

REFERENCES

Here you will find a selected number of our customers.



JORGENSEN ROBOTIC SYSTEM

Jorgensen Engineering a/s
M.P. Allerups Vej 20
DK-5220 Odense SØ
Denmark

Tel.: (+45) 63 13 22 11
Fax: (+45) 63 13 22 22
E-mail: jorgensen@jorgensen.dk
www.jorgensen.dk



JORGENSEN ROBOTIC SYSTEM

New robotic concept coming up with innovative ideas.

■ The concept consists of one or more robotic stations each having a vision system both supervising the production and detecting faults. Each station, which can make up to 120 picks per minute and the belonging inspection is configured to the major control system that coordinates and optimises the entire production flow.

The new handling concept opens the gates to a variety of applications such as efficient simultaneous packing of product with a quick changeover time to another product mix.

Short changeover time on product change and large flexibility on product choice are some of the main advantages. More over, the new robotic system allows a much bigger product variety compared to the traditional and mechanical systems on the market.

The new robotic system from Jorgensen sets a new standard

within safety, hygienic design and cleaning-friendliness. The construction minimizes the risk of loose parts, etc. falling down in the product resulting in disastrous consequences. Finally the modular principle makes it possible to fit the capacity to the future needs and it can easily be integrated to the existing lines.

BENEFITS

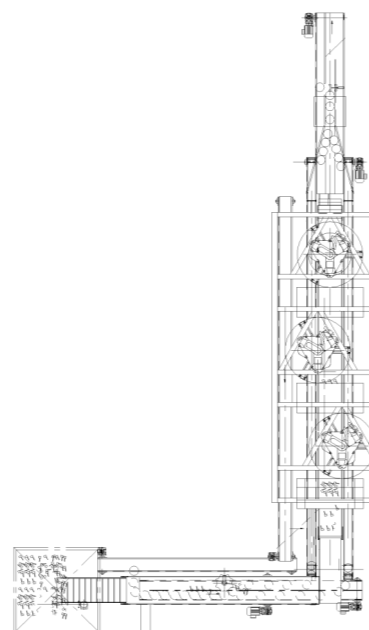
- Picks and places items like scoops, cans, cups, cartons and stand-up pouches
- High speed and accuracy – up to 120 picks per minute
- Control system coordinates and optimizes the entire production flow
- Modular structure ensures flexibility and quick changeover
- Reliable and safe operation



The flexible system handles up to 120 picks/min. per robot with all kinds of packages, scoops etc.

PROCESSES

- A** Complete robotic system
- B** High capacity robot for baby food line
- C** Scoop handling "policeman" inserting to both sides
- D** Scoop infeed and scoop return
- E** Reliable scoop inserting in can
- F** Control system
- G** Vision camera system
- H** Can reject system



CASE: ABBOTT LABORATORIES

■ Abbott Laboratories, one of the world's leading health care producers with more than 90,000 employees, chose Jorgensen to deliver a complete can packaging line – from depalletizing of empty cans to palletizing of finished product (infant formula and scoops).

SYSTEM DESCRIPTION

The system consists of three robotic stations placed in a row – physically integrated in a stainless steel construction and electronically in a major control system. Each robot has its own vision system with camera, connected to the control system and thus provides efficient and reliable identification and control of the scoops. The robot is continuously being informed about the exact position of the scoop. By means of especially developed suction cups, the first robot inserts the scoops in the cans on belt one. The next robot and the

vision system insert the scoops in cans on belt no. two similarly. By means of sensors the exact speed of the cans on both conveying belts is indicated so that the robots can coordinate the scoop insertion.

The third and last station is the "policeman" of the system. The vision system checks the two outer conveying belts for cans without scoops. The last robot is able to carry out the scoop insertion to both sides. Cans without scoops, which might pass the last robot, will be detected by the fourth and last video system and the can will at once be rejected from the process on a chute. This means a system, which by 100% guarantees an end product including the vital scoop. The max. capacity for the entire robotic system is approx. 350 scoops/cans per minute, handling 7 different kinds of cans and 4 different kinds of scoops.

