



# **BMP 200**

Paper Cup Forming



## BMP 200 Universal BMP 200 Speed

Drinking Cups  
Ice-Cream Cups  
Noodle Cups

Fast Food Containers  
Insulated Double Wall Cups

The BMP 200 machine is the most universal cup forming equipment operating at a very high production speed of up to 230 cups per minute. Having this series available in two models (Universal and Speed), we can offer the specific equipment for each customer's requirements and market's needs. The available options offer wide opportunities – not only in the common paper cup market, but also in the fast moving world of the packaging market.

### Method of operation:

The BMP 200 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.

Thereafter, the blank is tightly wrapped around the folding mandrel which is positioned on the vertical 8-mandrel folding star. As no bottom is inserted at this time, the side seam can be sealed along its entire length; from the very top to the very bottom. A unique system, which only the Hörauf cup forming machines offer, makes it outstanding for the production of highest quality products such as coffee cups and packaging containers (e.g. yoghurt cups or snack cups).

The finished cup shell is transferred to the horizontal bottom forming table. There, the bottom is already positioned at the base of the mandrels and once the shell is pushed onto the mandrel, the cups will pass the corresponding bottom forming stations. These are again the three bottom heaters followed by the bottom in-curling station. Hörauf offers the unique dual expanding bottom sealing stations. This system, which is standard for all non-round cup applications, has now become a major necessity for the coffee cup production to assure highest sealing qualities of the cup base.

The finished cup body is then transferred to the horizontal top curl table. This area consists of multiple stations for best rim formation: moistening, pre-curling, finishing-curling and calibration. 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.

### 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

- > High capacity
- > Quick tool change
- > One man operation
- > Easy access to all processing stations
- > IPC controlled hot air heaters for consistent heating temperature
- > Production status and trouble shooting via control panel
- > Low energy consumption

### Standard Equipment

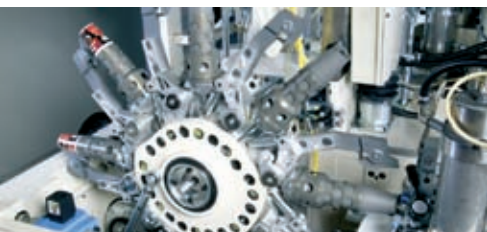
- > Central electrical control cabinet
- > Variable speed of main drive
- > Oil mist lubrication for drive parts
- > Central lubrication
- > 3 hot air heaters for the side seam
- > 3 hot air heaters for the bottom
- > Expanding bottom sealing stations
- > 3 top curl forming stations plus moistening
- > Most economical production of different types of cups due to available options which are integrated into the main machine

### Optional Equipment

- > Blanker unit (roll-fed-system)
- > Blank infeed conveyer
- > Side seam tape applicator
- > Grooving station
- > Flattening station
- > Tooling in round as well as non-round shapes
- > Integrated handle application unit (up to 230 cycles/min)

### Accessories

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



sealing of the entire side seam area on the 8-star folding star.



Tight and accurate wrapping by means of brushes and folding fingers.



The BMP 200 offers three bottom heating stations



Sealing of the entire side seam



Expanding bottom sealing stations



Top curl processing table with multiple stations

# BMP

## BMP 200

### High Speed Flexibility

#### 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.

Production speed for drinking cups can be as high as **230 cups per minute**. For the production of so-called packaging containers, the speed may be somewhat limited due to various required options.

#### BMP Size range



The **BMP 200 Speed** offers a full range of drinking cup sizes up to 44 oz. volume to cover the full range of cold cups and hot cup business. The

machine can produce cups as little as the 3 oz. sampler cups.

The **BMP 200 Universal** offers basically the same size range, but is designed for round as well as non-round shapes (rectangular, square, oval or any others).

#### BMP Product quality



Three side seam heaters, absolutely accurate wrapping process, three bottom heating stations and dual expanding

bottom sealing stations are the guarantee for highest sealing qualities. It makes the **BMP 200** machine the dedicated equipment for the production of most advanced cups: coffee cups, yoghurt cups and other kinds of hermetic tight packaging containers. The multiple top curl stations offer best rim formation including the optional flattening.



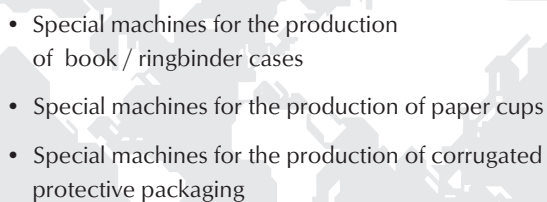
# HÖRAUF

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# BMP 200

## Paper Cup Forming

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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