

SPIDER Series

Robotic case packing



Are you open to integrating another competitive edge in your company? Robotic case packing solutions add flexibility, versatility and speed to your case packing process. It is the most accurate way of packing your product into various secondary containers.

The Spider series is best in class in (vision guided) robotic case packing solutions. The in-house designed high-performing BPA robots have multiple axes, are equipped with our high speed collation systems and can perform on-the-fly picking and placing; both vertically and horizontally.

As with all other BPA solutions, we ensure full product monitoring before the product enters the case packer. This guarantees a highly accurate pick and placement of your product. Many reputable customers around the globe have opted for the Spider robotic solutions designed and developed by BPA.

With the introduction of the “Flex-Frame” concept, Spider solutions can be easily configured to comply with your specific application and needs.

Markets

- Snacks
- Confectionery
- Personal & home care
- Ice cream
- Dairy
- Bakery
- Dry food
- Pet food
- Frozen food
- Fresh produce

Different machine types

• Spider 100

The Spider 100 fully automates bag handling and horizontal loading process into secondary containers, such as cases, trays and crates. It includes BPA's robotic platform provided with dedicated handling parts to match your specific application, including our patented SmartTrak system for high speed bag pre-collation and end-effector. The smart construction of this system significantly simplifies changeovers.

• Spider 100i

The Spider 100i combines horizontal case and tray loading with an integrated RSC case erector and top and bottom taper.

• Spider 200

The Spider 200 fully automates bag handling and the vertical loading process of secondary containers, such as cases and trays.

• Spider 200i

The Spider 200i combines vertical case and tray loading with an integrated RSC case erector and top and bottom taper. With a four-point changeover in under five minutes, Spider200i gives you more versatility. It allows you to run various product sizes and case types to be run on the same packaging line including RSC, reusables and display cases.

• Spider 300

The Spider 300 enables you to pack flexible bags into cases, trays and crates, both vertically and horizontally. The process of this machine is as quick as it is innovative, and offers you a great deal of flexibility and versatility. For horizontal packing, products are picked up by the Spider robot and placed directly into the case. For vertical packing, the bags are pre-grouped on an acceleration conveyor by the Spider robot. Once the row of bags is complete, it's accelerated into the cassette, which is controlled by a Gantry system. After the full case load is placed in the cassette, the Gantry system moves above the case or tray and releases the bags vertically into the case. This seemingly simple process is an excellent result of technical ingenuity. Every aspect of the Spider 300 is aimed at enabling you to maximize efficiency in your case loading process.

Vision Guided Robotics

Vision Guided Robotic solutions are rapidly transforming production processes around the globe. BPA is a leading designer and manufacturer of these systems. Compared to regular robots, Vision Guided Robotics increase versatility and simplify implementation. They also reduce the costs and complexity of fixed tooling often associated with the design and setup of robotic cells.

Vision Guided Robotics solutions have integrated cameras, providing a secondary feedback signal to the robot controller. The signal informs the robot where products are on the infeed conveyors. This adds to greater efficiency and reduces error rates, especially in environments where products are introduced randomly. Furthermore, high performance special cameras can also do quality checks, as they can verify dimensions, angles, color and surface structure.

• Spider V series

Our full Spider series can be delivered with our in-house developed vision systems. By adding our vision technology on the product infeed, you add maximum flexibility, reduce different format parts and optimize the up-time of your case packing process. The variety of flexible bagged products and secondary cartons, cases or containers that our Spider V series can handle are endless, whether you need to pack them horizontally or vertically.

• Spider Q series

The Spider Q series represents a fully integrated vision guided case packing system. It is a collective name for our highly versatile, ultra-compact and flexible case packing solutions, available in various executions. The Spider Q series lets you process a large variety of cases and bags at a high production speed and a very compact footprint. It consists of a mono block frame design, that integrates a full option packing process. That process starts with bag quality checks and ends with a checked, filled and closed case as output.

The Spider Q series also features a single HMI in which all controls are integrated. This significantly reduces human effort and increases overview of the system. Changeovers to other recipes are exceptionally easy as well, as 90% of the changeover settings are fully automated, reducing typical changeover time into a less than ten minute effort.



Packaging specifications

Package

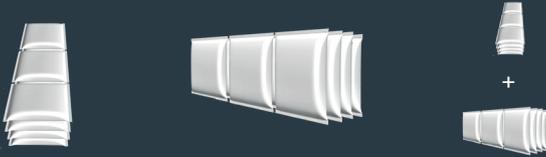


Container



The BPA Spiders solutions can be used for many different applications, product, containers and packaging styles. To judge if your packaging challenge can be solved by one of the many BPA Spider solutions, please contact one of the BPA specialists at sales@blueprintautomation.nl (all countries except for North and South America) or sales@blueprintautomation.com (North and South America).

Pattern horizontal, vertical, both



Main characteristics

- Modular and open design to create maximum flexibility for customized solutions
- In-house designed high performing delta robotic systems with a wide range of single and multi-pick heads systems
- In-house vision technology
- Minimize footprint and optimize plant lay out through mono block systems with fully integrated case & tray erectors and closers & lid applicators
- Remote access for efficient and quick online support

Options

- Case or tray forming systems
- Case or tray closing system
- Lid applicators and stacking edge closers
- Plastic container de-stacking and stacking systems
- Missing bag and open case detection with reject
- Integrated bag inspection and reject systems (open bags, X-ray, metal detection, check weighing)
- Bag merging systems (infeed from multiple bag makers)
- Special feeder systems for handling WIP products
- Water cleanable IP56
- Layout specific up- and downstream product and case handling systems

Contact us today

As every production environment is unique, every organization requires a tailored solution. Challenge us and put our experts to the test, to devise the solution that fits your process like a glove. Contact us today!

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40+ years experience



international presence



flexibility and innovation



market specialist



frozen food and snacks market leader