



SEPARATION

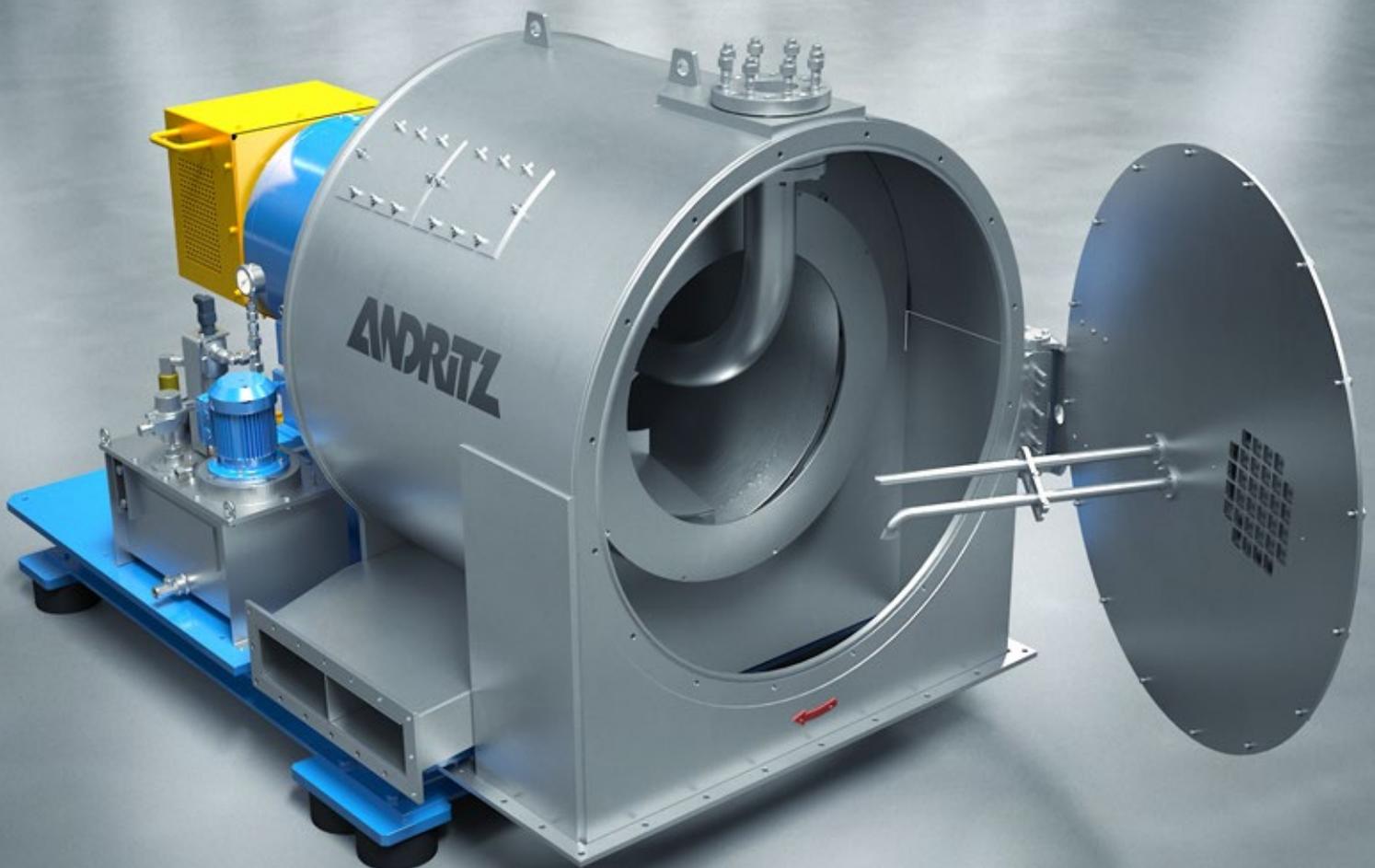
FLEXIBLE DEWATERING WITH MINIMUM DOWNTIME

ANDRITZ SCREEN SCROLL CENTRIFUGE HX

ANDRITZ

ENGINEERED SUCCESS

Keeping your filter centrifuge running whatever the upstream conditions is a major challenge for many companies. The continuous filter centrifuge from ANDRITZ, the screen scroll centrifuge HX, has been designed to handle a great variety of feed materials from the chemicals, food and beverage or mining and minerals industries without these materials compromising operations. Varying feed conditions or interrupted feeding can be handled effectively, securing consistent performance as long as certain minimum requirements are met. In this new filter centrifuge design, everything has been done to make sure that the machine has maximum uptime in order to optimize production.



Our innovation and expertise are your keys to success

The newly designed ANDRITZ screen scroll centrifuge HX combines experience with over 900 installations containing our C-Type (formerly Guinard) and H-type (formerly Bird) product lines with innovative and patented new features.

ANDRITZ screen scroll centrifuges are very reliable and offer stable performance, even under difficult feeding conditions such as low or varying feed concentrations, high viscosities, or interrupted feeding.

Ideally suitable for bulk chemicals, agrochemicals, food, and much more, this new generation of screen scroll centrifuges features an express cartridge for maximum uptime and easy maintenance, an innovative feeding system to reduce wear and particle attrition, as well as a modular scroll design for efficient and convenient maintenance. In short, the ANDRITZ screen scroll centrifuge HX enables reliable and uninterrupted operation, with minimum downtime and maximum ease of maintenance. The minimum requirements for screen scroll centrifuges are median particle diameter $d_{50} > 100 \mu\text{m}$ and a feed solids concentration $> 10\%$.

YOUR BENEFITS

- Designed to last thanks to profound process and operating know-how based on 60+ years of experience
- Maximum uptime and easy maintenance with the express cartridge
- Convenient and efficient maintenance as a result of the patented and modular scroll design
- Reduced wear and particle attrition enabled by the Gentle Feeder™ feed system

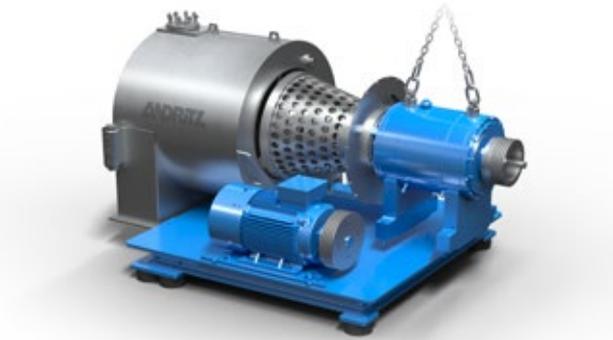


Express cartridge for maximum uptime and easy maintenance

Technical innovations for minimum downtime

EXPRESS CARTRIDGE: NO DISCONNECTING OF PROCESS PIPING DURING MAINTENANCE WORK

With this screen scroll centrifuge, the entire rotating assembly (cartridge) can be removed quickly in one piece and replaced with a spare cartridge to reduce the overall downtime to less than 8 hours. While the machine is operating with the spare cartridge, the original cartridge can undergo maintenance in a service center so that production downtime is limited to a minimum, even if major maintenance work is required.



FAST ACCESS TO SCROLL AND SCREENS FOR REMOVAL

Minor maintenance work does not require removal of the entire cartridge, e.g. the scroll and screens are easily accessible for fast removal, requiring only standard tools (hammer, screw driver, ...) and a crane or a fork lift (lifting beam supplied with the machine). There is no need to touch the external process piping or the scroll hub for this purpose.



MODULAR SCROLL: EASY TO REMOVE AND CONVENIENT TO MAINTAIN

The scroll is designed in a modular way for cost efficiency and fast repair. The key components of this patented design are:

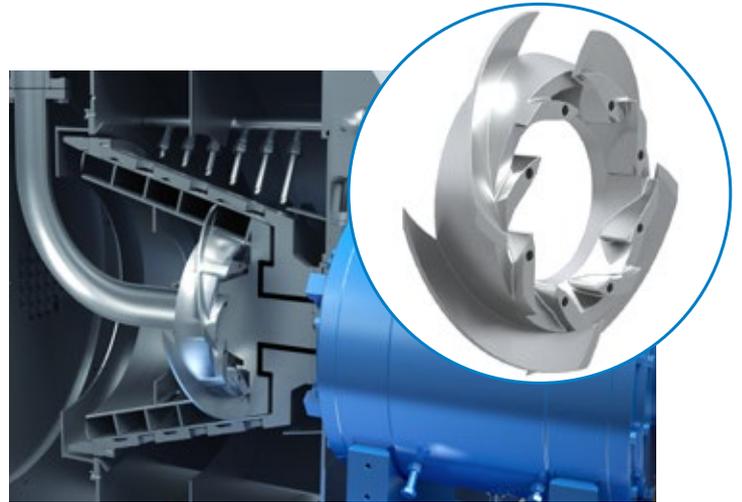
- Scroll main body (1)
- Feed cone connection to feed pipe (2)
- Distance ring for adjustment of scroll/screen distance (3)
- Feed system (4)
- Scroll hub connection to gearbox (5)

Due to the modular design, parts frequently subject to wear, such as the feed system or the conveyor in the feeding zone, can now be replaced separately, resulting in lower maintenance costs and shorter downtimes.



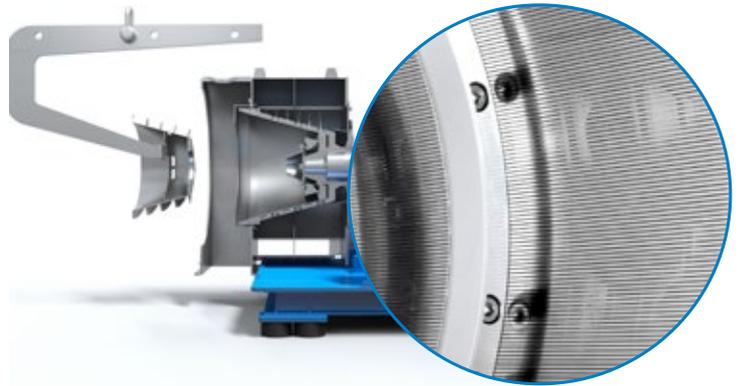
REDUCED WEAR AND INCREASED PRODUCT QUALITY WITH THE GENTLE FEEDER™

The Gentle Feeder ensures feeding with gentle particle acceleration. The feeding system vanes smoothly accelerate the solids, thus reducing wear on the screens and particle breakage and increasing the recovery rate and product quality. As the scroll has a modular design, the GentleFeeder feeding system can be replaced separately in one piece, while other elements of the scroll can be reused.



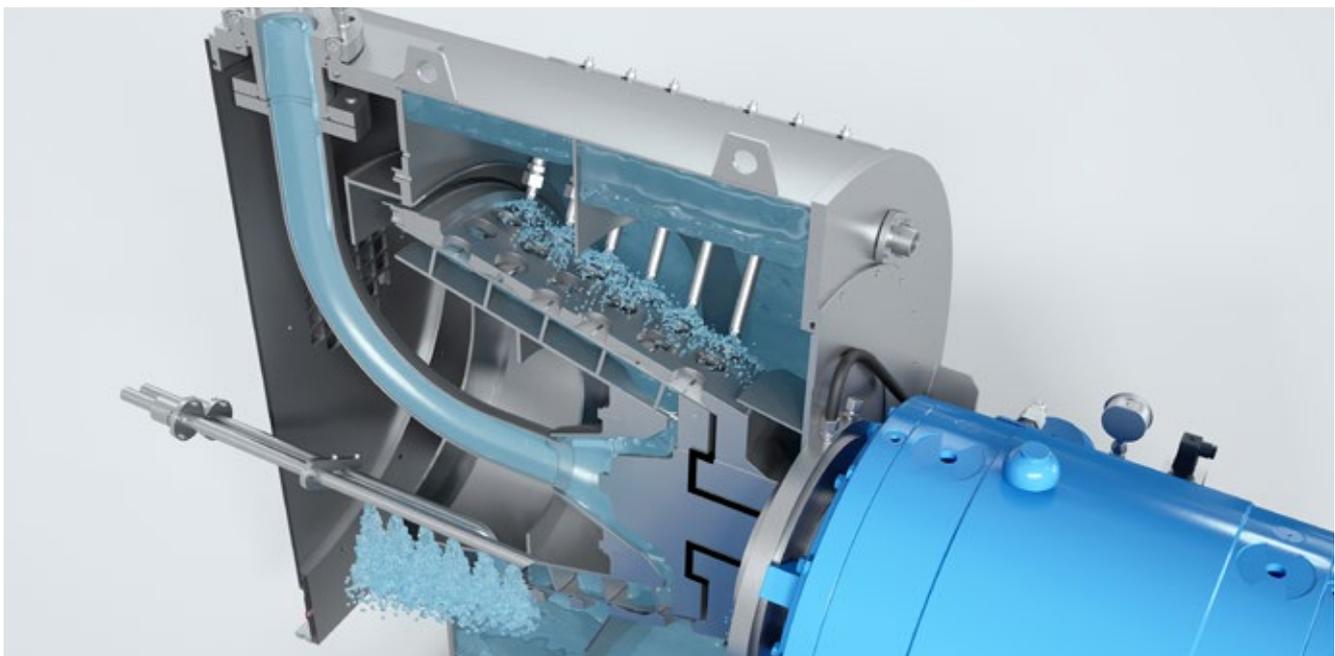
SLOT SCREENS: REDUCED SCREEN PLUGGING AND MINIMIZED SOLIDS LOSS IN FILTRATE

The purpose of the screen is to retain particles and allow cake formation while letting the liquid drain through. The screens are held in place by a fixing ring and segmented into at least two parts for an optimum combination of comfortable handling during replacement and largest active screen area for filtration. The screen profile design is optimized to maximize liquid drainage and minimize particle loss.



In addition to these specific features, the ANDRITZ screen scroll centrifuge HX is delivered with:

- **Cleaning-In-Place (CIP)** system to minimize manual cleaning work
- **Cake washing**, which allows removal of residual mother liquor and impurities, thus increasing product quality
- **Wear protection** (optional), primarily in the feed system, scroll flight, and solids discharge areas



Cleaning-In-Place (CIP) system to minimize manual cleaning work

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 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. addIQ control systems are part of Metris, the ANDRITZ brand for digital solutions.

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, reduce production downtime, and maximize user-friendliness.



Your full-service provider

With ANDRITZ, you gain access to one of the world's largest OEM manufacturers for solid/liquid separation systems, including such well-known brands as 3Sys Technologies, Bird, Delkor Capital Equipment (Pty) Ltd., Escher Wyss dryers, Guinard Centrifugation, KHD Humboldt Wedag, Krauss-Maffei centrifuges, dryers, and filters, Lenser, Netzsch Filtration, Rittershaus & Blecher, Royal GMF Gouda, Sprout Bauer, and Vandebroek.

Whether you need spare parts, rentals, local service, repairs, upgrades, or modernization of your equipment, ANDRITZ is your true full-service provider. 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. Wherever you operate, our network of 550 service specialists and global service centers ensures we'll always be there to support you for many life cycles to come. Let's sit down and see how we could take your operations to the next level.



LOCAL SUPPORT

Responsive local service centers and field service technicians



REPAIRS & UPGRADES

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



SECOND-HAND & RENTALS

Certified second-hand and rental machines



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



LAB AND ON-SITE TESTS

Lab and testing capabilities for process optimization and machine upgrades



WHAT'S YOUR SEPARATION CHALLENGE?

ANDRITZ Separation is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years, we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals, and mining & minerals. As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge. **Ask your separation specialist!**

AFRICA

ANDRITZ Delkor (Pty) Ltd.
p: +27 11 012 7300
separation.za@andritz.com

EUROPE

ANDRITZ Separation GmbH
p: +49 8139 80299 0
separation.de@andritz.com

ASIA

ANDRITZ Singapore Pte. Ltd.
p: +65 6512 1800
separation.sg@andritz.com

NORTH AMERICA

ANDRITZ Separation Inc.
p: +1 817 465 5611
separation.us@andritz.com

AUSTRALIA

ANDRITZ Pty. Ltd.
p: +61 3 8773 4888
separation.au@andritz.com

SOUTH AMERICA

ANDRITZ Separation Ltda.
p: +55 47 3387 9100
separation.bra@andritz.com

CHINA

ANDRITZ (China) Ltd.
p: +86 757 8258 6802
separation.cn@andritz.com

[ANDRITZ.COM/SEPARATION](https://www.andritz.com/separation)

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