

EFFICIENCY THROUGH COMPACT WET END

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ABSTRACT

During the years POM Technology has made remarkable product and process solution development work in order to obtain the most efficient wet end system for the paper making process. POM System stabilizes wet end operations, and provides close and fast-acting control during grade changes and start-ups. It employs short flow paths, to ensure the rapid return of material flows back to the process, and degasification, to assure system stability and cleanliness.

The POM System is stable and clean process with fast response. The heart of the system is the POMp Degasser which constitutes a simple and compact package for removing air entrained in the white water. The POM System has been adapted to various paper grades and paper machine types and sizes. Several POM installations have been successfully implemented also in specialty papers décor paper and coloured specialty papers with multiple grade changes.

The POM System results in lower investment and operational costs. The time efficiency of the paper machine improves remarkably same time as 25 to 30% energy demand and ~ 50% wet end chemical demand decreases. Further cost reductions have been possible through fresh water and material savings, thanks to hierarchical water distribution and clean system.