Robotized packaging line for food products

This robotized production line picks pastry shells from a conveyor belt and places them inside blisters at a rate of **300 products per minute**. The 3 "pick & place" cells are equipped with an ABB FlexPicker IRB 340 robot and 2 cameras used for:

- locating products on the inlet conveyor, in order to allow the robot to pick them via "conveyor tracking",
- verifying the pastry shell conformity, among the 70 possible shapes,
- verifying the shell shape quality,
- locating and verifying conformity and orientation of the arriving blisters.

Upstream vision cell detects new product type arrival in order to anticipate the blister type change.

Product type recognition, robot picking point location and defective product rejection.