

AirBond reduces Double Backer motor amp requirements and eliminates edge crush, minimising belt wear by only applying pressure with regards to the running paper width. Installed over a single weekend on new and old corrugators, belted and beltless corrugators, AirBond provides a robust, efficient and cost effective solution with quick paybacks and reduced operating and maintenance costs.

Other complimentary JKSP products include the Contact Bar that replaces the conventional Rider Roll configuration on the glue machine and the JKSP RollerBond system installed in the entry of the Double Backer to provide effective paper contact and bonding in the crucial entry nip point, preventing poor contact and any potential for 'double kiss' issues.

www.jkspservices.com

Global Acceptance

More and more corrugators are focussed on the production of smaller flute types (E, F and even smaller) as the market is demanding lighter board grades with perfectly printable surfaces for their packaging. With these small flute dimensions, the heat and steam cannot be dissipated easily, as the steam can not run through the small channels of these flutes and lots of changes need to be adopted in the machine condition in order to manufacture good quality board. One of the major elements is the need to reduce the heat in the board, in order to eliminate the formation of any steam pressure inside the flute that often contributes to board delamination or blisters. Furthermore, machine manufacturers have asked to have a belt as permeable as possible and capable of running as cold as possible. The most practical and efficient answer to this request was a fabric made with monofilament spirals that is 'open' and capable



of eliminating heat and steam easily, retaining, at the same time a good dimensional stability: Feltri Marone calls its product Spirabelt.

The first tests made back in 2000 indicated that it was necessary to find materials capable of resisting the demanding conditions of a fast running corrugator and special monofilaments were therefore produced to fit these conditions. The Spirabelt corrugating belt is covered by a worldwide patent and is today used in an increasing number of machines.

The company says some of the advantages that a production manager should experience by using a Spirabelt corrugator belt include:

- The board produced is perfectly flat, dryer and ready to be converted immediately;
- The energy used for driving the main motor can be reduced by as much as 50% compared to traditional belts;
- It requires much lower temperatures of the hot plates as the board dries much earlier in the hot section, thus requiring less steam;
- Thanks to a dryer board at the end of the dry-end, no delamination

occurs at the cut off knife;

- It has a wide range of applications, from light single wall board to heavy triple wall board. Also difficult papers, such as highly impermeable grades and coated papers will benefit;
- It does not have a seam, thus eliminating the problems normally associated with seams in a belt, such as marking, seam failure and static arching;
- It remains perfectly clean and permeable all the time, as starch accumulations will simply not stick to its surface. Therefore, there is no need to clean it on a regular basis, saving maintenance costs and time;
- It is much lighter in weight, facilitating a much easier installation procedure;
- It has a perfect dimensional stability and therefore will not tend to shrink or stretch during its working life and will run perfectly straight;
- If run properly, the life expectancy can be even longer than a traditional belt and as much as 160 millions linear meters of production have been recorded. Currently, there are some 750 Spirabelts that have been installed on various machines worldwide and the number of enthusiastic users continues to grow. The results can be demonstrated by the countless references already accumulated. Feltri Marone is investing to increase its production capacity to satisfy the increasing demand from customers all over the world.

www.feltrimarone.it

Double Backer Portfolio

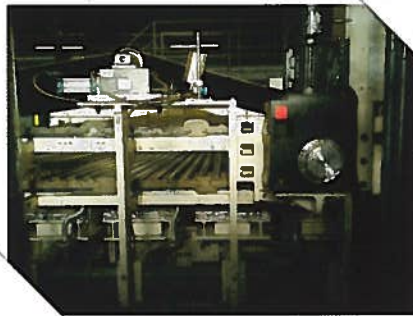
Corr24, the service provider for existing mixed corrugators, has introduced its newest upgrade for any style of Double Backer. This high-quality loading system combines shoes and rollers linked to a chain system, to roll on and off the heating section



and regulate the pressure according to speed and board quality. With this configuration it is assured that there will be a reliable bonding as well as moisture removal - and at the same time, an equal temperature profile is generated for flat board. Due to the individual settings, these advantages are seen on the full range of board qualities, from lightweight fine flutes to heavyweight triple wall board.

Within the scope of supply is a new infeed unit, which contains the drive assembly for the ProPress system. But even more important are the bending-resistant flattening tubes for the webs and an adjustable infeed roll to create the optimal bonding point between single faced webs and liner. The infeed unit is ideal to create exact paper paths, which is mandatory for high quality and speeds - and can be delivered with a bended hotplate to preheat the liner. For optimised settings on different qualities, there is a HMI control which enables the ideal setting of the ProPress at any time.

In old Double Backers, often the hotplates are worn out which limits the effectiveness of the pressure system. Therefore, Corr24 offers well-proven



peripheral drilled hotplates. Besides a totally flat surface, these also have the advantage of a uniform heat profile and quick temperature adaptation time. This will improve board flatness and quality, especially at high speeds.

ProPress and hotplates are available as single solutions, but also as pre-assembled modules, including the machine sideframes, for a fast installation. To suit every budget, even single machine sections can be upgraded and individually the best solution can be found.

For the full range coverage, the portfolio also carries the ProPress loading system for the traction section. Here, the system is supported by flat tables from the bottom for an effective pressure and transport

of the board. In case the Double Backer drive or gearbox is obsolete or does not suit future requirements, a solution can be offered as well.

To support their customers in finding the best upgrade configuration and to take the right decisions, Corr24 offers a comprehensive audit as part of their M-P-SP programme (Maintenance-Productivity-Spare Parts). Targeting high quality and low waste figures at high speeds, M-P-SP offers maintenance and productivity support including a wide range of upgrades, like the new ProPress system. This will be completed with spare parts packages to offer individual and sustainable solutions for existing mixed corrugators.

www.corr24.com

Wet-End Systems

Copar builds wet-end control systems which include:

- Splice synchronisation (both 'splice to splice to splice' and 'arrival of wet-end splice packet in register with the pending dry-end order change');
- End of roll splice control - to reduce waste, free up operator's time and to minimise slow speed running at roll change. Precise paper consumption data helps waste calculation accuracy;
- Missed splice and web break detection to protect glue mechanisms;
- Process control - automatic recall of proper process parameters to help ensure the production of cool, flat, well bonded sheets;
- Constant monitoring of vessel temperatures, e-stop contacts and operator inputs helps isolate problems quickly;
- Closed loop laser inspection of sheet flatness provides substantial improvements in converting effectiveness and reductions in plant waste.