

DE-INKING CELL

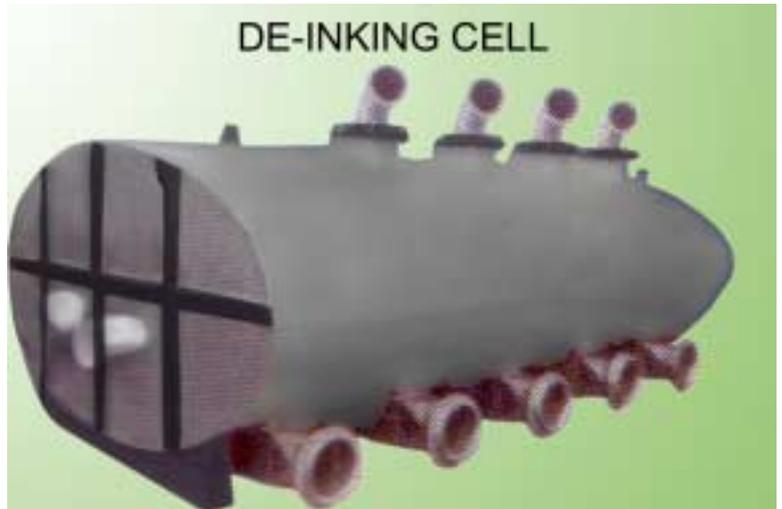
DE-INKING CELL is used to remove the printing inks and other substances like stickies that might affect the paper making process or the final properties of the paper. Flotation technology with high efficiency provides high yield of fibers and simple handling with maximum operating reliability.

Operating Principle:

The floatation Deinking Sytem comprises of series of Primary Cells and Secondary Cells fitted with injector nozzles through which stock is passed.

Flow through nozzles generates vacuum, which sucks the air into the injector. The injector allows mixing of Air to Pulp and results in micro turbulence that generate wide range of air bubble sizes. The injectors optimize the quantity of the air injected and the size of the bubbles generated.

The pulp stock freed from ink is pumped from the bottom of one cell to next cell. Printing inks, stickies etc which are hydrophobic in nature get adhere to these air bubbles and make foam layer which is then separated and collected in a separate foam tank. The collected foam is again treated in Secondary cell for maximum yield.



Salient Features:

- The cell floatation system consists of two stages i.e Primary and Secondary stages.
- Flotation process is operated in a continuous mode and helps to remove ink particles efficiently.
- The primary flotation stage ensures highest possible stock purity and the secondary stage optimize flotation yield without any loss of brightness and cleanliness.
- Ensures efficient removal of printing ink, stickies to improve the quality of paper.
- Single level control loop operation and high reliability.
- Due to two-stage system, the goal of maximum ink removal & maximum yield are reached optimally.
- Very low fiber loss in the de-inking process as the foam is treated in a cascade process.
- High percentage of ash in reject resulting on low fiber losses.
- Highest possible degree of brightness is achieved.
- Improved optical cleanliness in a recovered paper stock.
- Exceptional improvement in screening efficiency.
- No sizing restrictions.

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