

The new dimension
in die-cutting.

Mastermatrix 106 CSB.



Top-class die-cutting.

Mastermatrix 106 CSB.

The competitive pressure in the packaging market has intensified significantly as a result of developments in recent years, with globalization calling for greater flexibility, short response times and a high level of economic efficiency. Industrial packaging processing is not the only sector that experiences a constant conflict between short and long runs, frequent job changes, and ever-increasing demands on product quality.

The Mastermatrix 106 CSB is the perfect solution to meet these developments, because it provides exactly what you need: everything from efficient production of everyday packaging to postpress for unusual carton designs in top quality.

As the youngest member of Masterwork's range of die-cutters, the Mastermatrix 106 CSB has been specifically optimized for higher machine speed (max. 9,000 sheets per hour), greater productivity, and shorter make-ready times.

Thanks to the redesigned punching station (camshaft drive), sheet transport within the machine is improved and production can be carried out reliably at high machine speeds. In addition, the camshaft drive ensures greater plane parallelism in the platen and therefore shorter make-ready times.

In addition to its high machine speed, the Mastermatrix 106 CSB also focuses on short set-up times. To simplify set-up even further, some functions and machine elements are already motor-adjustable or are automatically moved into position for repeat jobs (e. g. masterset, sweep head adjustment). With the new optional QuickSet device, motorized format settings can be made in almost every machine station and the previously saved formats are automatically approached for repeat jobs. The machine's increased level of automation reduces manual work steps by the operator, thereby cutting set-up times.

In the area of the blanking station, the adjustment of the non-stop rake has been revamped. The new EasyRake makes positioning and fastening the individual rake swords noticeably easier. The result is a much more user-friendly and significantly shorter make-ready process.

The quick clamping system for punching plates offers a further function to reduce set-up time. Here, the thin cutting plates are simply clamped onto the cutting plate with an integrated quick-clamping system. This means that the cutting plates no longer need to be held in place with at least four screws.

In addition, integration into existing machinery poses no problem: die-cutting tools from different die-cutters can be used with a reasonable amount of effort.

The Mastermatrix 106 CSB has been thoroughly tested, and meets the stringent safety standards of the German professional association ETEM (Energie Textil Elektro Medienerzeugnisse). As a result, it bears the GS mark.

The Mastermatrix 106 CSB is manufactured by Masterwork, exclusively distributed by HEIDELBERG® and backed up by the professional and renowned, worldwide HEIDELBERG sales and service network.

➔ heidelberg.com/die-cutting



Highlights:

- Die-cutting platen press with camshaft drive
- Max. machine speed: 9,000 sheets per hour.
- QuickSet setup (option) – automatic format setting of various machine elements
- MasterSet for optical sheet alignment
- Cutting plate with quick-lock system
- Logistics system and non-stop system in the feeder (option) and delivery
- EasyRake for easier adjustment of the non-stop rake system in the delivery
- Sample sheet removal during production
- Folding carton production at the highest level
- Faster machine speed for greater productivity
- Intelligent solutions in all machine stations for short changeover times

➔ heidelberg.com/die-cutting

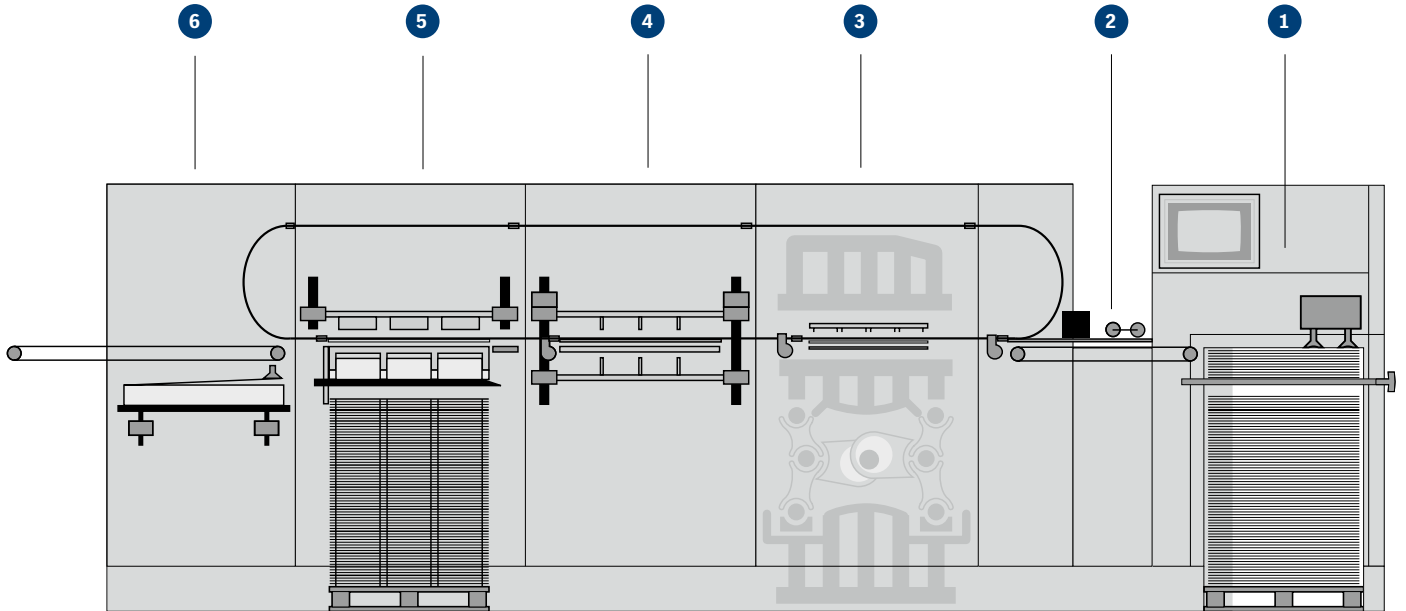


For value retention and maximum performance:

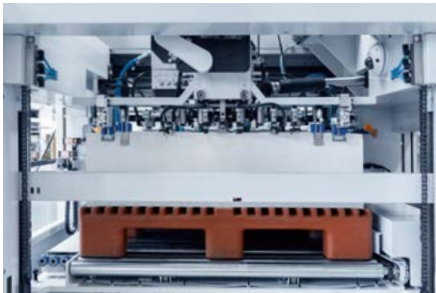
Service agreements

- 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/service-agreements



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



1 Non-stop feeder

- Automatic non-stop (option)
- Feeder logistics (option)
- QuickSet setup: automatic format adjustment of suction head and side stops
- Pneumatic jogger
- Mechanical double-sheet control
- Camera for checking the pallet entrance (option)



2 Feed table

- MasterSet optical sheet alignment system
- Central adjustment of the rollers and brushes
- Ultrasonic double-sheet control
- QuickSet setup: automatic and motorized format adjustment of the MasterSet sensors and the rollers and brushes on the belt table



3 Die-cutting station

- Cam drive
- Cutting plate with quick-lock system
- Cutting plate fine adjustment
- Quick-lock chase for various cutting die dimensions
- Pneumatic central locking system
- Chase changer (option)
- Pneumatic opening and closing of the window
- QuickSet setup: automatic opening of the central locking system and window

Technical data

Processable materials	Mastermatrix 106 CSB
Paper (min.)	90 g/m ²
Solid cardboard (max.)	2,000 g/m ²
Corrugated cardboard (max.)	2.0 mm (0.08 in)
Performance data	
Sheet format (max.)	760 × 1,060 mm (29.92 × 41.73 in)
Sheet format (min.)	350 × 400 mm (13.78 × 15.75 in)
Die-cutting pressure (max.)	2.6 MN/260 t
Machine speed (max.)	9,000 sheets per hour



4 Stripping station

- Integrated quick-lock systems for all tools
- Tool fine adjustment with position indicators
- Test sheet removal
- Vacuum device
- Pneumatic opening and closing of the window
- Preparation table (option)
- QuickSet setup: automatic format setting of the vacuum bar



5 Blanking station

- Integrated quick-lock system for the top tool
- Automatic non-stop and pallet change system
- Tie sheet inserter
- Vacuum device
- Camera for checking the pallet exit (option)
- Camera for checking the waste belt (option)
- EasyRake
- Pneumatic opening and closing of the window
- Second touchscreen
- QuickSet setup: automatic format setting of the vacuum bar



6 Sample sheet removal

- Sample sheet removal during production, completely interruption-free. Sheet is cut, stripped and then made available

Features and benefits.

Mastermatrix 106 CSB.

Availability

Die-cutting station with

camshaft drive.

Blanking or **full sheet delivery.**

760 × 1,060 mm (29.53 × 41.73 in) format. Compatible with all HEIDELBERG 70 × 100 Speedmaster presses, including the **Speedmaster XL 106.**

Mounting of **third-party tools.**

Productivity



Die-cutting speed

9,000
sheets per hour.

Automatic non-stop and logistics system in the feeder and delivery.

Camera for production control located on **strategically** important points.

MasterSet for fewer stops at the feeder.

User-friendliness



Safe operation.

Confirmed by GS certification.

Sample sheet removal during production.

EasyRake for quick and easy setting of the rake in the delivery.

Clear and larger machine touchscreen.

QuickSet setup for shorter set-up times thanks to automatic format settings.

Sales and service partner:
Heidelberger Druckmaschinen AG
Kurfuersten-Anlage 52 – 60
69115 Heidelberg
Germany
Phone +49 6221 92-00
Fax +49 6221 92-6999
heidelberg.com



Production note

Image credits: Heidelberger Druckmaschinen AG
Platemaking: Suprasetter
Printing: Speedmaster
Finishing: Stahlfolder
Consumables: Saphira

Printed in Germany

Trademarks

HEIDELBERG, the HEIDELBERG logotype, Saphira, Speedmaster, Stahlfolder, Suprasetter are registered trademarks of Heidelberger Druckmaschinen AG in the U.S. and other countries. All other trademarks are property of their respective owners.

For details on the emissions of the Mastermatrix 106 CSB, please visit us at [heidelberg.com/emissiondetails](https://www.heidelberg.com/emissiondetails)

Liability for contents

The contents of this brochure have been prepared with great care. No warranty or liability is accepted for the correctness, completeness, or accuracy of the information. There is no guarantee or warranty that the customer will be able to achieve the values and numbers (e.g. relating to the function and performance of the machine and the software) specified in the brochure. The information provided is based on ideal conditions and proper use of the machine and the software. Achieving these values and numbers depends on a variety of factors and circumstances that are outside the control of HEIDELBERG (e.g. machine settings, technical conditions, ambient conditions, raw materials and supplies used, consumables used, standard of care and maintenance of the machine, expertise of the operator, meeting the respective system requirements, etc.).

Version May 2024



长荣股份
MASTERWORK

business partner of
HEIDELBERG