

# >> THE SIMPATIC

## ON LINE DIRT ANALYZER APPLICATION PULP SAVING BY REDUCING CLEANING SYSTEMS REJECTS



Pulp is divided in two categories when going through the cleaning process: accepted pulp (accepts) and rejection pulp (rejects). This pulp splitting even occurs if pulp is clean to begin with: therefore, a portion is always considered as rejects and as such will be discarded. In a one year time-frame the quantity of lost fiber represented by this practice is in the hundreds of tons! However, under typical operating practices it would be difficult to avoid this inefficient reject practice.

### Techpap Has a Solution: The SIMPATIC

**The Simpatic makes it possible to optimize the process, saving pulp and money.**

By locating a Simpatic on the rejects of a cleaning system such as screens or conic cleaners, the pulp can be continuously monitored by image analysis. The Simpatic will count the amount of impurities as well as their area and class size distribution. When impurities are identified above a certain threshold, pulp can be considered rejects and diverted, otherwise, all pulp is considered acceptable. By doing this a valve system is introduced into the process by the Simpatic. Acceptable pulp is sent on to the PM and rejects are diverted to be discarded or reprocessed.

The following is an example for broke pulp screening.

*Simpatic installed in a mill in Poland*



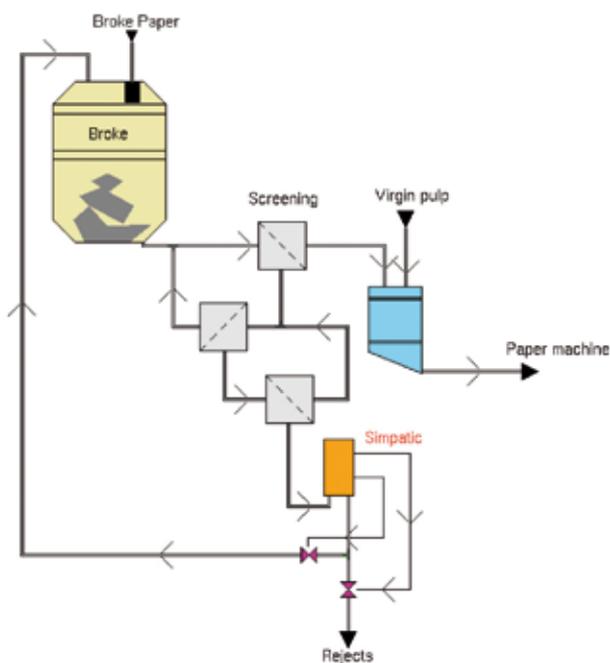
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## EXAMPLE OF SAVINGS FOR A PAPER MACHINE, WITH PRODUCTION OF 180 T/DAY:



*Broke pulp screening circuit*

**Consistency:** 1%

**Cleaning system:** slot screens – 3 steps

**Rejects:** 250 dry t/year (~2,8 m<sup>3</sup>/h)

With Simpatic analysis, it was observed that 70% of the reject pulp was clean and should not have been considered as reject (70% $\times$ 250=175 t/year of clean pulp is lost). The market price at the time was around 500/t so an annual savings of 87500 was realized (175 $\times$ 500).

BY IMPLEMENTING A SIMPATIC, THE MILL WAS ABLE TO SAVE 175 TPY OF PULP RESULTING IN A ROI OF ONLY 7 MONTHS.

**Simply put the Simpatic is worth the investment!**

- » 120 Worldwide References
- » 15 years of experience
- » Well constructed with low maintenance
- » Quick return on investment