



**APPLICATIONS FOR  
THE USE OF COBOTS IN THE  
PACKAGING INDUSTRY**



# ROBOTISING

The robotization of the labour market has been on the move for a number of decades and in recent years it has taken refuge.

More and more companies have been able to take advantage of the latest automation possibilities by streamlining processes and reducing production costs. New in the world of automation are collaborative robots. Robots that collaborate with people and employees can avoid heavy, dangerous or boring work. Also in the electronics industry a cobot can be of great value and therefore this whitepaper with applications of cobots in the automotive industry.

# THE COBOT

## Robotics

### @ your service

## What is a cobot?

Before we move on to the applications of a cobot in the manufacturing industry, we first explain to you what a cobot exactly is.

The name cobot is an abbreviation of collaborative robot. A robot that collaborates. Not with other machines, but with people. An affordable solution to automate processes and support employees.

Cobots are small in size, can be deployed in different places, are able to perform various tasks and above all they are safe.

## What can a cobot do?

A cobot can perform a variety of tasks. The programming is easy for everyone thanks to software and apps. By having the cobots perform a number of actions manually, these are stored in the included software. The robots will always perform their tasks in the same way, with the same power, which ensures consistency in quality. The tasks that cobots perform are repetitive actions and are often experienced by people as mind-numbing and boring. By relieving employees of these actions, they can do what they are really good at. They are able to get the most out of themselves, do more creative work and develop themselves.



## How does a cobot work with people?

The cobot is equipped with sensors. As soon as a cobot is touched it will stop the actions it was performing. They are also equipped with a safety stop to switch them off immediately. This makes it possible for a cobot to physically work together with people in a shared workspace. Employees could therefore perform work together with a robot or where the robot takes over part of the process.

# APPLICATIONS OF A COBOT IN THE PACKAGING INDUSTRY

## Pick & Place

Almost all applications for cobots are variations on Pick & Place tasks, for example placing products from or on a conveyor belt, filling boxes or crates, declaring products in an assembly line and in combination with a smart gripper and/or vision system, the cobot can sort products.

## Palletizing

Packing and palletising can be made easier, faster and more efficient with a cobot. By automating the packing and palletizing of your products, you lighten the work of your employees. No more heavy lifting and repetitive work for them. The cobot reduces rising costs of new product packaging and shortened product lifecycles by quickly switching to new tasks or products.

## Bin Picking

Bin Picking: a new development in the field of robotics. A robot arm is set up in such a way that it picks unsorted objects from a bin.

In addition to the normal pick and place tasks, the cobot can be used to pick unsorted objects from a bin and place them where necessary.



# TEACH ME

ANYTHING





## ADVANTAGES OF USING COBOTS

Productivity within the manufacturing industry has increased steadily in recent years. One way to increase productivity is the use of cobots. Cobots, or collaborative robots, are robots that collaborate with people in a shared workspace.

There are 7 advantages of cobots and automating processes.

# THE 7 ADVANTAGES

## Compact

Cobots are small, compact robots and can therefore be used almost anywhere in a production process without taking up too much space.

## Mobile

Cobots are not heavy and easy to move. Mounted on a moving workbench, they can easily carry out new tasks anywhere within a company.

## Installation and programming

A cobot is easy to install by anyone and easy to program. With handy apps and software for smartphone and desktop, a cobot is rapidly operational.

## Flexible

A cobot can easily learn new operations and is therefore able to work at different places in the production process.

## Consistent and precise

Cobots always perform actions with exactly the same force. This ensures the same quality and precisely positioned parts.

## Positive effect on employees

Employees are spared monotonous or dangerous actions and are enabled to develop themselves by doing more creative work.

## Reduction of production costs

The use of cobots streamlines processes and increases production. Ultimately, this leads to a better operating result.





## MORE INFORMATION?

Would you like more information about working with cobots and applications for the packaging industry? Feel free to contact us!

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