



Solution Kit Part Separation

Flexible separation of bulk material

with HORST, 2D Grasping-Kit and Flexibowl

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The Part Separation Solution Kit offers you a flexible and powerful solution for separating bulk material. Thanks to AI software, the SCHUNK 2D Grasping Kit allows complex parts to be precisely localized and their orientation to be detected, even in changing light conditions. With the EGK gripper, the parts can be gripped variably and inserted into a machine tool, for example. The CE-certified automation module arrives fully assembled and can be easily integrated into an existing process thanks to the modularity of the horstCUBE robot platform.



Your advantages at a glance



Free feasibility studies

We advise you on the use of the Solution Kit in your project and carry out feasibility studies in advance on a fully equipped setup.



Easy and reliable

Even complex parts with variable surfaces can be taught in quickly without prior knowledge. The AI software from SCHUNK reliably recognizes the parts in the process, even under changing lighting conditions.



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.

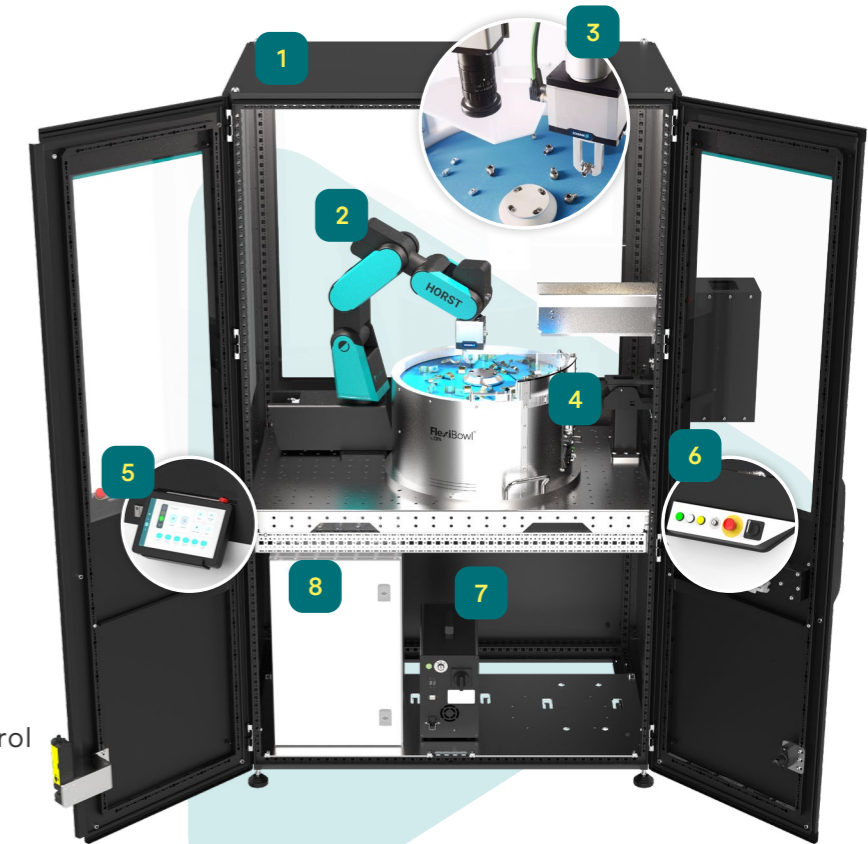


Preassembled and preconfigured

The Solution Kit is delivered mechanically and electrically fully assembled. The complete process sequence is preconfigured and can be customized in just a few steps.

With this Solution Kit you will receive:

1. Modular robot platform horstCUBE with safety lock
2. Digital Robot HORST600
3. SCHUNK 2D Grasping Kit consisting of camera, EGK-25 gripper and industrial PC
4. Flexibowl 500 with 10L vibration hopper
5. Operating device "Panel"
6. Operating console for process control
7. Control system "Control"
8. Control cabinet for peripherals



Specification of the application

Specification of bulk material

5 - 50 mm / 5 - 100 g

Setup of new bulk material

ca. 15 min for training the AI (plus model calculation by AI)

Part variance

Separating, recognizing and gripping different parts from one bulk material

Bulk material supply

Parts can be filled into the vibration hopper from outside the horstCUBE

Realizable cycle time

up to 5 sec

Further details

Dimensions

1510 x 900 x 2060 mm (incl. 400mm vibration hopper)

Total weight

ca. 400 kg

Components

HORST600, horstCUBE robot platform with safety lock & operating console, Flexibowl 500, vibration hopper 5L and SCHUNK 2D Grasping-Kit incl. EGK-25 gripper



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.

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fruitcore robotics GmbH
Macairestraße 3
78467 Konstanz/Germany

fruitcore-robotics.com
+49 (0)7531 97624 36
horst@fruitcore.de

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