

3F SCREEN

3F Screen is used for removal of flat, narrow and long foreign matters (Heavies) and lightweight contaminants i.e. corks, plastic pieces. It is most suitable for primary Screening after the pulpers.

Operating Principle:

The stock entering under high pressure is exposed to impact and shear forces caused by the impeller/ Bed bar for defibration and goes upward through perforated extraction plate, while foreign matters down into the tail cyclone for removal. Bed bar is used to breaking the stock & acts upon the change of flow from rectified to trubulent to minimize the flake contents. High pressure back water pump takes water from Thickener tank & clarified water is fed to tail cyclone making pulp consistency low and also in main unit to increase turbulence. The heavies rejected in tail cyclone settle in the junk tank for intermittent manual removal. The stock flowing in the settling tank together with the heavies goes upwards to get through the floating stock outlet at the top of tank and enters the circulation pipe linked to the control part of the main unit.



Salient Features:

- Rigid & heavy construction.
- Used just after the pulper for Primary screening.
- Screening by size or shape of foreign matters and by gravity.
- Middle Body consist one no. Stock inlet for tangential feeding of the stock.
- Bearing body, Rotor and Perforated extraction plate is fitted in the upper body.
- Rotating Impeller is used to accelerate tangential feeding of the stock.
- Tailored to different uses by selection of optimum speed.
- Easy to Install with low maintenance.
- Available in various consistency (0.5-3%).

Technical Specifications:

Consistency (%)	0.5	1.0	1.5	2.0	2.5	3.0
Hole Perforation (in mm)	1.2	1.5 - 1.2	2 - 1.5	2.5 - 2.0	3 - 2.5	5 - 3
Slot Perforation (in mm)	1.15 - 0.1	0.3 - 0.15	0.4 - 0.3	0.7 - 0.4	1.0 - 0.7	1.5 - 1.0

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