

Press release

Ergonomically correct container unloader improves both the work environment and the efficiency on a globalised market

All over the world employees have – until now – had to struggle with the hard and wearing work of unloading containers. But with the automatic container unloader Empticon® one man can unload a container without lifting one single carton himself!

The globalization creates new demands

The globalization increases the pace and quantity of goods, and typically unpalletized cartons arrive at the companies' distribution centers. The heavy work with lifting the cartons out of the containers have until now had to be carried out manually – with great health risks as a result. Now a container can be unloaded without putting strain on the employees.

The heavy lifts are handled using a wireless control desk

With the Empticon the heavy and undesirable lifts are history. The Empticon is controlled by one single operator, who controls all the functions of the machine with a light and handy, wireless control desk fastened around the waste. Even the workstation is ergonomic, and the operator can work standing up as well as sitting down.

Working all day long

Both in- and outside of the EU authorities focus on the ergonomically problems connected with the manually unloading of containers. It is not atypical to have a 40' container with 1000 cartons weighing 12.5 ton in total. If 3 employees unload this in a couple of hours, they have actually exceeded the limit of what they are allowed to lift in a whole day. This means that they are not to be strained in physically for the rest of their workday. With the Empticon the employee can work a whole day at the same workstation without any problems.

600 cartons per hour

When the container is ready to be unloaded, the operator starts the Empticon and navigates the gripper towards the first cartons. The gripper has sucker, which by means of vacuum moves the cartons onto the lifting conveyor. After a short training period and a little practice an operator can attain a capacity of 600 cartons per hour, when unloading regular cartons. The Empticon can handle a package weight of up to 40 kg. The machine makes it possible to handle the main part of the cartons arriving from e.g. the Far East.

The Design Award 2007

The Empticon from UNIVEYOR has been developed in cooperation with CPH Design, who is behind many projects that have achieved great work environmental breakthroughs. The Empticon has won the Danish Design Center's Design Award 2007 on the following grounds:

"Never seen before, strong functionality, thoroughly tested in practice, innovative, good solution to work place problems, operation friendly, ergonomic and efficient".

Tested in real life

During the development process five Danish distribution centers, each day receiving and unloading many containers, have followed the project and have had great influence on what demands the machine is to live up to.

Intelligent logistic and handling

UNIVEYOR supplies intelligent logistics- and handling solutions ensuring our customers to be efficient and able to deliver to their customers. Our customers come from a wide variety of industries. Therefore, we are constantly challenged and inspired to develop new and innovative solutions. We have a strong team of committed and experienced experts ensuring that UNIVEYOR sets the agenda in terms of the use of the newest technology.

Further information:

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