

SelectaFlot

Deinking flotation



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Highest brightness at lowest fiber loss

Fulfilling your requirements

Efficient deinking is primarily about two things: how to increase the brightness as much as possible and at the same time keep as many fibers as possible. SelectaFlot does both.

SelectaFlot – core of deinking systems

The SelectaFlot deinking cell is the result of decades of system and component experience and is based on the sound knowledge of technology and operating experience.

Multi-injector and flotation cells

The pulp suspension is pumped through the multi-injectors into the flotation cells.

Inside the patented injector, the pressure energy is used to suck air into the feed stock. The right amount of air, as well as the optimized injector geometry, leads to an optimal bubble size distribution, which is the key to the excellent performance of the cell. Together with the optimized geometry for the flow conditions inside the cell, the SelectaFlot cell delivers the maximum dirt speck removal and optimum brightness increase with the lowest fiber loss.

The position of the multi-Injectors in the center of the cells and the foam weirs on both sides assure a symmetric flow pattern without turbulent or dead zones. Such smooth and stable conditions are essential to achieve an optimum flotation result.

FoamEx

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. It destroys the foam mechanically by creating a partial vacuum through the rotation of the conically shaped rotor. The liquefied foam, which is heavily loaded with ink and dirt, can be discharged at the top of the cone.

Secondary stage

The de-aerated suspension is pumped to the secondary stage. The design of the Multi-Injectors in the secondary cells differs significantly from that of the primary cells in order to account for the higher ash content as well as higher ink and dirt concentration.

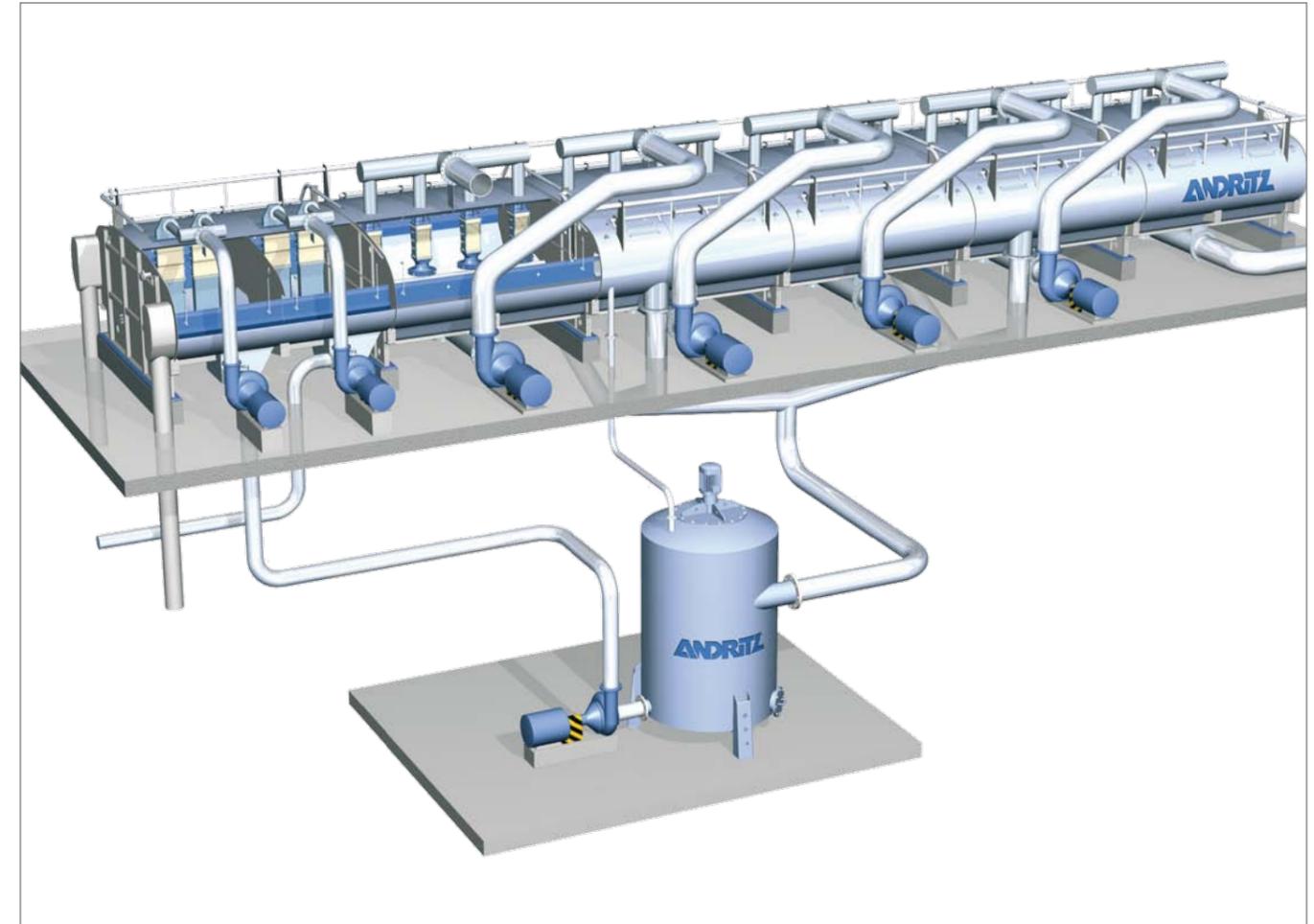
Inspection and maintenance friendly construction

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

Simple and stable control concept

The production of the flotation system is controlled from the level in the foam tank, which provides the most accurate and reliable measurement. Here a constant level of de-aerated liquid avoids any malfunction of the level transmitter, which is a common problem when measuring typical air-laden foam in other flotation cells. Because of the accurate control of the feed flows to the primary and secondary cells, and the accept flow of the secondary stage, the flotation system operates without any undesirable variations in performance.

▼ Flotation system in line arrangement



▼ FoamEx



▼ Patented multi-injector



Benefits

- Maximum improvement in optical pulp qualities (brightness, dirt)
- Low energy consumption saves operating costs
- 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
- Available in different sizes for a wide production capacity range

SelectaFlot

The brightest idea in deinking



SelectaFlot	SFL0D	SFL1D	SFL2D	SFL3D	SFL4D	SFL5D	SFL6D	SFL7D	SFL8D	SFL9D	SFL10D
Inst. power per primary cell [kW]	18.5	37	55	75	110	110	132	160	200	250	250
Inst. power per primary cell [HP]	25	50	75	100	150	150	200	250	300	350	350
Inst. power per secondary cell [kW]	7.5	11	18.5	18.5	30	30	37	45	55	75	75
Inst. power per secondary cell [HP]	10	15	25	25	40	40	50	60	75	100	100
Length* [mm]	6,000	12,000	18,000	24,000	24,000	30,000	36,000	42,000	48,000	54,000	60,000
Length* [inch]	236	472	709	945	945	1,181	1,417	1,654	1,900	2,126	2,362
Width (excl. pumps & gangways) [mm]	4,500	4,500	4,500	4,500	5,460	5,460	5,460	5,460	5,460	5,460	5,460
Width (excl. pumps & gangways) [inch]	177	177	177	177	215	215	215	215	215	215	215
Height** [mm]	6,400	6,450	6,630	6,820	7,220	7,500	7,750	7,900	8,050	8,350	8,400
Height** [inch]	252	254	261	269	284	295	305	311	317	329	331

All data for information only. / *Values are based on a typical configuration of 5 primary and 2 secondary cells. / **Values are based on a typical double-decker configuration.

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