



The new paper production line at Daio Paper in Japan.

Mishima PM-N10 at Daio Paper in Japan

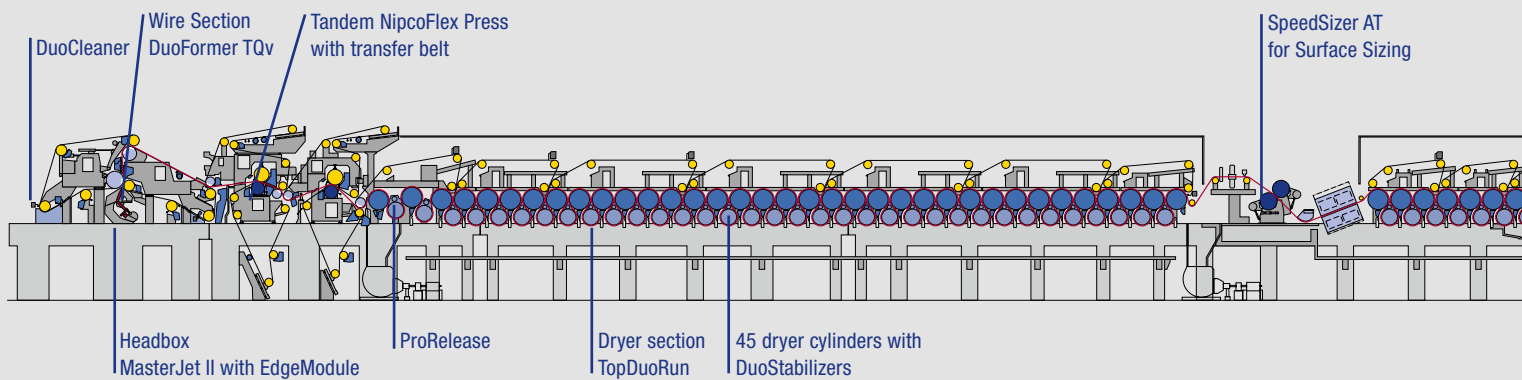
New paper machine from a single source

Daio Paper Corporation started in the summer last year the new production line Mishima PM-N10 in Shikoku Chuo City in the Ehime Prefecture on Shikoku Island. This order was the first installation of a complete new paper production line out of one hand in Japan.

Daio Paper's PM-N10 "on-machine-coater" is a high-speed machine with online coating and online calendaring for lightweight coated papers. All production aspects incorporate leading-edge technology from Voith

Paper and Voith IHI Paper Technology. The Mishima PM-N10 will be run with a crew of only 9 persons compared to a coated paper production line with a crew of 16 people for example on Daio Paper PM 8 with

the C3-OMC and Super Calender. That means the labor costs at full production will be reduced by 50%. The PM 8 producing 730 tons/day compared to PM-N10 producing 800 tons/day.



Layout Mishima PM-N10.

Project milestones

- Ground breaking ceremony – The official ground-breaking ceremony was in June 2006.
- Building – The building was closed and ready for the start of installation of the sole plates for the paper machine in January 2007
- End of mechanical installation with start of commissioning commenced beginning of June 2007
- Start Up – The first roll of paper was produced on August 5, 2007 at a start up speed of 1,452 m/min with a basis weight of 58 g/m².

Delivery, installation and start up of this new line was possible in record time because the responsibility for the whole paper machine including the reel and the main interfaces came out of one hand. The peripheral machine items installed by Daio Paper were also monitored through Voith Paper. Success factors in this project were the close cooperation with Daio Paper, where the long lasting cooperation and relation between the Voith Paper divisions and Voith IHI Paper Technology in Japan was a decisive advantage.

Daio Paper

Daio Paper produces the full range of papers, from newsprint, coated papers, tissue papers to paperboard as well as paper-processed products such as corrugated cardboard and sanitary products, is active in the timber and forestry industries and has its own fleet for the shipment of their raw materials and goods from and to the different locations worldwide.

The company owns three paper mills with an annual capacity of approx. 3.2 Mio. tons of paper with approx. 2,700 employees and operates today more than 40 subsidiary companies.

Contact



Ryozo Shimizu
Voith IHI Paper Technology
ryoza.shimizu@voithihi.com



Ewald Budweiser
Paper Machines Graphic
ewald.budweiser@voith.com

Customer Comment

Akira Nomura
General Manager Papermaking
Department

“Our N10 machine can be utilized in two ways, as film- and as blade coated, this unique on-machine-coater is also equipped with an on-line Janus calender. Through trials at the Voith pilot machine, intensive discussions with us regarding the machine layout and considering all technical details in the specification, this machine reached a high level of perfection and is now running in stable operation.

Automation is highly advanced and is superior in monitoring operation data, quality data as well as in reproducibility. The product quality obtained high evaluations from our end users especially regarding stiffness and printability. As it was our expectation, we are very satisfied with N10 machine's smooth operation.”

