

the B.glove project for bio degradable disposable gloves

The new B.GLOVE machine has a long story that started with the first semiautomatic machine for disposable gloves that Cibra presented at PLAST 1968. It was followed by the first experiences on biodegradable Mater-Bi films at PLAST 2003, and many years' experience in full time production of biodegradable Mater-Bi gloves for innovative customers.



Disposable gloves in bio-degradable film are a high quality product. Their softness, their breathability, the pureness of their composition make these gloves suitable for food handling, for use in pharmaceutical and chemical industries, for wellness treatments, and in many other applications. Biodegradable gloves are organic waste and will be totally degraded in compost in a short time.

According to European ruling, shopping bags must be biodegradable. It can be expected that the same rule could soon be applied to gloves in the fruit/vegetable area of supermarkets, where HDPE gloves are still used.

B.glove machine was tested on several grades of biodegradable films and compounds, and several films made from renewable resources.

The machine can also be used on regular HDPE, LDPE, and EVA, EBA, EMA copolymers.



the B.Glove machine

HOW IT WORKS

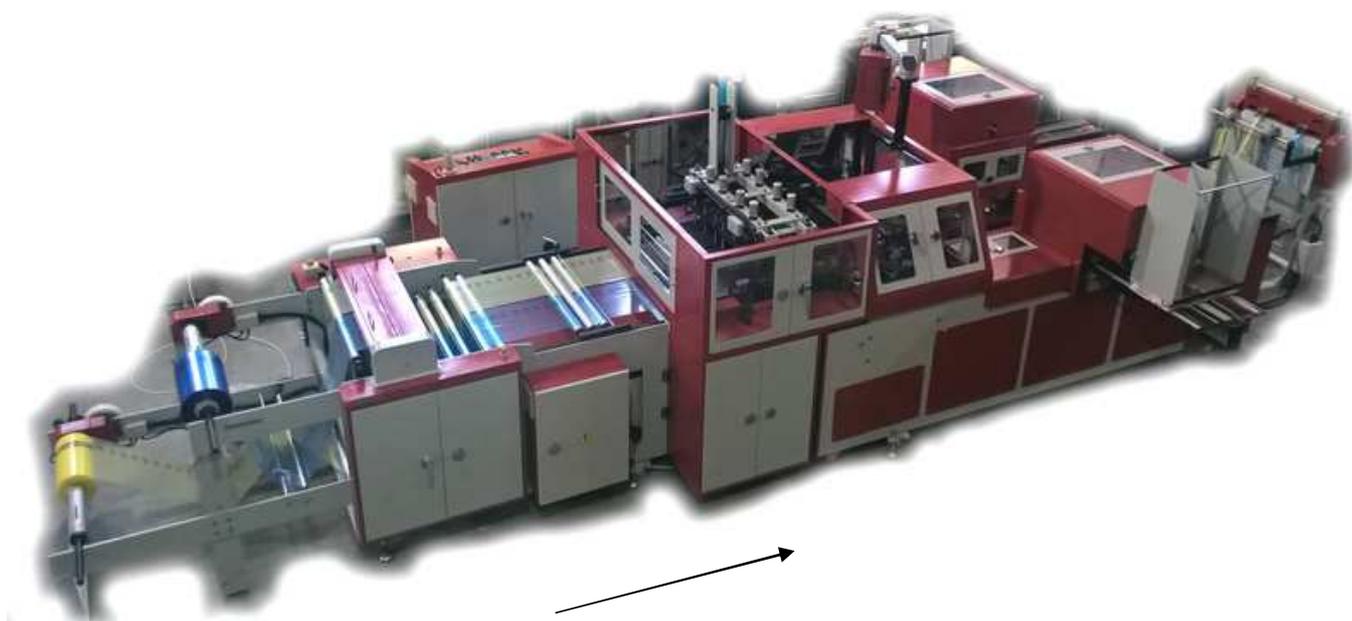
The machine works on two lanes that are completely independent. Either one can be switched off without problem.

Film can be tubular, V-folded or wound in double layer. Printed film can be used only if the print is continuous and does not need to be centred by a photocell.

Film is automatically forwarded under the sealing head, that makes 4 gloves per stroke (2 on each lane). Gloves are then advanced to the pick-up station, while waste is automatically pulled off.

A set of pincers picks the gloves from the conveyor belt at both sides, and stacks into cardboard boxes. The quantity of gloves in each box can be set according to need.

On reaching the pre-set quantity, the belt moves forward so that a new box is loaded automatically.



CONTROLS

Basic controls are placed on a control deck that houses the wiring.

Control deck can be placed at either side of the machine.

Settings and checks are always available on a mobile touch screen unit on a movable arm.

VARIATIONS

Shape

Sealing dies can be easily replaced in order to make various shapes and sizes, such as 5 finger gloves, mittens, 3 finger gloves. Other shapes can also be made: round bottom bags, puppet shaped bags, and so on.

As the two lanes are independent, two different items can be produced at the same time: for instance, 5 finger gloves on one lane, mittens on the other lane.

Dies are always made by Cibra on customer's design. Shapes must be designed within the available area.

Machine and film width

Basic machine for short gloves is 800 mm wide and can be used with a film max width 720mm.

The best solution is to use 2 V-folded rolls each one 350-360mm width.

Gloves, or other shapes, can be 340 mm max length.

Production speed

Machine can work from 30 to 40 strokes per minute, depending upon the type of film.

Each stroke makes 4 gloves.