





Advantages of our smartflat technology:

- Books lay perfectly flat when lay opened
- **■** Eco-friendly technology:
- Low energy consumption
- No toxic fumes
- Uses a highly flexible green adhesive

Added benefits:

- Even laminated, coated paper can be firmly bound
- Adhesion remains strong even at extreme temperatures

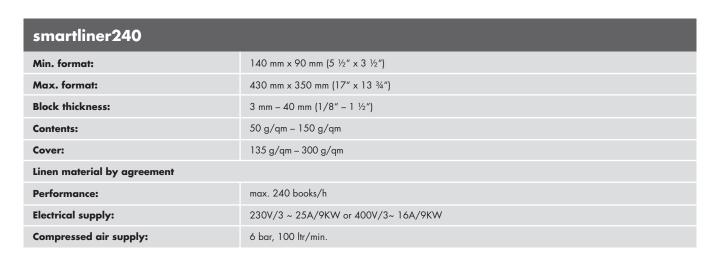
Quick and easy cleaning with water:

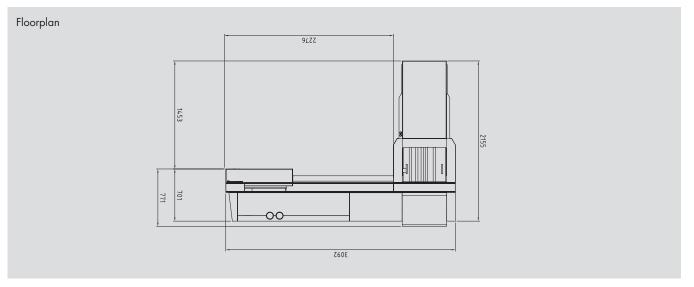
- The closed-adhesive system must not be emptied and cleaned daily
- Very low production costs:
- No heating-up time

The **smartliner240** is ready for use immediately

- No extraction required
- Automatic format settings, eliminating operator error
- Low energy consumption

All paper qualities, whether coated or even laminated, can be bound into an especially long-lasting and perfectly lay-flat product. Short set-up times thanks to automation, "green" technology as well as simple operation and cleaning make the smartliner240 the perfect choice for book-on-demand production, book binderies, printers and copy **shops** – in short, for everyone wanting to produce one-of-a-kind lay-flat binding.





Sample service

palamides GmbH

Tel. +49 7159-925 70-0

welcome@palamides.de

www.palamides.com

Would you like a sample using your own product?

Please contact your **smartliner** agent or **palamides** direct. After consultation, we will bind your product using smartflat technology and send the sample back to you.

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Environmental Technology Award Baden-Württemberg 2013

smartliner240

Lay-flat perfect binder with Ribler technology



Errors, misprints and technical amendments excepted

smartflat guarantees ...

... environmentally friendly production of your books



smartflat technology:

- **palamides,** worldwide leader for automatic delivery systems, is now introducing the brand new smartliner240 perfect binding system, based on Ribler technology.
- **smartflat** means that books can be bound in an environmentally friendly way and at the same time, will lay perfectly flat when flipped open. Important advantage: Almost all types of paper and grammage can be processed.
- **smartliner240** was awarded the Baden-Wuerttemberg 2013 Environmental Technology Prize for its low energy consumption and its green material usage.
- The **hydrosive** adhesive together with a unique spine preparation, ensures that pages are held firmly in the book block.
- The great flexibility of the glue results in the coveted lay-flat properties.

Conventional binding methods:

■ Today most books are using either EVA or PUR hotmelt glues. Unlike the **smartflat** spine preparation, which loosens the paper fibers, all hotmelt binders grind some sort of grooves/notches in the book block to increase the contact area for the glue. This creates a strong bonding, especially when using PUR. However when opened, books with this type of binding are often criticized for their bad lay-flat quality. Manufacturing these books is very energy intensive. Further, hotmelt glues produce toxic fumes which need to be exhausted from the work area.

The **smartliner240** is equipped with one clamp into which the book blocks are fed by hand. The clamp transports the book block at a constant speed over specially developed **smartflat** components to do the innovative spine preparation. An important feature of **smartflat** technology is the **hydrosive** adhesive, which is applied using a closed nozzle stability for removal. system. Various covers can be buffered in a manual cover

feeder. The automatic bar-creasing-unit with up to 4 creases, uses a new kind of humidifying device. Using a pressing plate, the cover is applied to the spine from below and the sides. The untrimmed products cure in the automatic book delivery. After approx. 5 minutes they have achieved the necessary

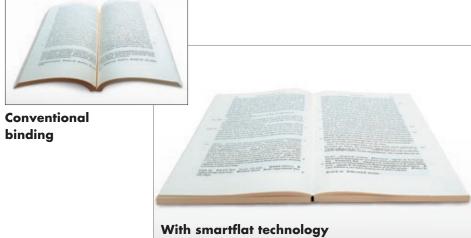
Technical features:

- Manual book block feeder
- Manual cover feeder
- Patented spine processing
- Automatic cover creasing device
- Automatic nozzle application system
- Pre-drying unit
- Automatic book delivery system

Options:

- Side glueing
- Signature cutting unit

smartflat technology



Cook books:

Lay-flat on the kitchen table and do not need to be held down by any weights.

Travel books:

Road maps that lay absolutely flat and can be read all the way to the spine.

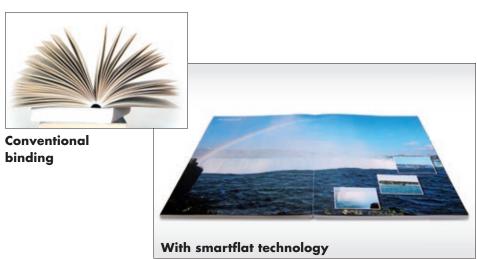


Photo books:

Panoramic holiday pictures no longer have to be pressed flat.

Music books:

Paperbacks:

No longer close back shut

Instruction manuals:

operate the device.

Text books:

because of an inflexible spine.

Will stay open on the selected

page; so both hands are free to

Remain open on the music stand and no longer fall closed on their own.



Conventional



Lay-flat means easy copying, without having to press down the spine, creating a distorted image