



*The 1st tambour was wounded
on 30 March, 2007*

Yuen Foong Yu has China's first PerfectFit paper machine

YFY steps up Chinese testliner production

Are you looking for environment-friendly containers for French fries, solid board for children's books, or wedding cards with the sheen of mother-of-pearl? Or how about some tissue or testliner? Whatever is required, one can count on YFY Paper, which with a new paper machine, is now providing the Asian market with 280,000 t of packaging papers yearly.

Yuen Foong Yu Paper Manufacturing Co. Ltd. in Taiwan is a very versatile paper maker. Founded in 1926, the company can look back on a long tradition of paper production in Taiwan, China and Vietnam. YFY entered the

paper business as early as the end of 1930's and was the first company to start paper R&D in greater China. In the meantime, it has three business units comprised of fine paper & board, household papers and industrial

The paper mill of Yuen Foong Yu Paper Manufacturing Co. Ltd. in Yangzhou, province Jiangsu, China



papers. As a consequence, the company offers a huge product range. Today, YFY is the largest producer of testliner and fluting in Taiwan and operates a total of 17 different paper mills.

In addition, another two paper mills from a joint venture with the Vietnamese government are scheduled to join the group in the near future.

High quality on 3-plys

YFY's newest paper machine started production in the Chinese province of Jiangsu at the end of March 2007. The PM 2 mostly produces high quality testliner in the basis weight range of 125-280 g/m². Furthermore, the product portfolio includes lightweight corrugating medium grades and kraft liner.

As is frequently the case with high quality testliner machines, the design of the PM 2 includes three fourdrinier wires for the maximum utilization of fiber potential. The paper machine has a wire width of 5,360 mm and has been designed for a maximum production capacity of 900 t/d. The design speed is 800 m/min.

In the press section, two stand-alone presses guarantee the highest dryness levels at maximum bulk. The configuration consists of a jumbo roll press in the first position and a Nipco-Flex shoe press in the second. This combination not only ensures efficient drainage, but also minimum volume reduction.

The entire pre-dryer section and after-dryer section are of double-tier design. The only exception is the first group, which is single-tier. Voith Paper had the objective of combining the most effective drying with the best possible runnability.

A SpeedSizer unit provides uniform film application and the machine concept is rounded off by an EcoCal calender and a MasterReel. Parent rolls of up to 3 m diameter can be wound without quality losses.

In form for the future with PerfectFit

The PerfectFit concept played a major role throughout the PM 2 project. The central idea behind this concept is the definition of the "nice to haves" and essential equipment.



Wet end and beginning of the press section before ...

... and four months later



A comparison with cars provides an excellent analogy. Trips in cities on asphalted roads do not demand a four-wheel drive pick-up with a cow catcher, a winch and three extra pairs of lights on the roof. Conversely, in heavy urban traffic, air conditioning, a navigation system and parking sensors are more important. The same logic applies in the case of paper machines designed according to the PerfectFit concept.

An intelligent configuration, i.e. not everything was selected that would have been possible, was determined on the basis of a long checklist. This was prepared in conjunction with the customer and made no compromises with regard to performance and quality. The customer objective of making sure that the PM 2 could match future needs took center stage in this equipment selection and for example, the MasterJet II F/B headbox on the back ply can be upgraded with a Module-Jet dilution control system.

Another example is provided by the SpeedSizer, which is currently used for single-sided starch application, but can also be simply adapted for double-sided application.

In addition to fundamental decisions, the PerfectFit checklist also contained detail questions. One of the decisions was e.g. if the combination of a jumbo roll press and single shoe press would suffice – meaning that a tandem shoe press was not required. The response in the case of the YFY PM 2 was positive. Moreover, the need for the oscillation for every single shower was also discussed.

No compromises with regard to performance

The omission of some components in the case of the PM 2 clearly did not mean sacrificing the best possible runnability. For example, Fibron conveyors were chosen for the tail transfer instead of the usual ropes.

Chia-Feng Yeh, the customer's project engineering manager, is very happy with the results, "The PM 2 is a good machine with good engineering."

YFY has already been running its entire product range and has reached the planned maximum production capacity. This status was attained just five months after start-up. The quality of paper is stable and the mostly Chinese end users are also satisfied.

Contact



Franz Fischer
Paper Machines
Board and Packaging
f.fischer@voith.com