



# Technical information Heidelberg FCL.



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## Flatbed die-cutting technology for peak webfed performance

Ultimately, only performance counts. With this in mind, we designed the Heidelberg FCL die-cutter to provide superior performance and years of rugged service.

The flatbed die-cutter prides itself on its perfect combination of creasing, embossing, window and outer-contour die-cutting. Excellent register accuracy and short makeready time are further highlights of the FCL. The flatbed die-cutter achieves consistent quality over the entire speed range of up to 220 m/min (720 feet/min) and 350 strokes/min with its tremendous die-cutting force of up to 300 tonnes. The Heidelberg FCL processes all common paper-board types, whether virgin or recycled board, laminated or not. Affordable die-cutting tools as well as fast and easy job and tool changes are the ideal conditions for using the Heidelberg FCL even for smaller job sizes. The patented traveling feed roll unit ensures precise and smooth web infeed. Defective blanks detected by the 100 % inspection control are reliably ejected.

When buying a Heidelberg FCL, you will not only purchase a high performance die-cutter, but will also get competitive decisive operation and process know-how from us as the market leader. We train your staff in setting up and operating the machine and provide our folding carton expertise in order to help you provide maximum performance from the beginning.

## Trademarks

Heidelberg and the Heidelberg logotype are registered trademarks of Heidelberger Druckmaschinen AG in the U.S. and other countries. All other trademarks are property of their respective owners.

You can find data on the emissions of the Heidelberg FCL at [heidelberg.com/emissiondetails](http://heidelberg.com/emissiondetails)

**Subject to technical modifications and other changes.**



# Heidelberg FCL.

## High-performance die-cutting.

### Technical data

The flatbed die cutter Heidelberg FCL is highly efficient, not only as a standalone solution. In combination with the Heidelberg Intro or ICS you create an ideal workflow for your production. Thanks to the open interface architecture, the FCL can also be integrated in many other machine systems.

Heidelberg FCL	FCL 670	FCL 850	FCL 1010
Max. machine speed	220 m/min. (720 ft/min.) or 21,000 strokes/hour	220 m/min. (720 ft/min.) or 21,000 strokes/hour	210 m/min. (690 ft/min.) or 23,400 strokes/hour
Max. die-cutting force	200 tonnes	250 tonnes	300 tonnes
Max. web width	690 mm (27 in)	870 mm (34.75 in)	1,020 mm (40.75 in)
Repeat range	405 – 820 mm (16 – 32.25 in)	405 – 820 mm (16 – 32.25 in)	457 – 1,000 mm (18 – 39.33 in)
Running direction	right -> left	right -> left	right -> left
Repeat length increments	infinitely variable	infinitely variable	infinitely variable
<b>Substrate</b>			
Min. die-cut blank (width x length)	70 x 70 mm (2.8 x 2.8 in)	70 x 70 mm (2.8 x 2.8 in)	70 x 180 mm (2.8 x 7 in)
Max. die-cut blank (width x length)	670 x 820 mm (26.33 x 32.25 in)	850 x 820 mm (33.5 x 32.25 in)	1,010 x 1,000 mm (39.75 x 39.33 in)
Substrates	Paper, carton, further on request	Paper, carton, further on request	Paper, carton, further on request
Material weight	180 – 600 g/m <sup>2</sup> (37 – 123 lbs/MSF)	180 – 600 g/m <sup>2</sup> (37 – 123 lbs/MSF)	180 – 600 g/m <sup>2</sup> (37 – 123 lbs/MSF)
Max. material thickness	750 µm (30 pt)	750 µm (30 pt)	750 µm (30 pt)
Max. blanks across	6	8	8 (optional 10)
<b>Register accuracy (web direction)</b>			
Print to cut 95 %	± 0,2 mm (± 0.008 in)	± 0,2 mm (± 0.008 in)	± 0,2 mm (± 0.008 in)
Print to cut 99 %	± 0,25 mm (± 0.01 in)	± 0,25 mm (± 0.01 in)	± 0,25 mm (± 0.01 in)
<b>Machine capabilities</b>			
	Die-cutting, creasing, embossing, stripping, separating		
<b>Optional equipment</b>			
	Single blank ejection, machine fine adjustment, stacker, non-stop unwind (offline solution), additional stripping cassette		

### Benefit from our long-term experience

Based on our decades of experience in the folding carton business, we even manage the most challenging installations worldwide. In cooperation with you, we will find the customized webfed solution that works perfectly for you.

Possible machine configurations	
Offline	Heidelberg FCL
Inline	Heidelberg Intro + Heidelberg FCL
	Heidelberg ICS + Heidelberg FCL
	Further configurations on request
An excerpt of our realized webfed solutions	
Offline	Unwind + rotative structure embossing machine + rotative embossing machine + flatbed die-cutter Heidelberg FCL 1010
	Unwind + flatbed die-cutter Heidelberg FCL 850
Inline	Heidelberg ICS 670 + rotative embossing machine + flatbed die-cutter Heidelberg FCL 670
	Heidelberg Intro 1010 + flatbed die-cutter Heidelberg FCL 1010
	Heidelberg ICS 850 + hot foil module + flatbed die-cutter Heidelberg FCL 850