**Your strong partner.**

# Perfect Binder Pantera.

## The compact Allrounder for economical Perfect Binding.

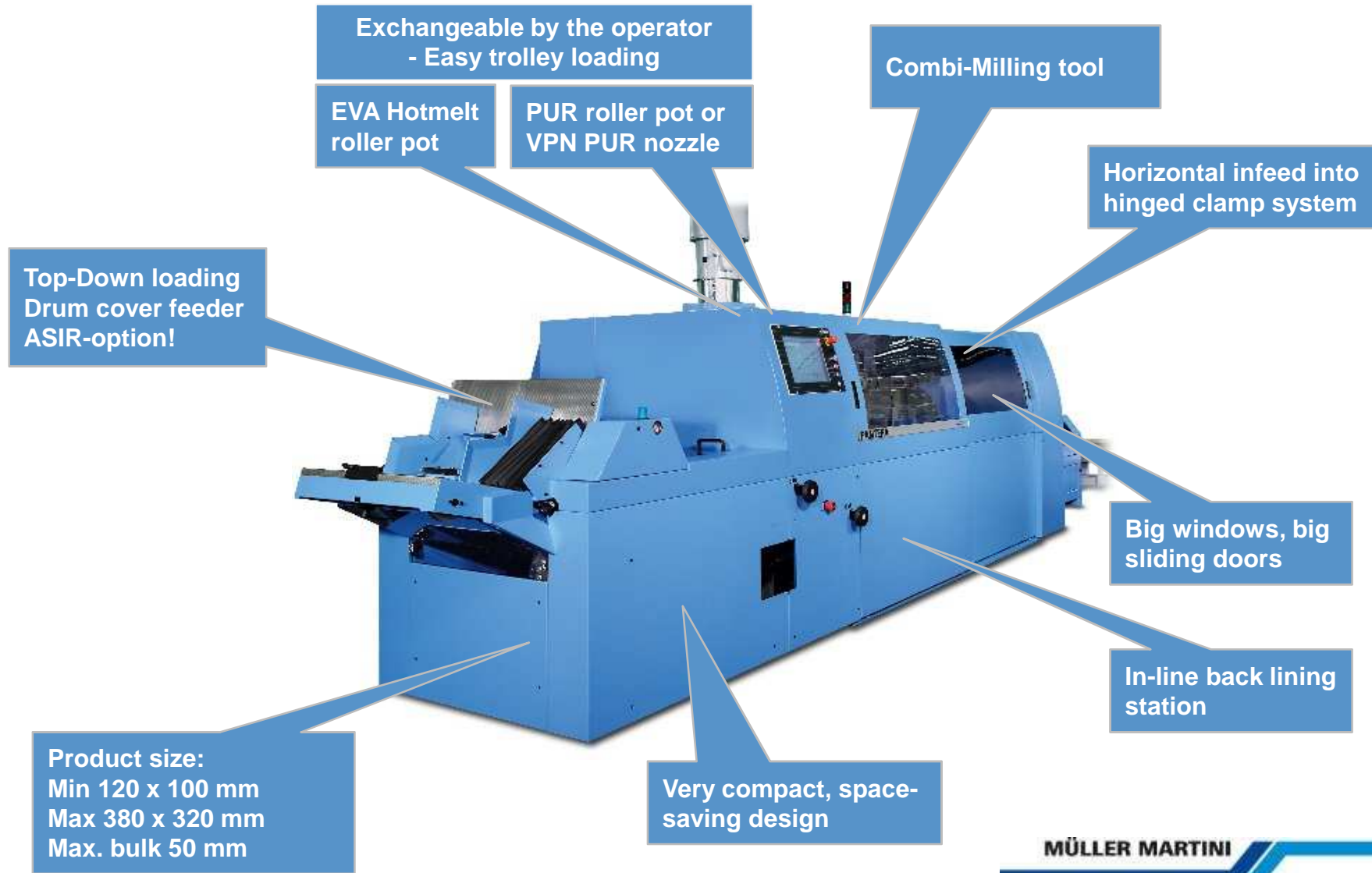**MÜLLER MARTINI**

# USP's / Key Advantages of the Pantera.

➢ **Most compact perfect binder in the class up to 4000 c/hr**

▶ The binder measures less than 8m in length and less than 2m in width

➢ **Top Quality of the bound book and the machine itself**

▶ Hotmelt and PUR adhesive technology, drum cover feeder

➢ *The ideal Perfect Binder – for Offset and Digital print products*

▶ *Run lengths from 10 – 10'000 units/order*

➢ **Modularity and flexibility in perfection**

▶ From the stand-alone version with hand-feed station it is expandable up to a complete in-line binding system with gathering machine, conveyors and three-knife trimmer

# Key features at a glance.

Exchangeable by the operator
- Easy trolley loading

EVA Hotmelt roller pot

PUR roller pot or VPN PUR nozzle

Combi-Milling tool

Horizontal infeed into hinged clamp system

Top-Down loading Drum cover feeder ASIR-option!

Big windows, big sliding doors

In-line back lining station

Very compact, space-saving design

Product size:
Min 120 x 100 mm
Max 380 x 320 mm
Max. bulk 50 mm

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# Key features at a glance.

## Operation via proven MM Commander

► 15″ Touchscreen with simple and intuitive interface

► Operator has all important production parameters on hand and fast access to all work stations

► The intuitive operator interface allows for extremely fast change-over times and production start times

► Easy handling of repetitive jobs thanks to integrated data storage

► Identical concept on all Müller Martini machines





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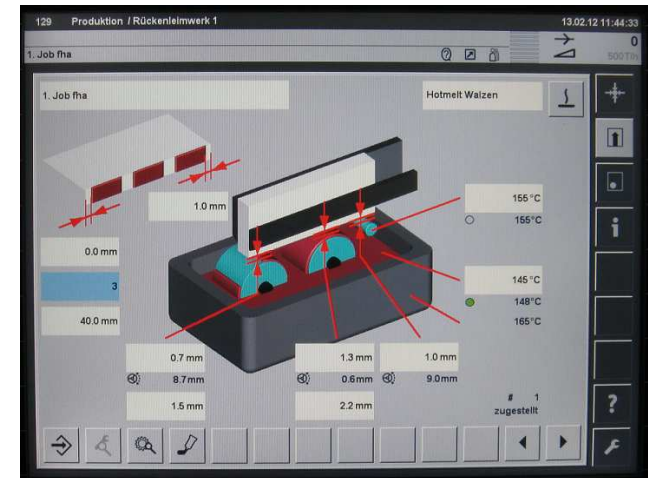
# Key features at a glance.

**Modern line control concept**

► Transparent line control and line overview on central Commander

► Fast changeover with Book Data Center BDC

► Display of the visualisation of all line aggregates: gatherer 3692, perfect binder, conveyors and three-knife trimmer

► Completely networked binding line, messages and warnings of the entire line are displayed

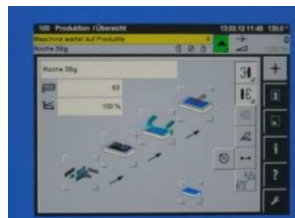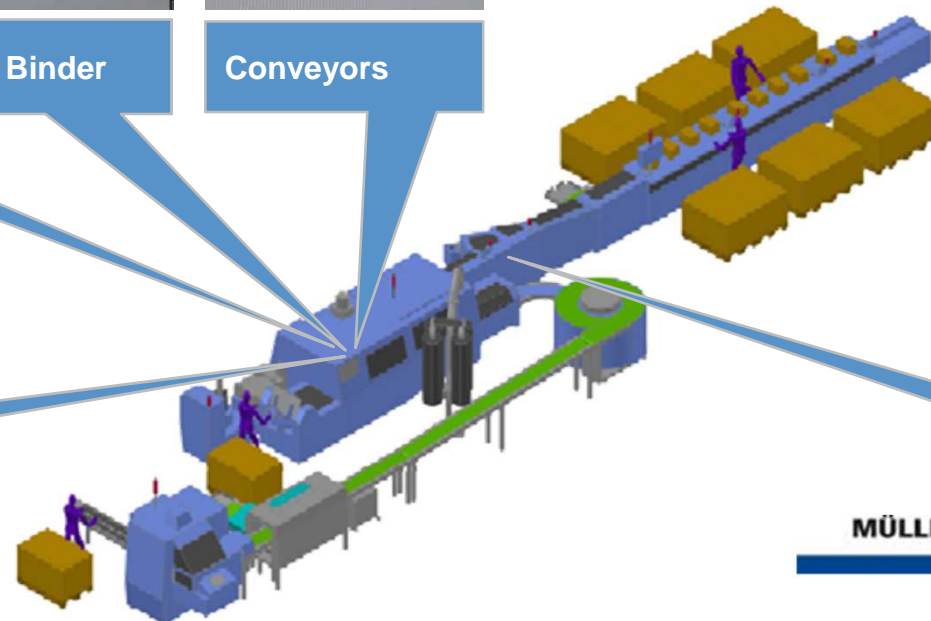► Operator input, fine corrections are possible at any time

**Gathering machine**
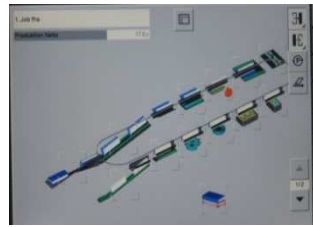
**Perfect Binder**
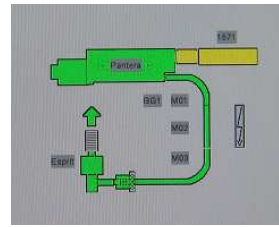
**Conveyors**

**Trimmer**

**Book Data Center**

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# Key features at a glance.

## Hinge clamps

► Ideal for smooth product transfer into clamp

► Automatic thickness setting

► Pressing force generated by torsion springs

► Maintenance-free

► Quick opening mechanism without tool or force



## Spine preparation stations

► Main milling station and one spine preparation station

► Milling and roughening tools (notching, roughening, brushing)

► Quick lowering for production of thread sewn books including press function immediately prior to gluing
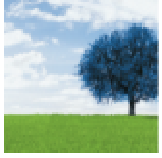
# Key features at a glance.

## Exchangeable glue stations

▶ EVA Hotmelt roller, PUR roller and PUR nozzle stations are interchangeable by the operator

▶ Electronic adjustable glue film length via Commander during production

▶ Optimized pot design, minimal energy use, spot gluing capability

▶ Exchangeable side glue discs

▶ MOD Technology and fast exchange thanks to pre-heating station and movable glue stations

▶ Nozzle system VPN-6, glue refill without machine stop
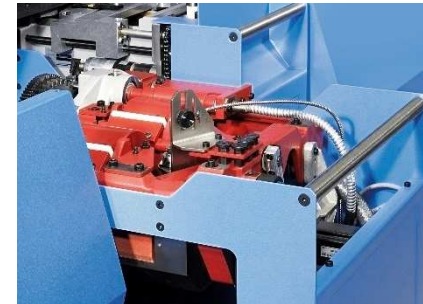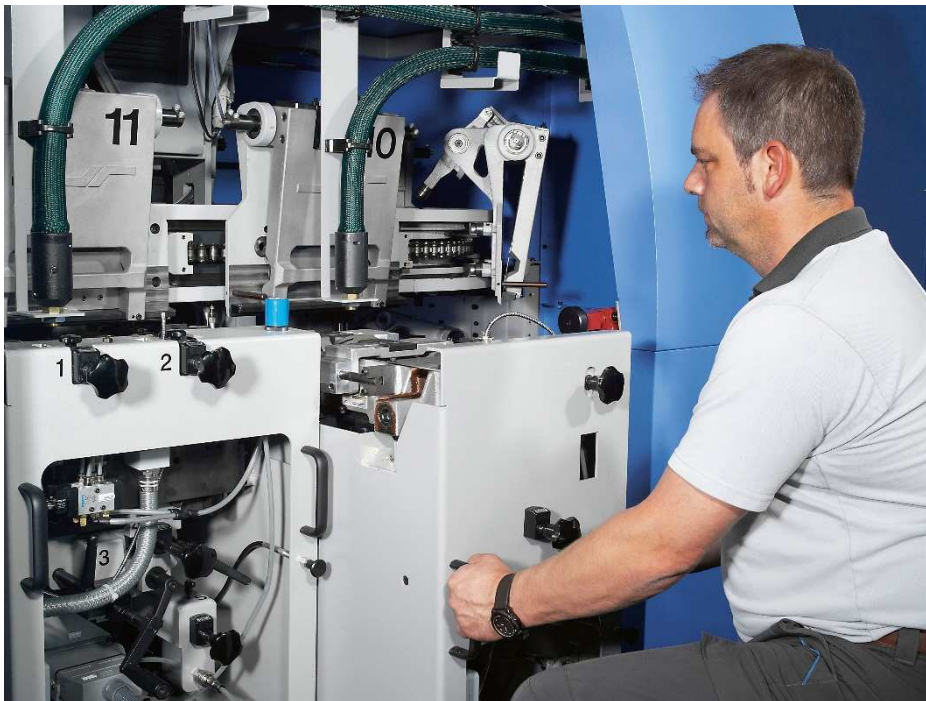






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# Key features at a glance.

## Top-Down Cover feeder

► Drum cover feeder with large loading capacity

► Ergonomic loading height

► Large drum diameter for flexible and secure processing of various formats and covers with flaps

► Low pile detection and warning

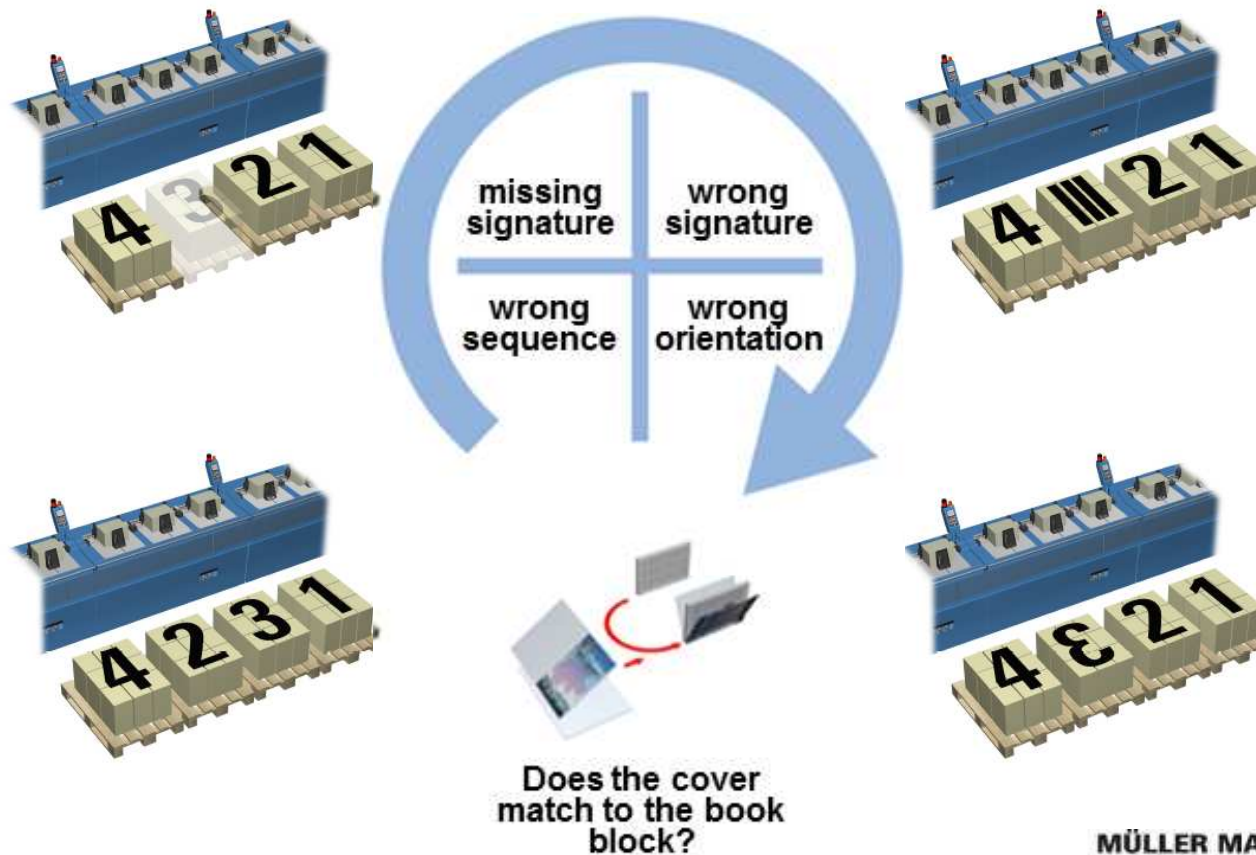► Cover title can be seen during loading, prevents incorrect feeding due to unprinted inside cover

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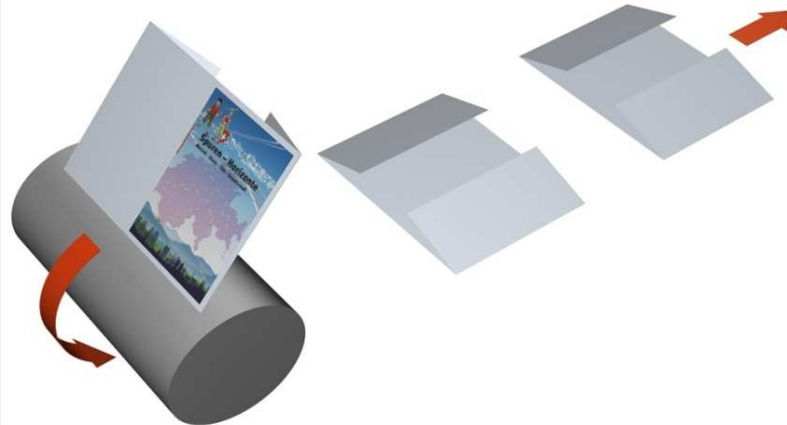
# Key features at a glance.

**Quality control: <u>ASIR as a concept for error-free finishing production!</u>**

►     Guarantees correct product-assembly by means of book verification system

►     AsirCode prevents a production start with incorrectly loaded signatures and cover.



missing signature | wrong signature

wrong sequence | wrong orientation

Does the cover match to the book block?

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# Key features at a glance.

## Lining station

▶ Lengthwise feeding of lining material

▶ Precise positioning of the lining material via vacuum application roller

▶ Tool-ess roll change thanks to quick tensioning device

▶ Processing of layflat brochures (in two passes)





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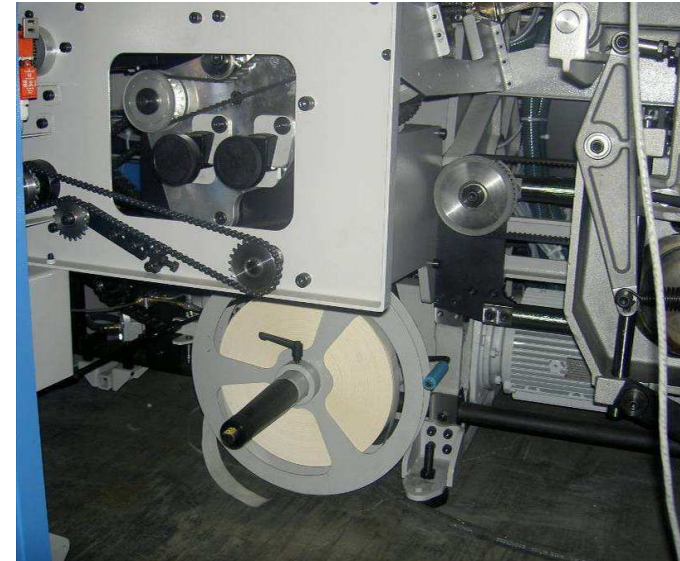
# Key features at a glance.

**Gathering Machine 3692**

► Ideal addition to the Pantera

► Reliable and proven drum principle with flat raceway channel

► Quick, menu-guided set-up

► Feeding and operation from both sides

► Raceway channel access from left <u>and</u> right side

► Automatic, self-calibrating thickness detection "Asac"

► Sequential start and stop

► Asir 3, optical picture or barcode recognition

► Optional CrissCross Delivery





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# Key features at a glance.

**Best in class: Three-Knife Trimmer Granit**

▶ Ideal solution to Pantera

▶ SmartPress Technology for perfect cut quality

▶ Large format range

▶ Swing-pull cut

▶ Massive, single-piece casting

▶ Up to 2'500 c/hr

**High initial approach speed**

**Reduction of speed**
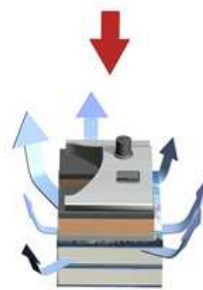
**Air escapes thanks to smooth pressing. Optimal pressing of the book block by increasing pressing force just prior to the cut**
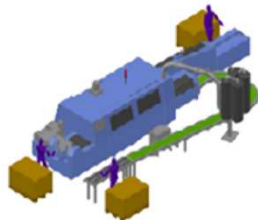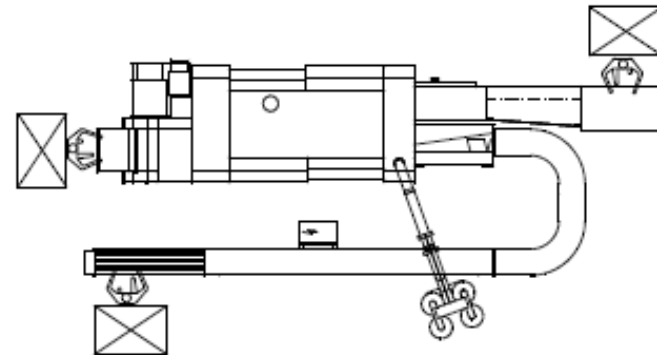
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# Key features at a glance – Modular Design.

**Modularity and flexibility in perfection**

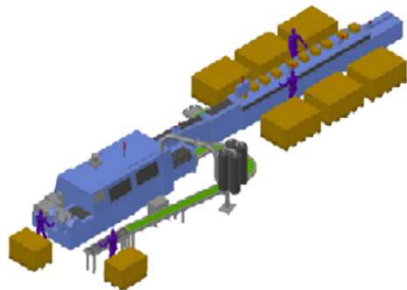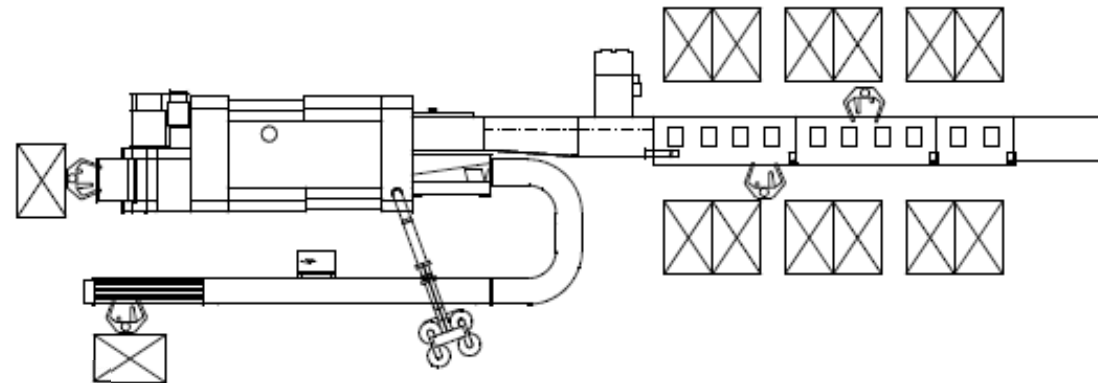► Pantera – As solo-machine with hand-feed station

# Key features at a glance – Modular Design.

**Modularity and flexibility in perfection**

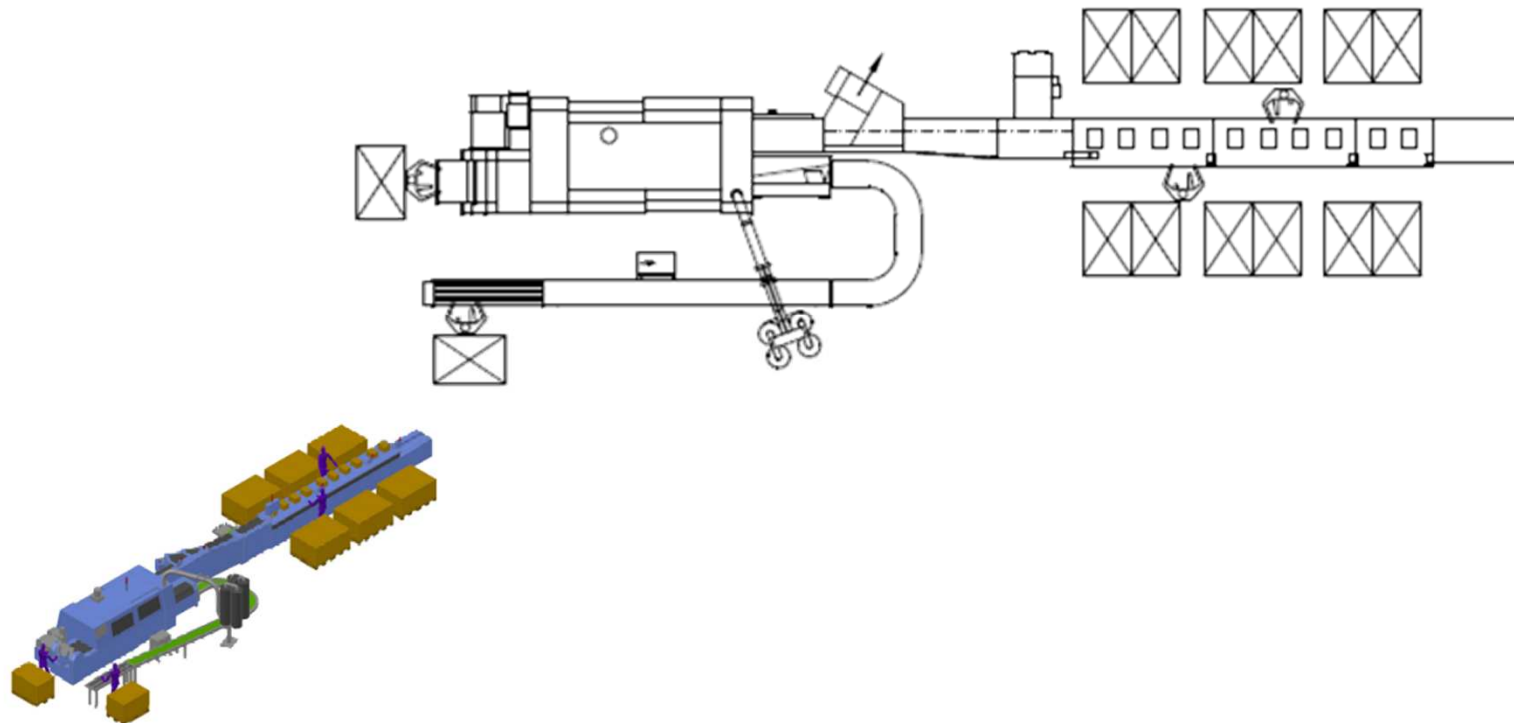► Pantera – in-line with gathering machine 3692 and reject gate

# Key features at a glance – Modular Design.

**Modularity and flexibility in perfection**

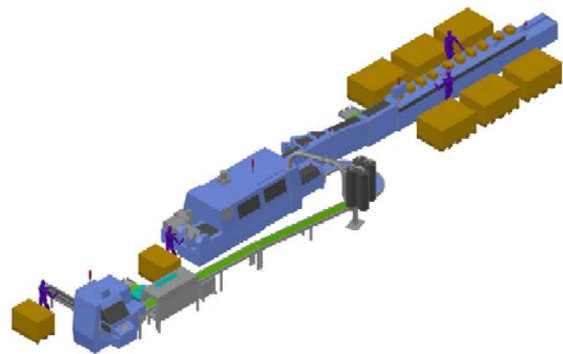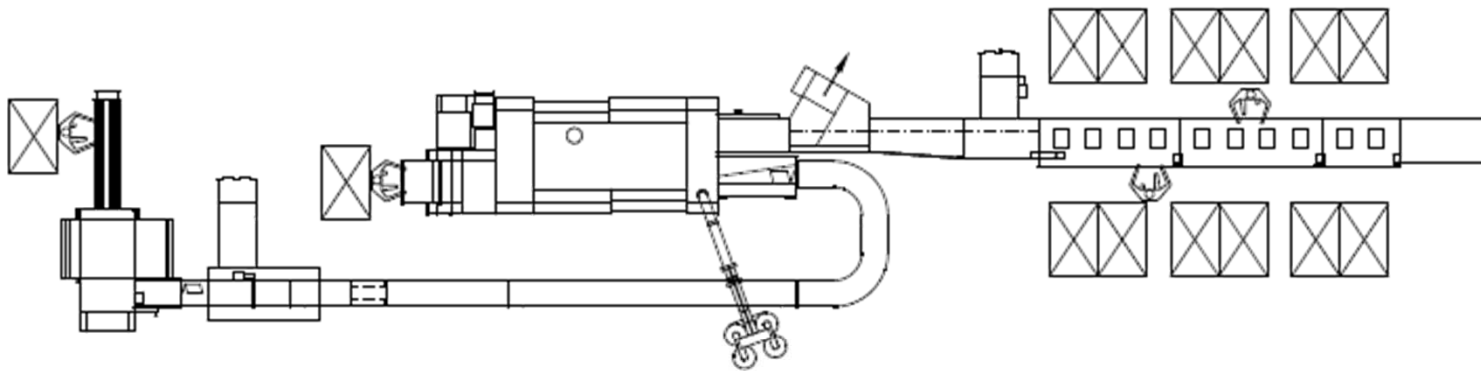► Pantera – in-line with gathering machine 3692 and Criss Cross delivery

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# Key features at a glance – Modular Design.

**Modularity and flexibility in perfection**

► Pantera – In-line with gathering machine 3692 and three-knife trimmer Granit complete for Hotmelt production
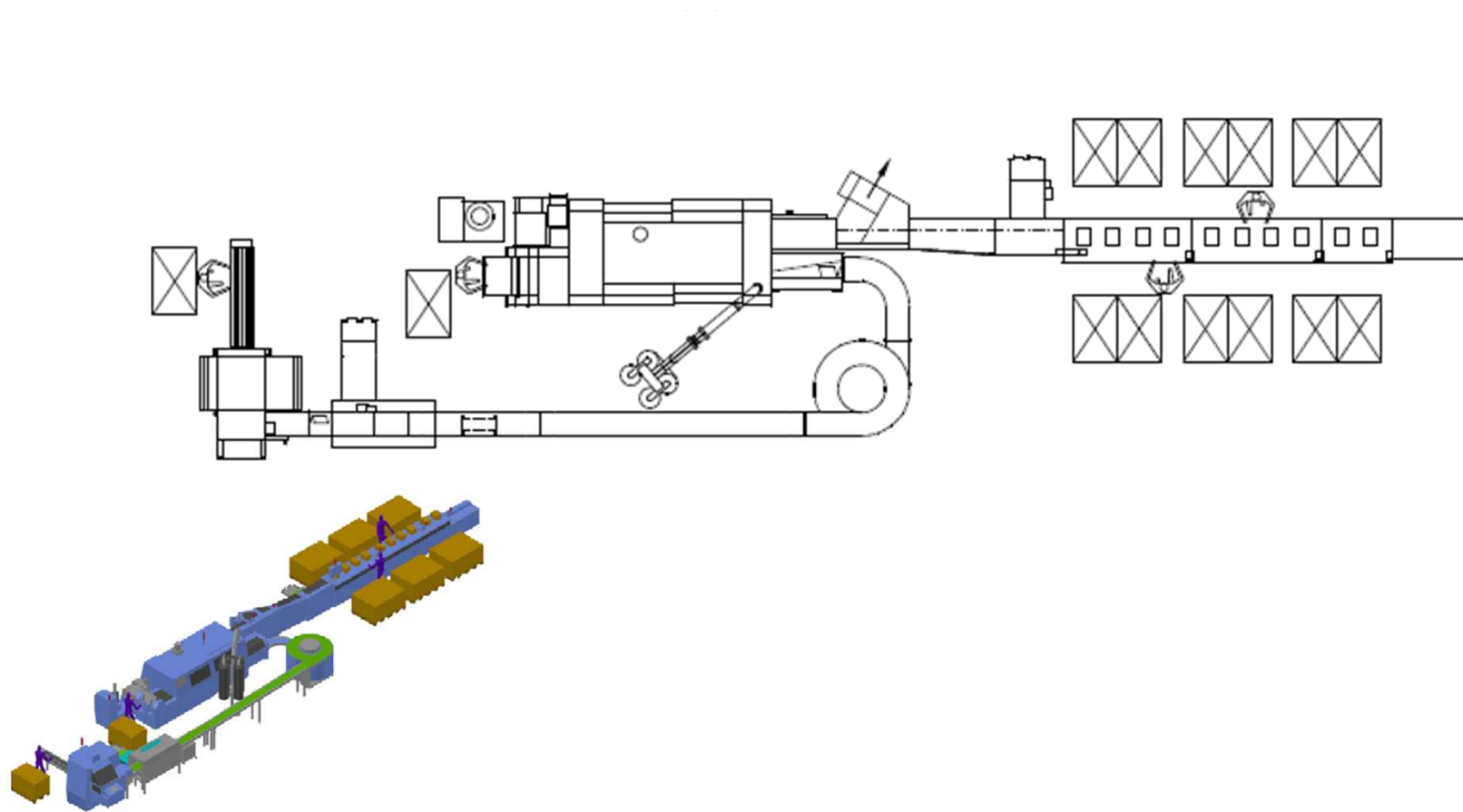
**MÜLLER MARTINI**

# Key features at a glance – Modular Design.

**Modularity and flexibility in perfection**

► Pantera – in-line with gathering machine 3692 and three-knife trimmer Granit complete for PUR-Production
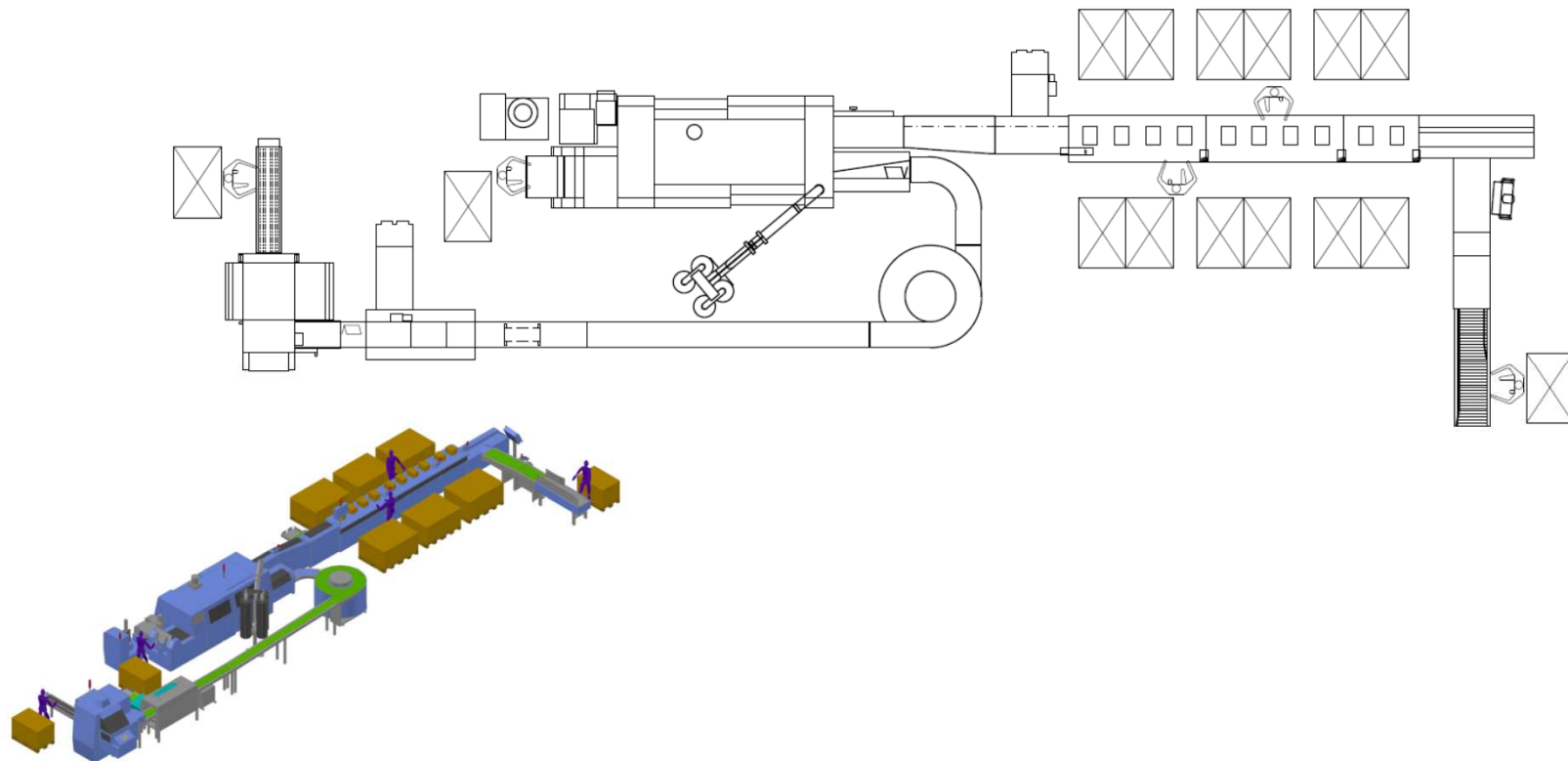
# Key features at a glance – Modular Design.

**Modularity and flexibility in perfection**

► Pantera – inline with gathering machine 3692 and three-knife trimmer Granit and lose book pile infeed for hybrid-operation (Digital and Offset).
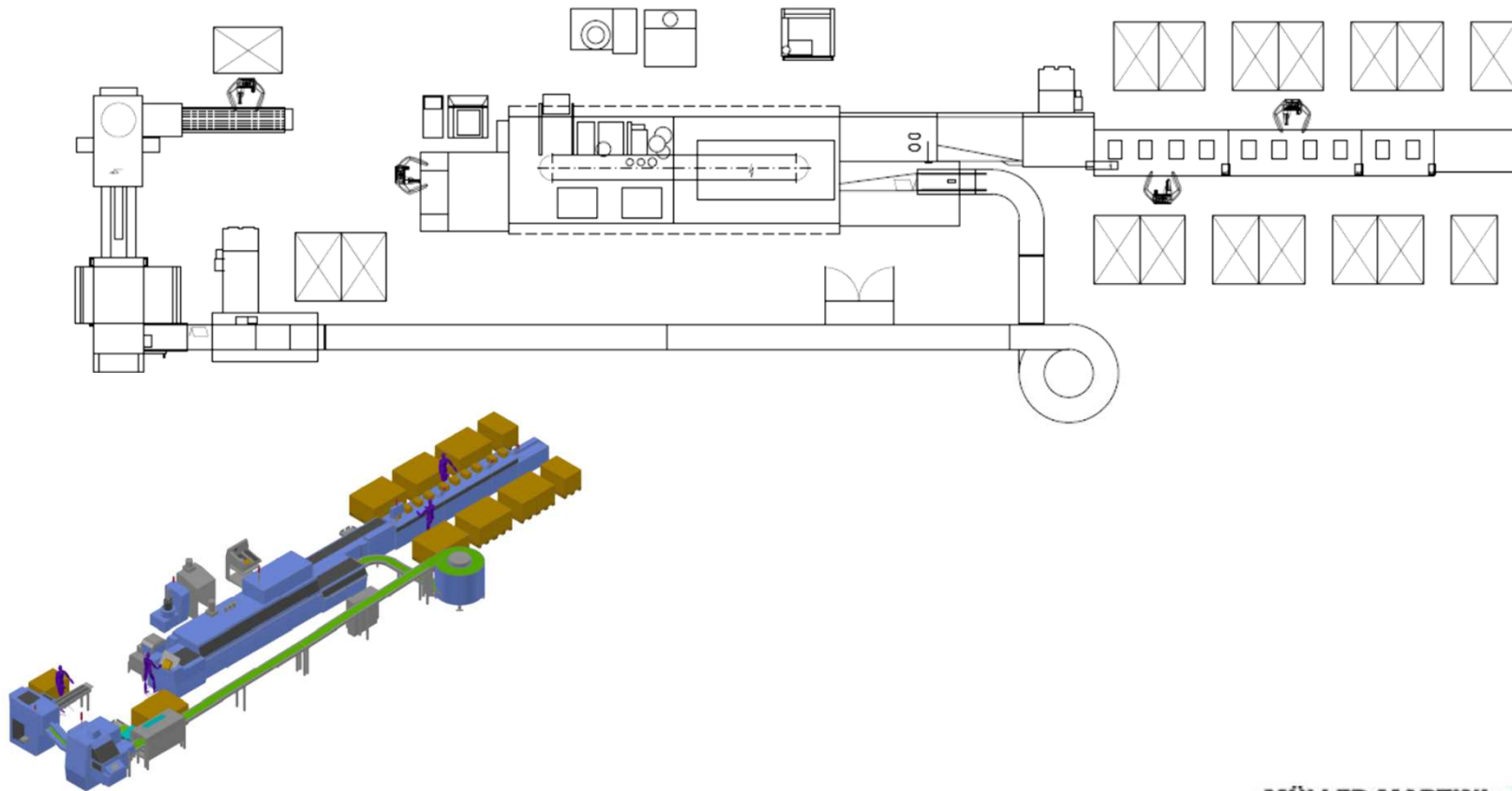
# Key features at a glance – Modular Design.

**Modularity and flexibility in perfection**

► Pantera – **Upgrade to the Alegro MC platform** in-line with existing gathering machine 3692 and existing three-knife trimmer Granit.
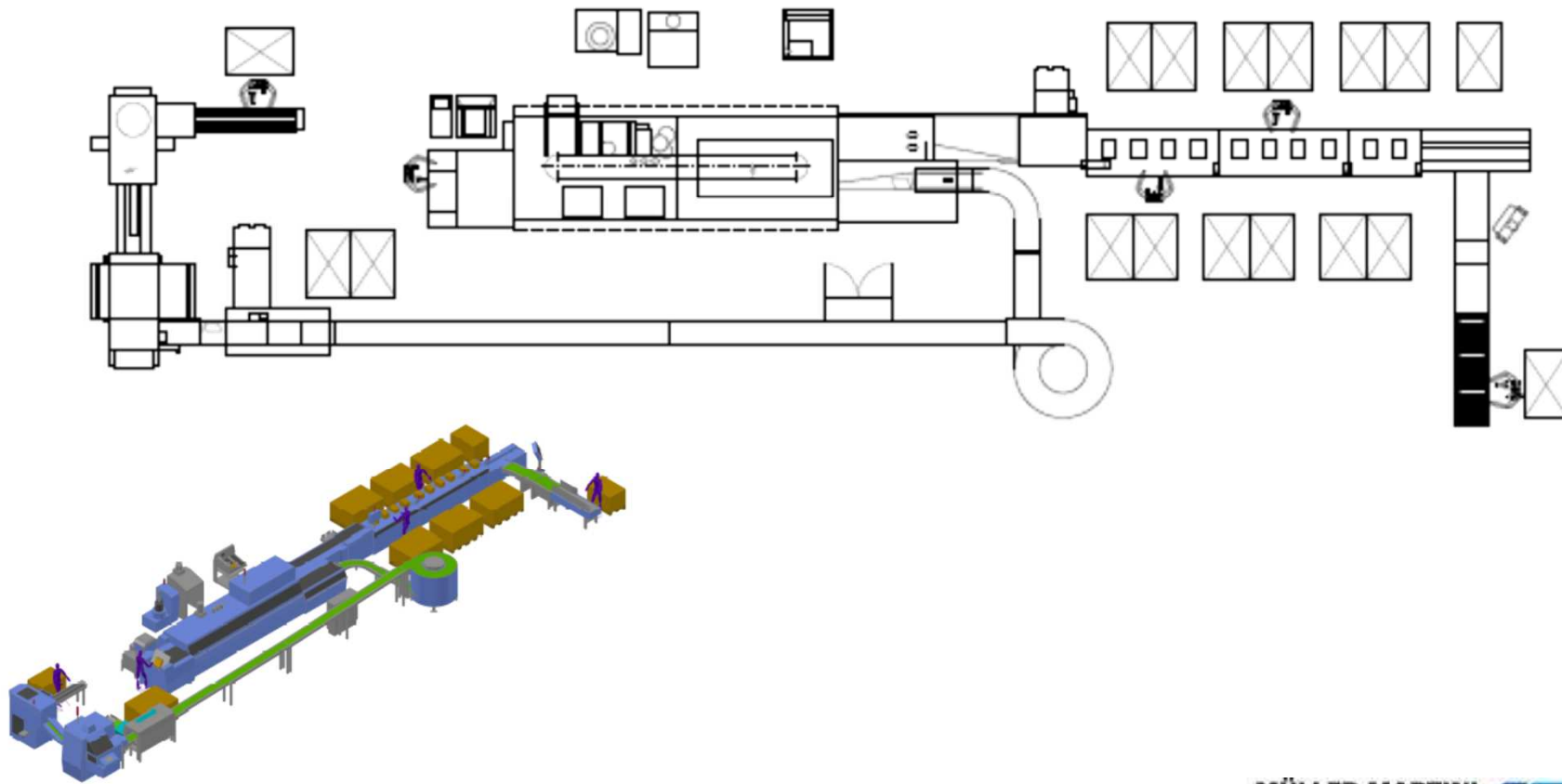
► **Maximal investment protection!**

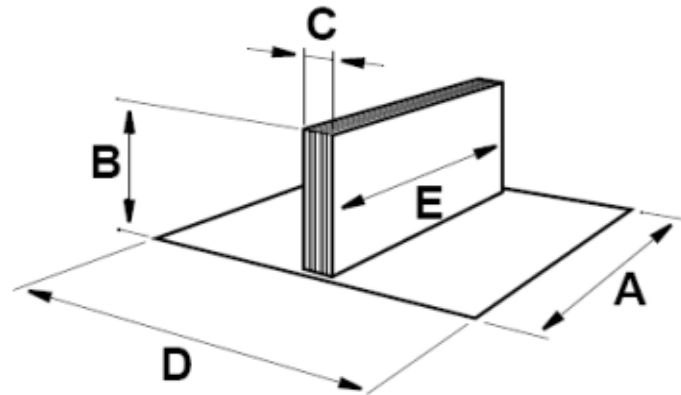0164.1611.1

# Key features at a glance – Modular Design.

**Modularity and flexibility in perfection**

► Pantera – Inline with gathering machine 3692 and Three-Knife Trimmer Granit complete for Hotmelt- and PUR Production and processing of digital book blocks via lose pile infeed 3720.

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# Technical specification.



| Maximal mechanical speed | 4000 c/hr |
|---|---|
| Number of clamps | 9 |
| Spine length – E | 120 - 380 mm |
| Book width – B | 100 - 320 mm |
| Book thickness – C | 2 - 50 mm |
| Cover length – A | 120 - 390 mm |
| Cover width – D | 202 - 640 mm |
| Weight content | 60 - 170 g/m² |
| Weight cover | 80 - 350 g/m² |
| Milling depth | 0 - 4 mm |

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**High-Quality System Solutions and First-Class Services for the Graphic Arts Industry. Cutting-Edge Technology. A Global Presence.**

**Thank you for your attention.**

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