



PULP & PAPER

SelectaFlot DEINKING FLOTATION

**HIGHEST BRIGHTNESS
AT LOWEST FIBER LOSS**

ANDRITZ

ENGINEERED SUCCESS

Highest brightness at lowest fiber loss

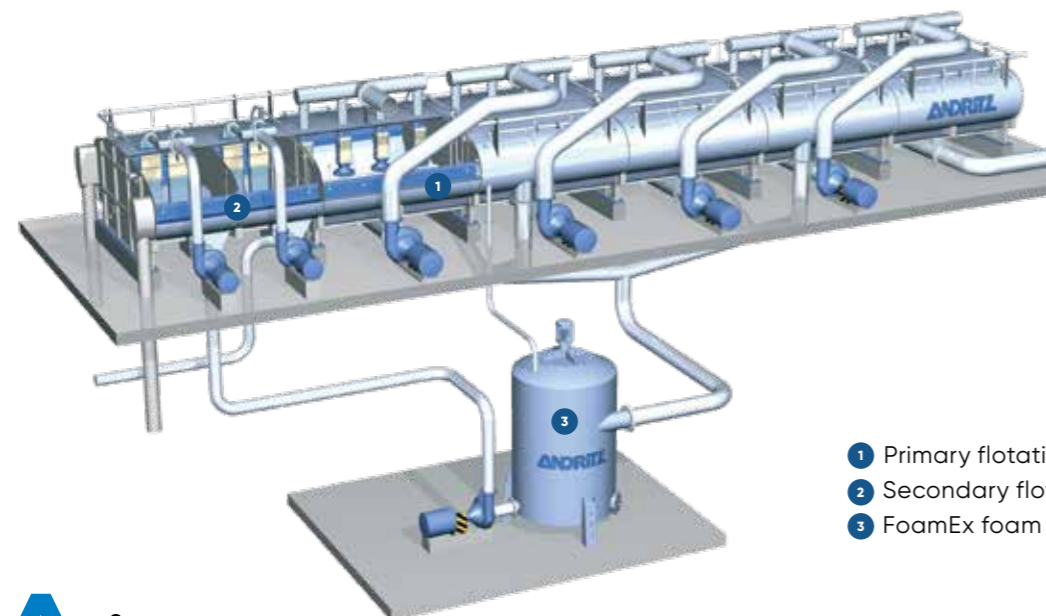
Efficient deinking is primarily about two things: how to maximize brightness while minimizing the loss of fibers. SelectaFlot does both.

SUPERIOR DESIGN OF INJECTORS AND FLOTATION CELLS

The pulp suspension is pumped through the multi-injectors into the flotation cells. These newly developed multi-injectors of the next generation minimize the pressure drop in the injector, hence reducing the energy demand. Inside the patented injectors, the pressure energy is used to suck air into the feed stock. The right amount of air, together with the optimized injector geometry lead to optimum bubble size distribution – the key to excellent deinking performance. Superior flow conditions inside the cell enable best results in dirt speck removal and increased brightness at lowest fiber loss.

EFFICIENT FOAM BREAKING

The foam generated in the primary cells is collected in the foam trays and discharged into the foam tank. The FoamEx foam breaker is located on top of the foam tank and destroys the foam mechanically by creating a partial vacuum through rotation of the conically shaped rotor. The liquefied foam, which is heavily loaded with ink and dirt, is discharged at the top of the cone. The FoamEx offers robust operation with the lowest energy consumption on the market.



- 1 Primary flotation cell
- 2 Secondary flotation cell
- 3 FoamEx foam breaker

FLOTATION OF DE-AERATED SUSPENSION

In the secondary stage, the design of the multi-injectors differ significantly from that of the primary cells in order to account for the higher ash content as well as higher ink and dirt concentrations.

INSPECTION AND MAINTENANCE-FRIENDLY CONSTRUCTION

SelectaFlot flotation combines both primary and secondary flotation in one compact unit, resulting in advantages for inspection and maintenance. In order to save floor space, different configurations and cell arrangements are available, such as double-decker or piggy-back.

SIMPLE AND STABLE CONTROL CONCEPT

The output from the flotation system is controlled by the level in the foam tank, which provides the most accurate and reliable measurements. A constant level of de-aerated liquid eliminates the risk of malfunctions by the level transmitter. Precise control of the feed flows to the flotation cells and the accept flow from the secondary stage allows stable operation without any undesirable variations in performance.

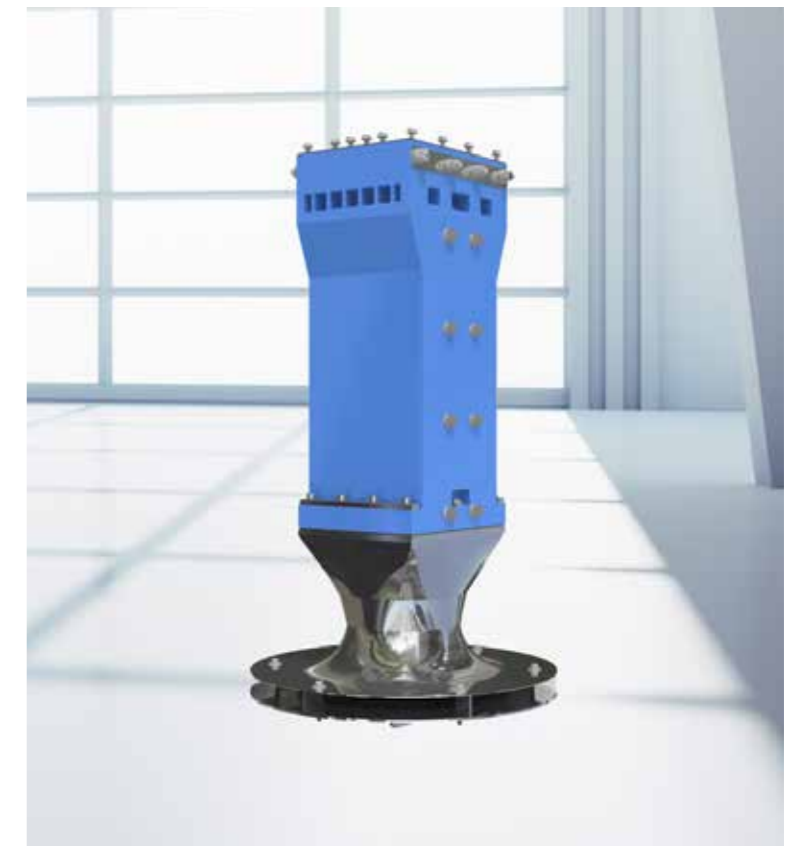


SelectaFlot flotation inline arrangement

BENEFITS

- Maximum improvement in optical pulp qualities (brightness, dirt)
- Broad application range for different raw materials allows for production flexibility
- Simple and stable process control minimizes variations in final pulp quality
- Minimum expenses for operation and maintenance
- Flexible layout, configurations can be adapted to any mill layout
- High reject consistency saves on dewatering and disposal costs

The ANDRITZ SelectaFlot flotation is available in eight sizes, featuring capacities up to 985 t/d.



Newly developed multi-injectors design for a primary flotation cell



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An outstanding paper product requires outstanding production – matched with the particular needs of raw material and final product. Discover the full-range portfolio from ANDRITZ: Excellent stock preparation that allows best fiber development according to furnish and with economical use of resources. *PrimeLine* paper machines that are a synonym for producing top-quality tissue, paper, and board grades. Complete lines or single units, upgrades, and modernizations. Contact us and benefit from your individual package in papermaking technology.

AUSTRIA

ANDRITZ AG, Graz
p.: +43 316 6902 0

ANDRITZ AG, Vienna
p.: +43 508 055

ANDRITZ AG, St.Pölten
p.: +43 508 052 1754

GERMANY

ANDRITZ Küsters GmbH
p: +49 2151 340

ITALY

ANDRITZ Como S.r.L.
p: +39 031 396332

ANDRITZ Novimpianti S.r.L.
p: +39 0583 30219

FINLAND

ANDRITZ OY
p:+358 0 20 450 5555

RUSSIA

LCC ANDRITZ
p: +7 812 315 0863

CHINA

ANDRITZ (CHINA) Ltd., Foshan
p: +86 757 8250 2636

ANDRITZ (CHINA) Ltd., Beijing
p: +86 10 8526 2720

JAPAN

ANDRITZ K.K.
p: +81 3 3536 9700

INDIA

ANDRITZ Technologies PVT Ltd.
p: +91 11 4937 2900

BRAZIL

ANDRITZ Brasil Ltda.
p: +55 41 2103 7601

CANADA

ANDRITZ Ltd.
p: +1 514 833 5079

ANDRITZ Paper Machinery Ltd.
p: +1 514 631 7900

USA

ANDRITZ Inc., Glens Falls
p: +1 518 683 5793

ANDRITZ Inc., Springfield
p: +1 413 733 6603

ANDRITZ Paper Machinery Ltd.
p: +1 815 389 8200

FIBER.PREP@ANDRITZ.COM
ANDRITZ.COM/STOCKPREPARATION

ANDRITZ

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