**Presseinformation**

**June 2024**

**Safe and precise handling of round battery cells**

With the new SGM-SV-BY magnetic gripper, Schmalz presents a solution for the accurate handling of uncharged and charged round battery cells with a diameter of 46 millimetres. The gripper guarantees a high level of process reliability even in the event of a power failure.

Precision, safety and efficiency are crucial in the production of battery cells. The exact positioning and handling of the cells, the avoidance of short circuits and reliable automation are essential for the high performance and reliability of the batteries.

Schmalz has developed the new SGM-SV-BY magnetic gripper especially for handling round battery cells. It ensures reliable handling even in fast pick-and-place processes thanks to its high holding forces. The bistable permanent magnet retains the magnetic position of gripping or depositing even in the event of a power failure. This minimises the risk of cell loss and significantly increases operational safety.

The magnetic gripper is designed for handling round cells with a diameter of 46 millimetres and different heights. It can pick up the workpieces from both the top and bottom. This means it can be used flexibly in cell production and module assembly.

**Precise positioning**

The gripping elements of the SGM-SV-BY are made of a special insulating plastic. This ensures safe contact and significantly reduces the risk of short circuits when handling charged cells. Guide grooves ensure exact positioning of the cells. This high precision when gripping is particularly important in order to be able to process the components correctly in subsequent production steps. The gripping elements are easy to replace and are available with a different number of guide grooves.

To further increase process reliability, the magnetic gripper is equipped with sensors that monitor the presence of parts and the switching status. This means that the user always has the handling process under control and can minimise errors and interruptions.

#### *(2,204 characters incl. spaces)*

**Service for the editorial team:**

**Meta-Title:** New magnetic gripper handles round battery cells

**Meta-Description:** Schmalz presents the new SGM-SV-BY magnetic gripper, which enables precise and reliable handling of uncharged and charged round battery cells with a diameter of 46 millimetres.

**Social Media:** Discover the new SGM-SV-BY magnetic gripper from Schmalz. It is perfect for the precise handling of uncharged and charged round battery cells with a diameter of 46 millimetres. Even in the event of a power failure, the gripper ensures maximum process reliability.

**Image:**

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|  |  | **Image:**  The SGM-SV-BY magnetic gripper enables reliable handling of round cells, even in fast pick-and-place processes. |

Images: J. Schmalz GmbH

**About the company**

Schmalz is one of the market leaders in vacuum automation and ergonomic handling systems. The internationally positioned company's products are used in logistics applications as well as in the automotive industry, the electronics sector and furniture production. The broad spectrum in the vacuum automation business field includes individual components such as suction pads or vacuum generators, complete gripping systems and clamping solutions for holding workpieces, for example on CNC machining centres. In the Handling division, Schmalz offers innovative handling solutions for industry and trade with vacuum lifters and crane systems. With the Energy Storage business area, the company is establishing a further mainstay in the field of stationary energy storage systems.

The combination of comprehensive advice, a strong focus on innovation and first-class quality ensures sustainable added value for customers. Intelligent solutions from Schmalz make production and logistics processes more flexible and efficient - and at the same time fit for advancing digitalisation.

Schmalz is represented in all major markets with its own locations and trading partners in around 70 countries. The family-owned company, headquartered in Glatten in the Black Forest, employs around 1,800 people at 31 locations worldwide.

#### Contact for Questions

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