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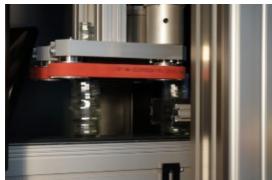# PRODUITS OU MACHINES

ORIENTATOR
Recognises with an image processing system the orientation of the container
Quickly and efficiently turns the product to the correct orientation
Can turn up to 450 products/minute
Quick job change

Bertram combines precise and highly dynamic servo drive technology with quick industrial image processing. Using this, we have developed a machine that orientates bottles and jars with extreme accuracy. The in-line 'Orientator with a recognition system' can turn up to 500 containers per minute into a desired position. The belt Orientator (or belt orienter), which holds the Lower Saxony Handwork Innovation prize, efficiently and smoothly turns containers to the desired position for the following production step. Palletising, filling, capping or labelling machines can then work considerably faster. In summary, productivity increases, if nothing else, through the skillful exploitation of industrial image processing.

PROCEDURE

The completely automated bottle Orientator combines the three process steps: separation; recognising the current position; and positioning into the desired position in a compact combination from calculation based image processing and motion application optimised Simatic T-CPU. The space saving structure makes it possible for the machine to be easily integrated even into existing conveyor systems.

The products enter the machine on a conveyor belt. It is firstly guaranteed by the spacers that a minimum gap is maintained between the products. The guides then bring the speed of the containers back up to match the conveyor belt speed ensure they remain stable. The Simatic T-CPU records the products with a photo cell and triggers the product orientation evaluation at a given point using the BV-system. The industrial image processing system recognises the position of the container in a three dimensional model using three cameras and predefined characteristics, and from this it generates the necessary correction angle, that is used by the T-CPU, to parameterise and trigger the turning process in the Orientator. The respective orientation direction depends on the shortest distance to the destination angle, according to the industrial image processor's recording. To ensure that the products remain stable at this point as well, the turn station works at the same speed as the aforementioned conveyor belt. As a Siemens partner, Bertram holds a high level of drive and automation technology as well as SPS-programming know-how along with their expertise in industrial image processing.

More Information

SEPARATOR
  Recognises and distinguishes between products
  Communicates with the Allocator as to which lane the product should be sent
  Can recognise up to 600 products/minute
  Quick job change

The Separator allows bottles and/or jars to be distributed between up to four tracks without changing the production speed. With its fast industrial image processing in combination with the corresponding SPS-programming, Bertram's system works so flexibly that it can handle all standard tasks. Resulting, in essence, from the shape and number of bottles and/ or jars, and their allocation to the correct tracks.

Bertram's bottle separator consists of a powerful industrial image processor, that is controlled by a pre-programmed, ready to use IPC-control system and a servomotor driven Allocator. Individual adjustments to the respective applications can be made directly on the module, either through an integrated touch screen, a USB connection with an external keyboard, or, the most convenient, remotely from your PC. We use forward-looking technology based on real-time ethernet, in the form of Profinet-communication at the input/ output level.

More Information

HISTOIRE DE L´ENTREPRISE

Bertram Bildverarbeitung is a high achieving third generation family company with a good reputation both in Germany and worldwide. Having worked in the field of glass for over 20 years, we understand the needs of the glass manufacturers which enables us to offer innovative, practice-orientated solutions. We specialise in custom image processing solutions in the cold end of the glass manufacturing process. Together with Bertram Elektrotechnik we can provide complete automatisation solutions.

We understand the need for the precise orientation of containers at some points in the process: for quality control; labelling; packing; etc. We have, therefore, designed an Orientator which can turn the containers to the desired orientation for the next part of the process. As well as this we offer a Separator, which recognises the containers and can tell an Allocator to which conveyor belt tracks they should be sent. The Allocator then pushes them to the desired track.

Company Profile of **Bertram Bildverarbeitung GmbH**

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