

RobotPacker 100/200 — Machine principles



Today's consumer demands an increasingly varied range of products, and production batches are becoming increasingly smaller as a result. This means that machine changeovers must take place as smoothly as possible. CSI's 100/200 RobotPacker combines the proven reliability of a tried-and-tested machine concept with the ultimate flexibility of a contemporary packing and unpacking machine.

The entire packing movement has been robotised via the servo-driven X and Z axis. These are controlled as independent parameters of each other, resulting in a smooth packing movement. The product in its primary pack is fed in a single line and can be divided into the desired number of channels and presented to the RobotPacker via CSI's dynamic motion divider, if required. The bottle formations are subsequently positioned in such a way that they can be reliably picked up by CSI's ultraflexible grabheads. This is the point at which the packing movement commences. During this movement, the

distance between the bottles in both directions (x and y) is adjusted in such a way that they fit precisely into the cases, which may or may not contain partitions. Depending on the required capacity, the RobotPacker is capable of packing or unpacking a minimum of two to six transport packs at the same time. The return stroke is then made at speed to start the next packing cycle.

The machine consists of a basic frame with an X/Z axis system suspended on two sides. The machine also has an infeed system for bottles and an infeed and discharge system for packing, fitted with case and/or crate positioning groups. All parts which come into contact with product and packaging are made of either synthetic material or stainless steel and a standard feature of the machine is a safety screen which complies with CE norms. The robotized machine concept is compact, operator friendly, extremely efficient and accessible. The modern man/machine interface is integrated into the machine.

CSI's newest packing and unpacking machine has the answer to the logistical problems which confront today's manufacturers time and again. Equipped with a flexible field of activity, the RobotPacker 100/200 is capable of adapting its speed to ever changing circumstances. Ultraflexible grabheads, easy to adjust bottle racks, advanced centring grid technology and a dynamic motion divider are CSI's newest inventions and they have been implemented in CSI's 100/200 RobotPacker working smoother, smarter and faster...



IMPROVING PERFORMANCE



CSI • Lissenveld 41 • 4941 VL Raamsdonksveer • P.O. Box 70 • 4940 AB Raamsdonksveer, the Netherlands
Tel: +31 162 575 000 • Fax: +31 162 575 111 • e-mail: info@csiweb.nl • www.csiweb.nl

CSI, UK Office • Telephone: +44 1276 686 862 • Telefax: +44 1276 682 397
CSI GmbH Germany • Telephone: +49 2852 509 990 • Telefax: +49 2852 5099 91

IMPROVING PERFORMANCE

Robotized packing and unpacking machine



Adjustable centring grid technology

CSI's adjustable centring grid helps to achieve extremely short changeover times which make this new range of RobotPacker very exceptional. An operator-friendly handwheel can effect the changeover to a different case and bottle formation without tools or extra parts being needed.

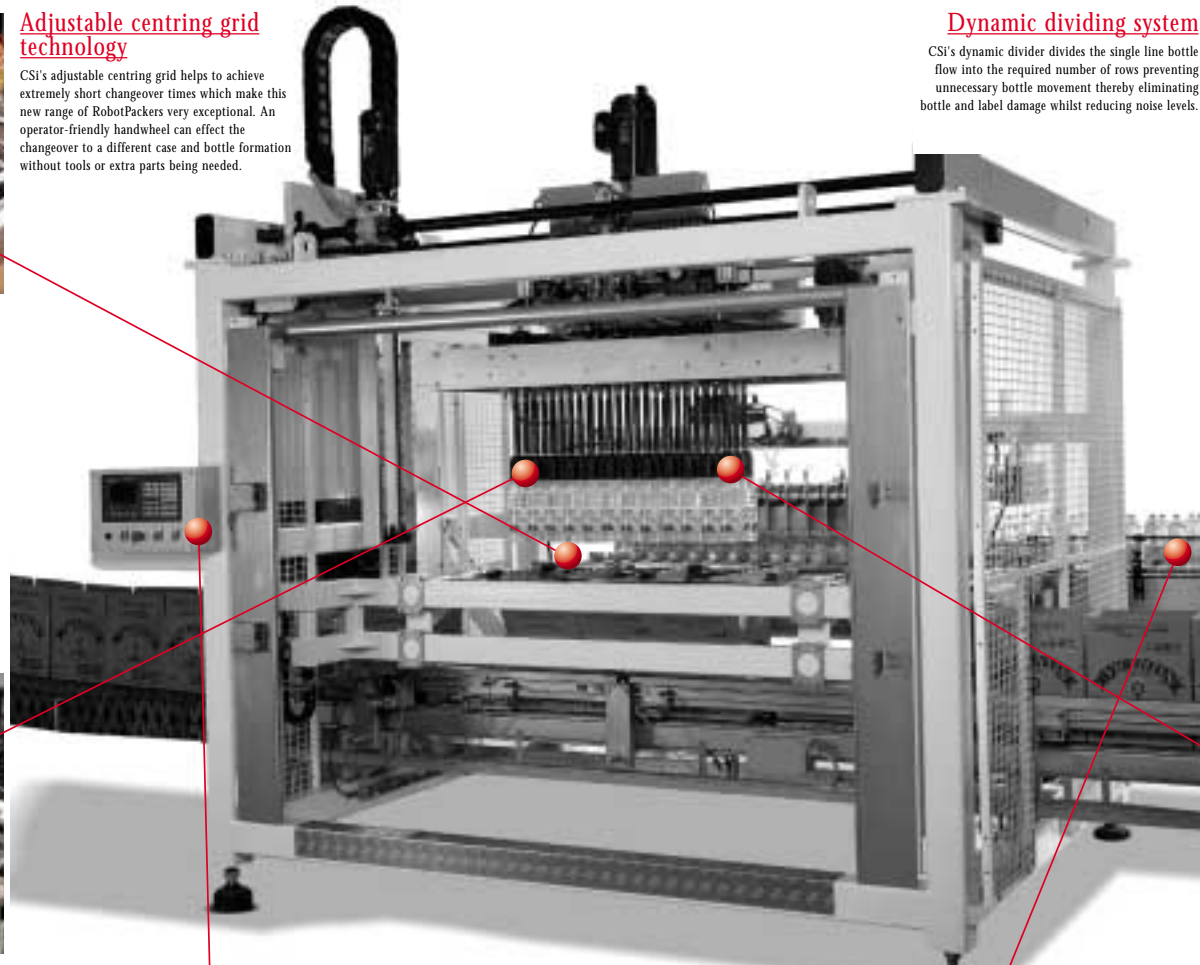
Dynamic dividing system

CSI's dynamic divider divides the single line bottle flow into the required number of rows preventing unnecessary bottle movement thereby eliminating bottle and label damage whilst reducing noise levels.



All purpose vacuum application

The 100/200 RobotPacker can also be constructed with vacuum grippers. Vacuum technique - combined with a specific mechanical product stabilisation if required - guarantees optimum product handling, ensuring the faultless management of products with more or less flat tops, like (deep-freeze) cartons and carrier packs.



Operator friendly machine interface

The machine as a whole complies with the current CE norm and is easily accessible. The operator can select a pre-programmed production programme by simply pushing a button.

Smooth bottle transport

The bottle conveyors are constructed of stainless steel and synthetics. Smooth bottle transport has been achieved by the selection of practically transition-free dead plates in the design phase.



Ultraflexible grabheads

The grabheads of the 100/200 RobotPacker represent the ultimate in operator-friendliness. In fact, a virtually infinite range of bottle sizes can be handled using the selfsame grabhead. The right pitch is chosen automatically in both the length and the breadth after the bottles have been picked up, resulting in a perfectly packed case.