

Offline Blanking Machine

BMS-1100

Tool-free blanking of die-cut sheets

ANC Machinery



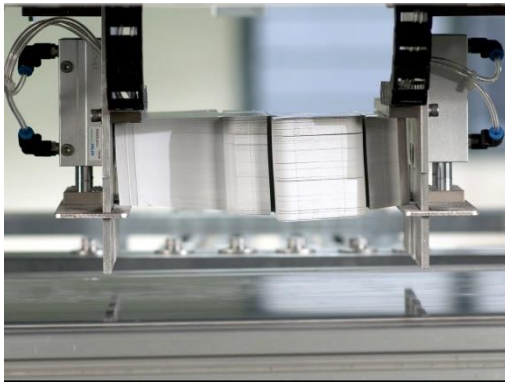
- Processing of cardboard, plastic, corrugated cardboard, etc.
- Two different shapes can be processed simultaneously in one cycle
- Up to 20 packs of blanks can be separated from an 80 mm high stack of sheets in one minute
- Only one machine operator required
- The automated process replaces manual separation
- Additional stripping function for e.g. windows



Operating principle

BMS-1100 works according to a lifting principle in which the blanks to be separated are cut out from below by a hydraulic cylinder.

Adjustable downholder in the blanking heads fix the sheet stack in place. At the same time, a pneumatic cylinder stabilises the blank stack **from above**.

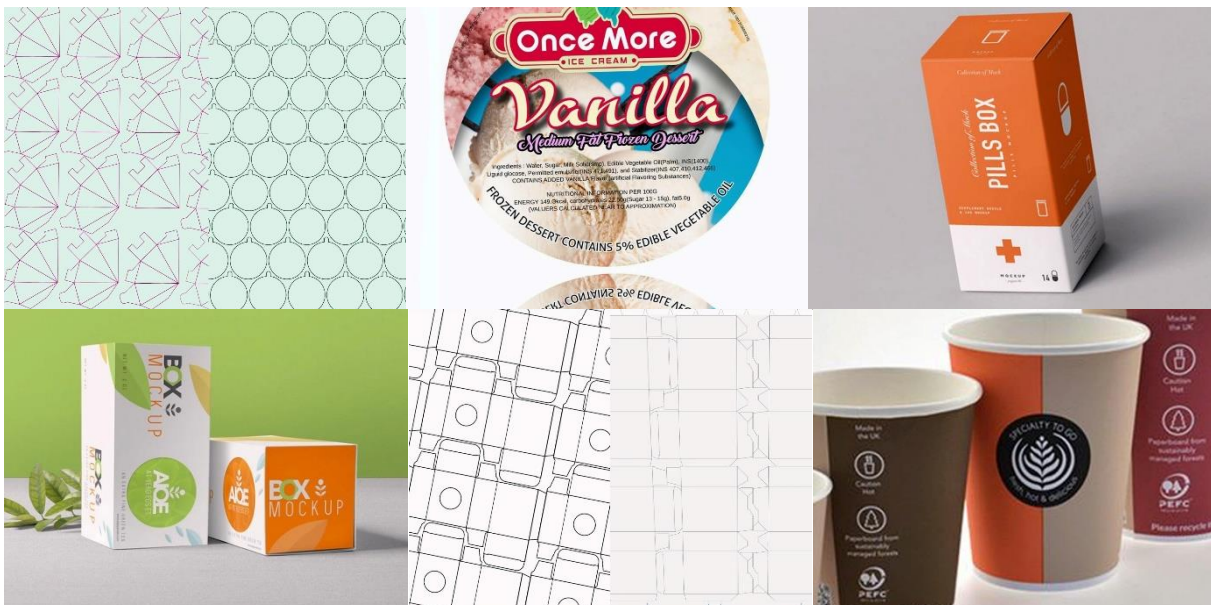


The sheets are then transferred to a conveyor belt using an automatic gripper.

The stack of sheets is then aligned for the next separation process using a servomotor-controlled unit.

Production Example:

400 µm cardboard with 20 blanks in the sheet = 6.000 – 8.000 sheets per hour



Technical Specifications

Sheet size	Max.: 1060 x 960 mm Min.: 300 x 300 mm
Blanking size	Max.: 468 x 350 mm Min.: 30 x 30 mm
Sheet stack height	Max.: 85 mm Min.: 50 mm
Blanking size gripper	Max.: 250 x 280 mm Min.: 50 x 50 mm
Stripping size (e.g. window)	Max.: 100 x 150 mm Min.: 15 x 15 mm
Blanking speed	Max.: 20 blank packages per min.
Set-up time	approx. 15 – 35 min
Engine power	6 kW
Compressed air	6 bar
Sizes with gripper (L x W x H)	4100 x 2650 x 2000 mm
Total weight	1,6 t



Equipment

1. Two blanking heads (left and right station)

- Blanking of two different shapes can be performed in a single work cycle
- Three attachments (lower lifting cylinder) for standard applications included
- Special attachments for blanking special shapes can be manufactured
- A total of 26 down holders in 8 different designs included
- Special down holder shapes can be produced and attached to the guide frame



2. Servomotor-controlled sheet transport

- Speed in X- and Y-axis: 400 mm per second
- Flexibly adjustable crossbar included as support
- Special sheet holders can be manufactured for special shapes



3. Stripping unit with waste disposal system



4. OMRON control technology with 10-inch HMI touchscreen

- WiederholaufträgeProgramme memory for 300 repeat jobs



5. Gripper with conveyor belt

- The separated stack of blanks is picked up by the gripper and placed on the conveyor belt
- Space-saving 90° conveyor belt
- Optional extension of the conveyor belt to the next work station

