



Lifting to Empower

Sack Depalletizing with Cobot Lift

Depalletizing Solution

Difficulty on finding manual labour?

Cobot Lift has launched a solution that allows companies to shift sack handling tasks from manual to a fully automated process.

Our brand-new Vision-guided Depalletizing Solution enables higher accuracy while handling different sizes/shapes of any heavy sacks.

We make sure your workers go home the same way they arrive for the daily shift job. In addition, light reactive sensors provide precision picking by mapping out a pallet layer, identifying individual sacks, dimensioning and picking at any position making it ideal for both Stationary and Mobile installations.

Our goal

Is to support manufacturers in providing a healthy working environment for their staff.



Adaptability,
flexibility, and safety



No more ergonomic
injuries



Zero industrial
installations



Lifting capacity from
10kg to 45kg



Process monitoring
system - real time
production insights



Palletizing &
Depalletizing
automation



Benefits

Precision

Detects sacks of varied sizes and shapes accurately.

Positioning

Precise grip no matter the position of the sack.

Rugged Camera

Can handle dusty and moist environments.



Fully Customizable

Easy and adaptable to your needs.

Installation

Knowledge and support provided by Cobot Lift.

Remote Access Point

Enables remote manipulation of Robot and camera.

Heavy gripping with soft touch!

Thinking about the main challenges our customers face with material handling tasks, we have developed a state-of-the-art gripping technology that allows robots to grip anything regardless of material and/ or surface type.

Through our unique Gripping Technology, more than 100 different surfaces of sacks can be lifted, even the ones with labels. Moreover, our technology is dustproof, with consistent grip strength, no lost payloads and no marks on your products.



Vision System

Innovative sensing solution for modern automation. Cobot Lift's integrated vision solution depalletizes various sacks regardless of content, sack material, colour or print. The camera takes snapshots of the pallet before every pick identifying the next sack to be picked, pinpointing, and accurately gripping in the product.

This rugged and robust vision component works in dusty environments and even in low light conditions, giving accurate distance measurements and consistent picking.



Why a Camera + 3D sensor?

- Reliable volume determination for storage and conveyor technology.
- Non-contact dimensioning of rectangular objects such as cardboard packages or parcels.
- Reliable measurement of height, width, and length to calculate strap length and volume.
- Accurate detection of size, orientation, and position of objects for automated storage space planning.
- Flexibility in switching outputs and Ethernet process data interface.



Support

Take advantage from our full remote support access point.

Significant part of all support cases can be resolved with remote access directly to the Robot. We provide infrastructure for worldwide remote support with our team. Our Technician has live access from Robot's control screen to help customers during and post- installations with the goal to achieve ultimate Robot operations optimization.

Bundle Depalletizing System	Bundle Depalletizing System
	Components
	Stationary Cobot Lift
	Camera solution with initialization for Cobot Lift and 5 hours free tutorial and training etc. is incl.
	Cobot Lift Sack gripper
	Flex joint
	Light tower (siren) + cables incl. Programming
	Operator start button with 10 m cable - incl. programming
	1 year remote access subscription, operational dashboard, incl. 5 hours virtual support
	Collaborative Robot (e.g. UR10e) - Not included / It has to be purchased separately
	Optional for Sack Depalletizing Solution
	Food contact approved foam for sack gripper
	Upgrade to large air filter

* It is possible also to use the Sack Depalletizing Solution as a custom made solution or with the Mobile and Cobot Lift Solution. Please contact us if you have a specific project where you consider such a setup instead

** The large air filter is helpful if you often see sacks with holes in. By using the large air filter the system can handle more holes in the sacks before the filter has to be cleaned.

*** The sack depalletizing solution with the Stationary Cobot Lift is CE marked. Please note an overall Risk assessment of the complete installation & integration at a site is not included.

**** Cobot Lift quality calibration sheet, Camera template program with standard dimensions inserted, Robot template program is incl. in the solution. Mounting bracket for camera (14MM shaft) is not incl. in the installation.



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