



# Four work steps combined in a single machine.

## **Duopress 106 FCS/FCSB.**



# For high-quality packaging.

## Duopress 106 FCS/FCSB.

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The Duopress series constitutes a unique specialty in the field of die-cutting machines. Here, two different post-press options are combined in a single machine – die-cutting and hot-foil embossing.

Two die-cutting stations connected in series form the basis for this combination, thereby permitting to use the first station as a hot-foil embossing module and the second station as a conventional die-cutting station. Both station can also be used for conventional die-cutting, for example, in case of applications that otherwise would have to be run through the die-cutting machine twice to achieve the required cutting pressure. Both stations can also be used for hot-foil embossing, for example, to create fancy foil applications.

The probably most striking arguments for this machine are the integration of multiple work steps (hot-foil embossing, die-cutting, stripping, blanking) in a single pass on the one hand, and no more register inaccuracies, which can easily occur after a machine change between post-press steps on the other.

The Duopress series evolved from the proven Promatrix 106 technology. It is particularly suited for applications that would otherwise have to be produced on two different machines or pass through the die-cutting machine a second time to achieve a certain degree of die-cutting pressure. This applies, for example, to sophisticated packaging for cosmetics and cigarettes, as well as to the packaging of fine confectionery or spirits as well as folding cartons that want to attract attention to the high-quality products inside at the point of sale.

This machine with two platen presses offers a wide range of options and leaves room for new creative applications.

The GS certificate verifies that the Duopress 106 underwent rigorous testing and thus meets the strict safety standards of the German professional association ETEM (Energie Textil Elektro Medienerzeugnisse).

The Duopress 106 FCSB is manufactured by Masterwork, exclusively distributed by Heidelberg and backed up by the professional and renowned, worldwide Heidelberg sales and service network.

➔ [heidelberg.com/hot-foiling](https://www.heidelberg.com/hot-foiling)

# Outstanding characteristics.

## The facts at a glance.

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### Highlights:

- Two platen presses, e. g.
  - for hot-foil embossing
  - for die-cutting applications
- Max. machine speed: 6,000 sheets per hour
- MasterSet for optical sheet alignment (option)
- Hologram device (option)
- 20 individually adjustable heating zones
- Foil path either longitudinal or transversal to the sheet
- Intelligent computer-based foil control system
- Integrated brush system (motor-controlled) for foil disposal
- Foil rewinder as an alternative for foil disposal (option)
- Honeycomb plate with fine adjustment
- Central locking system of tools in die-cutting station
- Chase with fine adjustment
- Cutting plate fine adjustment
- Chase changer for chase or honeycomb plate (option)
- Stripping station (FCS or FCSB only)
- Blanking station (FCSB only)
- Sample sheet removal during production (FCSB only)
- Various versions available  
e. g. Duopress 106 FCS/Duopress 106 FCSB  
(C = cutting; S = stripping; F = hot-foil embossing;  
B = blanking)

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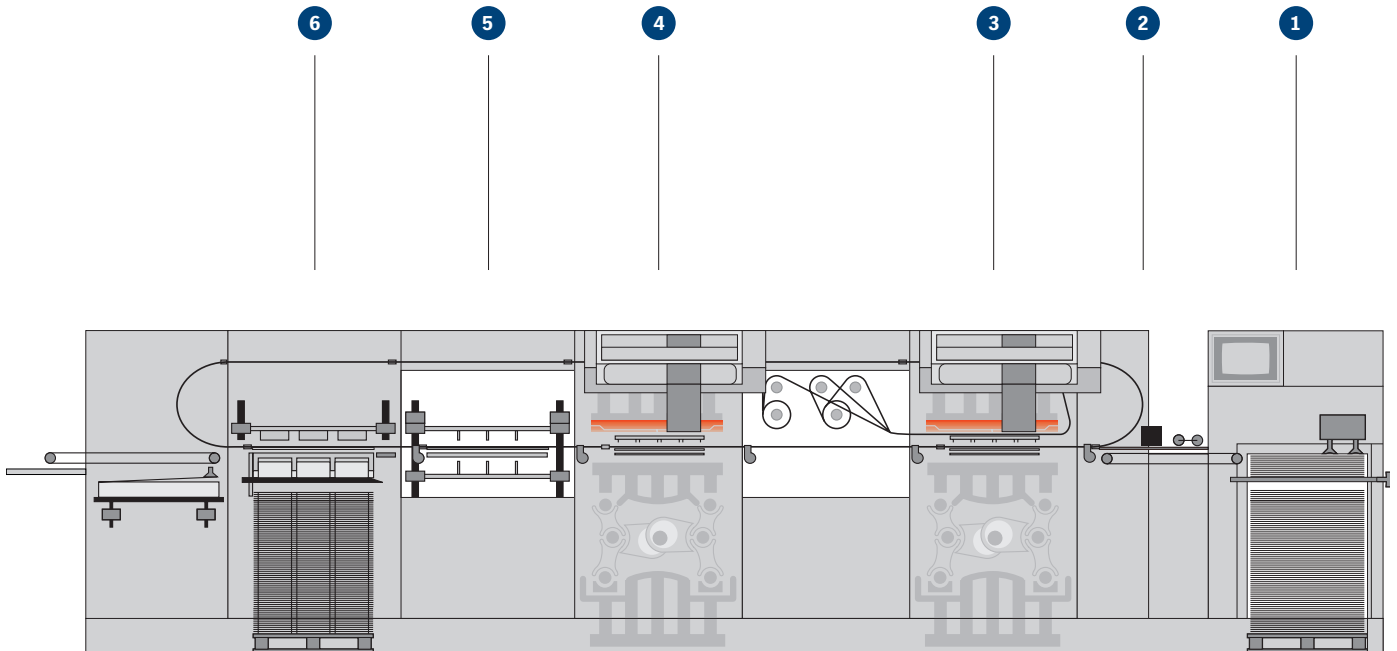
For value retention and maximum performance:

**Service agreements**

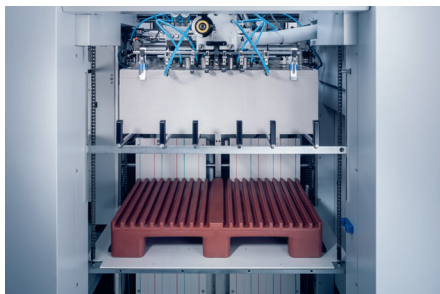
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- Service agreements offer security and peace of mind, while at the same time providing you with the benefits of full cost control and simple administration
  - Servicing by highly trained technicians
  - Exclusive use of original service parts
  -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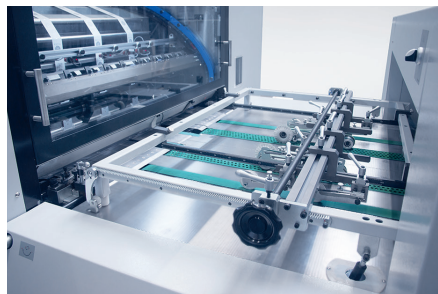


The machine shown is a sample configuration. Some of the equipment features mentioned are optional.



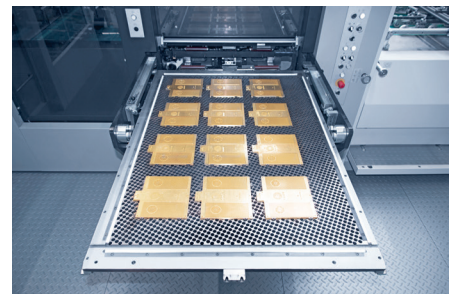
**1 Non-stop feeder**

- Suction head for paper, cardboard and corrugated cardboard
- Suction head with quick-positioning function
- Pile platform with motorized pile side alignment
- Mechanical double-sheet control



**2 Feed table**

- MasterSet optical sheet alignment system (option)
- Central adjustment of the rollers and brushes
- Suction belt table
- Ultrasonic double-sheet control



**3 Hot-foil embossing unit (or die-cutting station)**

- Longitudinal or transverse foil path
- Brush system for foil disposal
- Foil feeding program for optimum foil utilization
- 20 heating zones
- Rewinder (option)
- Hologram device (option)
- Three foil feeding shafts
- Hologram device (option)
- Optimum foil utilization thanks to computer-controlled foil feed

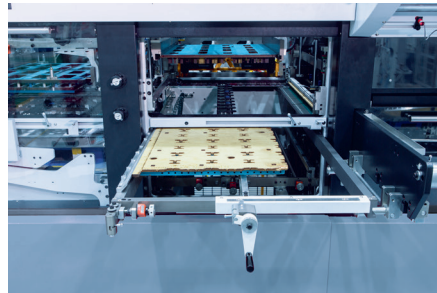
## Technical data

Processable materials	Duopress 106 FCS/FCSB
Paper (min.)	90 g/m <sup>2</sup>
Solid cardboard (max.)	2,000 g/m <sup>2</sup>
Corrugated cardboard (max.)/with MasterSet	4.0 mm/2.0 mm (0.16/0.08 in)
<b>Performance data</b>	
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.)	2.5 MN/250 t
Machine speed (max.)	6,000 sheets per hour
<b>Performance data hot-foil embossing</b>	
Hot-foil embossing speed (max.)	5,000 sheets per hour
Temperature	40 °C – 180 °C
Number of heating zones	20
Foil feeding shafts (per station)	3 longitudinal, 2 transversal
Foil reel diameter (longitudinal):	250 mm (9.84 in)
Foil reel diameter (transversal):	200 mm (7.87 in)
Foil width	20 – 1,060 mm (0.79 – 41.73 in)



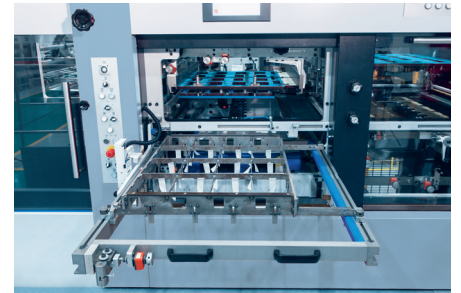
### 4 Die-cutting station (or hot-foil embossing unit)

- Cutting plate fine adjustment
- Quick-lock chase with file adjustment
- Motorized die-cutting pressure adjustment
- Pneumatic central locking system
- Chase changer (option)



### 5 Stripping station (FCS or FCSB)

- Integrated quick-lock systems for all tools
- Tool fine adjustment with position indicators
- Test sheet removal
- Preparation table (option)
- Simple conversion to hot-foil handling



### 6 Blanking Station (FCSB)

- Integrated quick-lock system for the top tool
- Automatic non-stop and pallet change system
- Tie sheet inserter
- Vacuum device
- Second touchscreen
- Sample sheet removal during production

# Features and benefits.

## Duopress 106 FCS/FCSB.

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### Availability

Four work steps  
**hot-foil embossing – die-cutting – stripping – blanking**  
in a single machine.

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Embellishment of  
**packagings** and **labels**  
for cosmetics, foodstuff,  
cigarettes, and pre-  
mium confectionery.

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Precise application of **holograms**.

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Foil path longitudinal and  
transversal to the direc-  
tion of sheet travel for eco-  
nomical foil utilization.

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### Productivity



Die-cutting speed

**6,000**  
sheets per hour.

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Chase changer for prepara-  
tion outside the machine.

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Wide range of materials –  
**90 g/m<sup>2</sup> to 2,000 g/m<sup>2</sup>.**

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**MasterSet** for less  
stops, and reliable  
and precise sheet  
alignment.

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A single machine  
that combines  
**hot-foil embossing**  
and **die-cutting**.

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### User- friendliness

Quick-lock and fine  
adjustment systems in all  
machine stations.

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**Safe operation.**  
Confirmed by  
GS certification.



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**Sample sheet removal**  
**during production.**

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Computer-based foil  
control system.

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**2 touch-  
screens**

for easy machine  
operation.

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