



BMP 100

Paper Cup Forming





BMP 100 COMPACT BMP 100 SUPER

Drinking Cups
Ice Cream Cups
Noodle Cups, Bowls

Fast Food Containers
Insulated Double Wall Cups

The BMP 100 machines complete the range of paper cup forming machines within the Hörauf production program. Its compact design offers efficient production of paper cups at relatively high speed, and the proven technologies guarantee high quality finished products.

Method of Operating

The BMP 100 machines work either from pre-punched blanks or optional rollmaterial. The blanks pass three side seam heaters at the in-feed area, a standard on the Hörauf cup forming machines, to achieve sufficient and equal hot air application on the side

seam area without damaging the inner PE.

Before the wrapping process is started, the bottom is fed to the mandrel. The roll-fed bottom paper is punched and drawn before it is applied to the base of the folding mandrels. Thereafter, the blank, which is accurately positioned, is wrapped around the mandrel and the side seam is immediately sealed by the clamping bar.

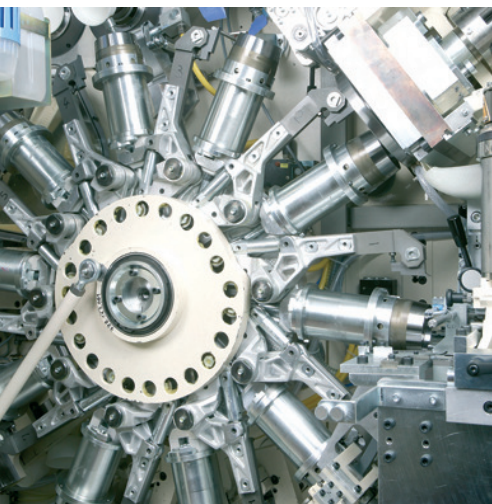
The 10-mandrel folding star offers enough time for the sealing of the side seam while passing the integrated bottom forming stations. Here, the three IPC controlled heaters are also a standard for sufficient bottom sealing quality. Bottom in-curling and rotary sealing complete the bottom forming processes.

The finished cup body is transferred to the vertical top curl table. This area consists of multiple stations for best rim formation: moistening, pre-curling, finishing-curling and calibration. Optionally, a grooving station can be integrated to e.g. apply a fill-line to the inside of the cup.

The finished cups can be stacked in the optional cup counting and collecting table or be fed to any OEM-packaging system. For the production of "insulated double wall cups", we offer the in-line transfer system including all necessary controls to the Hörauf outer sleeve machine.



Top curl table with 7 stations



Easy access to all processing stations for perfect operation and maintenance

Technology:

The Hörauf cup forming machines operate mechanically with indexing gears for accurate movement and transfers to the following processing stations at highest speed.

All stations offer the necessary controls to stop the machine in case of any fault. All heaters are IPC controlled and allow production only after reaching the set temperature. This system guarantees good products from the beginning of the production phase. Integrated, fully automatic lubrication system and oil mist lubrication for the drive are standard.

Advantages

- > Compact machine design requiring little floor space
- > High capacity
- > Great flexibility due to fast tool conversion
- > One man operation
- > Easy access to all processing stations as well as to the drive system (for maintenance)
- > IPC controlled hot air heaters for consistent heating temperature
- > Production status and trouble shooting via control panel

Standard Equipment

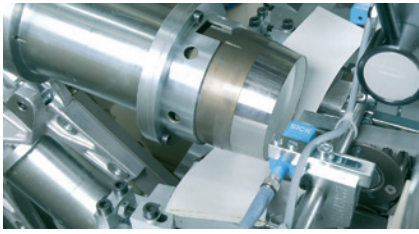
- > Central electrical control cabinet
- > Variable speed of main drive
- > Oil mist lubrication for drive parts
- > Central lubrication
- > 3 hot air heaters for the side seam
- > 3 hot air heaters for the bottom
- > Rotating bottom sealing
- > 3 top curl forming stations plus moistening

Optional Equipment

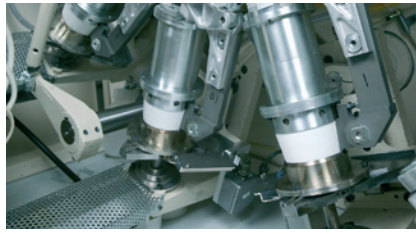
- > Blanker unit (roll-fed-system)
- > Blank infeed conveyor
- > Grooving station
- > In-line connection to the Hörauf outer sleeve machines

Accessories

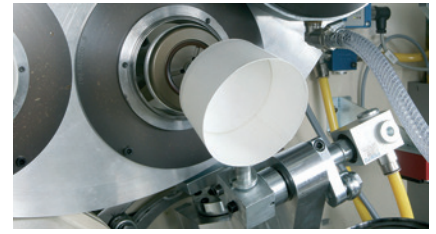
- > Vacuum pump
- > Water cooling unit (chiller)
- > Cup counting and collecting device
- > Film sleeve packing machine



Blank in folding position, bottom inserted in mandrel



Folding star with bottom processing stations



Shell-transfer to top curl table

BMP

BMP 100 Compact and Efficient

BMP Speed & Time



Hörauf paper cup forming machines are designed for the fastest tool changes. All adjustments remain in the tooling assemblies and therefore, very limited adjustments are required when reinstalling a tooling onto the same machine. The machines operate at a high speed level of up to 180 cups per minute.

BMP Size range



The **BMP 100 Compact** offers suitable size ranges for all common drinking cup sizes up to 32 oz. volume and is therefore the dedicated "low-entry" paper cup forming machine.

The **BMP 100 Super** offers large diameter size ranges required for ice-cream containers and other food packages.

BMP Product quality



Although the **BMP 100 series** offers the bottom forming processes as an integrated system into the shell forming process, the machines still offer the proven units and technologies of other Hörauf paper cup machines. The three side seam heaters and three bottom heating stations are still the guarantee for best sealing qualities. Furthermore, the machines offer multiple top curl stations for perfect rim formation.



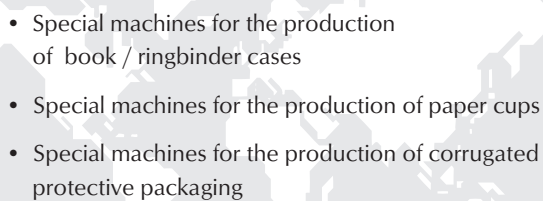
HÖRAUF

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Hörauf is a renowned manufacturer
of special machines for the paper processing industry.

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- Special machines for the production of book / ringbinder cases
 - Special machines for the production of paper cups
 - Special machines for the production of corrugated protective packaging

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