fruitcore robotics

POWERED BY

SICK
Sensor Intelligence.

HORST

Ready to use

VARIOBOTIC
VarioShaker 270

Solution Kit Part Separation
Flexible part seperation
with HORST, SICK PLOC 2D and VarioShaker
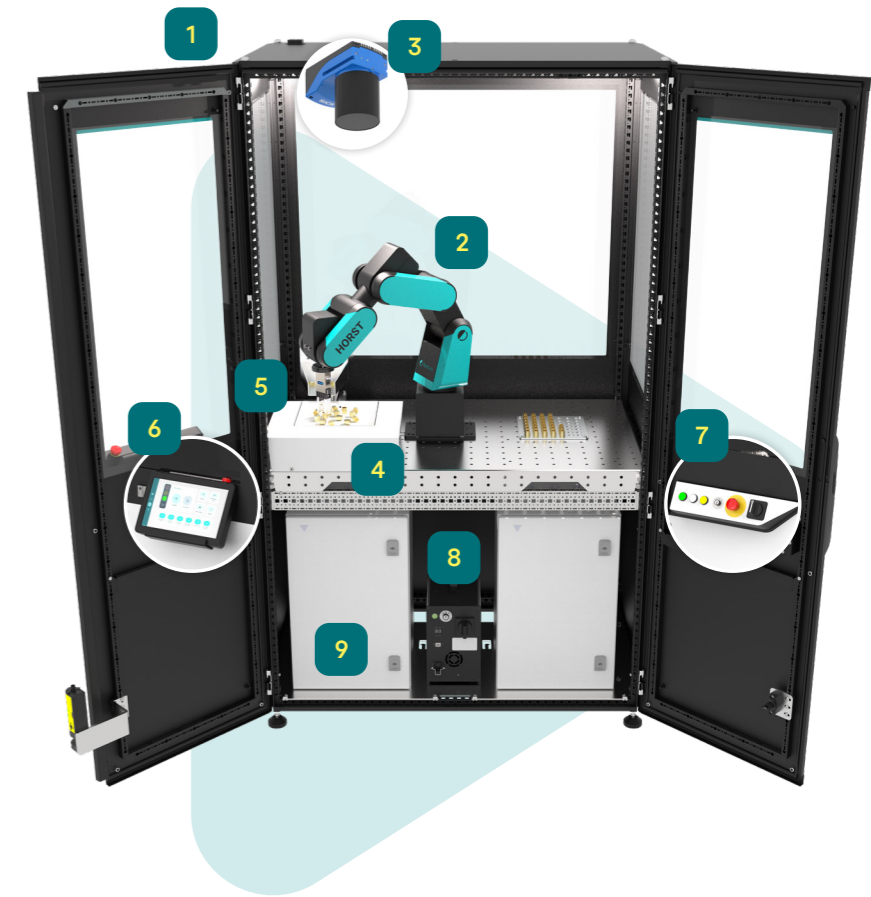
Flexible Part Seperation

The Part Separation Solution Kit offers you a flexible and powerful solution for separating bulk goods from a single source. The SICK PLOC 2D robot guidance system used enables reliable and fast localization of parts. With the parallel gripper used, the parts can be gripped and processed flexibly. The automation module is delivered to you fully assembled and CE-certified. Thanks to the modularity of the horstCUBE robot platform, it can be easily integrated into an existing process.

Ready to use

With this Solution Kit you receive:

1. Robot platform horstCUBE with safety lock
2. Digital Robot HORST600
3. SICK PLOC 2D camera
4. Feeding and singulation system
5. Electric parallel gripper
6. Operating device "Panel"
7. Operator console
8. Control system "Control"
9. Peripheral switch cabinets

Your benefits

Free feasibility analysis

We would be happy to advise you on the use of the Solution Kit in your project. We carry out feasibility analysis in advance on a fully assembled setup.

Simple and reliable

The PLOC 2D offers intuitive software with which new components can be set up in less than 15 minutes, even without prior knowledge. Setup is carried out centrally via the robot panel - without the need for an additional PLC.

Cost control and predictability

With the Solution Kit Part Separation, you can start your automation project with calculable costs. Thanks to standardization, the Solution Kit Part Separation is available with short delivery times.

Pre-assembled and pre-configured

The Solution Kit is delivered fully assembled mechanically and electrically. The entire process flow is pre-configured via software and can be customized in a few steps.

Specification of the application

Component specification	5 - 50 mm / 5 – 200 g
Setup of new parts	Approx. 15 minutes for complete setup of a new component
Part variance	The setup is optimal for singulating components that can be clearly identified based on their outer contour
Achievable cycle time	Up to 5 seconds

Further details

Dimensions	1120 x 900 x 2060 mm
Total weight	approx. 400 kg
Components	HORST600, horstCUBE robot cell with SICK flexlock solenoid interlock, operating console, SICK PLOC2D robot guidance system, Varioshaker 270 or 540, 5L, 10L or 25L vibration hopper and SCHUNK EGP-40 parallel gripper

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The Digital Robot Platform of fruitcore robotics offers you all modules for optimal automation, from project planning to ongoing operation. It includes not only industrial robots, but also a central control software, pre-configured automation modules and supporting services.

You benefit from:

- Highest economic efficiency due to minimal acquisition and maintenance costs with a long service life - usual ROI in less than 6 months

- Highest flexibility through quickest and easiest set-up as well as programming without coding expertise - reprogramming and new programming of the process in less than 60 minutes

- Highest efficiency through the simplest and fastest project planning with patented preconfigured automation modules - only 15 % of the usual effort compared to standard market integration

The Digital Robot Platform of fruitcore robotics makes it easy for you to implement camera-based quality inspection, machine loading and unloading, dosing and gluing, flexible parts separation and pick and place processes.

Version: V240404