



### Options

- flexo printhead incl. GEW UV drying
- additional servo driven nip
- additional die incl. Waste matrix rewinder
- register option for lamination module to enable pre-printed laminate to be applied in register to the base web.
- screen printing unit incl. UV drying for the printing relief varnish (Braille) on the laminate.
- de- and re-lamination station
- web turning unit
- flexo unit for backside printing in the lamination station incl. UV dryer
- second feeder for the parallel feeding of two booklets across the web
- unit to feed a second booklet on top of another booklet (double booklet)
- double booklet sensor
- hot melt system
- rolling segment die
- web to web module (labeller and laminator with a re-register control)
- fleyeVision vision system
- marking of bad labels
- longitudinal slitting

**The modular machine concept - exclusively designed and manufactured at AB Graphic International - allows modules to be added at a later date as required by the customer.**

### Technical specification of the Omega B5010

Speed:	up to 36.000 Products / hour
Feeding accuracy:	+/- 0,5 mm
Die width (rotary die):	330 mm / 430 mm optional
Dimensions of flat bed die:	305 x 302 mm
Die speed (rotary die):	40 m / min with booklets (max. die speed without booklets: 110 m / min)
Web width:	330 mm / 430 mm optional
Diameter of Unwinder and Rewinder roll:	700 mm max.
Speed base web:	40 m/min. max. (110m / min. without booklets)
Web tension:	1 - 15 kg
Web guide:	FMS
Remote support:	via Internet
Pneumatic:	6 bar
Power supply:	3 phase x 400 V / N / E 50/60 Hz, 50 A



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**Booklet range**



**The worldwide market leader for label and booklet converting solutions**



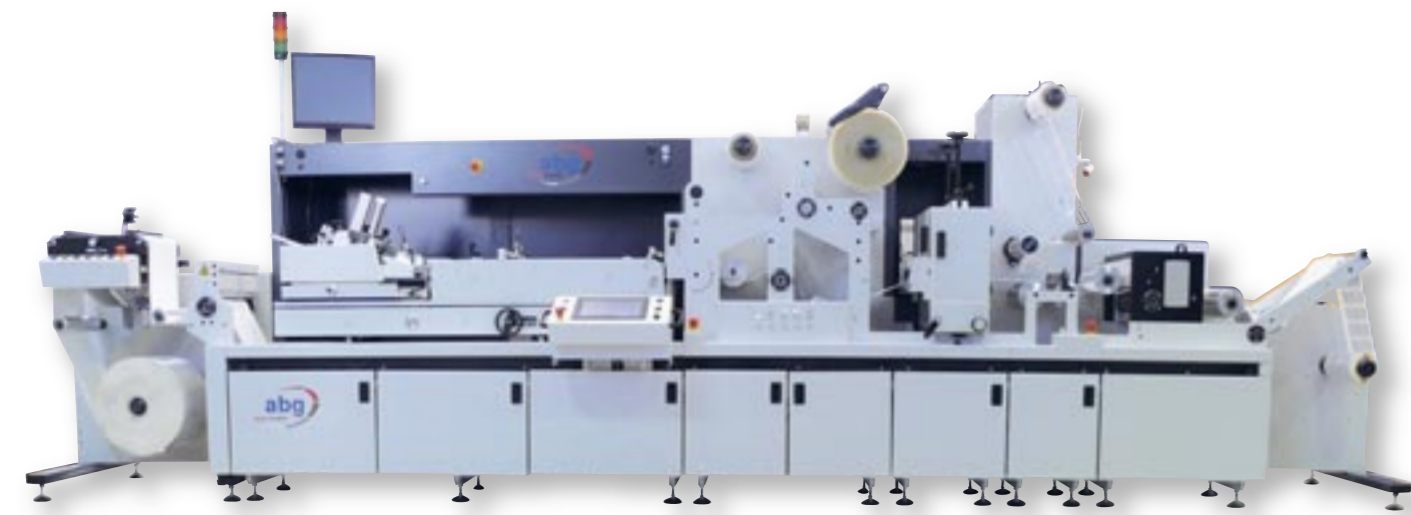


# Omega B5010

The professional booklet label converting

glueing, laminating, die cutting and more...  
...high productivity with up to 36.000 Booklets per hour

»The B5010 offers unlimited possibilities«



## Modular concept for highest flexibility

With the Omega B5010 the booklet will be fed by a vacuum belt. A conveying system will transport the booklet and attach it to the base web.

The feeder system is fast and easy to adjust for different products; you are able to produce up to 36.000 booklets per hour. Booklets with a thickness of 112 pages present no problem.

## Feeder and chain - The heart of the Omega B5010

Booklets with sizes between 25 x 80 mm and 280 x 320 mm can be loaded into the feeder and can be single or multiple across the web (option).



The servo controlled registration system guarantees a high productivity up to 36.000 booklets per hour and a positioning accuracy of +/- 0.5 mm.

The distance between each single booklet can be adjusted and changes in repeat length can be easily changed.

Feeder and chain can be adjusted to a new booklet sizes within a few minutes – via touchscreen.

A sensor would stop the machine in case of a missing booklet to avoid wasted material.

## Available options

### Camera inspection

Including a marking system for missing labels - for the print inspection of the top page of the booklet and for correct placement on the base web. Also printed codes like OCR or barcodes can be inspected by the fleyeVision software.

### Autoloader

Belt system for an automatic feeding in case of longer run jobs.

### Lamination unit

A lamination unit is available to add unprinted laminate. You can use either laminate with liner or without liner. The web tension of the laminate can be adjusted to an ideal value to avoid booklet opening due to too high tension.

As an additional option the laminate unit can be equipped with screen printing to print for example braille dots onto the laminate.

### Flexo printing

Integrated Flexo unit with register control and UV-drying system.

### De-lamination Re-lamination

With following turn system for back side printing or adhesive neutralisation.

### Screen printing unit

The screen printer can be integrated into the laminator for accurate register printing of the laminate.

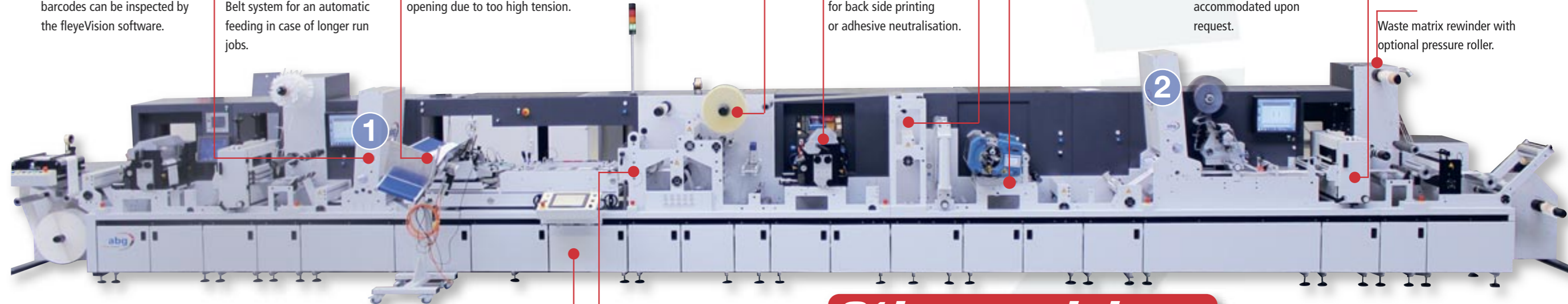
### Rotary die

A full rotary, servo controlled die with a repeat range of 10" to 24" is part of the Omega B5010. An eye mark sensor guarantees the exact die position. Existing dies for other machines can be accommodated upon request.



### Waste matrix rewriter

Waste matrix rewriter with optional pressure roller.



## Hot melt glue system

With the additional hot melt glue system the booklets can be adhered to the base web. This would be necessary, if for example the booklets were not over laminated or the lamination around the booklet will be die cut without overlap. Also the booklet can be opened and closed many times in this case.

The glue application will be done either by spot nozzle or a glue head. This will be controlled and triggered by the machine.

Latest technology and drives gives the B5010 the competitive edge.



## Booklet precurling

Precurling is an important function when booklet labels are applied to cylindrical containers. The B5010 incorporates a proven precurling system to ensure the perfect pre curl of the booklet for each specific container.



## Other modules

### Longitudinal cut

Using a rotary knife or (alternatively) a razor slitting unit the die cut booklets can be cut into single rolls before rewinding.



### Flat bed die

With the rolling segment die you can cut repeats up to 12". (option 15") The precise re register control makes it possible to cut up to 48 pages with a accuracy of +/- 0,2 mm. Due to the low tooling costs this option is perfect where you have a large variety of cutter shapes and sizes.



### Inkjet module

For highlighting, number or personalization of the booklet labels the Omega B5010 can be prepared with an Inkjet printer. It's possible to use up to 8 heads for back side or front side printing. The Inkjet system will be controlled by machine software.



### Labeler

With the LA 5010 labeller it's possible to dispense – for each individual line – printed over-lamination labels to keep the whole web width can be over-laminated to create a multilayer label (sandwich).



Trust on our know-how as long lasting partner for the printing and packaging industry.