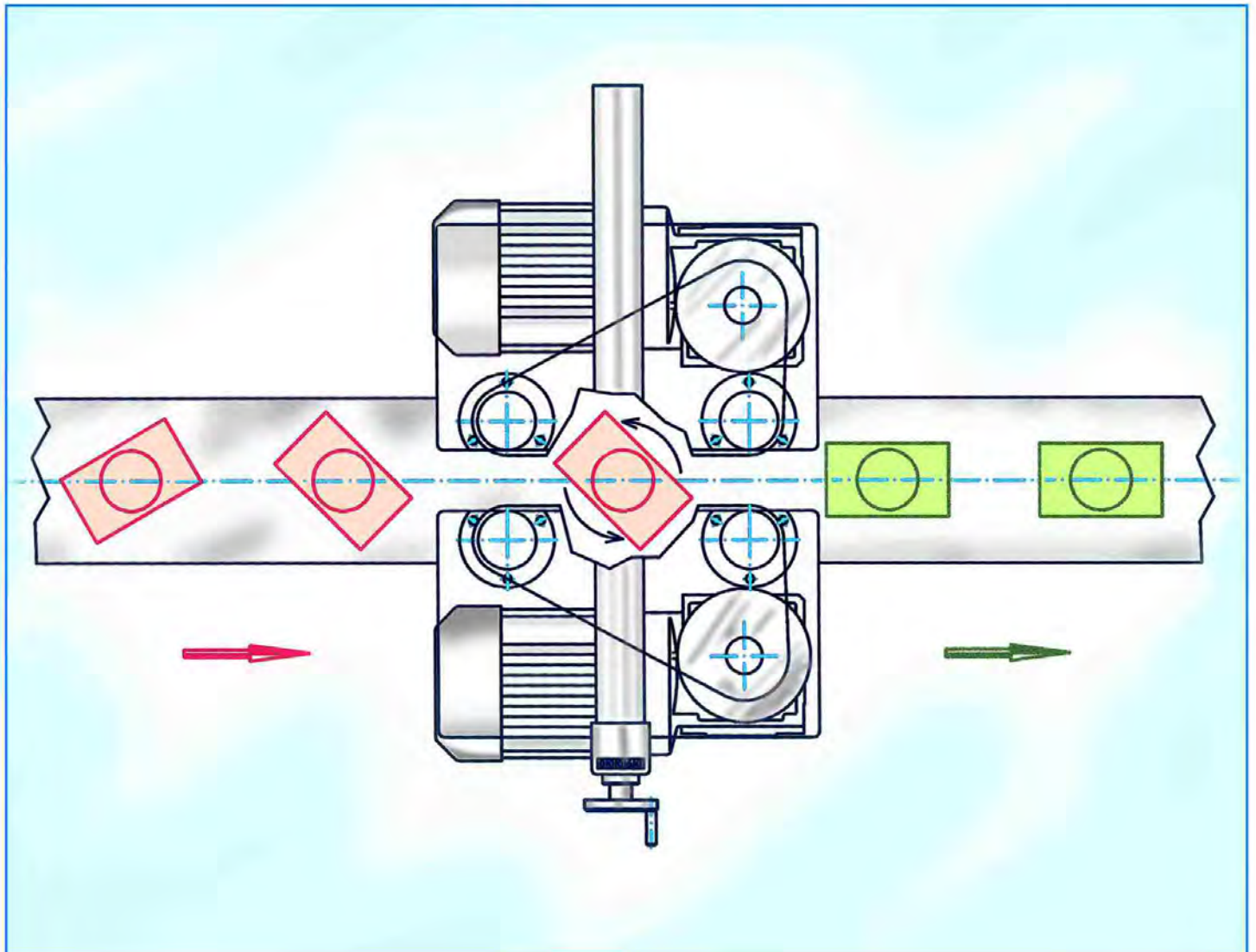


# PRODUCT DETECTION ORIENTATION

for bottles, glass containers...



...and everything  
that can be rotated



# PRODUCT DETECTION ORIENTATION

Special design of glass containers, bottles and cans increases the effect of recognition but however makes special demands on the production process.

Our combined device for detection and orientation of product is the solution. Whether for the filling and labelling process or the grouping to efficient packing schemes - a defined container presentation will be reliably possible.



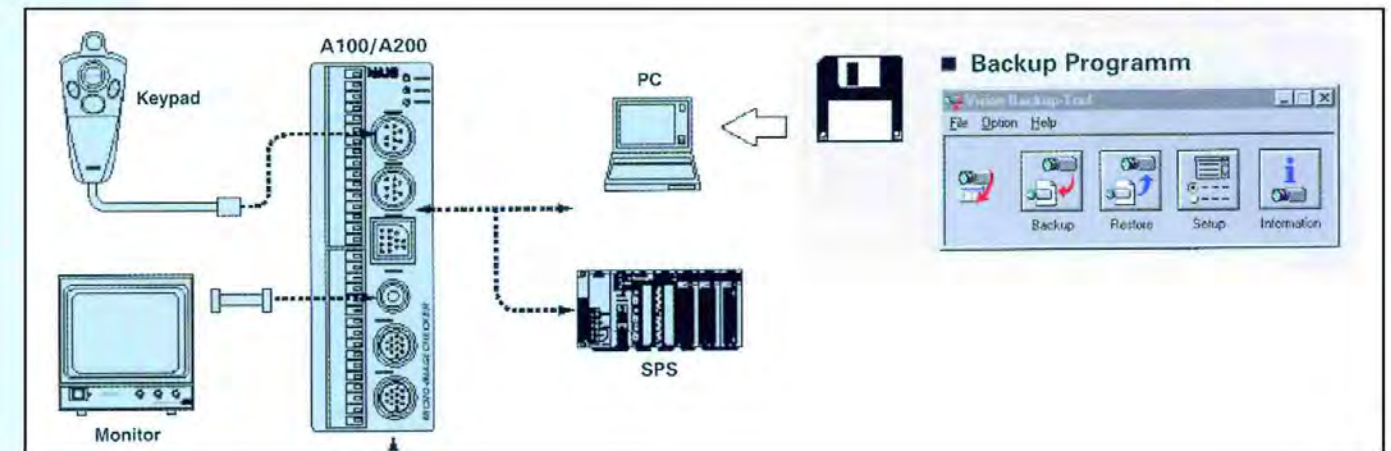
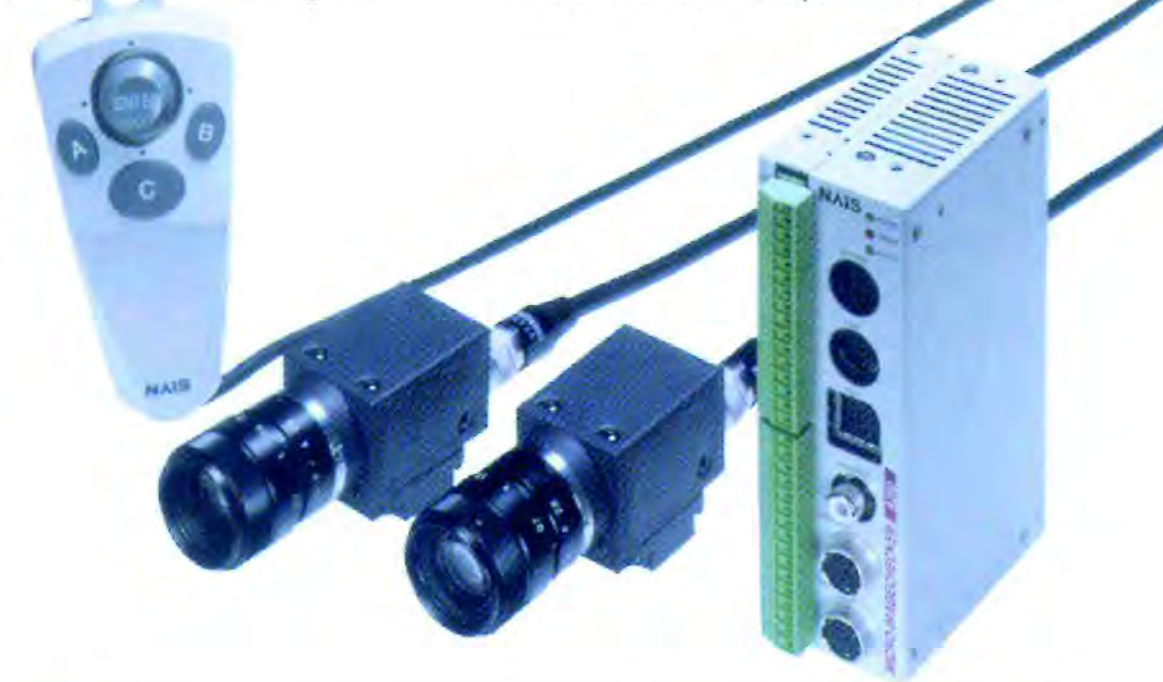
**While developing this system the following advantages were taken into consideration:**

**On the mechanical side:**

- Use of standard components  
↳ Minor store keeping
- AC Squirrel-cage motors  
↳ Simple approach
- Compact structure  
↳ Small space requirement (approx. 1,2 m total length of detector and orientator)
- Step-less adjustment in height and width  
↳ Short-termed adapting in case of product changeover
- Powerful  
↳ Up to approx. 300 products/min
- Casing of the camera system (optional)  
↳ No foreign light influence

**On the electrical side**

- Use of standard components  
↳ Minor store keeping
- Control consisting of PLC and operation panel OP  
↳ Simple menu-driven operation
- Memorizing of up to 32 test programs into the camera system and PLC  
↳ A large range of products variety may be run with one orientator
- Change of the test program by means of the OP  
↳ Ease of product changeover, short-termed adapting
- Modular structure  
↳ Low cost investment
- High-speed camera system (optional)  
↳ Angle detection at up to 300 products/min with a precision higher than + 1 degree
- Statistical functions as follows: number of the orientated products, number of errors, total time of automatic operation  
↳ Reliable documentation for example concerning maintenance cycles, interlinking of production data acquisition (optional)
- Image memory of the last eight pictures  
↳ Easy analysis in case of malfunction
- Backup program for the safeguard of the test programs  
↳ Simple data backup of the camera system
- Fault detection of fallen or false products (optional)  
↳ Automatic rejecting prior to the orientator
- Test programs may be generated by oneself (optional)  
↳ Low subsequent costs in case of introduction of new products

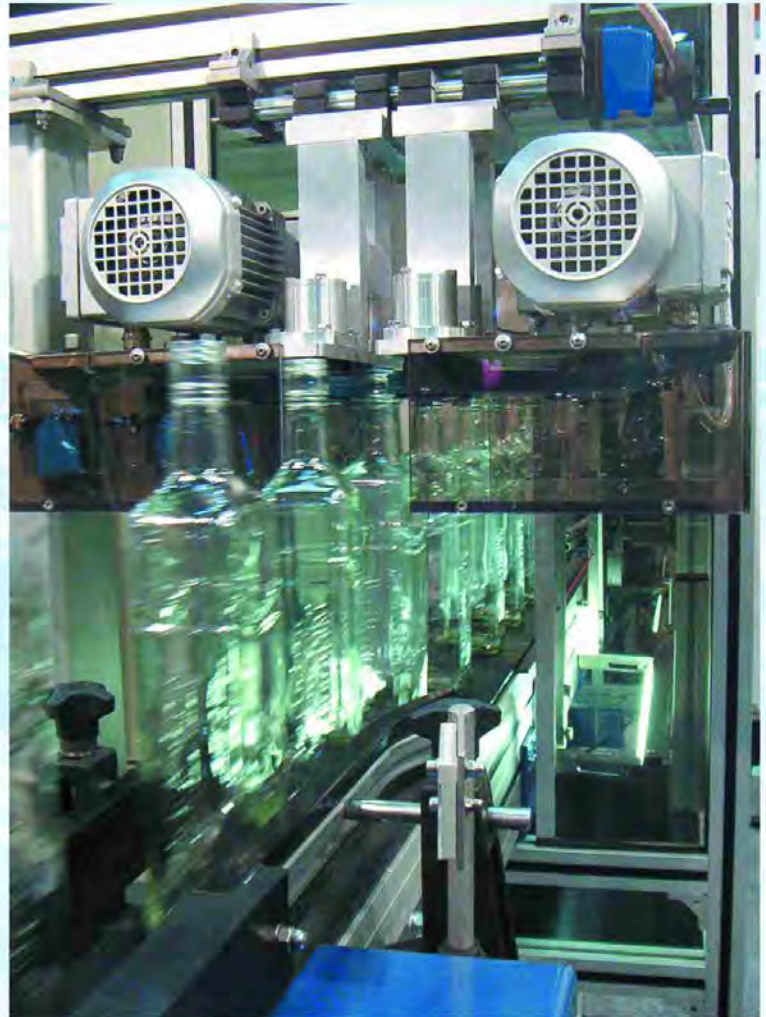




# PRODUCT DETECTION ORIENTATION

## We many offer as well:

- Generating of the test programs
- Availability 24 hours a day / 7 days a week
- Remote maintenance of the control
- Remote maintenance of the camera system



From the start of the mutual planning through final commissioning and thereafter, an experienced team of engineers and technicians is always at your disposal.

*We produce complete conveying systems for the beverage-, food-, dairy-, cosmetic-, pharmacy-, paint and lacquer industry.*

*Please, request for our special catalogues!*

## A reliable and flexible team with qualified dialog partners



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