

Electrostatic In Mould Labelling (IML)

What is In Mould Labelling or IML?

In Mould Labelling, also referred to as 'In Mold Labelling' or [IML](#), with the help of static electricity is becoming the new standard in injection moulding, thermoforming and blow moulding industry. Instead of conventional methods like decorating by printing directly or placing an adhesive label onto the product, the decoration is achieved with a pre-printed plastic label.



The pre-printed label is positioned into the injection mould and kept in place by an electrostatic charge. This way the label will be moulded together with the product shape and comes out as a finished, fully recyclable product.

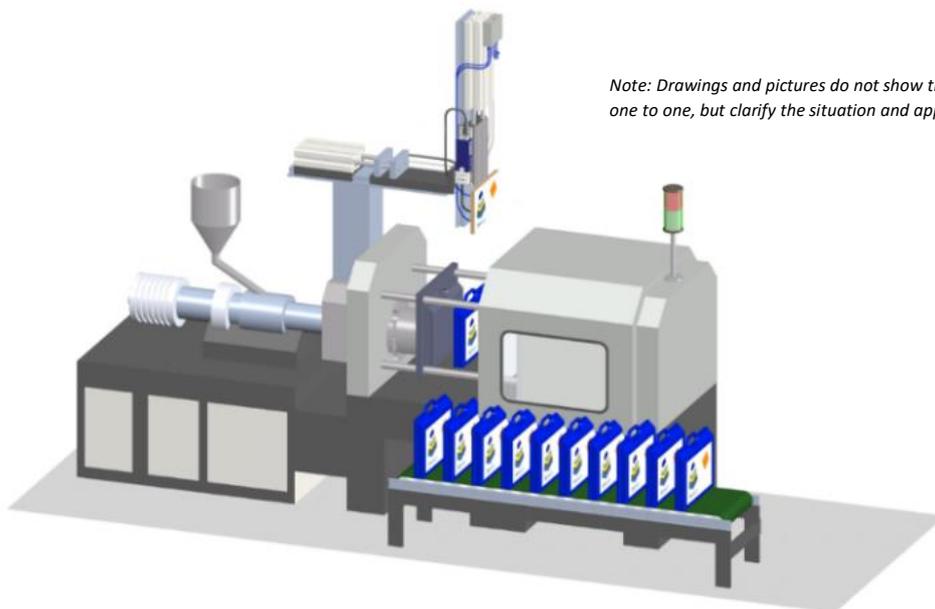


Whether you are an end-user or a robotics manufacturer, Simco-ION can assist you with advice and knowledge in creating the perfect In Mould Labelling solution.

It is essential when starting a new IML project to make the right decisions to create a competitive product.



Outside the mould the robot picks-up a single, pre-printed label to transport (high-speed) and place it into the mould cavity (single or multiple), where it sticks due to the electrostatic bond between the label and the metal mould wall (ground potential). Therefore the label will not slip or change position in the mould during the moulding process and a perfect In Mould Labelling-result can be achieved with an optimal cycle-time.



Note: Drawings and pictures do not show the application one to one, but clarify the situation and approach reality

Application Experience 4

We have years of experience with the In Mould Labelling process and In Mould Labelling equipment and therefore developed solutions for both metallic and non-metallic printed labels:

- Several charging techniques (pinning, direct & simplified IML)
- High voltage charging IML generators; 100-240V and special end-of-arm 24V IML [Charge Master Micro Easy](#) (CMME)
- IML electrodes; high voltage bars and the special [IML-spider](#)
- IML electrode materials (semi-conductive foam and special 2-component potting [IML Easycore](#))
- IML high voltage cables (extra flexible for cable chain)

Interested to learn more about the effect of static electricity? Please visit www.simco-ion.co.uk or subscribe to the [Simco Europe Youtube channel](#)