SEPARATION

MAXIMIZE THROUGHPUT WITH OPTIMAL FEED CONTROL

METRIS addIQ RADAR FEED CONTROLLER FOR PEELER CENTRIFUGE

ANDRITZ

ENGINEERED SUCCESS

Radar feed control lifts performance to new heights

Improve process throughput profoundly with ANDRITZ and one of the best value-for-money radar feed control unitsl available today.

Many process industries deploy the peeler centrifuge as an efficient method to separate liquids from solids. However, the fill level within a peeler centrifuge must be carefully controlled to maximize throughput and efficiency. Filling is determined by the feed controller, a key component that ensures the ideal level is maintained as the solid cake builds up. Choosing the right feed controller can make a huge difference to operations by continually optimizing separation performance.

AVOIDS MECHANICAL WEAR AND TEAR

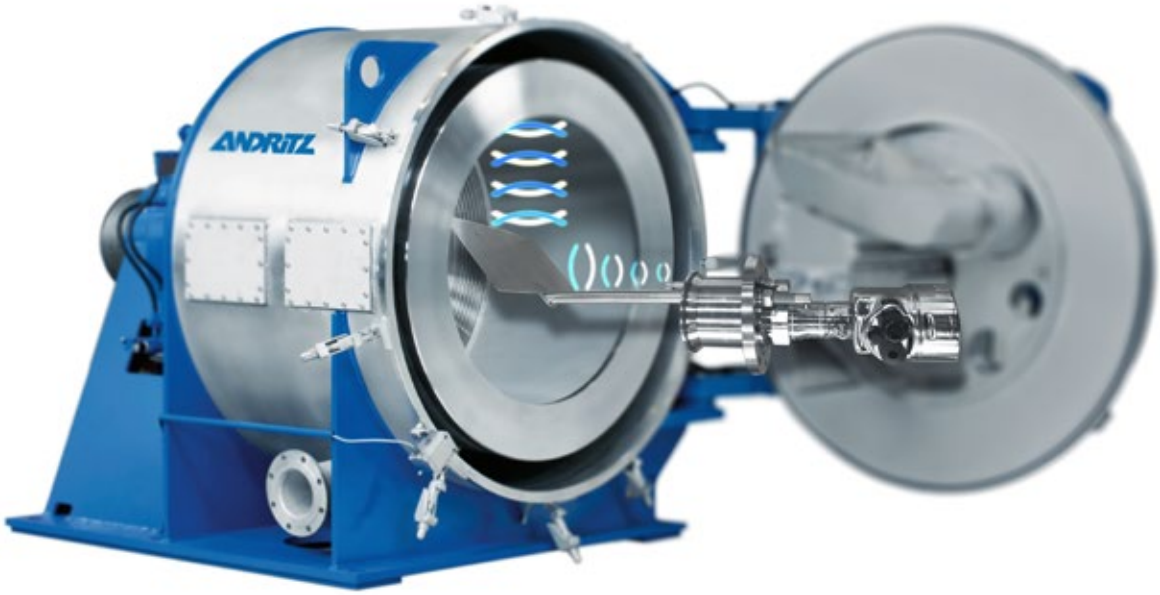
Although the simplest approach to feed control in peeler centrifuge systems is a basic mechanical system, the sealings and bearings being prone to wear and tear are common issues. The use of radar technology instead of a mechanical controller circumvents this issue.

A radar feed controller detects the fill level by emitting extremely rapid microwave pulses. These electromagnetic pulses are directed at the surface of the solution and then bounce back to an appropriate detector. The time taken for this round trip provides a very precise measurement of the actual fill level at that moment. As a solid-state device their reduced complexity makes radar feed controllers inherently more reliable and operationally efficient than their mechanical equivalents. Radar feed controllers can be easily installed as an upgrade or replacement and are suitable for all industries and applications.

ALL STATE-OF-THE-ART FEATURES

A feed controller records the optimal fill level of the centrifuge for each process step. By monitoring and controlling the exact fill level to make sure it always stays within the ideal range, radar feed controllers achieve lower levels of residual moisture and shorter batch times.

With features such as continuous level measurement, submerging point detection and overfill alert, ANDRITZ radar feed controllers support owners to get the very best out of their equipment. An additional highlight is the multi purpose usability for various products.



A radar feed controller detects the fill level by emitting extremely rapid microwave pulses

Realize the benefits of radar feed control

Carefully controlling the fill level during each stage of the solid/liquid separation process, our Metris addIQ radar feed controllers optimize the whole process.

In-built precision enables an increased throughput, representing a significant operational gain for owners and operators. With a highly competitive price point, Metris addIQ radar feed controllers offer real value for money on capital expenditure, but they deliver numerous operational cost benefits too.

MAX THROUGHPUT

Minimized risk of operator error: Process parameters such as time for feeding are adapted automatically to varying product conditions. Metris addIQ radar feed controllers quickly respond to factors such as changing flow rates, particle sizes and shape. Also a self-calibrating function allows multi purpose applications without any delays while product changes. Real-time feed levels are also continuously available on a digital display for easy monitoring at each step of the separation process.

MAX PRODUCT QUALITY

No contact with the product, equals no slurry splashes. Built-in nozzles allow for cleaning-in-place (CIP) of the radar reflector and sensor when required. It also makes the radar approach ideal for quality products where contamination could be a critical issue. Sectors like pharmaceuticals or where good manufacturing practice or regulatory procedures are in place will particularly benefit.

MAX AVAILIBILITY

Elimination of moving parts: With no bearings, dynamic seals or even any physical wear and tear, the device is user friendly and reduces any maintenance costs to a minimum. This low-maintenance design substantially decreases the risk of unplanned downtimes. Robust and designed as a reliable low maintenance system, the ANDRITZ approach also eliminates obsolescence. This is a growing challenge for owners and operators where manufacturers of existing feed controllers may be defunct and spare parts no longer available. As a new product from a top-tier manufacturer, spare parts are widely available.

APPLICABLE FOR VARIOUS TYPES OF PEELER CENTRIFUGES

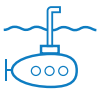
The Metris addIQ radar feed controller is applicable to various types of peeler centrifuge, as a replacement for an older worn-out unit, or as an upgrade or on a new peeler centrifuge. They can be just as easily fitted to any third-party original equipment manufacturer systems as well as all ANDRITZ centrifuges - old and new.

MULTI LEVEL DETECTION

For varying product conditions

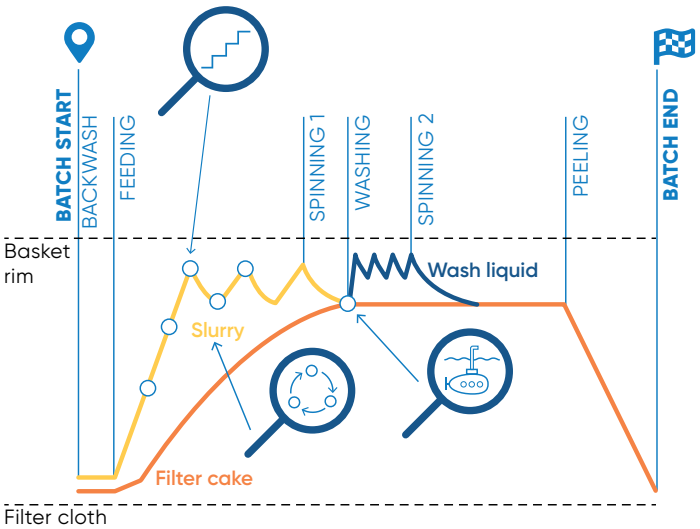
MULTI PURPOSE

For varying atmosphere conditions and product changes



SUBMERGING POINT DETECTION

To reduce time for spinning 1 and optimize wash effect



Operating principle of feed control in a peeler centrifuge

Metris
ANDRITZ Digital Solutions

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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