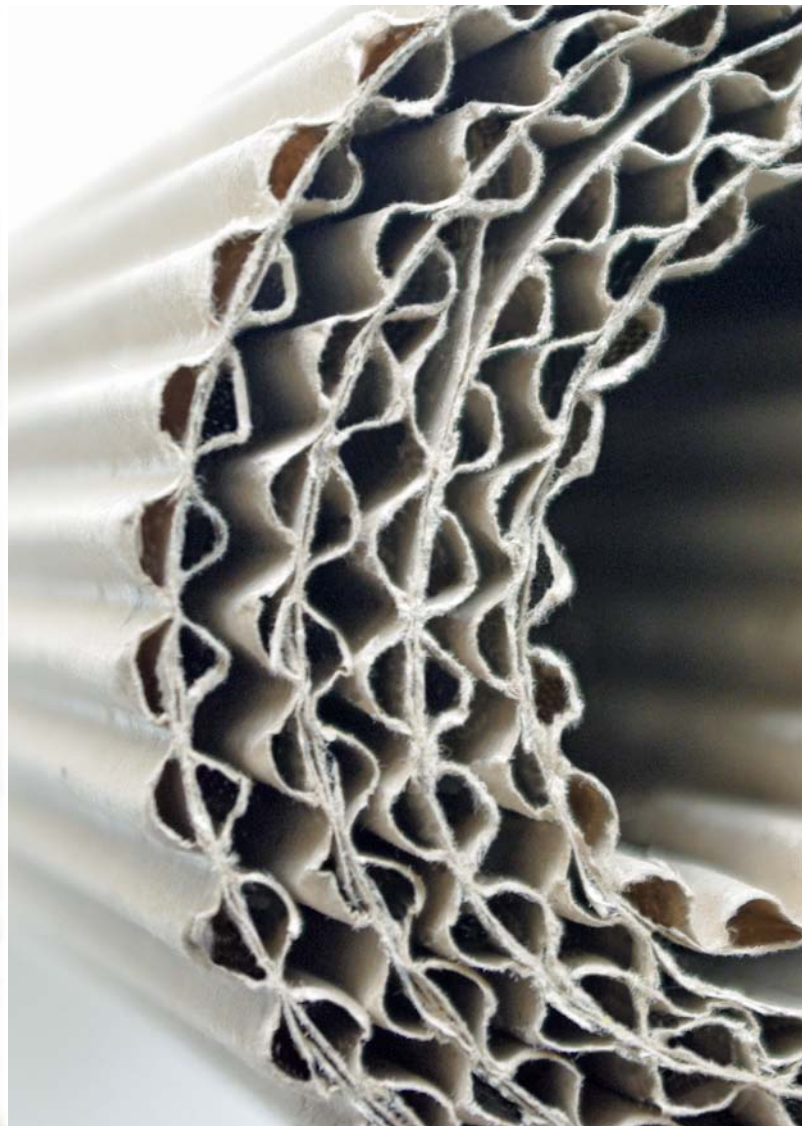


RCF Packaging

Recycled fiber lines for packaging paper



The challenge:

High-quality packaging paper from recycled fiber

In the production of paper from recycled fibers, a shift is becoming evident in demands and requirements. This is particularly true in the production of packaging paper, which is regarded as one of the growth areas in the global paper industry.

ANDRITZ is one of the leading suppliers of complete systems for processing recycled paper – OCC (old corrugated containers) and deinked pulp – as a valuable raw material for all kinds of packaging paper applications. The requirements of the final product depend very much on the prevailing market conditions. Furthermore, the quality of the recovered paper available has a considerable influence on the configuration of the RCF (recycled fiber) plant. For cheaper raw material mixes, there are also technical and process solutions available today that can use highly contaminated, low-grade furnishes without this having any detrimental effect on the final paper quality.

The ANDRITZ RCF Packaging systems comprise all of the equipment required – from pulping to storage, including sludge and reject treatment.

Technological challenges

- Equipment and process must be designed for minimum fiber loss
- No adverse effect on final pulp quality as a result of increasing contaminant loads and lower fiber quality in the incoming waste paper
- Reduction in paper weight and increase in paper strength
- Efficient separation and reuse of waste paper contaminants

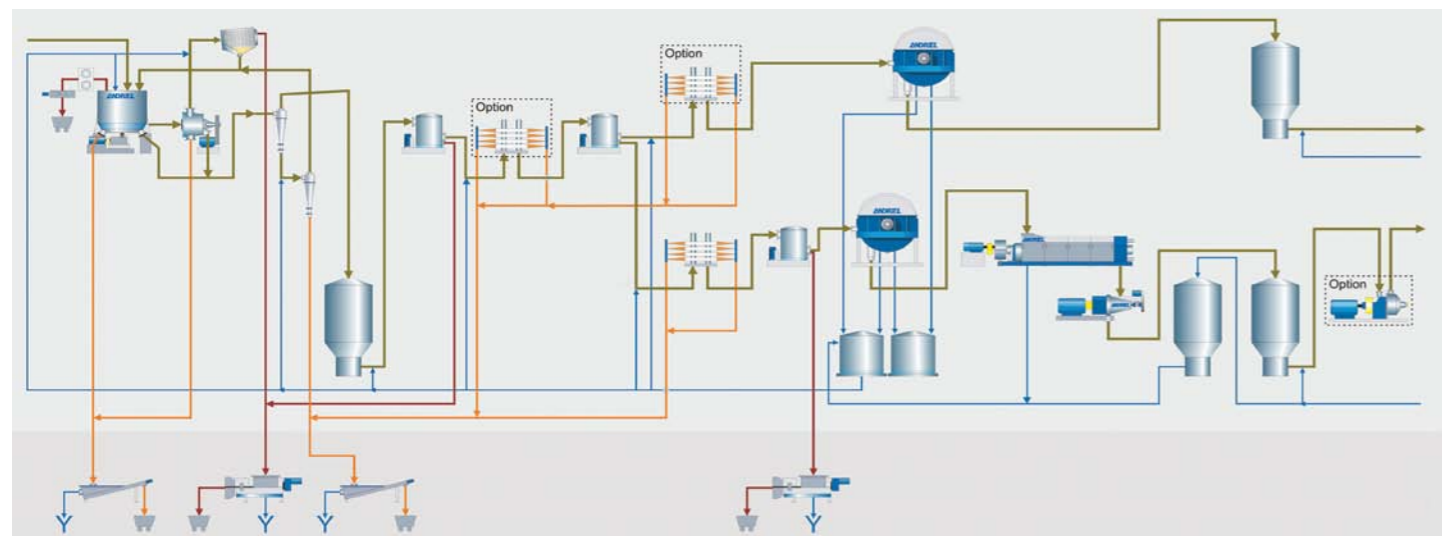
RCF Packaging solutions

- Innovative systems offering conservation of resources and generating excellent stock qualities
- High availability of the equipment, resulting in lower operating and maintenance costs
- Best paper quality, while maintaining fiber strength properties throughout the process
- Smart concepts to keep fiber loss to a minimum
- Process competency from engineering to start-up by a strong and dedicated team
- Modern reject handling solutions

Overview of typical furnish and paper/board products

Furnish	Paper grade
OCC	Liner board
Mixed waste	Corrugated medium
Liquid packaging board	Cardboard
Mixed office waste	Folding boxboard
Magazines	Duplex board

Example of an RCF Packaging system for testliner



The solution:

Recycled fiber lines for all packaging grades



FibreSolve FSR LC pulper

- Lowest power consumption and best disintegration of the recovered paper



FibreFlow drum FFD pulper

- Gentle pulping concept with efficient removal of coarse contaminants with minimum fiber loss



ModuScreen screen family

- Economic screens with innovative basket/rotor options for maximum elimination of dirt and stickies



AhiCleaner high-density, light-weight and throughflow cleaners

- Efficient removal of contaminants, from coarse particles to small debris



CompaDis CDI disperser

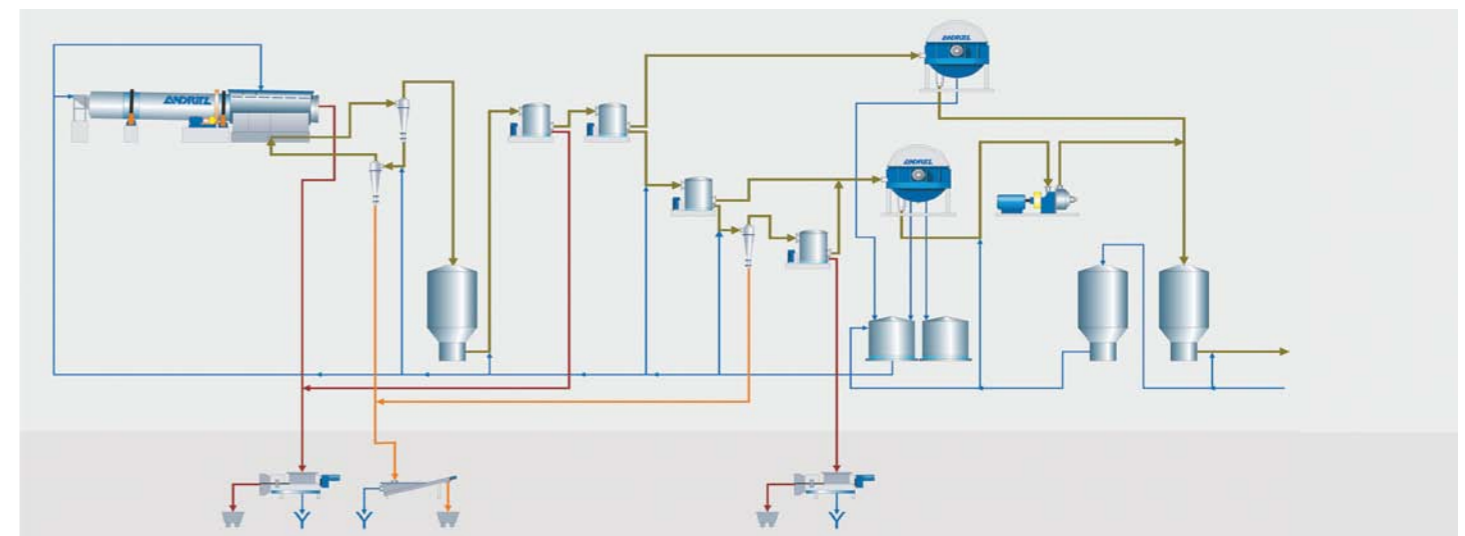
- Reduced specific power input and improved development of strength properties

Benefits

- Process competence based on:
 - Globally standardized technology
 - Pilot plant and pulp testing laboratory
 - Skilled and experienced team
- High availability of key equipment:
 - Less maintenance
 - Fewer spare parts
- Energy savings due to:
 - Optimized designs
- Best paper quality through:
 - Cleaner pulp and better strength properties
- Low fiber loss due to:
 - Advanced technologies in fiber and debris separation



Example of an RCF Packaging system for corrugated medium



RCF Packaging

Extensive equipment and process know-how

Integrated rejects handling

The reject handling system ensures in-line collection and processing of all rejects accumulating at the respective discharge points. Major individual operations, such as shredding, metal and heavy particle separation, compacting, drying, and either pelleting and combustion or gasification can be combined according to the customers' needs. ANDRITZ's extensive know-how in the field of recycled fiber processing and rejects treatment helps close the recycling loops and conserve natural resources.

Engineering competence

The ANDRITZ approach is a holistic one: only by knowing what is needed will we be able to offer the best solutions according to our customers' requirements. ANDRITZ's in-depth process know-how is complemented by a broad range of engineering services, from basic/detail plant engineering, 3D planning, to electrical and control engineering, DCS programming, and factory acceptance tests. Additional project support packages range from basic project management to erection work supervision, start-up and commissioning, to complete turnkey responsibilities.



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