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 patentied 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.

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.

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.

1. Primary flotation cell
2. Secondary flotation cell
3. FoamEx foam breaker
4. Newly developed multi-injectors design for a primary flotation cell
FROM FIBER PROCESSING TO PAPERMAKING
DISCOVER OUR FULL-RANGE PORTFOLIO

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.

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