

Stacking signature packages autonomously.
Stahlfolder P-Stacker.



The revolution in postpress.

Automated, precise, more productive.

Did you know that the operator of a folding machine in the industrial sector stacks a signature package approximately every 12 seconds? In total, he moves up to 7 tons of paper per shift – more than the weight of a large elephant. With the Stahlfolder P-Stacker, you lift your operator's workload and thus use the full potential of your highly productive folding machine.

Addressing the staff shortage

The Stahlfolder P-Stacker is the technological answer to the shortage of skilled workers in postpress. The autonomous stacking system relieves the operator physically, which increases employee satisfaction and health. The increased attractiveness of the workplace at the folding machine due to state-of-the-art robot technology makes recruiting easier. In addition, the number of staff can be reduced because several folding systems can now be operated with just one operator.

Increasing productivity

At the same time, the Stahlfolder P-Stacker is integrated as an important service module in the folding machine network and contributes to higher overall equipment effectiveness – for two reasons: Firstly, the average performance of the folding machine increases, because the Stahlfolder P-Stacker easily keeps up with the most productive folding machine in the long term, even at full performance. Secondly, more of this performance also extends to the pallet, because non-productive times that were previously unavoidable, e.g., for shift changes or logistics, can now take place during ongoing production.

Technologically at the forefront

True to the motto: „Setting as if done by human hands“ – nothing was left to chance when developing the Stahlfolder P-Stacker. This means that all features and processes were inspired by bookbinding movements that have been typical so far. In addition, the system can be perfectly integrated into common postpress operations. This starts with the transfer of the signature package to the robot, where an additional joggling process ensures that the packages are precisely aligned. Like the folding machine, the robust industrial robot also meets the requirements for high technical availability and long service life – even in multi-shift operation. The gripper fixes the packages in a force- and form-fitting manner and holds them securely and without marking, even at maximum speed, in order to then place them gently and precisely on the pallet with minimal spacing. A pneumatic plunger reliably prevents individual sheets from slipping, even in the case of signatures with steep spines. Just like the human thumb would otherwise do. The automatic turning of signature packages for optimal preparation of the downstream process step is also possible, as is the automatic insertion of intermediate

layers. All in all, simply a coherent overall system that performs with almost no human intervention.

Seamless integration into the machine network

The Stahlfolder P-Stacker stacking system is suitable for both the buckle and combi folding machines of Heidelberg. Moreover, folding machines from other manufacturers can also be equipped with it. The only requirement is a palamides alpha hd delivery. The optional delivery system Flex supports the fold type changes, so that you get the highest flexibility in combination with the P-Stacker.

Intuitive graphical user interface

In the case of format changes, the adjustment of almost all manipulated variables is set fully automatically. The graphical user interface of the tablet control panel enables a simple, intuitive input of makeready parameters such as job format, deposit pattern or pallet size easily and intuitively. For the deposit patterns, simply

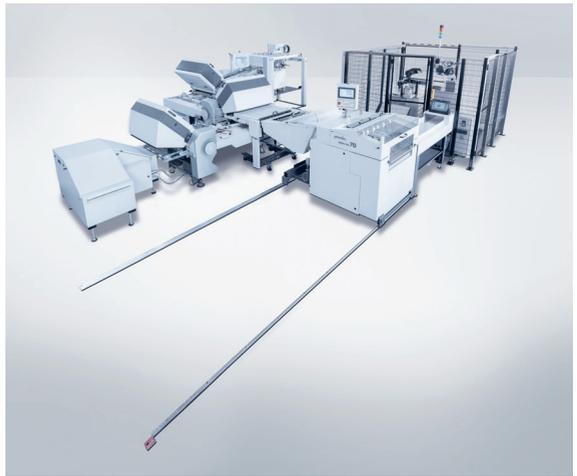
choose from the numerous pre-installed deposit patterns or you can order your very own deposit pattern, which can be uploaded via the existing remote connection.

The most important advantages at a glance

- Powerful industrial robot
- Automatic format size adjustment of the innovative gripper
- Simple operation using tablet control panel
- Automatic input of intermediate layers by the P-Stacker as required
- Optional turning of the signature packages for optimal preparation of the downstream process¹
- Correctly sorted setting of different jobs on one or two pallets, ideal for small runs¹



Absolute freedom for the operator:
Automated insertion of intermediate layers
by the Stahlfolder P-Stacker



The delivery system Flex enables fast fold type changes by simply moving the delivery on the rail system on both buckle and combi folding machines.

¹Optional feature

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