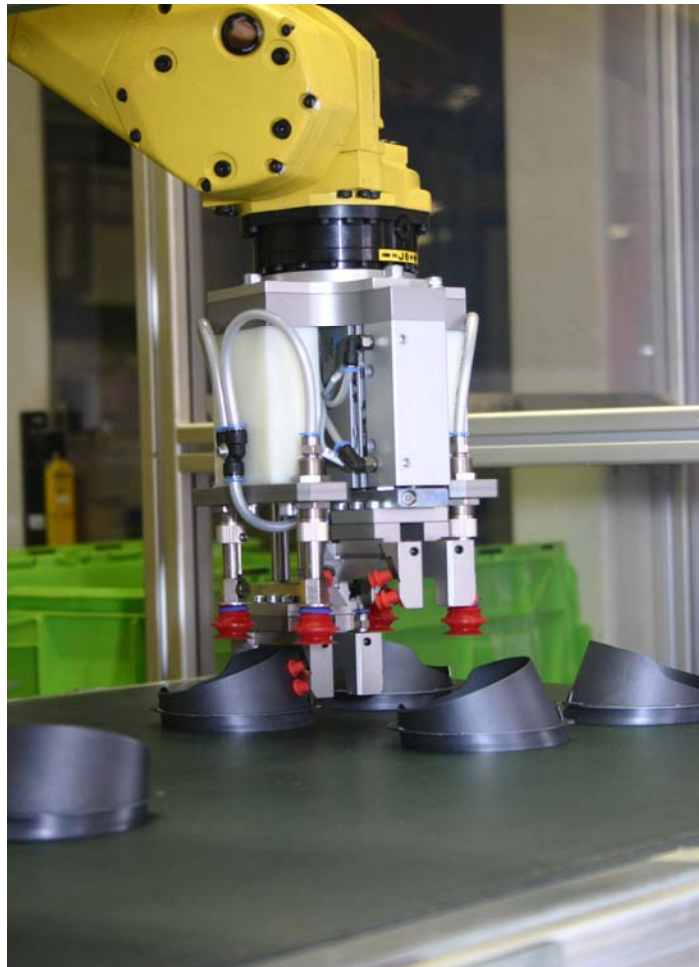

VASKON

Automation – Special machine construction

Krommebeekstraat 24 – BE 8930 MENEN
Tel +32 56 52 14 80 - Fax +32 56 53 00 15
www.vaskon.com

Robot Cell
for picking up products from a conveyor
and packing them into plastic crates
(or cardboard boxes)





The machine is built in a modular way. The machine is placed near an injection machine. The machine can easily be taken up, in order to move it to another injection machine. The operator has to mount the appropriate gripper (according to the product that needs to be packed) and load the corresponding robot programme, and he can press the start-button! The machine has a number of empty boxes available on the right side of the machine. The boxes move to the middle of the cell for packing, and they shift to the left side of the machine after they have been filled.



The gripper is made according to your parts. The moulded parts leave the injection machine on a conveyor. This conveyor brings the products into our robot cell. We assume the parts are randomly positioned on this conveyor, and always have the same side lying on the conveyor. The moulded parts are either always identical, or can have 2 variants (most common: a left hand part + a right hand part). The gripper (multiple picking, one deposit) takes the parts from the conveyor, and puts them in the case.



The robot places the products in a plastic case. If left hand (LH) and right hand (RH) products are moulded simultaneously, the robot distinguishes between LH & RH products: the robot takes one or several identical products (all LH or RH), and places them in the corresponding case (LH case, or RH case).



The machine allows to have a stack of intermediate sheets. Each time a layer has been completely finished, the robot will place one intermediate sheet.



The camera detects the position and the orientation of the parts on the conveyor. The camera also distinguishes between LH and RH products (if applicable).



The camera can optionally be programmed to detect other items (e.g.: defects on the product, ...)

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