

Press Release

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Flexible solution for vision-based part separation

fruitcore robotics and SCHUNK present new Solution Kit Part Separation with 2D-Grasping Kit

Germany, Constance, February 20th, 2024 – With the new Solution Kit Part Separation with 2D Grasping-Kit, the partners fruitcore robotics and SCHUNK present an efficient and powerful solution for the fast and flexible automation of separation processes. The automation module sets a new standard for the vision-based separation of non-layered workpieces.

The Solution Kits from fruitcore robotics offer industrial companies flexible and economical automation without a great deal of effort or training. Especially tailored to production scenarios such as machine tending and part separation, the automation modules contain all the components required for the respective application. The fully coordinated and validated Solution Kits ensure rapid project planning and implementation without the need for in-depth consideration of safety issues or extensive cost calculations.

For companies facing the challenge of handling unsorted parts in a box in an uncomplicated and flexible way, the Solution Kit Part Separation offers an optimal solution. The new variant with the SCHUNK 2D Grasping-Kit significantly strengthens fruitcore robotics' Solution Kit portfolio. It covers a wide range of components that can be processed within one configuration.

Automated for an optimum grip

The Solution Kit Part Separation with 2D Grasping-Kit combines the AI-supported industrial robot HORST600, the 2D Grasping-Kit from SCHUNK including the mechatronic small parts gripper EGK and the part separator FlexiBowl and enables the vision-based automation of separation processes. These processes can be highly complex, especially when it comes to localizing different types of components or changing lighting conditions. The use of the 2D Grasping-Kit in the fruitcore robotics automation module simplifies the separation of parts, even with changing requirements. The integrated 2D Grasping-Kit comprises a camera system with lens, an industrial PC, the SCHUNK AI software and a plug-in for easy integration into the robot controller. It localizes different types of components and detects their position and orientation in order to grip and process them as required. For example, if the robot is to grip components with transparent outer packaging (e.g. screws and nuts in a plastic bag), the intelligent AI software from SCHUNK ensures reliable recognition of the components during the process.

Central process control via horstOS

Like all Solution Kits from fruitcore robotics, the Part Separation Solution Kit with 2D Grasping-Kit is characterized by its user-friendliness. Both experts and beginners can quickly commission and customize the automation module without in-depth specialist knowledge. This is made possible by preset parameters and the seamless integration of all components in horstOS, the AI-supported operating system from fruitcore robotics, horstOS, acts as a central control point through which users can intuitively manage the control of robots, components such as the 2D Grasping-Kit in the Solution Kit Part Separation and existing industrial processes. The AI Copilot assistance function makes operation much easier by providing contextual support.

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Press Release

Meta-Title: Efficient solution for flexible part separation: fruitcore robotics and SCHUNK present new Solution Kit

Meta-Description: Find out more about the innovative Solution Kit Part Separation with 2D Grasping-Kit from fruitcore robotics and SCHUNK. Automate your separation processes quickly and flexibly.

Keywords: #PartSeparation #Automation #2DGraspingKit #IndustrialRobot #RobotVision #AI

Social Media: fruitcore robotics and SCHUNK present the new Solution Kit Part Separation with 2D Grasping-Kit. The innovative automation module ensures fast and flexible automation of separation processes. The combination of the AI-supported industrial robot HORST600, the 2D Grasping-Kit from SCHUNK and the FlexiBowl part separator enables reliable detection and handling of a wide variety of components, including difficult ones.

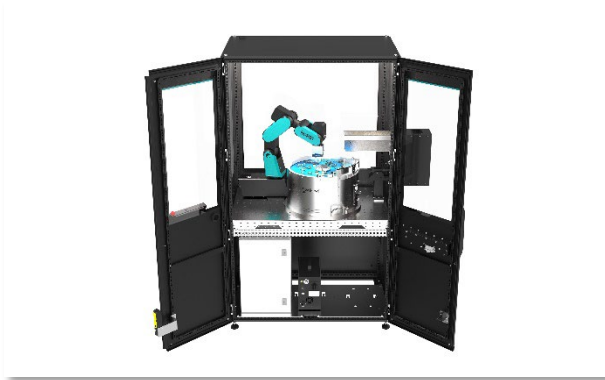
Image material

(Preview, will be provided separately in better quality)



Caption: Solution Kit Part Separation with 2D Grasping-Kit: new automation solution for vision-based part separation with the AI-supported industrial robot HORST600, the SCHUNK 2D Grasping-Kit and the FlexiBowl parts separator.

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Caption: The use of the 2D Grasping-Kit in the fruitcore robotics automation module simplifies the part separation, even with changing requirements and lighting conditions.

About fruitcore robotics

With its Digital Robot Platform, fruitcore robotics offers all the building blocks for automation in industry - from project planning to ongoing operation. At the heart of the Digital Robot Platform are the industrial robots HORST, developed in-house and optimized using AI. The product portfolio includes three models of the HORST digital robot with a reach of 600 - 1,400 mm and a payload of up to 12 kg. In addition, the holistic approach of the Constance-based company includes central AI-supported control software for the rapid implementation of simple and complex applications, pre-configured automation modules and supporting services. The robot systems are made in Germany and include numerous patented innovations, above all the robot gearbox invented by fruitcore robotics.

fruitcore robotics was founded in 2017 and currently employs about 100 people. In addition to its headquarters in Constance at Lake Constance, the company has another production site in Villingen. The deep-tech company has received several awards, including the Best of Industry Award from MM Maschinenmarkt magazine in the Robotics category (2020), the special prize from Mittelständische Beteiligungsgesellschaft Baden-Württemberg (MBG), which was awarded as part of the 2020 Innovation Prize of the state of Baden-Württemberg, and the German Innovation Award 2021 ("Winner" in the Excellence in Business to Business - Machines & Engineering category). Further information can be found at <https://www.fruitcore-robotics.com/en/>

About Schunk

Hand in hand for tomorrow: Shaping the future with innovative technologies - that is SCHUNK's claim. To this end, the experienced automation and production specialist is driving forward the further development and digitalization of its product and service portfolio in order to make industrial processes more efficient, transparent and sustainable. The owner-managed family business, headquartered in Lauffen/Neckar, is a global leader in clamping technology, gripping technology and automation technology. Around 3,700 employees in 8 plants and 34 subsidiaries as well as sales partners in over 50 countries ensure an intensive market presence.

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