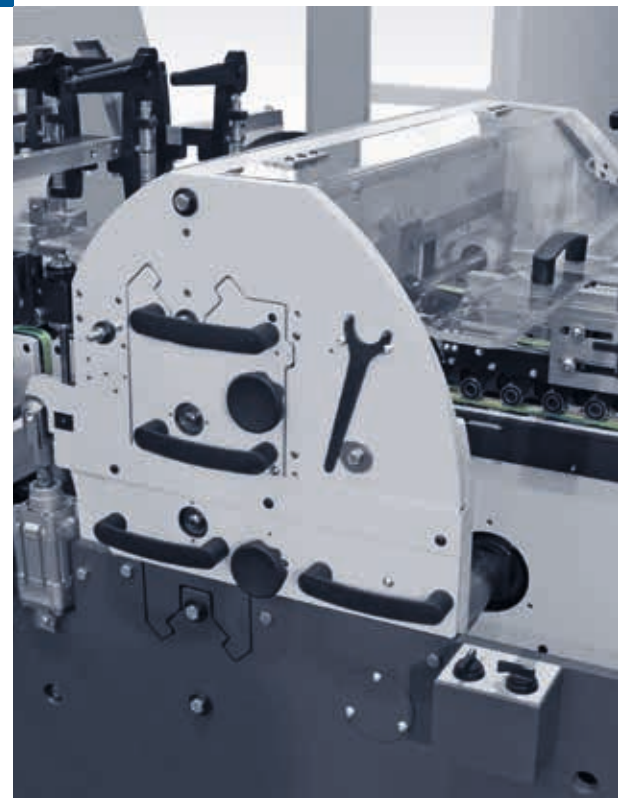


Diana Braille module

HEIDELBERG

A module for all Braille requirements. The Diana® Braille module expands the possibilities of your folding carton gluing machine. Diana Braille applications enable reliable and efficient processing of every job, whatever demands the folding carton layout places on the position and scale of embossing. Two independent servo drives control the Braille embossing tools with great precision even at high speeds, delivering accurate and standard-compliant Braille embossing quality throughout. The Diana Braille module from Heidelberg® is a cost-effective and flexible solution for all requirements in cutting-edge and complex folding carton production. This enables you to not only stand out from the crowd but also achieve a sustainable expansion in your manufacturing base. Braille applications have long been essential in numerous attractive areas of industry, particularly in the pharmaceutical sector.

Diversity and precision. The Diana Braille module enables you to emboss all carton areas, thus making Braille applications possible anywhere on the carton. Several Braille embossing tools can also be used in parallel in a single Diana Braille module, allowing simultaneous embossing of more than one area. Braille embossing tools can be positioned along the entire working width. High flexibility is also a key feature in terms of text length, with up to 57 Braille characters, or four or five lines, possible per die plate. Up to three areas per Braille embossing metal sheet also maximize productivity.



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Efficient, top-quality production. The option of also setting up Braille embossing tools outside the machine results in short changeover times. Precise and reliable transportation of blanks throughout the embossing process is ensured by telescopic roller bars, guidance of cartons usually on both sides, and the ability to select the position of the transport belt appropriate for the product (right and/or left of the Braille embossing tool). The settings for the embossing point height can be reproduced reliably using an appropriate display.

Consistent embossing quality is assured by continuously monitoring the servo drives, carton lengths, and double infeeds of blanks. Incorrect blanks are reliably ejected thanks to these inbuilt quality controls. The Diana Braille module is also compatible with other standard inline and offline quality control systems.

Easy and reliable operation. Drive synchronization monitoring protects machine operation at all times. The Diana Braille module is easy to access and operate. The central control terminal supports intuitive menu navigation, and a decentralized terminal is also available as an option.

If the Diana Braille module is not active, there is no restriction on the folding carton gluing machine's maximum production speed. The module is available in working widths of 800 mm (31.50 in) and 1,150 mm (45.28 in).

Benefits at a glance:

- Braille embossing tool can be positioned along the entire working width
- Braille applications possible on all carton areas
- Several Braille embossing tools can be used in parallel
- Module length shorter than 1,400 mm (55.12 in) regardless of the number of Braille embossing tools
- High productivity as a result of optimum number of embossing areas on the Braille embossing metal sheet
- Braille embossing tools can also be set up outside the machine
- Reliable carton transportation at the embossing stage
- Inbuilt embossing quality control
- Optimum operation and easy access
- Tested safety with GS mark
- Can be retrofitted in Diana X 80 and Diana X 115 on request

Technical data

Max. machine speed with embossing function	350 m/min (1.148 ft/min) respectively up to 100,000 boxes/h
Max. machine speed without embossing function	500 m/min (1,640 ft/min), option 650 m/min (2,132 ft/min)
Material thickness max.	0.6 mm (0.0236 in)
Processable material (with Braille)	
Blank width	80 – 800 mm (3.15 – 31.50 in) (Diana X 80) 80 – 1,150 mm (3.15 – 45.28 in) (Diana X 115)
Blank length	55 – 900 mm (2.17 – 35.43 in)
Font	Marburg Medium
Positioning accuracy:	
In direction of travel	+/- 1 mm (+/- 0.0394 in)
At right angles to direction of travel	+/- 1 mm (+/- 0.0394 in)
Braille quality	As per DIN EN 15823/ISO 17351
Male die size	Approx. 405 mm (15.94 in) (with die plate)
Female die size	Approx. 408 mm (16.06 in)
Number (max.) of synchronized embossing rollers	2 (more on request)

Number of lines per repeat max.	5 (more on request)
Number of characters for 1 repeat	57 per plate
Number of characters max. for 2 repeats	23 per plate
Number of characters max. for 3 repeats	11 per plate (on request)
Distance between two embossing areas in direction of travel	min. 31 mm (1.22 in)
Braille embossing metal sheet dimensions	See operating instructions/die specifications
Module length	1,374 mm (54.09 in)
Module width:	
For Diana X 80 (with control cabinet)	Approx. 1,810 mm (71.26 in)
For Diana X 115 (with control cabinet)	Approx. 2,110 mm (83.07 in)
Module height	Approx. 1,470 mm (57.87 in)