

# Cost-Efficient Center Roll-Based Press Section to Boost Efficiency

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## **ABSTRACT**

According to recent studies, the Indian paper industry is poised to grow from 7.2 million tonnes in 2005-06 to 13.95 million tonnes in 2015-2016. The demand for paper in India is witnessing a healthy growth of 7% to 8 %, compared to 5% in the past, and there is huge potential for more.

Machine manufacturers need to provide solutions that meet the specific requirements of the Indian pulp and paper industry. Volume grades are the largest market but an attractive market is offered by high-quality printing and writing paper production. New machinery and well-engineered rebuilds are providing the Indian paper and producers with better opportunities to succeed in the growing domestic market and to get payback from the investment. Additionally, it gives the opportunity to participate in the global market.

The key variables of an efficient rebuild are investment costs, operating costs, production tonnage and production efficiency. These are also the main arguments for considering a press section rebuild by replacing a conventional roll press with a shoe press. A new center roll-based press concept has been developed with no cantilevering. This press concept is equipped with a shoe press for good runnability and high dry content. A shoe press will increase dryness after the press section by 5 to 8 % compared to a conventional roll press. The design of the new press concept is cost-efficient and robust, without compromising safety aspects. In addition to the lower investment costs involved, the robust design of the new center roll-based press section also produces remarkable construction cost savings thanks to the reduced need for foundation work.

This paper will present the new press design, which is applicable to paper and containerboard grades. An overview of closed draw press concept is also given.