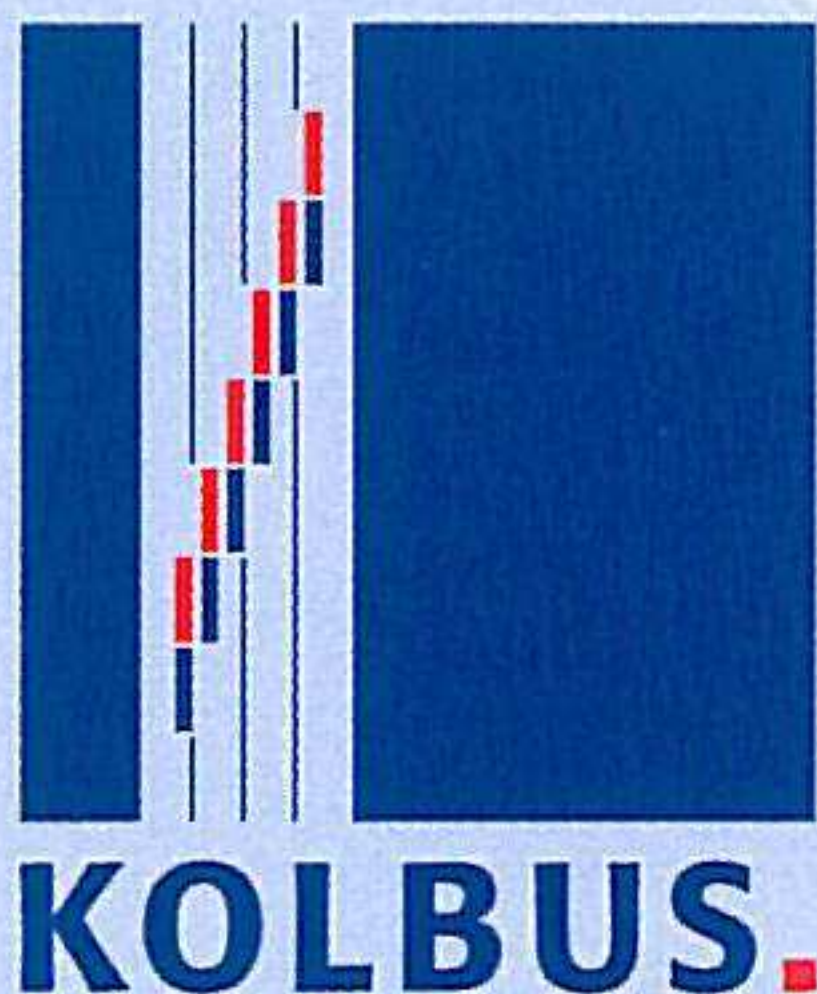


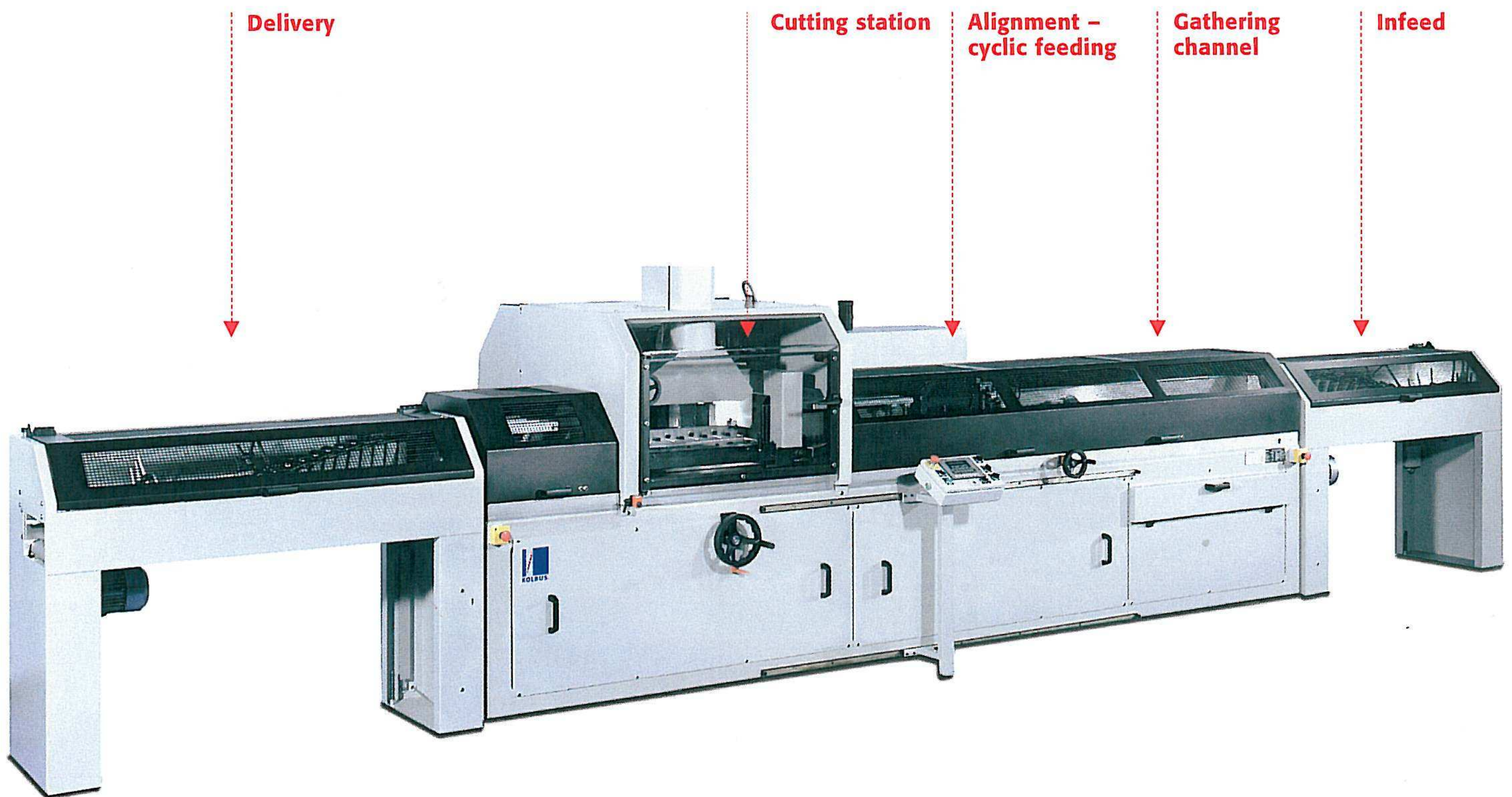
Front edge cutting unit

KOLBUS.

CERMI XCR 100

- ▶ for the production of **flap brochures**
- ▶ can be integrated in a **line**,
or used as an **individual machine**
- ▶ as an **option**, also for products
with a maximum spine length of 512 mm
or a maximum cut block width of 350 mm
- ▶ worldwide unachieved **processing reliability**





Front edge cutting unit

KOLBUS.

CERMI XCR 100

The CERMI XCR 100 can be used to achieve a precise and particularly gentle front trim when processing flap brochures. For an optimum production sequence and reduced production times, the CERMI front edge cutting unit can be integrated into a KOLBUS perfect binding line.

In the horizontally arranged cutting technology, the folded-in covers are separated from the block by means of suction belts and not subjected to mechanical stress – ideal for processing reliability. Due to the separate use of the suction belts, products with only one flap – at the front or back – can also be processed.

For spine lengths up to a max. of 512 mm and a block thickness of up to 55 mm, the CERMI CXR 100 is unique being able to economically process 2 up blocks. Depending on the format, the capacity can also be increased by cutting two products with one cut.

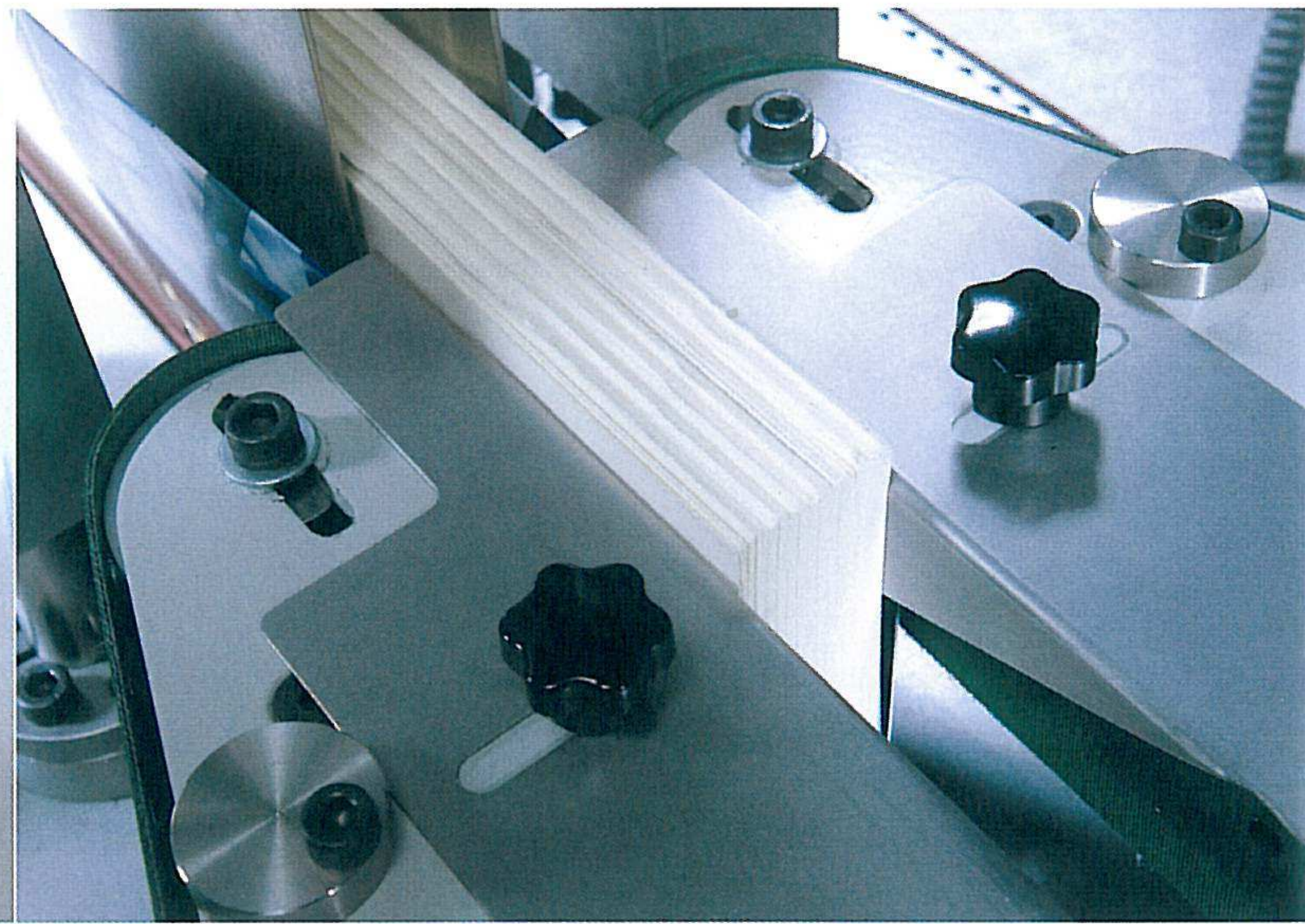
- Suitable for all conventional cover materials from 120 to 400 g/m²
- A cover overhang between 0 and 10 mm is possible

The KOLBUS UKV 400 flap turn-in device is available to create the folded-in covers.

CERMI XCR 100: Front trim in one operating step for flush or protruding flaps



▲ Infeed and alignment of the flap brochure



▲ Separating the folded-in covers from the book block

■ Infeed

Perfect integration for inline solutions because vertical positioning can take place from the left or right-hand side as desired.

During the infeed process, the flap brochures are positioned vertically and supplied to the transport channel on their spine.

■ Cyclic feeding and opening of flaps

The aligned brochures are transferred to the opening station in precise cycles. During this process, the folded-in covers are separated gently from the block by means of suction belts.

■ Pressing and cutting station

The book is almost completely pressed in the cutting station and the block overhang is cut against the cutting stick by means of a horizontal knife. This prevents impressions during the cutting process when producing high quality brochures – particularly beneficial for shortened section parts.

■ Delivery

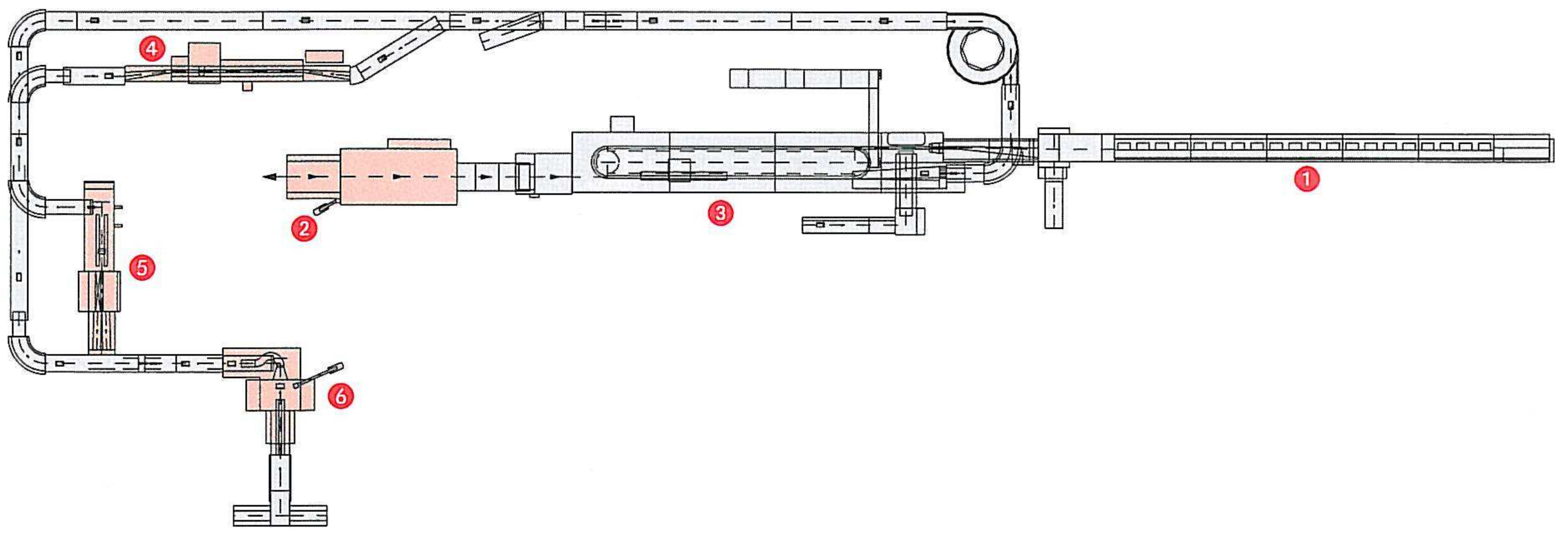
Following the front trim, the brochure is closed with the folded-in covers in the delivery unit and returned to its horizontal transporting position.

- ▶ The folded-in covers are pulled gently from the book block by means of suction belts



- ▶ CERMI XCR 100 – Simple and ergonomic operation due to the moveable operating panel

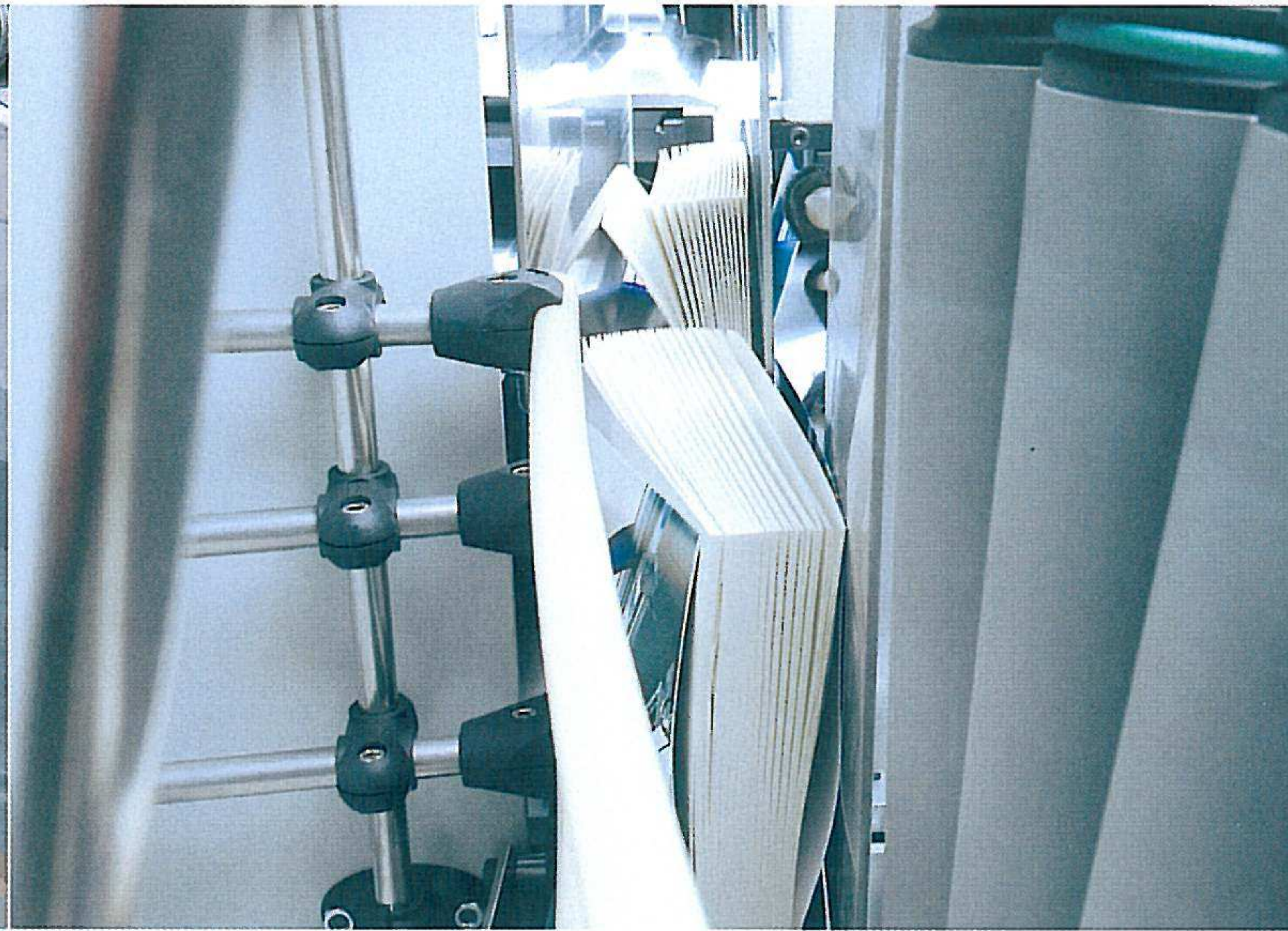
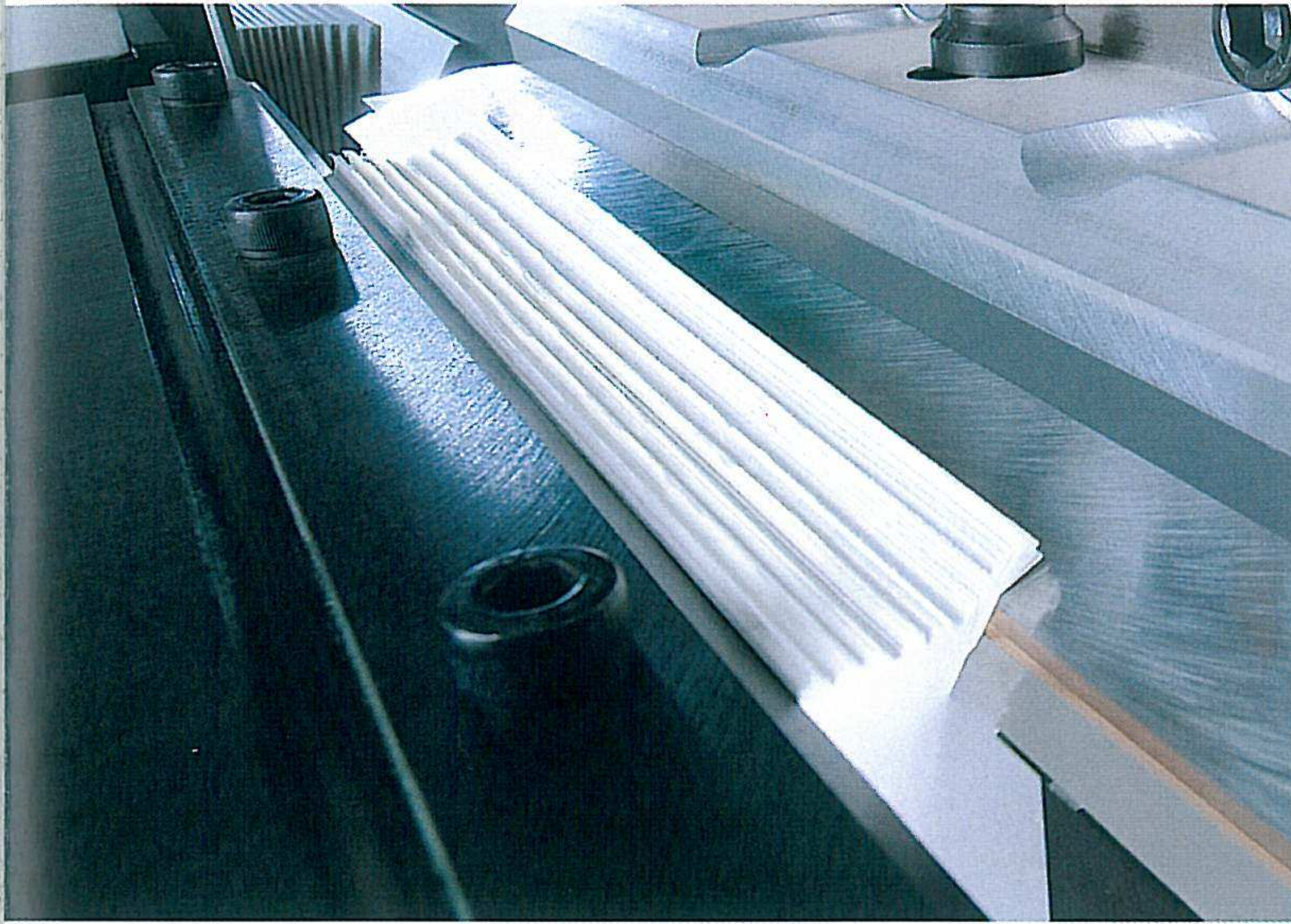




KOLBUS inline production with integrated front edge cutting unit

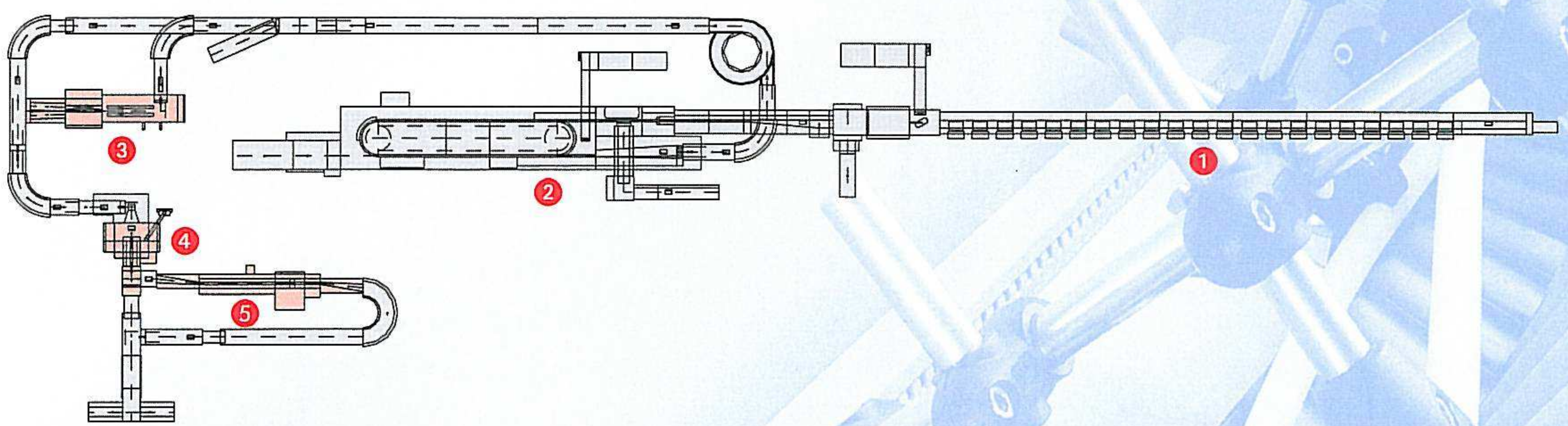
Example 1 – For inline 2 up production incl. UKV flap turn-in device

- ① Gathering machine | ② UKV flap turn-in device Inline version | ③ Perfect binder |
 ④ CERMI Front trim [bypass] | ⑤ Splitting saw [bypass] | ⑥ Three-knife trimmer Head and foot trim



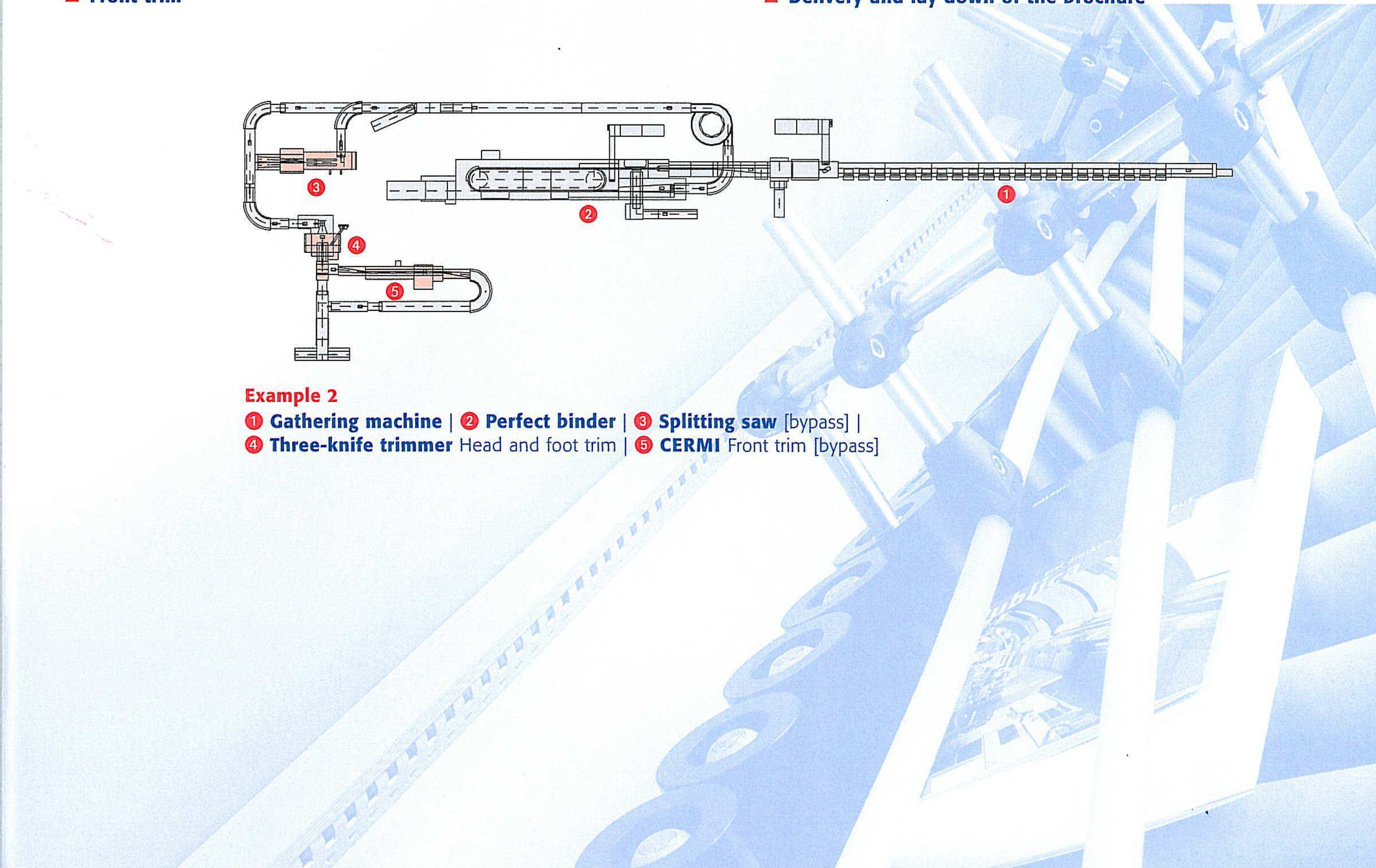
▲ Front trim

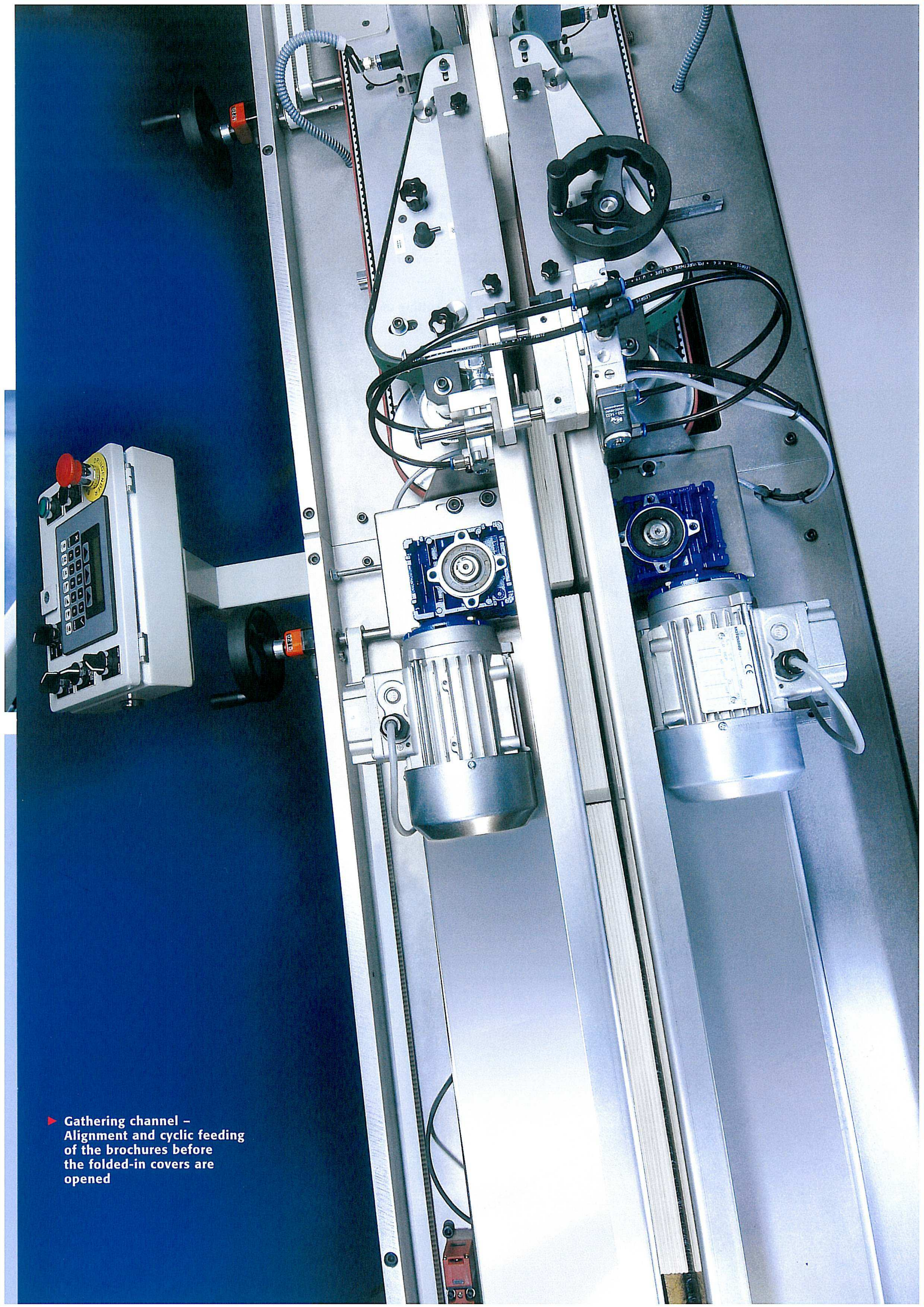
▲ Delivery and lay down of the brochure



Example 2

- ① Gathering machine | ② Perfect binder | ③ Splitting saw [bypass] |
 ④ Three-knife trimmer Head and foot trim | ⑤ CERMI Front trim [bypass]

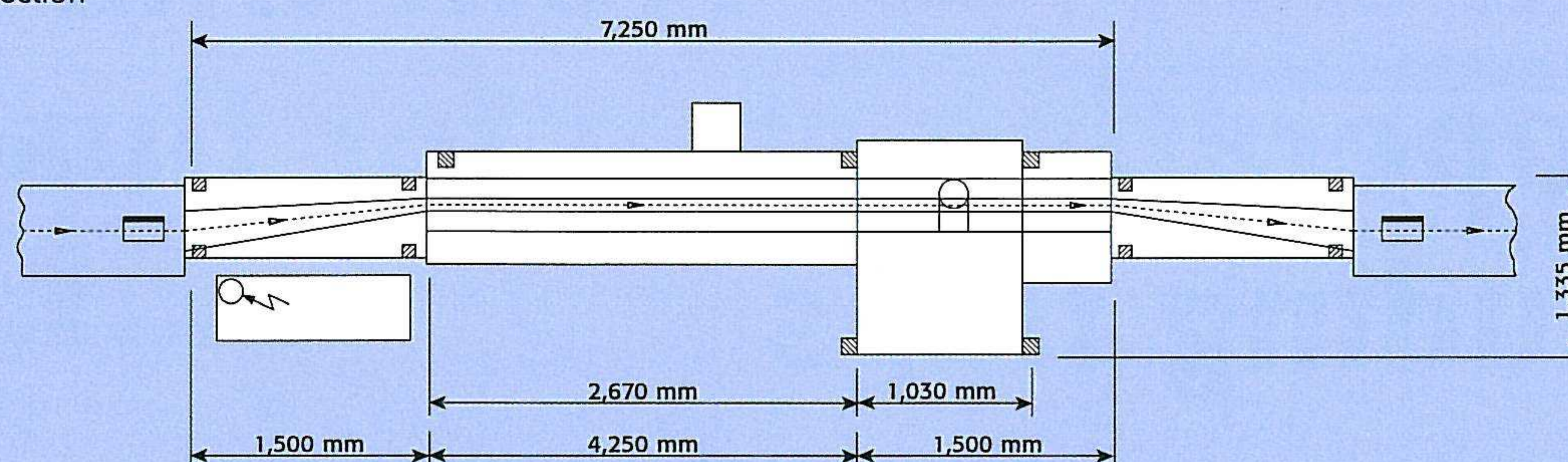




▶ Gathering channel – Alignment and cyclic feeding of the brochures before the folded-in covers are opened

Layout of CERMI XCR 100

- 1 Infeed height 850 mm
- 2 Delivery height 850 mm
- 3 Compressed air connection



Front edge cutting unit CERMI XCR 100

Standard equipment

- Vacuum belts used to open the cover
- Cutting unit
- Device used to close the cover
- Cutting sticks (5)
- Blade protectors (4)
- Infinitely variable, frequency controlled drive
- Safety standard in accordance with EC directives and standards

Optional equipment

- Front knife for the cutting unit
- Tungsten carbide knife | Extremely superfine grained tungsten carbide knife | Without knife

Infeed

Vertical positioning unit/infeed product spine RH
Vertical positioning unit/infeed product spine LH

Delivery

Lay down device/delivery product spine RH
Lay down device/delivery product spine LH

Options

- **Device used to process landscape formats**
Block width: max. 350 mm
Untrimmed book block width: max. 375 mm
- **Device used to trim two products in one cycle**
Block height: max. 215 mm
- **Mechanical operating capacity:**
Block thickness > 3 mm / < 35 mm: max. 6,000 cycles/h
Block thickness > 35 mm / < 55 mm: max. 4,500 cycles/h

CERMI bypass mode

Reversing of the product flow through the use of plate chain conveyors (manual displacement of the vertical positioning and laying down device)
Individual operation of the front cutter unit is not possible in bypass mode

- **Transport speed:** max. 80 m/min
- **Dimension incl. bypass:** Width approx. 3,590 mm

Throughfeed operation

Product transport through the front edge cutting unit without cycling and without trimming

- **Mechanical operating capacity:** max 6,000 cycles/h

Technical data [width x height x thickness]

- **Format range:** min. 100 x 150 x 3 mm |
max. 250 x 460 x 55 mm | optional: 250 x 512 x 55 mm
Block overhang in relation to the cover: min. 3 mm | max. 25 mm
Untrimmed book block width: max. 275 mm
Flap overhang in relation to the book block: 0 mm to max. 10 mm
- **Mechanical operating capacity:** max. 6,000 cycles/h
The net output being dependent on format, material etc.
- **To be supplied by customer:**
Compressed air requirement: 20 Nm³/h | Operating pressure: 6 bar |
Air capacity for waste extraction: 3,000 m³/h, approx. 700 Pa. |
Ø 180 mm
(compressed air supply – refer to extra sheet)
- **Machine dimensions:** Length 7,250 mm (incl. vertical positioning and laying down unit) | Width: 2,950 mm | Height: 2,150 mm
- **Weight:** 3,100 kg
- **Electrical equipment:** 3 phases, 400 Volt/N/PE, 50 Hz



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