



Perfect Binder Champions

The **Champion s** is a high-performance perfect binder for hotmelt, coldglue and PUR applications. Available as either a 21 or 28 clamp machine, it optimally fulfills all requirements for an rational book block production or for combined binding techniques, such as Swiss brochures or Otabind brochures (Lay flat). Clearly laid out and easily accessible operator control elements and useful help functions for defining settings make setup a snap.



Post Press Company

- PLC control with error diagnosis terminal
- Quick adjusting options thanks to optimized setting elements with displays
- Infeed station with optimized infeed geometry to the clamp carriage
- Coated clamp carriage with central adjustment for changing block thicknesses
- Mobile gluing units as an interchangeable system for hotmelt, coldglue and PUR processing
- Selection of either rotary or stream cover feeder
- Scoring station with outer adjustment for fine tuning during ongoing production
- Separately operating registering and pressing station for the exact cover positioning and optimal spine forming
- Long product delivery by means of plate chain and a backfolding pusher
- Laydown device, 2700 mm long for gentle laydown of products and as an interface for inline conveyor connection
- Space-saving system configuration by means of 90°- or 180°-curve between gathering machine and perfect binder
- Dynamically expandable by adding an foredge trimming device VSS, an endpaper processing station, a gauzing station, IR- and HF-driers, a cover folder feeder KRF, etc.

Champions

Versatility by design.



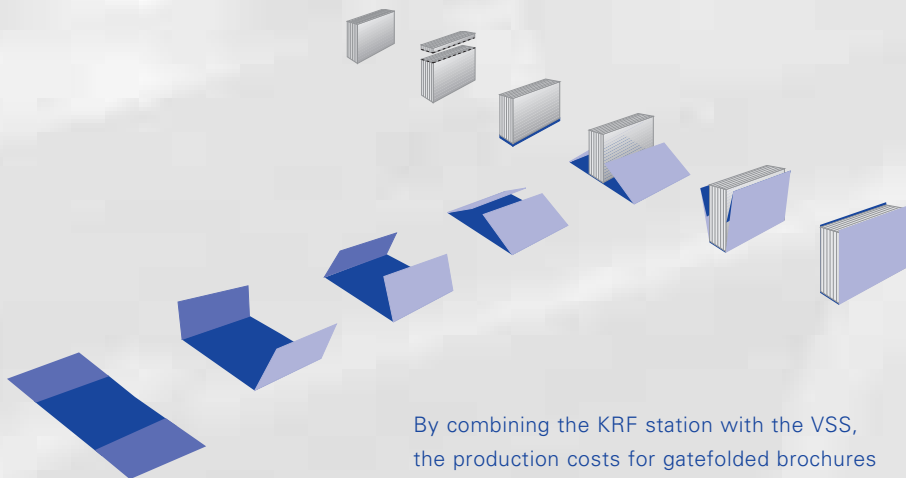
Fore-edge trimming device VSS

Efficient Production

Using the cover folder feeder **KRF** gatefolded covers can be processed efficiently inline. Full-surface scoring knives ensure exact scores in the cover flaps, even with heaviest cover stocks. A folding station with forming knives and shaped parts ensures gentle processing of cover flaps.

Substantial Efficiency Enhancement

Using the fore-edge trimming device **VSS**, Wohlenberg customers can now, for the first time, efficiently produce top-quality brochures. Products with gatefolded covers and flush can be produced in one pass inline at high speed.



By combining the KRF station with the VSS, the production costs for gatefolded brochures can be reduced significantly.

Wohlenberg High-performance Perfect Binder Champion s



Easy to use thanks to the diagnosis terminal with its multi-lingual plain text display

The diagnosis terminal

is equipped with a multi-lingual plain text display, including an info-key and early warning system. Any conditions that could result in shutdown of the machine are displayed. All machine parameters can be queried at any time.

The PLC control system

is equipped with a pivoting operator panel and is compatible for electronic networking of machines and systems (Profibus). A maintenance-free, frequency controlled three-phase motor is installed as the main motor. Program-controlled machine position and book detection and monitoring. Shaftless drives between the gathering machine and the perfect binder are standard.

The IR-dryer

can be installed in a 28 clamp machine in between two spine gluing units and ensures a secure intermediate drying of the first coldglue application. In combination with an optional high-frequency dryer the **Champion s** meets all requirements for a rational and high-quality book block production.

IR-dryer in detail



The spine preparation

with up to 4 stations ensures optimal results. The powerful 11 KW main milling unit, which can be equipped with either a chip or dust milling tool, ensures reliable and precise milling. The optional second station is equipped with a fine milling knife and is used as an equalizing milling cutter. Station 3 and 4 are frequency-

controlled and can be individually equipped with a notching head, a multiple-knife head or a roller pressing station. All stations can be individually and manually adjusted. All stations can be lowered simultaneously for production of thread sewn or thread sealed products.



Integrated fore-edge trimming device VSS

The separate hotmelt gluing units

for spine and side gluing are movable and equipped with a scraper control of the glue film length, an individual height and product thickness adjustment system.

The patented premelters that are integrated in both gluing units, are each equipped with a minimum level indicator for glue supply. The gluing units are equipped with mechanical indicators for all parameter settings.



PUR gluing unit
in detail



The gauging station

can be integrated as a module into the **Champion s**. The speed-optimized feed system ensures precise application of the gauging strip, even at high cycle speeds.

The rotary cover feeder

is easy to operate and an indispensable aid for processing 4-, 6- and 8-page covers. The slight 20° inclination of the cover magazine, combined with the nozzles for pulsating blowing air, minimizes friction, particularly when running sensitive covers. The cover feeder also functions as an interface for connection of the cover folder feeder **KRF**. Optional available is a stream cover feeder.

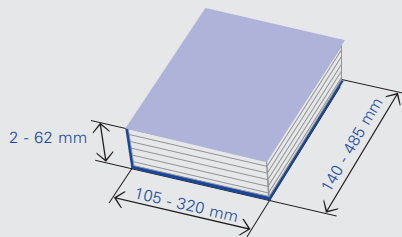


The cleaning station

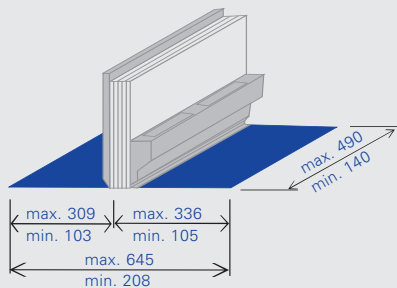
for the PUR gluing unit ensures safe and effective cleaning inline with the industrial health and safety regulations. Pre-heating of the glue outside of the perfect binder allows the optimal working temperature to be attained before the gluing unit is put into operation, thus reducing the refitting and setup times between different job orders.



Product format range



Cover format



Format range (in mm)

Product height	Product width
340	320
350	318
360	316
380	312
400	308
420	304
440	300
460	296
480	292
485	290

Technical data - Champion s

	cycles/h
Mechanical speed	1000 - 8000 mm
Opening width for clamps	max. 90 mm
Product hang-out	8 - 15 mm
Product height	140 - 485 mm
Product width	105 - 320 mm
Product thickness	2 - 62 mm
Cover height	140 - 490 mm
Cover width	208 - 645 mm
Width of rear side of cover	103 - 309 mm
Width of gauging strip	16 - 92 mm
Length of gauging strip	140 - 490

Types of products

- Book blocks with gauging strip
- Brochures with 4-, 6- and 8-page covers
- Swiss brochures or Otabind brochures (lay flat) in one pass
- Products with gatefolded covers and flush in one pass

System extensions

- Machine extension by 7 clamps
- Transfer from the gathering machine in straight line, with 90°-curve, left or right pivoting, or with 180°-curve, right pivoting
- Book block feeder or pile feeding conveyor with extension channel
- Handfeeding station
- Endpaper processing station with glue nozzle application
- Hotmelt spine gluing with integrated 40 kg or 70 kg premelter
- Preparation for 2-shot glue application
- Coldglue spine gluing unit with pneumatic pump
- PUR spine gluing unit with barrel melting system and cleaning station
- Hotmelt side gluing unit with integrated premelter
- Coldglue side gluing unit with pneumatic pump
- IR- and HF-driers
- Gauging station
- Special accessories for Swiss brochures and Otabind brochures
- Rotary cover feeder
- Stream cover feeder
- Cover folder feeder KRF
- Foreedge trimming device VSS

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