



Focus on flexibility. **Stahlfolder TH/KH.**



A partnership that pays off. Heidelberger Druckmaschinen.

The key to your success lies in the coordinated interaction of people, processes, materials, and machines. We are a reliable and competent partner for all your printing needs. Our user-friendly systems, customized products, and innovative services deliver maximum production quality, make controlling complex processes easier, and help you to avoid errors – all along your production chain. The result: efficiency at the touch of a button. We call it Simply Smart. The advantage for you: simpler and more productive processes thanks to an intelligent, comprehensive, and integrated portfolio optimally tailored to your needs.

➔ heidelberg.com/company



Our areas

E

Equipment

Rely on future-proof printing and further processing by combining digital and offset printing. Our portfolio for printing machines ranges from cutting-edge digital technologies and offset printing machines attractively equipped as standard to individually configured special machines for maximum productivity and every possible print application.

From prepress to postpress – we enable the entire printing process for commercial and packaging printing. Our machines are networked through the Prinect workflow and can thus exchange production data: for the sake of optimum processes and transparency. Make uncompromising quality your standard.

➔ heidelberg.com/en/equipment

S

Service

Our comprehensive range of services give you more time for the essentials. With our Technical Services we offer you fast, efficient, and reliable access to our expertise and all the original parts – our service technicians are always close-by. With our Performance Services we work with you to optimize your productivity in all areas of production. Our industry-specific solutions also make us a competent partner in financial matters.

➔ heidelberg.com/en/service

C

Consumables

You can rely on our know-how and coordinated materials for impressive results. We offer you various complete packages of consumables, allowing you to concentrate fully and entirely on your core competencies. With our online shop, we offer easy access unparalleled in the industry to all the products you need.

➔ heidelberg.com/en/consumables

Content

04

Stahlfolder TH/KH

06

Automation

08

20 clear benefits

10

The facts at a glance

14

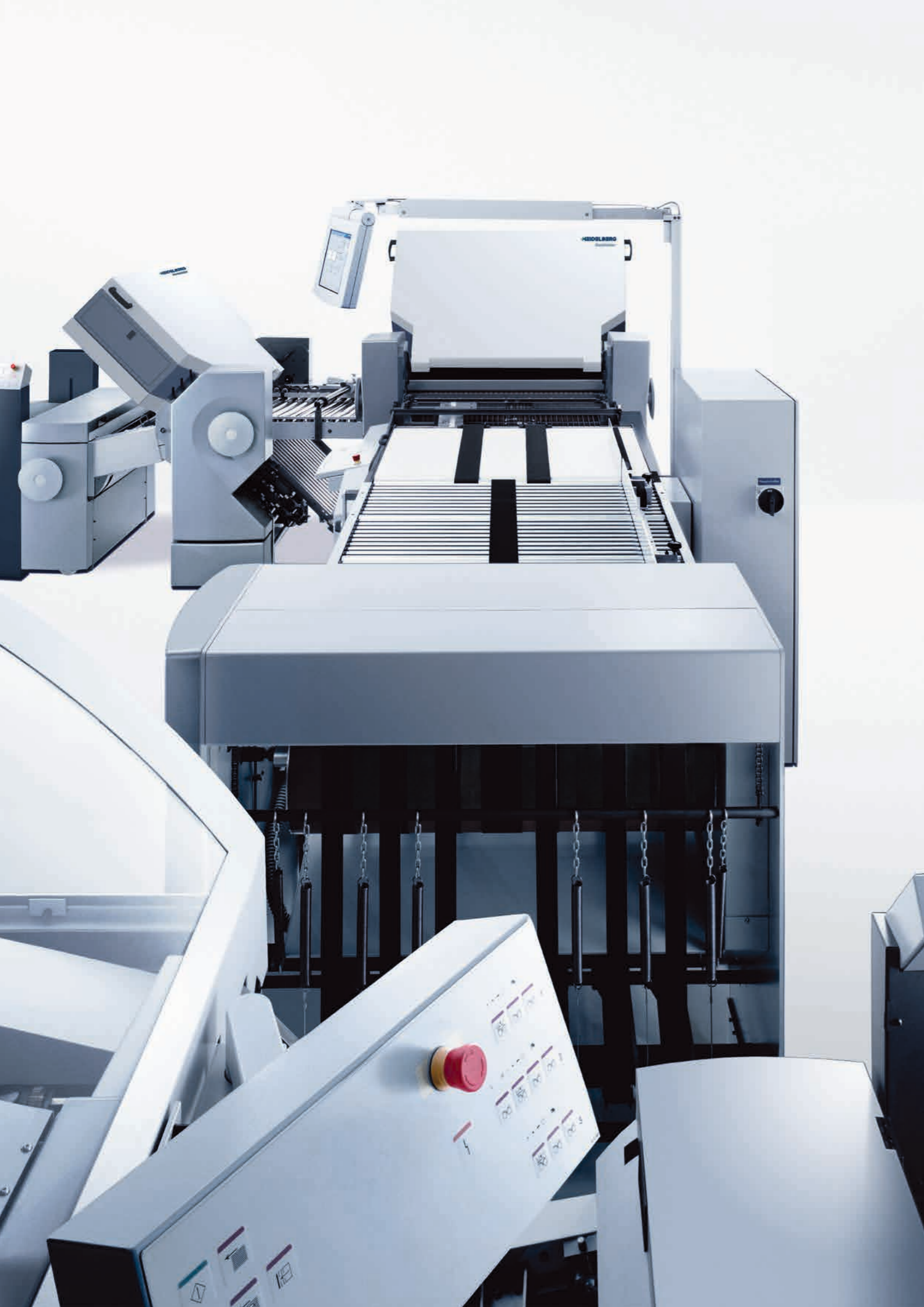
Cross-fold unit

16

Stahlfolder TH/KH 82-P

18

Applications



Maximum flexibility. Stahlfolder TH/KH.

Explore the full spectrum of folding with Stahlfolder® folding machines. Take advantage of the additional opportunities to sustainably expand your production range and successfully stand out from your competition with the flexible folding machines from the Stahlfolder TH/KH series.

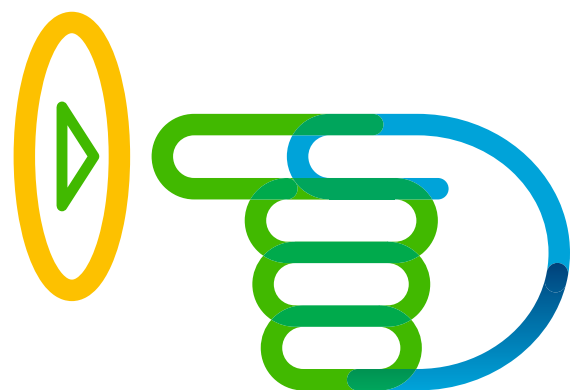
Our Stahlfolder TH buckle plate machines and Stahlfolder KH combination folding machines are consistently modular in design. This allows you to expand your range with specialized applications, to enter new areas of business, and to add more value as needed. This will ensure your success on into the future.

Regardless of the challenges presented by your folding jobs, you can rely on these machines. The high machine uptime of the Stahlfolder TH/KH folding machines will give you peace of mind when it comes to production planning. They handle different folding jobs economically and with short throughput times.

With a Stahlfolder TH/KH, you are investing in high productivity for a wide range of products. Extensive automation options and an ergonomic machine design simplify operation. The benefits for your production are process reliability and consistently high quality. That is a good thing. For you and your customers.

Shortening throughput times. Automation.

Automation guarantees you the shortest throughput times and easy operation when using Stahlfolder TH/KH folding machines. All machine settings are made conveniently on the touchscreen with just a few clicks. This minimizes unproductive machine downtimes.



Intelligent automation options reduce the need for manual intervention by the operator to a minimum. The make-ready process for all key variables is motor-controlled and precise. This means that even frequent job changes will not be at the expense of your profitability.

The operating concept is cross-platform, and intuitive thanks to its graphical interface. You control the folding machine using the clear touchscreen at the feeder. Additional control panels at all stations permit fast intervention at any time. The standardized makeready process minimizes downtimes, while QuickSetup mode only shows you the key makeready variables. This is how you shorten the time to a finished product.

The level of automation of your Stahlfolder TH/KH can be customized to your requirements. Full automation of machines offers quick and precise positioning of buckle plate stops and angles, roller gaps, and sheet stops in the cross-fold. Customizations can even be made on the fly.

Efficiency at the touch of a button.

Our innovative and intuitive operating concepts and the high level of automation offer you reliable performance and a noticeably reduced workload for your employees. For outstanding quality and productivity.



Production data can be accessed again at any time once saved, and repeat jobs processed more quickly. The transparency of your production can be increased even further with a connection to the Prinect® workflow. Operating data such as makeready time, output, and capacity can then be called up directly and used for product costing analyses.

Take the next step – towards an integrated, networked print shop and postpress workflow. We help you to meet all the specific challenges involved in print media production with automated processes and services.

➔ You can find more about the automation options of the Stahlfolder TH/KH here: heidelberg.com/en/th-kh

E

The integration of postpress:
Prinect – the integrated print and media workflow.

- Automation and control of the entire manufacturing process for printed products
- Fast and transparent processes thanks to the accurate collection of production data
- Automatic calculation of folding programs on the basis of digital prepress data for the reliable setup of folding machines
- Conversions and downtimes are greatly reduced
- Clear evaluation of machine efficiency in charts and tables

➔ heidelberg.com/en/prinect

Leader in postpress. 20 clear benefits.*



You can find more information about the economic benefits and high-efficiency advantages of your Stahlfolder TH/KH folding machines, such as operating figures, sample calculations, and application references here:

➔ heidelberg.com/th-kh/efficiency

Makeready

Up to

30 %



Reduced makeready times thanks to over

80

predefined folding layouts in the fold type catalog.

time savings when setting up the folding machine thanks to **automated setting** of folding rollers, slitter shafts, and buckle plate stops.

Faultless makeready with the make-ready assistant and standardized makeready process.

Use QuickSetup and just

4 clicks

to make all the required settings.

Up to

60 %

shorter setup time for the automated PFX pallet feeder.

Ergonomics

Easy access to the slitter shafts thanks to swivel-mounted stations and lift kit.

Up to

6

centrally positioned **control panels** reduce walking distances for the operator.

Ecology

Resume production with zero paper waste after interruptions to jobs.

User friendliness

Greater staffing flexibility thanks to the uniform, intuitive control concept.

Automatically controlled AirManagement at the PFX pallet feeder and AirstreamTable.



Availability

Processing of all fold layouts for **complete flexibility** in production planning.

Consistent performance thanks to regular service and maintenance.

Reduce **downtimes** to as little as

30 mins

with expert support.

Minimal machine wear thanks to automatic correction of incorrect operator input.

Productivity

Up to

40 million



folded sheets per year with the Stahlfolder TH/KH 82-P folding machines.

Fewer machine stops thanks to **reliable sheet feeding** with the PFX pallet feeder.

Sheet stop with absolute accuracy of position does away with the need for readjustment.

Increase in output of more than

50 %

without any change in machine speed.

Increase productivity by shingling the sheets over the entire machine cycle.

Stable folding production with the Stahlfolder TH 82-P of up to

16,000

sheets per hour.

* See reverse

Outstanding characteristics. The facts at a glance.

A machine concept with plenty of customized configuration options. Designed for superlative quality and featuring a high level of standard equipment. That guarantees reliable productivity in a wide range of tasks.



Equipment:

- Graphical symbols and standardized fold types for fast and intuitive setting of the machine
- Choose the correct feeder for the job structure: flat pile, round continuous, pallet, or PFX pallet feeder
- AirstreamTable for markless alignment and slip-free sheet transport
- Shingled folding of all folding layouts in all folding units of the Stahlfolder TH/KH 82-P folding machines
- Integrated pressing device for improved folding quality, stable production process, and precision pile formation
- Slitter shaft lift kit for ergonomic adjustment of the slitter shafts

Highlights:

- Top productivity and quality: highest output of 16-page signatures in portrait feeding and DIN A4 final format in the customary high quality
- Maximum versatility thanks to additional modules such as gate fold buckle plate and gluing attachment
- Economic production of all run lengths thanks to automation
- Modularity right up to custom configuration opens up additional opportunities for differentiation
- High planning reliability and availability, even with a wide variety of applications
- User-friendly operation with graphical control interface for staffing flexibility

→ You can find more about the details of the Stahlfolder TH/KH here: heidelberg.com/en/th-kh

S

Technical support online: Remote Diagnosis.

- Troubleshooting and user support online at any time
- Transfer of machine data as preparation for on-site maintenance assignments
- Accelerated support = shorter downtimes, faster resumption of production

→ heidelberg.com/en/diagnosis

E

The perfect printing solution: Speedmaster equipment.

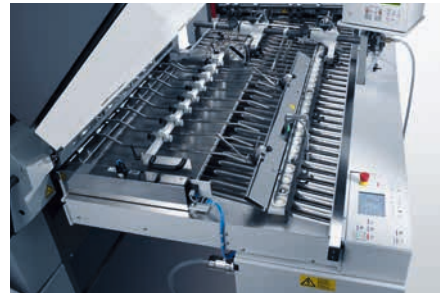
- Solutions for commercial printers, packaging printers, and specialists
- Preconfigured standard offset machines with attractive terms and conditions and fast delivery times
- Individually configurable machines
- Maximum productivity
- Consistent, simple operating concept
- Intelligent automation

→ heidelberg.com/en/equipment-speedmaster

This and all following information is dependent on the machine configuration, job structure, and organization of internal procedures. Some of the components mentioned are not included in the standard equipment.



SBP horizontal stack delivery with large capacity for medium to long runs.



Process two-ups with the pneumatic twin-lay device.



Easy access to the rear-mounted slitter shafts with the lift kit.



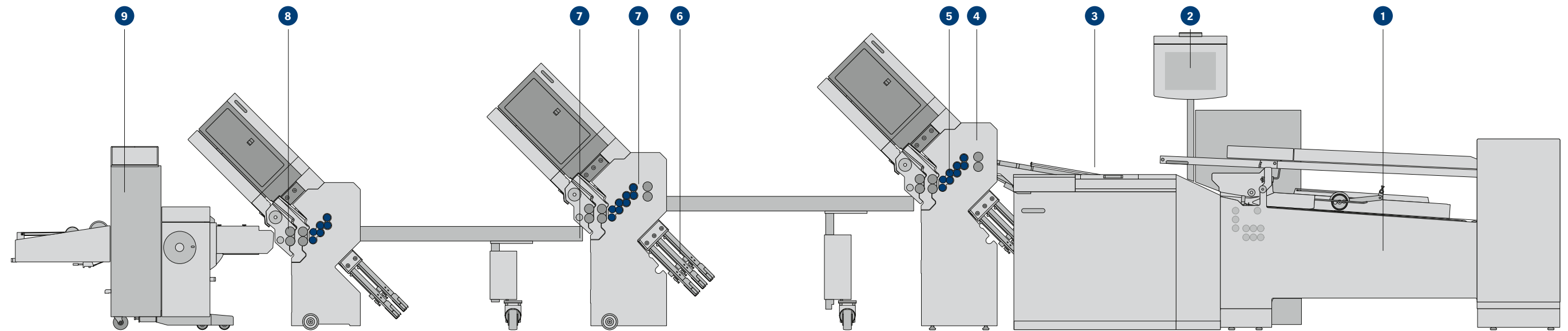
Increase value added with the gate fold buckle plate for challenging fold types.



Central control panel and AirstreamTable with prismatic guide for exact alignment of the sheets.



Flat pile feeder with Tremat for reliable sheet separation.



1 Feeder

With four feeder models right up to the high-productivity PFX pallet feeder, we have the perfect configuration for every requirement. The ball-free AirstreamTable ensures simple setup and markless sheet alignment.

2 MCT modular control system

The graphical interface makes for easy operation. The modularity of the control system enables the machine's functions to be extended by adding optional packages for special applications.

3 Accessories

Additional accessories such as a gluing attachment, water scoring system, print image and bar code recognition system, and sheet ejection system can be integrated at the AirstreamTable.

4 Folding units

Different working widths from 56 to 96 cm and coordinated buckle plate numbers (2-8) are available for buckle plate folding units one through four. Combination folder machines combine the principles of buckle plate and knife folding.

5 Folding rollers

The two models of the ExtraGrip folding rollers ensure markless sheet guidance: soft polyurethane for a wide range of different papers, hard polyurethane specifically for processing lightweight paper.

6 Buckle plates

Swing-deflector buckle plates offer high functionality. Combination buckle plates, combination buckle plates in comfort version, and motor-controlled combination buckle plates provide maximum flexibility. Special applications are possible with gate fold buckle plates.

7 Slitter shafts

Slitter shafts mounted at the front and rear of the folding unit permit other processes such as creasing, perforating, and cutting. The slitter shaft lift kit conveniently adjusts double rear-mounted slitter shafts to an ergonomically favorable working height.

8 Pressing device

The automated pressing device integrated into the roller frame improves folding quality for the subsequent stations and pile capacity.

9 Deliveries

The perfect delivery can be chosen for each configuration: different stream deliveries, SPH stream delivery with press function, SBP horizontal stack delivery, or the high-performance delivery palamides alpha hd.

→ You can find more about the technical data for the Stahlfolder TH/KH here: heidelberg.com/th-kh/technical-data

The machine shown is a sample configuration. Some of the equipment features mentioned are optional.

Peak performance in the smallest of spaces.

Cross-fold unit.

Count on an increase in productivity with tangible economic benefits for you. The cross-fold unit of the Stahlfolder KH folding machines not only offers faster makeready, but also improves your net output and shortens your throughput times. Day after day.

The cross-fold unit of the Stahlfolder KH folding machines offers you a real benefit when it comes to productivity. The fully automated model has the potential to significantly enhance your performance. The high level of automation of the Stahlfolder KH 66 and KH 82 places them among the machines with the fastest makeready on the market, for greatly simplified setup.

If necessary you can increase your flexibility even further with an integrated four-directional folding unit so that you can offer your customers fold layouts like the international quadruple fold.

The automated cross-fold unit of the Stahlfolder KH 66 and KH 82 folding machines guarantees you uncompromising quality and productivity in a wide range of applications. The continuous sheet stop ensures that the folded sheet comes to a controlled stop and that the lead edges of the sheet are not deformed. Additional guiding elements like the motor-controlled page stops, the tapes with format-dependent adjustment, and the pneumatically liftable cams at the front edge of the sheet transport the sheet with precision and prevent rebounding against the sheet stop.

The optional sheet ejection in the cross-fold unit prevents jams – an incorrectly folded sheet will be reliably detected and ejected without triggering the folding knife.



The manual model of the cross-fold unit of the Stahlfolder KH 66 and KH 78 has an impressively ergonomic design. All components are easily accessible, which makes fine adjustments much simpler. Settings such as the knife height and angle as well as the sheet and lateral stops can be adjusted on the fly without the need for tools

We offer you the right solution for every requirement with six different cross-fold units – from the KL with two folding knives to the complex KTLL cross-fold unit with three folding knives and integrated buckle plate.

➔ You can find more about the cross-fold unit of the Stahlfolder KH here: heidelberg.com/en/th-kh



Further training for practical success:
Training.

- Wide range of training programs for machine operators
- Knowledge acquisition about the latest technical developments
- Increased employee motivation and confidence
- Full exploitation of machine functions
- Maximum productivity and quality

➔ heidelberg.com/en/training

Benchmark in productivity.

Stahlfolder TH/KH 82-P.

The Stahlfolder TH/KH 82-P folding machines equipped with innovative folding units offer a clear benefit when it comes to productivity. The key point to understand here is that this increase in performance does not come at the cost of quality and process reliability.



The new Stahlfolder TH/KH 82-P folding machines promise increased productivity without any reduction in quality or process reliability. Their innovative folding units enable more sheets to be transported, without increasing the machine speed, thanks to shingled folding in all three parallel folding units of the Stahlfolder TH 82-P and the parallel and cross-fold unit of the Stahlfolder KH 82-P. This has two advantages for your production, which you can use as appropriate: firstly high-performance production of signatures without any reduction in quality, and secondly an increase in quality, e.g. when processing delicate papers, without having to accept any reduction in productivity.

To put a figure on it, you can produce 16-page A4 signatures in portrait alignment and more at an average speed of 16,000 sheets per hour. The standardized fold layout guarantees you complete flexibility in production planning. In addition, your operators are already familiar with the 16-page fold type and do not need any special training.

The right solution for every postpress requirement.

You are looking for reliable and cost-effective solutions for postpress. We have them.

How does that work? The innovative design of the folding units permits shingled folding of all fold types, enabling the infeed length to be reduced by up to half. While the PFX pallet feeder generates the shingled stream of sheets for the first folding unit, additional suction wheels perform shingling in the subsequent stations of the Stahlfolder TH 82-P. You can also fold the shingled stream of sheets in the cross-fold unit of the Stahlfolder KH 82-P and in this way increase your productivity.

You can increase your signature production by more than 50 percent in combination with the palamides alpha 500 hd high-performance delivery or a horizontal log stacker.

➔ You can find more about the Stahlfolder TH/KH 82-P folding machines here: heidelberg.com/en/th-kh-82-p



For value retention and maximum performance:

Service Agreements.

- Service agreements offer security and peace of mind, while at the same time providing you with the benefits of full cost control and simple administration
- Servicing by highly trained technicians
- Exclusive use of original service parts
- Protection of your machine investment
- Retention of a high resale value

➔ heidelberg.com/en/service_agreements

Applications.

Have-to-haves and nice-to-haves.



16-page DIN A4 – signature production at the highest level with the Stahlfolder TH 82-P.



Gate fold as end product – maximum flexibility for your added value.

Stahlfolder TH/KH folding machines offer impressively high modularity. This enables you to produce both standardized signatures and sophisticated fold types at a consistently high level. And thanks to the wide range of optional packages, these folding machines are also ideally equipped to master even your most challenging jobs with ease. Here are two examples of these jobs.

Signatures for book production are generally standardized and offer you very little scope for differentiation from the competition. One way to address this is by making a 16-page signature in DIN A4 final format from a 63 × 88 cm printed sheet with three three cross folds. Our Stahlfolder TH 82-P can produce this job for further processing on saddle stitchers or adhesive binders at speeds of up to 16,000 sheets per hour.

You can add value to your production with challenging fold types like the gate fold. The closed fold type with eight pages demands particularly high precision. With the Stahlfolder TH 66 and the additional gate fold buckle plate, you will be able to produce this job in 47 × 17 cm final format at a speed of up to 14,000 sheets per hour.

➔ **You can find more about the possible applications of the Stahlfolder TH/KH here:**
heidelberg.com/th-kh/user-reports

Simply get in touch.

Your dialog with Heidelberg.

You and your company's success are our prime focus. To be able to realize this ideal, it is important for us to know your wishes and requirements. Only then can we offer you a customized printing solution that works perfectly for you.



We look forward to hearing from you!

Get in touch with us for more information, a customized offer and everything else about Heidelberg and the Stahlfolder TH/KH folding machines you would like to know.

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For details on the emissions of the Stahlfolder TH/KH folding machines, please visit us at heidelberg.com/emissiondetails

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