

## *In-Mould-Labelling in a straight way*

Applying an IML (wrap around) label to your product gives it a superior appearance. Van den Brink offers two types of systems to place IML labels in moulds:

1. Rapid mechanical IML system.  
Please refer to the **IML Mech** brochure.
2. Universal IML robot system.  
The system is explained below.

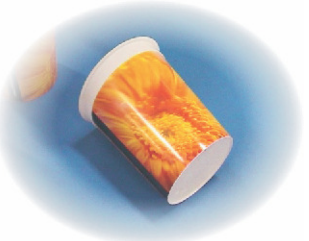


### **IML technology:**

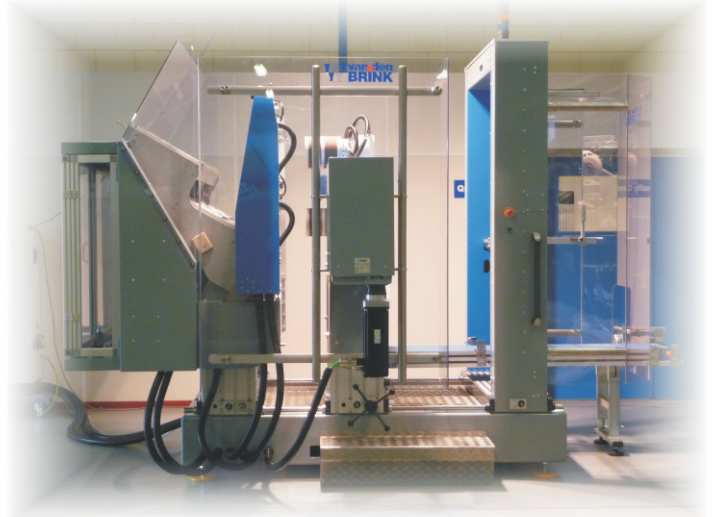
An IML system is comprised of at least a:

1. Label dispenser with buffer and feed system.
2. Label inserter head (for attachment to a robot).
3. Electrostatic charger.

These units enable you to make use of IML with your existing moulds, injection-moulding machines and robots; they offer you the opportunity to apply IML labels to your existing products.



## IML Robot System



### **Complete production systems:**

We offer the specific expertise required for the use of IML with new products, whereby we can advise you on the choice of an optimal production line.

We supply complete systems comprised, for example, of the following:

- Mould
- Robot
- IML system
- Stacker
- Buffer belt
- Control system, safeguards, manual, installation



### **Versatile:**

A wide number of variants are feasible within the IML concept:

- Flat labels, folding labels, wrap-around labels
- Multiple moulds
- Fault recognition, with the automatic separation of non-compliant products
- Increased buffer capacity for unmanned production
- Products can be stacked in boxes in the required pattern  
Integral handle-assembly system for pails

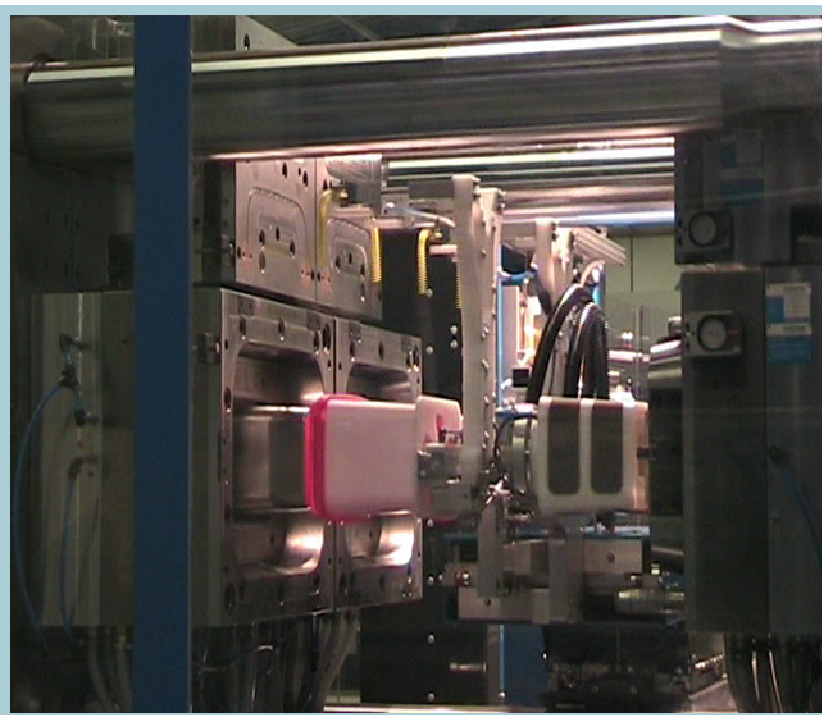
### **Robots:**

In principle, both top-entry robots and side-entry robots are suitable for use with IML.

Top-entry robots can be used for a wide range of applications.

Side-entry robots are faster, but occupy more space.

We supply versions of both types ideally suited to IML applications.

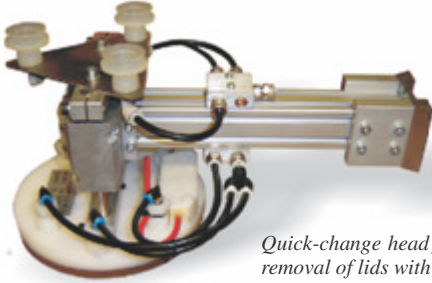


## Specifications: IML Robot System

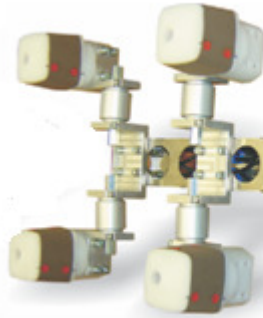
### **Electrostatic charging:**

Two systems are generally used to hold the labels in the mould:

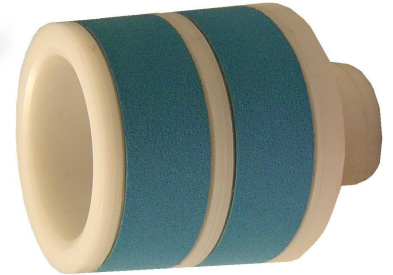
- Charging the label outside the mould.
- Charging the label in the mould.



*Quick-change head for IML and removal of lids with a top-entry robot.*



*Quadruple changeable head for rectangular tubs. IML system with a side-entry robot..*



*IML label mandrel for round bucket.*

### **Label magazine:**

Our label magazines offer the following properties

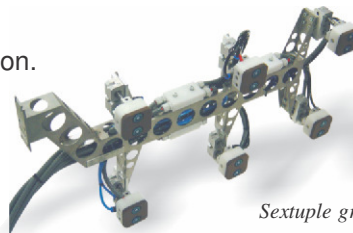
- **Vertical labels = Horizontal stacks**  
Vertical-label magazines are easier to replenish, and offer a more accurate pick-up position. Labels can be replenished at any required time, and during production.
- **Exact label positioning.**  
The pick-up position can readily be adjusted for each stack.
- **Stack feed.**  
Each label cassette is equipped with a separate feed to replenish the labels.
- **Label separation.**  
Each magazine is equipped with a unit that prevents the pick-up of double labels.
- **Quick-change parts.**  
The magazines are designed for rapid product changeovers by exchanging the quick-change parts.
- **Buffer quantity.**  
The labels can be replenished during production. The quantity is sufficient for at least 8 hours' production.

### **Quick-change parts:**

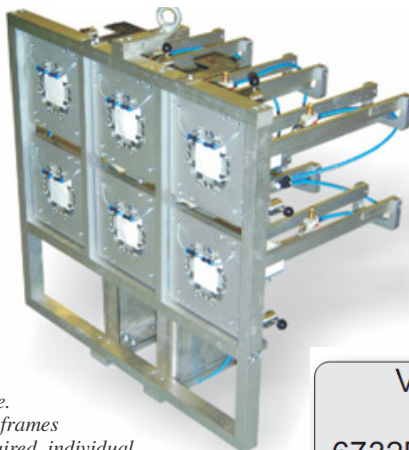
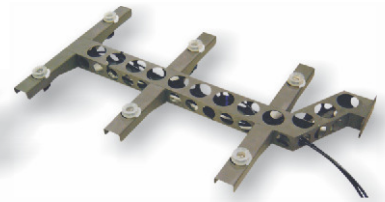
Frequent product changeovers are inherent to packaging operations.

Van den Brink's designs take account of this need. You receive an IML system incorporating changeable parts for rapid changeovers from flat labels to wrap-around labels, single to multiple, and pails to tubs or lids.

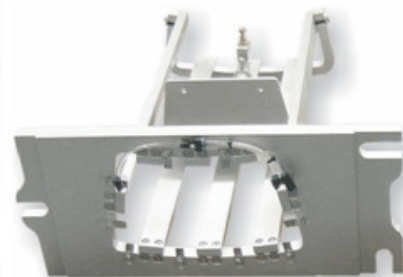
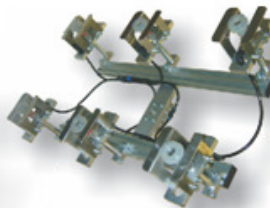
All systems are tested at full production speed *prior* to delivery.



*Sextuple grippers for a side-entry robot.*



*Sextuple label magazine. Quick-change frames and, if so required, individual cassettes cater for every conceivable product changeover.*



*Label cassette for a single wrap-around label.*

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