

Wohlenberg Perfect Binders - Since 1946

Wohlenberg, manufactured in Verden, Germany, has been producing Perfect Binders, Gatherers and Three-Knife Trimmers for over 70 years. Having developed the first Perfect Binder and Three-Knife Trimmer, Wohlenberg is a global leader in developing and manufacturing quality Perfect Bindery equipment.

Wohlenberg is a global leader in high quality Perfect Binders. The features and options offered on Wohlenberg's Perfect Binders set them apart from the competition. Read on to learn more about the Perfect Binding process and how Wohlenberg has perfected it.

The Perfect Binding Process

First, job details are input via the Navigator. The Navigator is easy to use with a self-explanatory, graphical interactive operator touchscreen interface. Set-up times are reduced because you can prepare machine production data on the Navigator before and during running production with only a few key product dimensions.

Second, the book block containing all the sheets that make up the interior of the book are fed into the machine via the upstream Gatherer, or the handfeeding station. The clamp opening and positioning of the book block are both automatic for ease of use.

Third, the spine is prepared for gluing. The Perfect Binder will cut the spine edge of the sheets to expose the paper fibers. This makes it easier for the glue to adhere to the paper. The powerful main milling station on our Wohlenberg Perfect Binders exposes the paper fibers by precisely cutting with its sharp-edged duplex blades to increase the adhesive surface, ensuring perfect preparation of book spines. A dust extraction system needs to be installed on Wohlenberg Perfect Binders.

Fourth, the glue is applied. Wohlenberg Perfect Binders offer separate spine and side gluing units. Wohlenberg Perfect Binders let you process three gluing techniques interchangeably on one machine.

- **Hotmelt Gluing (EVA):** This inexpensive method allows for glue to be left in the machine and reheated at any time, making it ideal for small-format perfect binders. This gluing technique uses separate spine and side gluing units with automatic length control. The side gluing unit can be adjusted by motors for the required product thickness. The integrated premelter for the side gluing unit allows for the automatic length control. With the growing popularity of digitally printed and coated stocks, EVA has become less popular as many opt for PUR.
- **PUR Gluing** with Wohlenberg's patented integrated barrel melting system can be offered as a roller system or as a nozzle system. Our Quickjet is a volume-controlled glue system that ensures an exact application of the glue due to the automatic procedures of the gear pump and nozzle head. The Quickjet ensures that the glue will be able to penetrate even digitally printed and coated stocks, creating a stronger bond than EVA hotmelt gluing. This method does, however, take longer for the glue to cure.

- **Cold Gluing:** With this method, the glue is applied as a cold liquid. This method requires more time to dry, allowing the glue to absorb into the paper fibers. This allows for reliable binding of heavier and coated-paper stocks. Less expensive in cost, the cold gluing method is generally considered to be more difficult to apply consistently.

Fifth, the cover feeder affixes the cover around the spine with a clamp holding everything in place. Wohlenberg's easy-to-use rotary cover feeder assists in processing 4-, 6- and 8-page covers. The slight inclination of the cover magazine, combined with the nozzles for pulsating air, minimizes friction and is particularly helpful when running sensitive covers. The use of Winjector vacuum technology increases the sheet separation reliability. The cover feeder also functions as an interface for connection of our optional KRF cover folder feeder.

The KRF cover folder feeder & VSS foreedge trimming device can be used in combination to process gatefolded, or multi-page covers flush to the book blocks' face which can produce inline in one pass at high speed. Other Binders do this in two passes.

Sixth, the optional gauzing stations allows for the production of Swiss, Otabind and layflat brochures in one pass. Cycle-controlled suction and blowing air at the pressing plate permits exact positioning of the gauzing strip. The gauzing strip can be cut to length using the circular cutters. The gauzing station can be integrated without any extension on the machine.

Seventh, the books are gently discharged from the Perfect Binder by means of a conveyor belt and pusher chain. The optimized product guidance ensures a safe processing of the most diverse cover materials. A quick-release device simplifies maintenance and cleaning work.

The flexibility, features, and options offered make Wohlenberg Perfect Binders the ideal choice. Wohlenberg is exclusively represented by Best Graphics in North America. Contact Best Graphics today to learn more!



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