

ANDRITZ Sludge & Reject News



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The third issue of the ANDRITZ Sludge & Reject Newsletter again has some interesting topics for you:

[CPF Hippo](#) – a heavy-duty sludge belt press;

[successful start-up of a sludge screw press](#) in Germany;

[ANDRITZ thickening drum TD](#) – an attractive alternative for sludge pre-thickening;

[ANDRITZ granulator UG](#) – an excellent fine shredder that is new in the ANDRITZ family.



ANDRITZ CPF Hippo treats sludges with high fiber content

CPF Hippo – the right choice for highest sludge dryness

As introduced in the previous edition, the CPF Rhino continuous pressure filter is preferably chosen to treat mixed sludges with a certain biological content. ANDRITZ has now extended the CPF product family by adding the “Hippo” model, which is able to treat press-stable sludges with a high fiber content.

The CPF Hippo can be used for various feed consistencies. It can be delivered either with an integrated gravity zone or with a medium-consistency headbox that can be combined perfectly with the ANDRITZ gravity table GT.

Thanks to its modular design in the pressure zone, different roll arrangements are possible. The number and configuration of S-rolls and press-nips depend on the stability of the sludge. The line pressure of each press nip can be adjusted individually.

Only a few weeks ago, an ANDRITZ CPF Hippo 20 was started up successfully in a paper mill in South Africa. It is used to dewater primary sludge with a high fiber content. Results were outstanding from the very beginning, with a significant increase in dry content compared to the previous treatment method used.

More about [ANDRITZ sludge dewatering](#).



ANDRITZ SCS454 sludge screw press

Prompt installation and successful start-up of sludge screw press at FS-Karton, Germany

In spring 2014, FS-Karton in Neuss, Germany, ordered a new sludge screw press from ANDRITZ for dewatering of fibrous sludge.

The order comprises delivery of a sludge screw press, type SCS454, to dewater up to 20 tons of pre-

thickened, mixed sludge per day.

As the shutdown time was to be kept as short as possible, both parties made suitable preparations so that the old equipment could be dismantled and the new screw press installed within only a few days. The ANDRITZ SCS454 was started up successfully in early November 2014.

In terms of mechanical design and performance, the new ANDRITZ sludge screw press is operating satisfactorily, dewatering the mixed sludge to the highest possible dryness.

Read more about the ANDRITZ family of [sludge screw presses](#).



ANDRITZ thickening drum TD (opened)

ANDRITZ thickening drum TD – efficient and reliable sludge thickening

The ANDRITZ thickening drum TD is used for continuous pre-thickening of sludge that is to be dewatered subsequently in a belt or screw press. For applications with low and medium throughput, this unit is an economical alternative to belt thickeners.

Thanks to the efficient and reliable process and the high hydraulic thickening capacity, the TD can remove up to 90% of the water in the sludge. The compact design results in low investment costs; the low specific power consumption, easy maintenance, and low wear of key components help to keep the operating costs down.

Interested in the [ANDRITZ thickening drum TD](#)?
Read more.



**New ANDRITZ granulator UG after re-design
and further technical development**

ANDRITZ granulator UG – fine shredding of P&P rejects

The ANDRITZ granulator UG – a high-speed, single-shaft machine for fine shredding of pulp and paper rejects – is quite new within our product range. However, it is not a new product and has already been installed hundreds of times in various recycling applications by ANDRITZ MeWa.

Shredding is a core unit operation in any reject treatment system and sets the correct particle size for the subsequent process steps, such as fine metal separation or optical sorting. The challenge is to reduce different input materials – which may be of significant size – to quite small and uniform particles in the range of 40 to 60 mm. In the cutting area of the UG, the material is cut between a massive, high-speed rotor equipped with block knives and a static counter knife.

The UG recently underwent a basic re-design and further technical development. The entire granulator series is now being fitted with a hydraulic pendulum pusher as standard. This feeds the material to the cutter much more efficiently, and there is less risk of disruptions, thus providing even more uniform and higher throughput.

Only recently, a UG granulator was sold to a paper mill in China and will be installed in a large OCC reject line.

Read more about the [ANDRITZ reject equipment](#).

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

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