**Press release**

**Schmalz Solution Kit enables bin picking at record speed**

Schmalz accelerates reaching into the box. Behind this is a solution kit that connects various software and hardware components so that robotic cells see and grip faster and communicate with higher-level systems. What this can look like is demonstrated by the Pick Accelerator, which achieves top performance thanks to the ivOS Pick-and-Pack solution kit. The system will be presented for the first time at this year's LogiMAT.

Schmalz takes bin picking to a new level. In order to perfect the interaction between gripper, robot, camera and picking software, the handling experts have developed the Schmalz Solution Kit, whose highlight is the open operating system ivOS. With the kit, suppliers of robotic cells - be they machine builders or integrators - receive a plug-and-work technology solution that can be quickly integrated into any bin-picking application. At the same time, the system is so flexible and open that automators can still adapt it to customer-specific requirements at any time. The complete engineering package supplied supports them in this - it includes all CAD data, circuit diagrams, technical layouts and much more.

In addition, gripping technology, 3D vision sensors and a specific software configuration are part of the solution kit on request. Likewise, by integrating various interfaces, Schmalz enables communication to warehouse management systems and to various protocols, for example, to exchange data in real time. The idea behind the Solution Kit is not limited to one application scenario. In addition to the bin picking application, Schmalz is working on other picking variants.

**2,700 picks per hour**

Schmalz shows how the bundle can work with its Pick Accelerator. Schmalz developed a pilot application as the first use case. The technology group Körber integrated this robot cell into the existing logistics system at Schmalz's headquarters. In it, two robots manage 2,700 picks per hour - that's picking at record speed. The robots work simultaneously and can change grippers within a second, depending on whether boxes, vials or bags are to be handled. Two 3D cameras look into the box after each pick, and the pick software analyzes this input, calculates and controls the next grip. For the best pick, the system has several gripping algorithms available in parallel. The energy supply system is integrated into the gripper, which reaches into every corner of the crate with its five axes. As important as the individual components are, the dynamic interaction and flexibility is only made possible by the Schmalz Solution Kit ivOS Pick-and-Pack - through the unique interaction of innovative gripping technology, modern 3D sensor technology and the latest algorithms for gripping point determination.

For the first application, Schmalz relied on the expertise of Körber's supply chain experts. Together with Schmalz, they realised the conveyor connection of the robotic picking cell to the existing logistics system and the integration of the cell into the material flow control software for the pilot application. This makes Körber the first integrator to successfully install the ivOS Pick-and-Pack Solution Kit. Körber will continue to work closely with Schmalz as a sales and integration partner for bin picking applications.

(3. 328 characters incl. spaces)

**Meta-Title:** New Technology Platform: Schmalz Solution Kit directs and integrates

**Meta-Description:** Dynamics booster: The Schmalz Solution Kit combines different software and hardware components so that robot cells can see and grip faster and communicate with higher-level systems.

**Keywords:** Schmalz; Schmalz Solution Kit; ivOS; robotic cell; bin picking; pick accelerator

|  |  |
| --- | --- |
|  | **Image:**  The Pick Accelerator manages 2,700 picks per hour under the guidance of the Schmalz Solution Kit ivOS Pick-and-Pack. |

Image: J. Schmalz GmbH

**Company**

Schmalz is the market leader in vacuum automation and ergonomic handling systems. Schmalz products are used all over the world, for example in applications in the logistics industry, the automotive industry, the electronics sector or in furniture production. The wide range of products in the Vacuum Automation unit includes individual components such as suction cups and vacuum generators, as well as complete gripping systems and clamping solutions for holding workpieces, for example in CNC machining centers. The Handling Systems unit offers innovative handling solutions with vacuum lifters and crane systems for industrial and handicraft applications. With the Energy Storage unit, Schmalz has created a new pillar in the field of stationary energy storage.

With comprehensive consulting, a focus on innovation and first-class quality, Schmalz offers its customers long-lasting benefits. Schmalz’s intelligent solutions make production and logistics processes more flexible and efficient, while also preparing them for the increasing trend toward digitalization.

With its own locations and its sales partners, Schmalz is represented in more than 80 countries and in all important markets. The family owned company has around 1,800 employees at its headquarters in Glatten (in the Black Forest region of Germany) and its 30 subsidiaries worldwide.

**Contact for questions**

J. Schmalz GmbH

Marketing Communication

Johannes-Schmalz-Str. 1

72293 Glatten, Germany

T: +49 7443 2403-506

F: +49 7443 2403-9506

[presse@schmalz.de](mailto:presse@schmalz.de)

[www.schmalz.com](http://www.schmalz.com/)

**Further press releases are available on our web-site**

[**https://www.schmalz.com/en/company/schmalz-news/press-releases/**](https://www.schmalz.com/en/company/schmalz-news/press-releases/)

**Reprint free of charge – Please forward a copy**