



FLEXIBLE DEWATERING WITH MINIMUM DOWNTIME

ANDRITZ screen scroll centrifuge HX

ANDRITZ

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

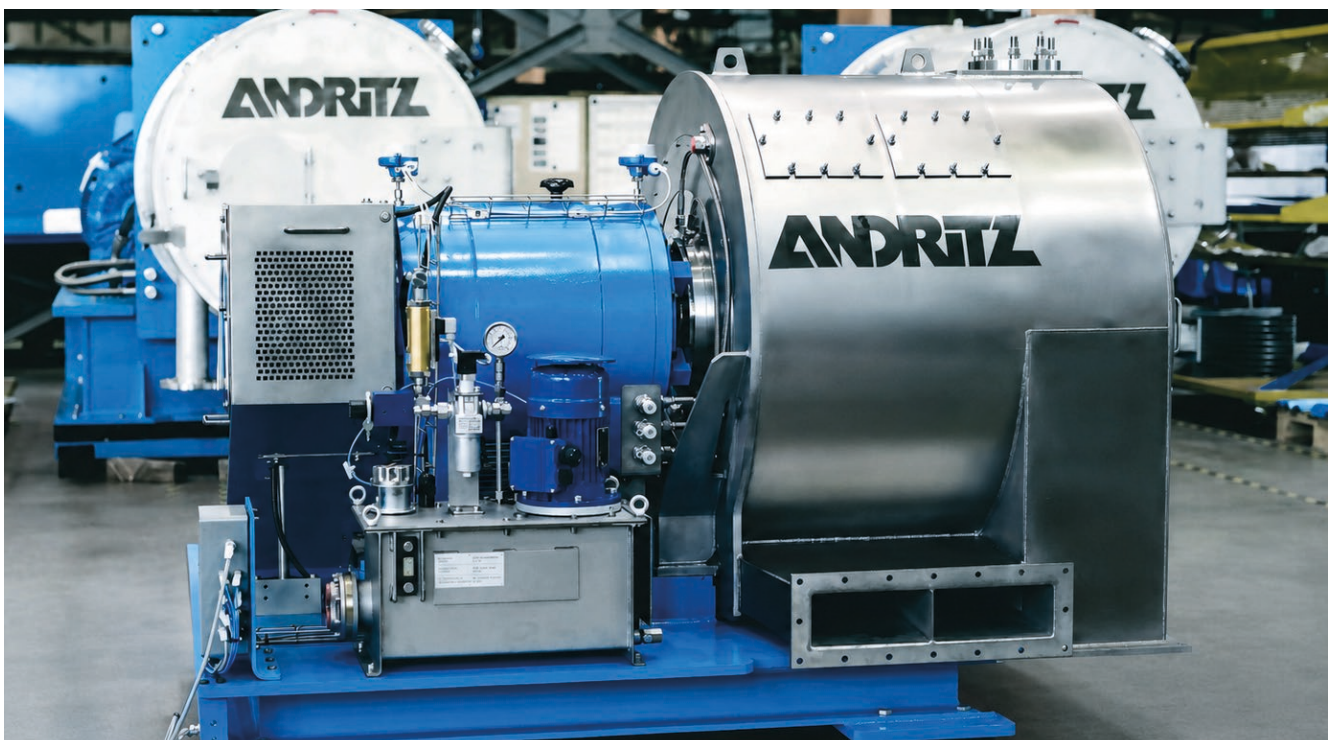
The newly designed ANDRITZ screen scroll centrifuge HX combines experience with over 900 installations containing our C-Type (formerly Guinard) and H-type (formerly Bird) product lines with innovative and patented new features.

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

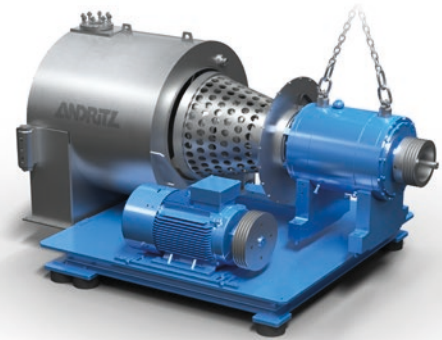


Express cartridge for maximum uptime and easy maintenance

Technical innovations for minimum downtime

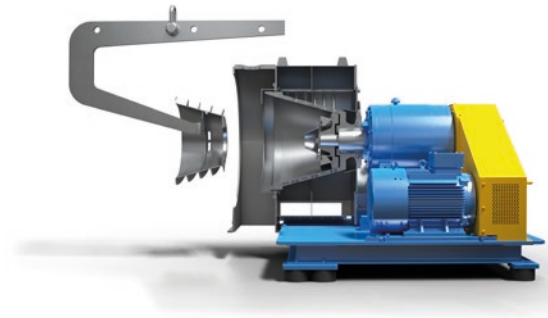
EXPRESS CARTRIDGE: NO DISCONNECTING OF PROCESS PIPING DURING MAINTENANCE WORK

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.

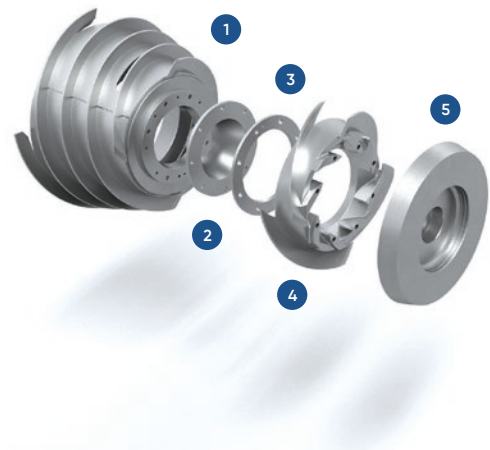


MODULAR SCROLL: EASY TO REMOVE AND CONVENIENT TO MAINTAIN

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

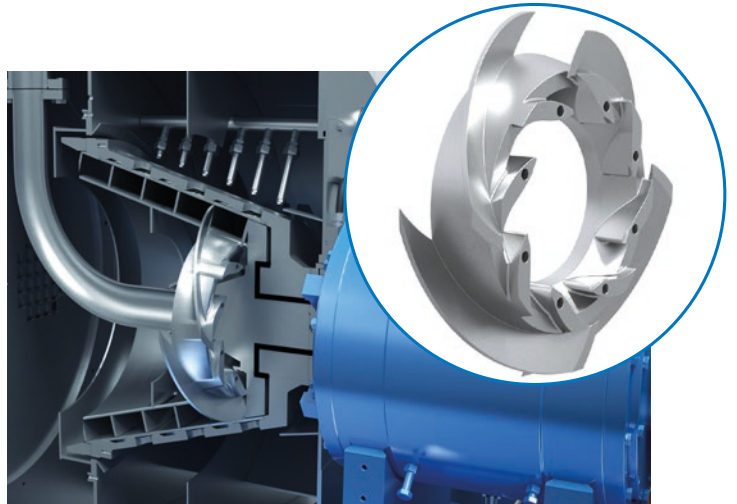
- Scroll main body (1)
- Feed cone connection to feed pipe (2)
- Distance ring for adjustment of scroll/screen distance (3)
- Feed system (4)
- Scroll hub connection to gearbox (5)

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.



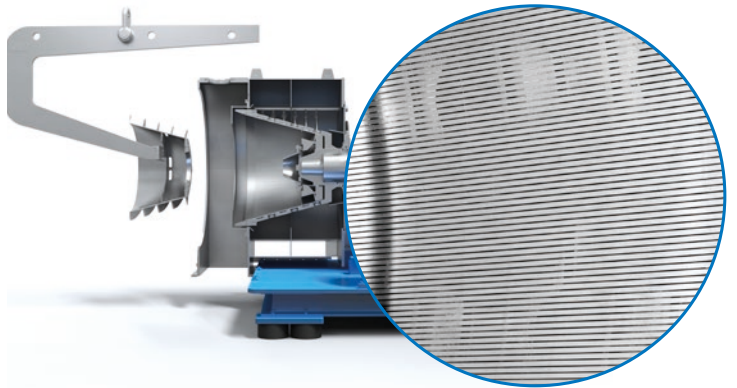
REDUCED WEAR AND INCREASED PRODUCT QUALITY WITH THE GENTLE FEEDER™

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.



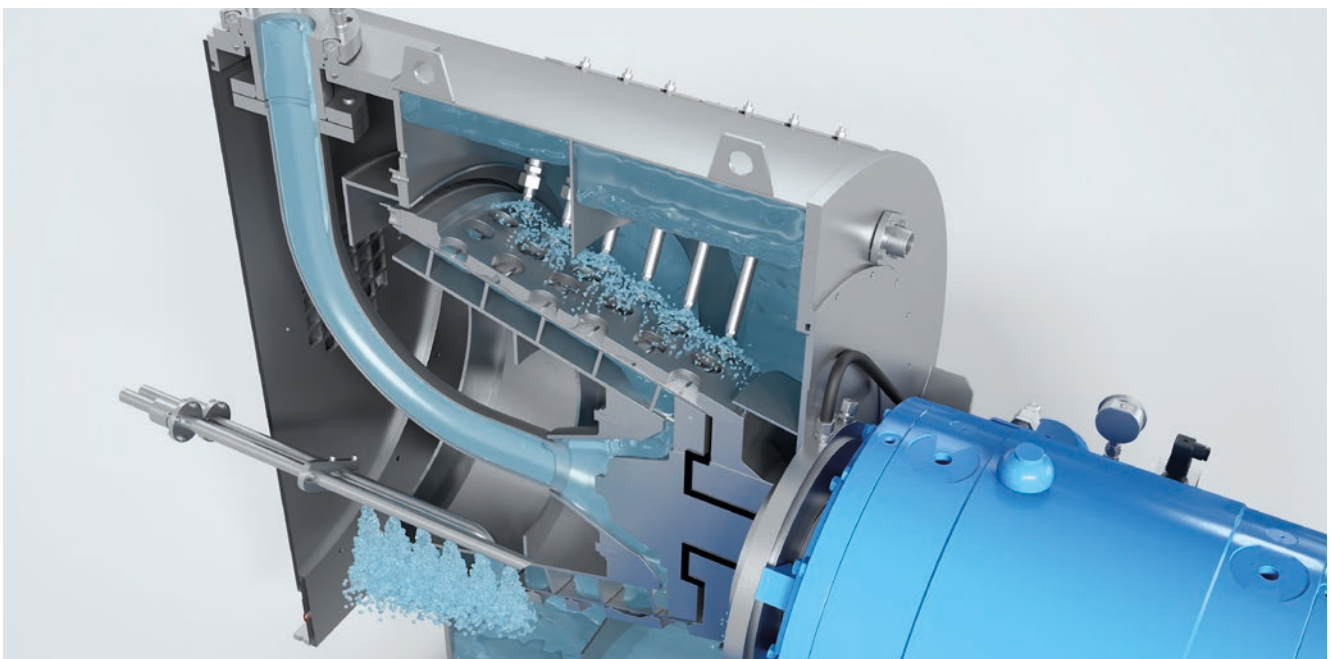
SLOT SCREENS: REDUCED SCREEN PLUGGING AND MINIMIZED SOLIDS LOSS IN FILTRATE

The purpose of the screen is to retain particles and allow cake formation while letting the liquid drain through. The single-piece screen design ensures effortless handling and quick replacement, combining maximum ease of maintenance with an optimal active filtration area. 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

A screen scroll centrifuge engineered for every application

Scope of applications

BULK CHEMICALS

- Technical salts
- Inorganic salts
- Organic salts
- Mineral processing
- Salt recovery

AGRO CHEMICALS

- Nitrogen fertilizers
- Phosphate fertilizers
- Potash fertilizers
- Crop protection

FOOD AND BIOPRODUCTS

- Edible salts
- Spent grains
- Dairy products
- Fermentation products
- Plant-Based products

SPECIALTY CHEMICALS AND POLYMERS

- Polymers and resins
- Fine chemicals
- Battery materials
- Miscellaneous / Industrial

GENERAL REQUIREMENTS

- Average particle diameter $>100\ \mu\text{m}$
- Feed solids concentration $>10\%\text{w/w}$
- Solid throughput 0.5-50 t/h



The right solution for any separation challenge

PEACE OF MIND, COST EFFICIENCY, AND SUSTAINABILITY – ALL FROM ONE TRUSTED PARTNER.

Regardless of your industry – whether environmental, chemicals, mining and minerals, or food and beverage – efficient separation processes are essential for high product quality, reduced waste, and the responsible use of valuable resources. With our advanced technologies, comprehensive services, and smart automation and digitalization solutions, we deliver peace of mind today and lasting success for tomorrow – efficiently, responsibly, and with measurable impact. What's more, with us you also gain access to one of the world's largest OEM manufacturers for solid/liquid separation for well-known brands such as 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 and Blecher, Royal GMF Gouda, Sprout Bauer, and Vandenbroek.

SEPARATION EQUIPMENT AND SYSTEMS

- Decanter and filter centrifuges
- Filter presses
- Dryers
- Presses and screens
- Extractors
- Thickeners
- Evaporators and crystallizers
- Disc and drum filters
- Screening and filtration components
- Specialized thermal systems



FULL-SERVICE OFFERING

- OEM spare and wear parts
 - Maintenance and repairs
- Service agreements
 - Automation and digitalization
 - Machine and process optimization
 - Second-hand and rentals

AUTOMATION AND DIGITALIZATION SOLUTIONS

Site assessment and integration • Advanced process control and artificial intelligence • Simulation and training • Digital twin technology • Data analytics and prediction • Electrification, instrumentation and controls

Enabling the green transition

As a technology leader in a changing world, we strive to make a positive impact on our environment. We believe that what we do today can make a difference tomorrow and in the future. We drive change and enable our customers to achieve their sustainability goals and make the world greener with our sustainable solutions in decarbonization, circular economy, renewable energy, and environmental technologies. It all starts with your specific process requirements and ends with a system that gives you the best results – day in and day out, for decades to come.

ANDRITZ. FOR GROWTH THAT MATTERS.



A WORLD OF SEPARATION SOLUTIONS

ANDRITZ provides mechanical and thermal solid/liquid separation technologies, complemented by comprehensive services, automation, and digitalization solutions for the chemicals, environment, food and beverage, as well as mining and minerals industries. Our customized, innovative solutions focus on minimizing resource consumption and maximizing process efficiency, thus making a substantial contribution towards sustainable environmental protection. With over 150 years of experience and more than 2,700 separation specialists around the globe, we are a driving force in the evolution of separation solutions – enabling industries to meet tomorrow's demands responsibly. **ANDRITZ. FOR GROWTH THAT MATTERS.**

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