

ANDRITZ Pulp & Paper

ANDRITZ Sludge & Reject News



No. 4 / 2-2015

This ANDRITZ Sludge & Reject Newsletter has the following topics for you:

- [Ballistic Separator ReBal](#) – for removing bulky reject compounds
 - [CPF Rhino and CPF Hippo](#) – now also available with working widths of 1.2 m
 - [Sediment Separator ReSed](#) – with advanced ANDRITZ design
 - [Mobile ReCo](#) – now permanently installed in a French mill
 - [Decanter centrifuge D](#) – a specific application for thickening and dewatering of fibrous sludges in paper mills
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ANDRITZ Ballistic Separator ReBal: shake up your rejects

ANDRITZ has recently extended its product portfolio in the recycling sector with the Ballistic Separator ReBal. This machine is used for removing bulky material from a mixed reject stream, based on the material's ballistic behavior.



**ANDRITZ Ballistic Separator ReBal
(opened for maintenance purposes)**

A solid, inclined screen plate oscillates at around 150 revolutions per minute, setting the material on it in motion. All spheric or cubic parts roll downwards to the heavy fraction. On the one hand, this fraction includes unwanted debris like stones, bricks, and other heavy items that have to be removed in order to protect the downstream equipment in a reject line. On the other hand, very valuable compounds – such as plastic bottles or cans – can be removed. These materials would otherwise have to be removed laboriously by hand.

All flat and light particles – such as films or sheets of plastic – move upwards towards the light fraction.

The ReBal offers several adjustment possibilities (e.g. angle of inclination, machine speed) that allow you to choose the perfect setting for your material. The machine is manufactured in-house and has already been applied in several reject lines supplied by ANDRITZ.

Download the new [ANDRITZ ReBal leaflet here](#).



CPF units also available with
1.2 m working width

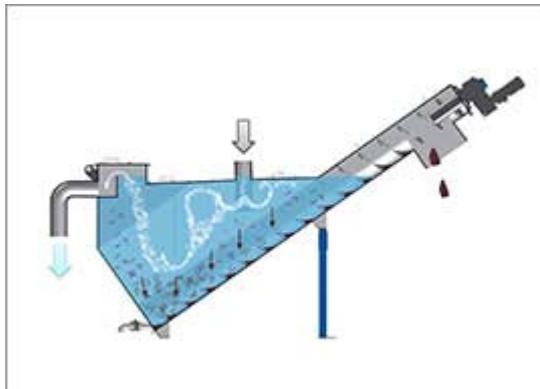
CPF Rhino and CPF Hippo now also available as smaller units

In previous issues of the ANDRITZ Sludge & Reject News, we introduced our new generation of continuous pressure filters, CPF Rhino and CPF Hippo, which are most suitable for a wide range of fibrous sludges with high, medium, or low fibre content.

In order to fulfill the demands of applications with low and medium throughput, both belt press types are now also available with a working width of 1.2 m.

This size complements the existing CPF units with 2 and 3 m working width, in accordance with global market requirements.

More about [ANDRITZ sludge dewatering](#).



ANDRITZ Sediment Separator ReSed

Sand separators of different types and shapes are used in almost every mill where low-consistency rejects and filtrates have to be cleaned and dewatered. However, many of those units create a headache for operators. Low efficiencies, bad filtrate quality, operational issues, high maintenance requirements, and wear are the main problems experienced by many customers. That's why we at ANDRITZ have tackled this problem and released a new type of sediment separator, the ReSed.



Schematic principle of the
ANDRITZ ReSed and dewatered fraction

The basic operating principle stays the same: heavy particles in liquids settle in a chamber before being removed by a screw. However, by optimizing the geometry of the sedimentation tank and the internal flow pattern, a huge leap can be achieved in efficiency. As the sedimentation chamber is completely filled with liquid and – unlike many other designs – does not have any

free surface areas, problems like floating fibers, which can plug the machine, are avoided.

ANDRITZ offers two types of separators: the F-type for separation of sand and fine, but heavy particles from HD and LC cleaners, and the H-type for larger debris from pulper junk traps and the like.

Take a look at more [ANDRITZ reject equipment](#).



Mobile ReCo with permanent residence

A French manufacturer of packaging board has placed an order with ANDRITZ for supply of a new Reject Compactor ReCo to replace an existing unit.

Before placing this order, the mill had signed a rental agreement to install and test ANDRITZ's mobile ReCo. This fully pre-assembled ReCo50 reject compactor is mounted on an elevated base frame, making it easy to install and start up – simply plug and play (see Sludge & Reject Newsletter no. 2 - 2/2014).



ANDRITZ ReCo50 set-up in France

Following a successful trial period, the mill went on to purchase the rented unit. With very little effort, the mobile device could be turned into a stationary piece of mill equipment.

This first ReCo unit operating in France has already generated substantial interest from other mills. Initial renting of the mobile device is a low-risk opportunity to learn about advanced compacting technology, with the option of permanent installation at the mill site.

Read more about the industrial-scale [ANDRITZ ReCo](#).



Decanter centrifuge type D

Decanter centrifuge D: With huge G-force to higher dryness

Gravity tables, drum or disc thickeners, screw presses and belt presses are quite commonly used to thicken and dewater fibrous sludges in paper mills. In certain cases, however, a decanter centrifuge is required. This is specifically the case in mills where secondary or purely biological sludges occur that need to be dewatered and disposed of separately due to environmental regulations.

ANDRITZ has a long tradition of supplying centrifuges for a wide range of process applications. For paper mill sludges with low fiber and high biological content, the decanter centrifuge D provides highest performance – applying accelerations of more than 3000 g – combined with most effective power management. This results in very high final dryness and excellent filtrate (centrate) quality. The product series covers a throughput range starting at 4 m³/h up to more than 200 m³/h per unit.

Curious to learn more? Get more information on the [ANDRITZ decanter centrifuge](#).

If you have any questions on ANDRITZ's capabilities in sludge and reject handling, please [contact us](#).

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