

# Technical Data

## Varimatrix 82 CS

### Suitable for the following materials (depending on material quality and sheet layout)

Max. sheet curvature 2.5% (with larger curvatures, we reserve the right to perform a test)
Paper weighting at least 80 gsm
Card or solid board up to a maximum weight of 1,400 gsm
Corrugated board up to a maximum thickness of 2 mm (0.079 in)

### Performance data

Sheet size (max.)	605 × 815 mm (23.82 × 32.09 in)
Sheet size (min.)	280 × 320 mm (11.02 × 12.60 in)
Cutting pressure	Max. 200 metric tons (440,924 lbs)/2.0 MN
Machine speed	Max. 8,000sph

### Dimensions

Length of machine	Approx. 5,011 mm (197.28 in)
Length of machine with preloading device and rails	Approx. 6,505 mm (256.10 in)
Width of machine with control console	Approx. 3,593 mm (141.46 in)
Height of machine	Approx. 2,450 mm (96.46 in)

### Weights

Weight of machine	Approx. 12.5 metric tons (27,557 lbs)
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### Pile height and weight

Feeder including pallet	Weight	Max. 800 kg (1,763 lbs)
	Height	Max. 1,450 mm (57.09 in)
Delivery including pallet	Weight	Max. 800 kg (1,763 lbs)
	Height	Max. 1,300 mm (51.18 in)

### Technical data

Dimensions of cutting die (max.) <sup>1</sup>	605 × 848 mm (23.82 × 33.39 in)
Net cutting area <sup>1</sup>	585 × 805 mm (23.03 × 31.69 in)
Gripper margin, adjustable (13 mm [0.512 in] wood in front of 1 <sup>st</sup> knife)	9.5–18 mm (0.37–0.71 in)

C = Cutting, S = Stripping  
<sup>1</sup>With standard chase. Other chases on request.

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**Illustrations may vary.**  
**Subject to technical modifications and other changes.**

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# Varimatrix 82 CS



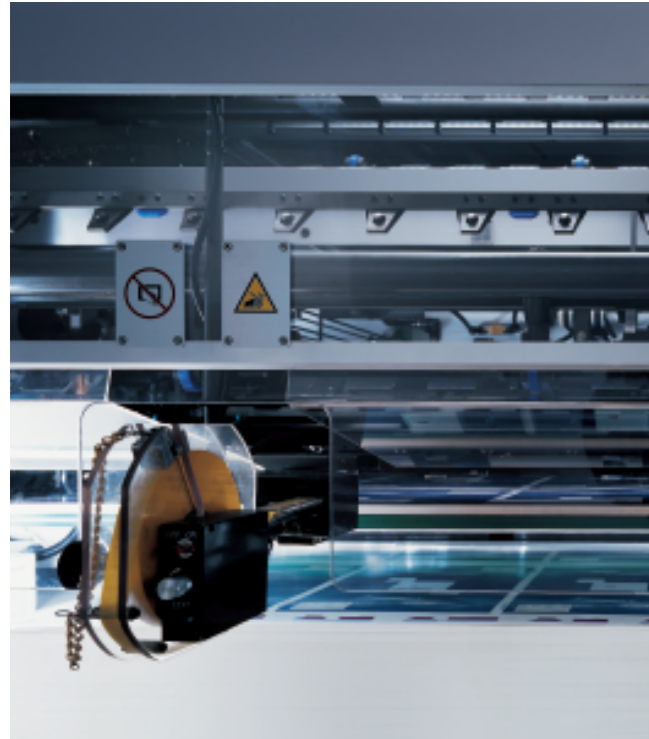
### The entry-level in-house postpress solution.

The Varimatrix® 82 CS half-format die cutter with integrated stripping station is the perfect companion for a Speedmaster® XL 75 or Speedmaster SM 74 from Heidelberg® thanks to its maximum sheet format of 605 × 815 millimeters (23.82 × 32.09 in) and production speed of 8,000 sheets per hour. For a minimal investment, it offers folding carton manufacturers a high-performance entry-level solution for in-house postpress for a wide range

of product groups and print shops with typical commercial products in short runs. This places the entire process in your own hands, ensuring your folding cartons/print products are of consistently high quality. The Varimatrix 82 CS cuts paper and card from 80 to 1,400 gsm and corrugated board up to 2 millimeters (0.079 in) thick. Its user-friendly operation also ensures trouble-free setup with short makeready times and rapid job changes overall. This also results in extremely cost-effective production for short runs.

## Varimatrix 82 CS

High-performance half-format die cutter with user-friendly operation.



Removal of sheets for inspection possible on the fly.<sup>1</sup>

### Product-appropriate setting options.

The Varimatrix 82 CS die cutter is equipped with a preloading device. Preloading can therefore be performed outside the machine, which simplifies the process and saves time. On the feeder, the main pile is motorized and can be moved laterally, thus simplifying sheet alignment significantly in case of poor pile quality. The Varimatrix 82 CS allows high-productivity manual non-stop operation, with the option of changing pallets without stopping the machine. The user can react to various pile geometries thanks to specific setting options on the suction head such as adjustment of the tilt of the separator suckers or angle of the forwarding suckers to the sheet. A double sheet detector in the feeder identifies double sheets and interrupts feeding. Double sheets can thus be removed easily from the belt table and do not interfere with the die cutting tools.

**Added production reliability.** Slower sheet feed to the front lays ensures smooth sheet alignment. This provides an additional boost to product quality, particularly with lower grammages. The belt table is equipped with six belts and the rollers can be adjusted centrally, which reduces makeready times and improves sheet travel through to sheet alignment.

**High net output assured.** Switching between the pull lay and push side lay is easy thanks to the standard side lays on the operator and drive sides. The four front lays can be selected in pairs to suit individual requirements, with light reflex sensors monitoring the alignment of the sheet. A central gripper opener prevents defective sheets from being fed into the machine, for example if sheets are misaligned.

### Benefits of the Varimatrix 82 CS at a glance:

- User-friendly operation and short makeready times
- Fast job changes
- Trouble-free processing of a wide range of materials
- Consistent quality assurance
- High flexibility and impressive cost-effectiveness
- Gripper opening in the event of sheet misalignment before entering the cutting station

<sup>1</sup>Illustrations may vary. Subject to technical modifications without notice.



Central setting of the belt table rollers reduces makeready time and improves sheet travel.<sup>1</sup>

**Precision die cutting.** The register system ensures precise alignment of each individual sheet in the cutting station – this is essential for high-quality, precision cutting. Adjustment of the cutting pressure is product-specific. A centerline ensures that the tool can be aligned with the middle of the machine quickly and cuts makeready times. The pneumatic locking mechanism of the die cutting tool frame also makes life easier for users and shortens makeready times. At the cutting station delivery, a sheet monitoring system checks that part of the sheet does not get torn off and left in the cutting station.

**Stripping station included.** The stripping tool can be aligned easily with the middle of the machine by means of a centerline. The stripping motion of the upper stripping frame can be switched off easily if the

### The advantages for your production process:

**Makeready times:** Features such as the pneumatic clamping of the die cutting tool frame simplify operation; a fine adjustment system for the cutting plate that shortens makeready times is available as an optional extra. • **Flexibility:** The Varimatrix 82 CS can be easily adapted to the job in hand, with a wide range of end product requirements being taken into account. • **Top-quality production:** High product quality assured – from smooth sheet feed to the front lays all the way to reliable delivery. • **Variability:** Thanks to an extensive range of standard equipment plus additional options and accessories, the Varimatrix 82 CS can be customized to meet the user's needs. • **Productivity:** At speeds of up to 8,000 sheets per hour, longer runs can also be handled efficiently.

Varimatrix 82 CS is only to be used in die cutting mode. The sheet is also monitored in the stripping station using optical sheet monitoring.

**Product quality all the way to the delivery.** An adjustable mechanical sheet steadier brush ensures sheet delivery is smooth even at high production speeds. Non-stop operation is possible by using a roll apron as auxiliary pile, which means that pallets can be changed on the fly. The removed gripper margin is automatically transported away by a conveyor belt. The Varimatrix 82 CS features a device for inserting strips as standard to ease the packaging process. Sheets can be removed for inspection on the fly, thereby cutting makeready times.

### Standard equipment, options, accessories.

The Varimatrix 82 CS is equipped as standard with a touchscreen for straightforward operation and to display job and machine information, automatic chain lubrication, a control console with storage space and guard rails, and various safety devices to protect the user such as a light barrier in the delivery that monitors user access. A corrugated board kit is also available as an option. Optional accessories include a quick-action chase, makeready table for stripping tools, a quick-action clamping device for the stripping board, and a quicklock frame for the upper stripping tool. Preconfigured milled counter plates can also be used. Another useful accessory is a die cutting plate with integrated fine adjustment for the cutting plate to reduce makeready times and simplify repeat jobs.

## Inside View Varimatrix 82 CS

