOR CONTACT DRUM DRYERS

Gaps are supposed to be set at tenths of millimeters from the main drum to obtain the best possible production results. These results become predictable and repeatable if you are able to set the exact same position of the applicator rolls every time and can change the settings simply by touching the HMI. That is what ANDRITZ offers with this newly developed, servo-controlled gap setting system. It allows the operator to adjust the applicator roll gaps electrically to the optimum position.



Servo-controlled gap setting system

Features / Technical details

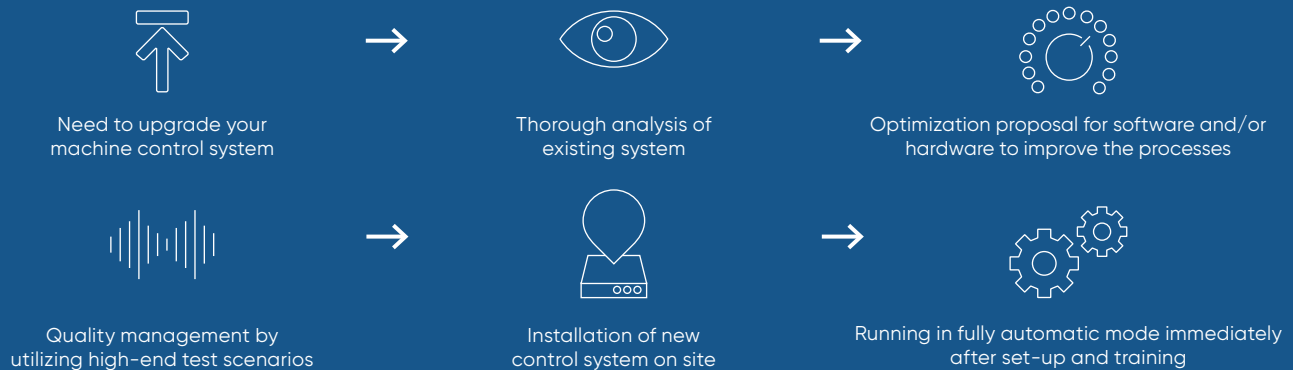
- Repeatable production settings
- Intuitive interface minimizes errors
- Faster, simpler setup and operation

Automated precision for maximum efficiency

Benefits

- Predictable, repeatable production results
- Maximum, consistent and high-quality output
- High machine reliability
- Improved operator safety

Moving to a modern control system under tight time constraints



Successful process improvement with Metris addIQ control systems

Case study: Upgrade of contact drum dryers for a baby food producer

CHALLENGE

ANDRITZ supplied a new contact drum dryer with a Metris addIQ control system. During order execution, the customer saw that the control system brings a huge benefit in terms of ease of operation and asked ANDRITZ to upgrade the existing machines as well. In addition, he wanted to have a supervisory control system to make sure that he can run all the machines from a single control room.

SOLUTION

ANDRITZ analyzed the on-site situation and installed a new Metris addIQ control system with a minimum of downtime to upgrade the existing contact drum dryers. With the new control system, manual work is reduced to a minimum, all of the machines can be controlled from one single location, and production transparency with integrated trend functions is guaranteed.

CUSTOMER BENEFITS

- Improved contact drum dryer performance resulting in higher production capacity
- Production transparency
- Intelligent machine control reduces manual workload to a minimum
- Same spare part stocks for all machines
- Standardized electrical/automation documentation, which makes life easier for the maintenance team



Put our 150 years of OEM experience to work for you

Need to optimize your process? Boost availability? Ensure non-stop productivity? By choosing ANDRITZ as your partner, you gain access to one of the world's largest OEM manufacturers for solid/liquid separation. Put our in-depth knowledge of separation equipment and processing to work for you.

VAST EXPERIENCE WITH LARGE INSTALLED BASE

With an installed global base of more than 55,000 solid/liquid separation machines and systems, you can be sure that we take service seriously. Wherever our customers are located, we work very closely with them to maximize uptime and boost efficiency.

WELL-KNOWN OEM BRANDS

Some customers know us as the people with ANDRITZ overalls. Others have come to understand that we are the OEM behind former brand names like 3Sys Technologies, Bird, Dedert, Delkor Capital Equipment (Pty) Ltd., Escher Wyss dryers, Guinard Centrifugation, KHD Humboldt Wedag, Krauss-Maffei centrifuges, dryers, and filters, LENSER Filtration, Netzsch Filtration, REINEVELD centrifuges, Rittershaus & Blecher, Royal GMF Gouda, Sprout Bauer and Vandenbroek – all companies that have been acquired by ANDRITZ. But, to put it simply, we are capable of servicing and supplying spare parts for nearly all brands of solid/liquid separation equipment on the market.

LOCAL SUPPORT BACKED BY GLOBAL EXPERTISE

Our service philosophy is simple: One phone call, one contact person, one dedicated team that speaks your language and knows your equipment and process. This is not an empty promise. It is backed by a network of 550 service specialists for separation equipment and systems as well as service centers all around the world.

A TRUE FULL-SERVICE PROVIDER

Whether you need spare parts, rentals, local service, repairs, upgrades, or modernization of your equipment, ANDRITZ is your service specialist in all aspects of separation. From initial consulting through to service agreements, process optimization, and training programs, we are always looking for ways to minimize downtime and increase predictability in operations, while raising your overall production efficiency. In short, we've got you covered.



LOCAL SUPPORT

Responsive local service centers and field service technicians



REPAIRS & UPGRADES

Optimization of machine and process performance, repair work, retrofitting, and modernization



LAB AND ON-SITE TESTS

Lab and testing capabilities for process optimization and machine upgrades



TRAINING

Operator training and tailored seminars for operating and maintenance personnel



OEM SPARE PARTS

Filter cloths, spare and wear parts from OEMs or with OEM level quality, all readily available



SERVICE AGREEMENTS

Preventive maintenance, contracts for spare parts, maintenance, inspections, repairs, upgrades, operation, and equipment monitoring



PROCESS OPTIMIZATION

Automation tools and process expertise to boost your profit



SECOND-HAND & RENTALS

Certified second-hand and rental machines



THE METRIS COMPETENCE

ANDRITZ offers a broad and constantly growing range of innovative products and services in the industrial digitalization sector under the brand name Metris, helping customers to

- Enhance plant efficiency and profitability
- Optimize the use of resources
- Achieve constant and highest product quality
- Avoid production downtime
- Maximize user-friendliness

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