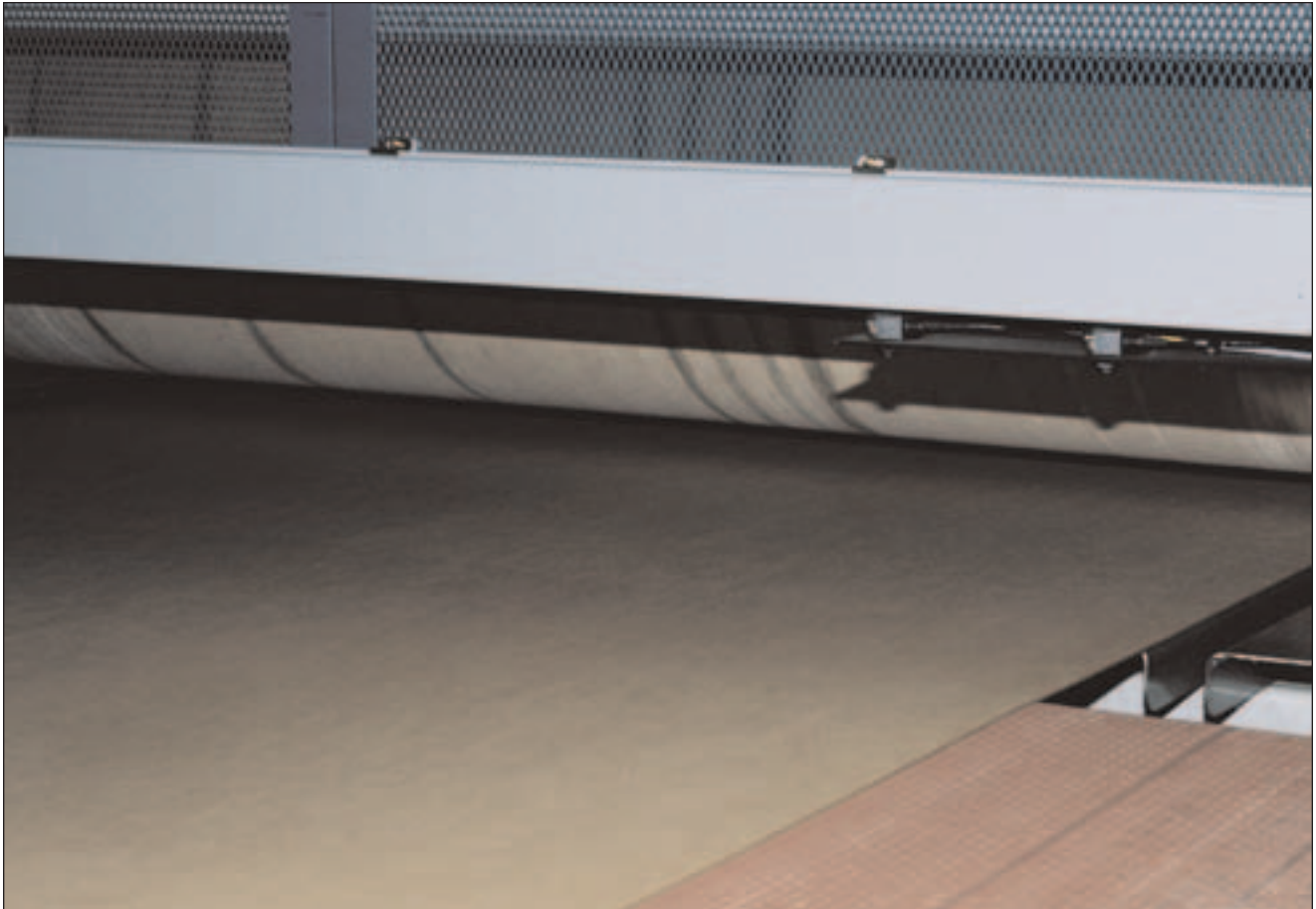


Corrugating Machinery Cool-Vac Double Facer



Features:

- Infusion Technology is integrated on the hotplates to provide high energy transfer to the moving web and to significantly reduce frictional paper drag.
- Gun-drilled steel hotplates virtually eliminate cupping and deflection normally experienced with conventional double facers.
- Liquid-filled weight roll holddown system provides excellent bonding and reduces energy consumption.
- AC direct coupled drive eliminates gear boxes and reduces energy consumption.
- Vacuum Traction System removes steam from the flutes, curing the board as it exits the double facer.
- Modular design allows hotplate length consistent with board grades and speeds to be run.
- Zone temperature control allows optimum curing of a variety of board types.

Barry-Wehmiller

Corrugating Machinery

Cool-Vac Double Facer

MarquipWardUnited's double facer design results in shorter installation times and allows the heating length to be easily configured for given space and product mix requirements. This design provides higher operating speeds and improved board quality.

The Cool-Vac Double Facer features the following benefits:

- Excellent heat transmission due to gun-drilled hotplates.
- Improved board quality and reduced energy consumption due to liquid-filled weight roll holddown system
- Zone control with variable force holddown for each section
- No-crush cooling section using a vacuum traction system
- Improved board quality with greater flexural stiffness.
- Board converting with no curing time
- Shipping of board without condensation in cold climates
- Improved Z-axis stiffness for better printability

Eliminates Cupping and Deflection

The **hotplates** are a heavy one-piece steel design employing modern "gun drilling" technology to create a steam flow pattern that serves to reduce the metal thickness through which heat has to flow. The design is such that steam remains close to the top surface of the hotplates, thus increasing operating temperatures under the corrugated board by reducing temperature drops. In addition to considerably higher operating temperatures, this design virtually eliminates the troublesome cupping or deflection normally experienced on conventional double facers which in turn results in edge crush.

Superior Operation

The holddown system is comprised of precise liquid-filled weight rolls. These rolls are 76mm (3") in diameter and provide the following benefits:

- The rolls provide even distribution of belt pressure for optimum heat transfer and excellent bonding.



- The rolls do not warp. This eliminates board quality defects, even after a stop.
- There is no need to eliminate load on the belt edges as paper width changes. This ensures consistently good bonding across the entire web.

Collectively these features provide for high-speed production while maintaining maximum board caliper and bonding.

There are also several key production and maintenance advantages of the rollers versus a sliding shoe configuration.

- As a rolling element, there is no worry about the drag of the double facer belt or accelerated belt wear. Weight rolls reduce energy consumption resulting in longterm cost savings.
- Liquid-filled weight rolls have far fewer parts and require less maintenance

To accommodate various board grades and moisture conditions, sections of weight rolls can be lifted or lowered by selecting any one of a series of computer-controlled zone hold-down section versus speed curves. These adjustments can be made by the operator at the control console or remotely when the Allen-Bradley controller is interfaced.

In addition, the steam pressure can be varied within three zones to affect the bonding performance in an optimal fashion for flute combinations and a variety of board grades. The vacuum traction section removes steam from the flutes, cooling the board as much as 40° C (100° F) as it exits the double facer. This results in board that is stiffer and stronger. Board can be run on converting equipment without curing time or shipped in trucks in cool environments right off the corrugator without condensation.

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