

ROBOTIC SOLUTION

Running a multipoint folder gluer for all types of boxes with only one person is now a reality. With extensive experience in gluing lines and robot automation, Belgium-based Box-office bvba is now marketing robot automation solutions from Ctech.

Customers already using Robofeeder on multipoint folder gluers report an average gain in productivity of about 20 per cent without even increasing the speed of the gluer because a robot continues feeding (automatic pallet change) and prevents operator fatigue. Breaking the nicks between boxes and a turning device for inverted stacks is available in order to automatically feed all types of boxes from straightline to lockbottom, 4/6 corner and RSCs from a minimum size of 20 x 20cm up to an unlimited maximum width.

Automatic feeding of gluers with a double feeder for shelf ready boxes is also possible. For inline machines, robot feeding is a flexible solution with secure handling in all sizes and requires less space (smaller footprint).

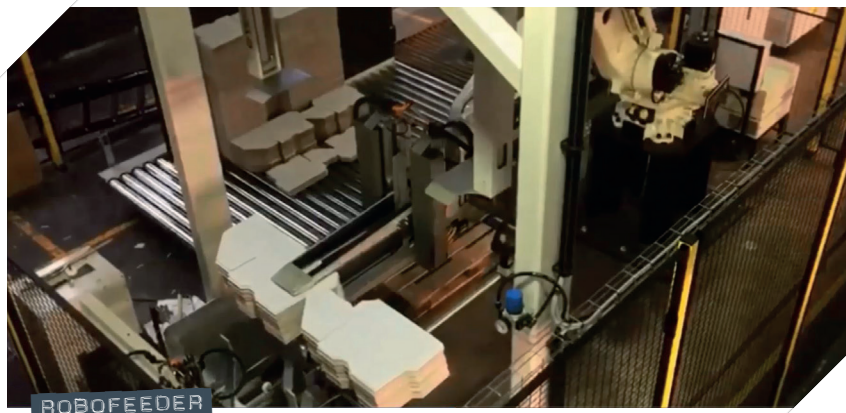
The take-off from a multipoint gluer is the most intense process with all kinds of products and different sizes, creating fatigue and health issues caused by repetitive movements. As a result, the speed of a gluer is mostly limited by the human factor, though the machine is able to run much faster. Mechanical take-off solutions are mostly limited due to the diversity of the finished boxes.

The Robopacker is a modular fully automatic high speed packer that can handle all kinds of boxes, turning packages when necessary, such as autolock boxes, inline with a high speed strapper squaring the packages in both directions.

The setup is fully automatic, taking about 5 minutes, with repeat jobs setup in just a matter of seconds.

The system is 100 per cent modular and upgradable in time. Customers can start with the Corpacker, the first module for separating batches automatically (with manual turning if necessary) and can then upgrade later with the high speed inline strapper and the robot turning module.

At the palletising stage, the Robot Palletiser P3-1 for bundles is completely automatic, compact and flexible, handling boxes that are difficult to stack manually due to a varnish coating, low height or large width autolock boxes. To guarantee a perfect stack for such difficult strapped boxes after a multipoint folder gluer, the squaring after positioning the bundles on the pallet is done for each layer separately. The system is equipped with roller conveyors for entering a stack of empty pallets with a pallet dispenser.



The flexibility of the robot allows the packages to be turned in all kinds of palletising patterns with a bottom sheet for pallet protection and an intermediate sheet between layers, up to a speed of 900 packs/hour. For palletising after inliners, the Robot Palletiser P3-3 includes a pre-stacker which increases the speed up to 1.400 packs/hour.

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