

Technical Data	
Product orientation:	Head/foot leading at infeed
Production speed:	up to 900 stacks/h (product permitting)
Product format (stacks):	A5-A4 Pick-Up: min. 180 x 145 mm (7,08"x5,7"); max. 350 x 250 mm (13,77"x9,84") (min. 145 x 145 mm / 5,7"x5,7" possible with special short stamp) A3 Pick-Up (Optional): min. 340 x 180 mm (13,38"x7,08"); max. 500 x 315 mm (19,68"x12,4") (min. 340 x 145 mm / 13,38"x5,7" possible with special short stamp)
Stack height:	min. 50 mm (1,96") (pressed); max. 300 mm (11,81")
Height difference of the stacks:	max. 20 mm (0,78")
Stack weight:	max. 25 kg (55,11 lbs)
Product format (logs):	min. 145 x 145 mm (5,7"x5,7"); max. 480 x 320 mm (18,89"x12,59")
Log length:	800 - 1.200 mm (31,49" -47,24")
Length difference of logs:	max. 30 mm (1,18")
Log weight:	max. 150 kg (330,69 lbs)
Paper weight:	35 - 140 g/m ²
Palette size:	800 x 1.200 mm (31,5"x48"), Optional up to 1.200 x 1.200 mm (48"x48")
Palette height:	1.500 mm (59,05")
Palette weight after palletizing:	max. 1.000 kg (2204,62 lbs)
Palette type:	wood or plastic
Slipsheet format:	min. 970 x 680 mm (38,18"x26,77"); max. 1.200 x 800 mm (47,24"x31,49")
Slipsheetmagazine height:	max. 50 mm (1,96")
Slipsheet material:	Paper or cardboard
Infeed height:	850 - 900 mm (33,46" -35,43")
Voltage:	18 - 30 kW (depending on configuration), 3 x 400 V AC + N + PE 50/60 Hz (other on request)
Color:	Light grey, RAL 7035

Changes to the technical specification are possible to a limited extent. For complete technical data, see data sheet.

Optimized palletizing for all applications

Base models	Robots	Pick-up stations	Palletizing places	Products
SP/500	1	1 - 2	1 - 2	stacks / logs / stacks & logs
SP/1000	2	1 - 2	1 - 2	stacks / logs / stacks & logs

Performance & reliability - end-of-line automation with robots!



SP/500
SP/1000

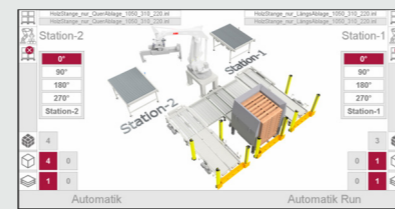
Palletizing

Palletizing robot

It is becoming increasingly difficult to find employees for monotonous tasks such as manual palletizing. In search of a reliable workflow with higher productivity, more and more printers are turning to robotic palletizing. Robots reliably automate simple handling tasks. They are very flexible and can be used in different configurations to meet a wide range of requirements. The SP/500 and SP/1000 palletizing robots are optimized for end-of-line automation behind web presses and in the bindery. They handle stacks and/or logs, which are picked up by a gripper and securely placed on pallets which are consistent in stability and quality.

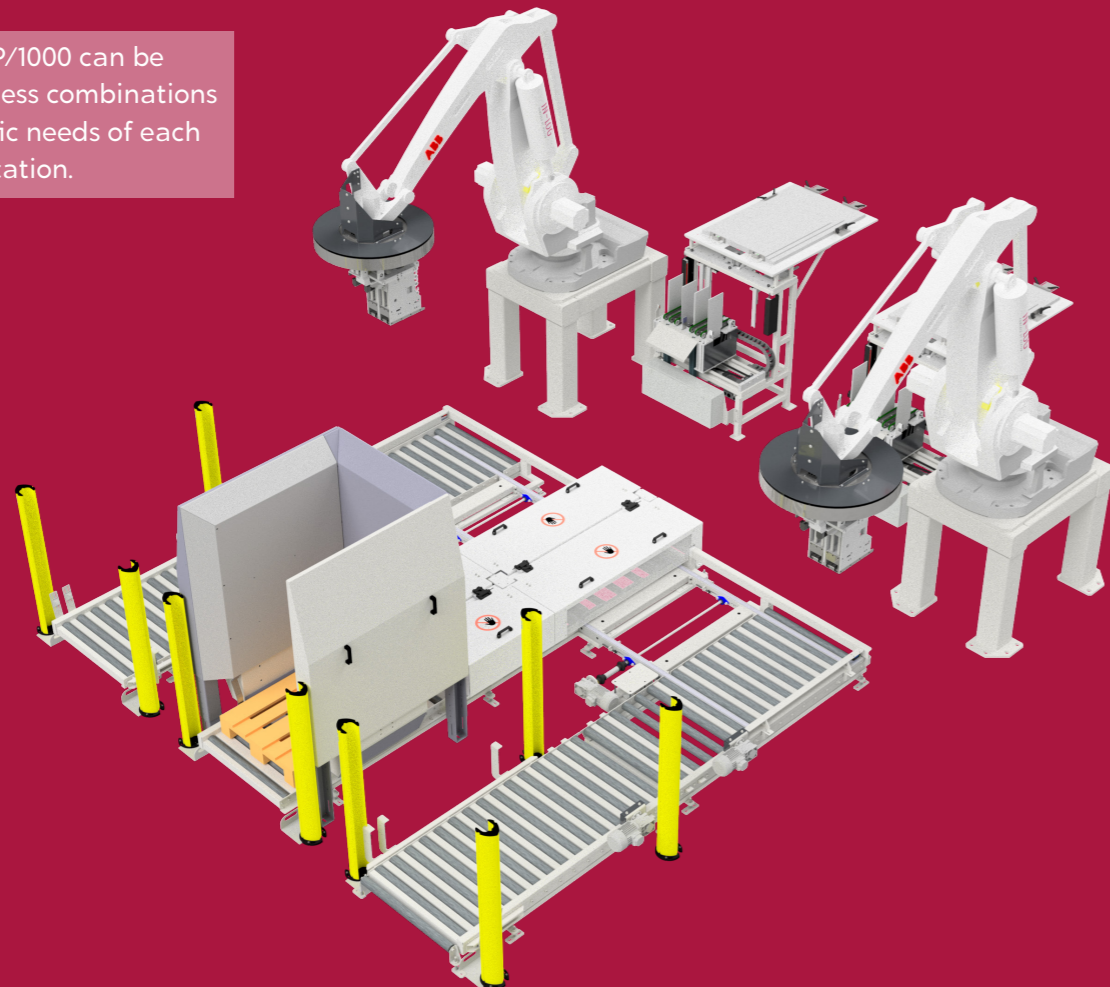
Unique benefits

- ▶ Unique reliability based on proven industrial robots and standard palletizing software
- ▶ Highly flexible configurations – 1 to 4 infeed lines, 1 to 2 pallets and with 1 or 2 robots
- ▶ Intelligent speed management, up to 1.800 bundles per hour in high-speed configurations
- ▶ Safest handling of loose bundles combined with flexible palletizing patterns
- ▶ Stable pallets of superior quality for stacks & logs
- ▶ Multi-product operation with automatic gripper exchange for the handling of logs and stacks
- ▶ Variable pallet conveying for different pallet types & sizes
- ▶ Additional buffer places for full and empty pallets (option)
- ▶ Standard palletizing software with several smart options, including flexible slip sheet handling, "2 on 1" palletizing, log rotation on x- and y-axis, order down- & up-load to ERP

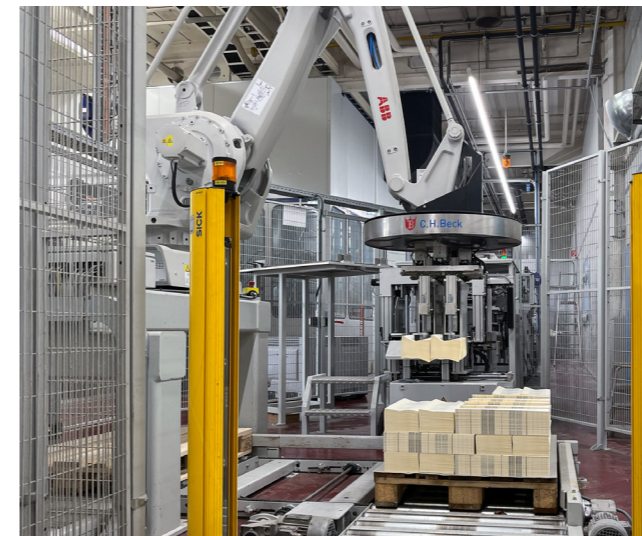


3D, graphic operator interface

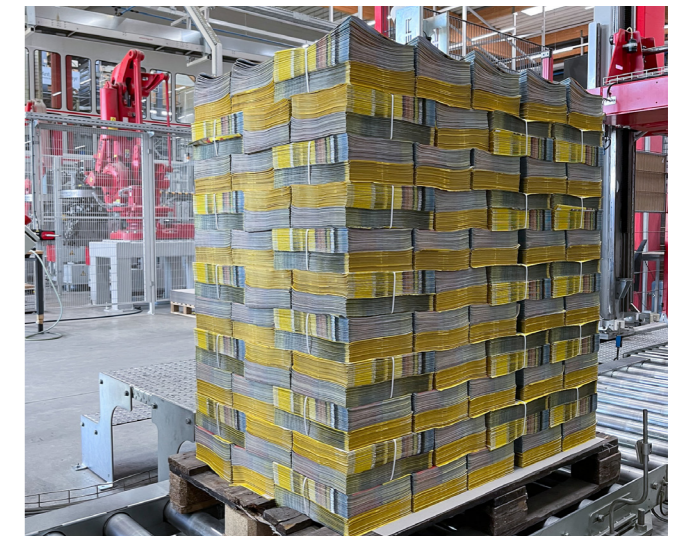
The SP/500 and SP/1000 can be configured in endless combinations to meet the specific needs of each project and application.



At the end of a post press line we need to palletize stacks and/or logs coming from one, two or even more lines. Our modular palletizing solutions are designed to meet all of these needs – they range from simple palletizing of loose, strapped or film wrapped stacks from one line onto one pallet to complex configurations where two stack lines and two log lines are palletized onto two skids, either with one or with two robots. The productivity of robotic palletizing is further enhanced by automatic pallet handling for all types and sizes of pallets. All our robots are equipped with intelligent software. In addition to operation and visualization, the software will also allow the definition of individual palletizing patterns with flexible definition of slip sheet placement. Do you need to execute palletizing orders according to the sequence defined in the ERP system? The optional order management software interfaces with your scheduling software, downloads palletizing orders and executes them in the specified sequence on our robots.



▶ Robotic palletizing of stacks is most commonly seen in retail and newspaper applications. But bundles can also be the best option for book printers, for example in ultra-short run production. The SP/100 robot safely palletizes loose and strapped bundles of various sizes. Pallet handling is fully automated for a highly efficient workflow.



▶ Whether the pallets are shipped to customers, used on inserters, or moved internally, beautiful and stable pallets have great benefits, such as safe transportation, minimized risk of damaged copies and better product presentation. In addition, the robot can palletize more layers compared to manual process.



▶ Our palletizing robots are versatile and reliable. They palletize loose & strapped bundles, and logs coming from a log stacker such as the SH/700. The logs are picked up from the delivery table and safely placed on the pallet according to flexible patterns. The logs can all be in the same orientation, or can be palletized „criss-cross“ to give the pallet more stability. Pallet handling is fully automated for a highly efficient workflow.



▶ Whether the pallets are shipped to customers, used on inserters, or moved internally, beautiful and stable pallets of consistent quality have great benefits, including safe transportation, minimized risk of damage to copies, and better product presentation. In addition, quality pallets with rows of straight logs can be easily stacked for more efficient use of floor space.