

## Masters of Drives, Motion and Control

**YASKAWA Electric Corporation** is one of the world's leading manufacturers in the fields of drive technology, industrial automation and robotics based in Kitakyushu, Japan. Founded in 1915, we see ourselves as a pioneer in these sectors, always striving to optimise the productivity and efficiency of machines and industrial systems with our innovations.

**14,000** Employees worldwide  
**60** Offices worldwide  
**22 million** Frequency inverters installed  
**12 million** Servo drives installed  
**360,000** industrial robots installed

YASKAWA's first industrial robot was launched as a single model on the market in 1977. Four decades later the MOTOMAN robot family consists of more than 150 robot models.

The European headquarters are located in Frankfurt, Germany. Robot controllers for the European market are currently manufactured in the factory in Sweden. The first MOTOMAN robots from an all-European production are expected to roll off the production line in Slovenia in 2018.



YASKAWA Research & Development Center in Kitakyushu.



Inside the Robot Village at YASKAWA Electric Headquarters.



European controller production in Sweden.



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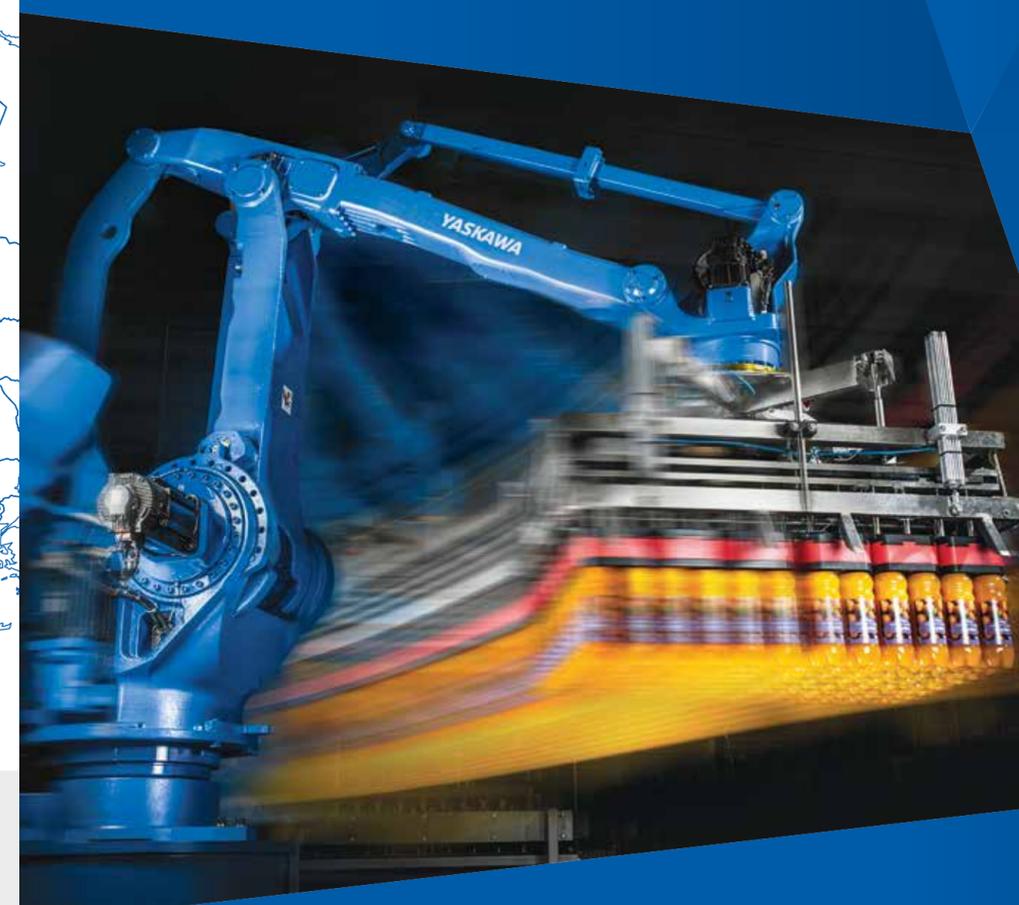
### DISTRIBUTORS

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- CH Messer Eutectic Castolin  
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All dimensions in mm.  
 Technical data may be subject to change without previous notice.  
 Please request detailed drawings at [robotics@yaskawa.eu.com](mailto:robotics@yaskawa.eu.com).

Get a grip on your bottles  
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## Reliable MOTOMAN Robot Technology from YASKAWA

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# YASKAWA

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# MOTOMAN and Air Grip offer you Bottle Handling that is keeping up with Changes

The bottle lifting capability has an impact on the whole production line and governs the brewery's ability to adjust to market changes. It is important to have machinery that can keep up with changes in materials and bottles types. This is what the patented Air Grip bottle gripping tool and MOTOMAN robots are all about!

The **Air Grip gripper** tool comes in a basic model. In which the rubber gripping cuffs are replaced when worn by unlocking and pulling out the gripping head compartment. The cuffs are designed in five standard sizes covering most of the current assortment of bottles.

The **Air Grip tool** for bottle handling has been developed to meet the demands for a flexible application in bottling plants. The same basic concept can be used in both small and large companies and for a variety of purposes.

The technology is adapted to meet the requirements of individual production lines, production speeds and product development. Thus, production is more easily adjusted to the varying demands of the market. High standards of production reliability are easily met.



*The automatic pusher for multipack is fully integrated in the MOTOMAN robot's control system.*



## Bottle Sorting Table

### KEY BENEFITS

- Small footprint
- Quick and easy change between multipacks and free bottles
- Bottle lines for 0.5; 1.0; 1.5 or 2.0 litres

The bottle sorting table conveyor can be used either for free bottles, or bottles in multipack. For free bottles the robot lifts, in one single motion, a special bottle lane divider tool and places it on top of the sorting table. When the table is to be used for multipacks, the robot simply removes the lane divider again.



## Air Grip

### KEY BENEFITS

- Bottle necks held securely at high speed
- Stable and robust gripping heads
- Minimal maintenance needs
- Long life span
- Easy to clean
- Lightweight
- Prevents jammed caps

### Advantages

The rubber gripping cuffs can be replaced by hand and does not require any tools. Bottles are locked in place by air pressure in the cuff instead of by mechanical means. This substantially increases the life span of the gripping cuff. Open ended gripping cuffs allow free bottle height and that also helps reduce the risk of a production halt caused by jammed caps.

Bottles are lifted securely, and Production Line stoppage minimized!