

END OF LINE SYSTEMS

TRADITION IN END OF LINE AND SECONDARY PACKAGING SOLUTIONS



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A LONG TRADITION IN END OF LINE AND SECONDARY PACKAGING MACHINES

CIEMME s.r.l. operates, since 1985, in end-of-line packaging machine and it is able to offer a complete range of carton packaging machines and loading unit (robots).

- Electronic, mechanic or pneumatic forming machine for lock or glue cartons
- In-line continuous (3 flaps) or intermittent (single flap) motion closer for hinge cover cartons
- Right-angle continuous motion closer for 3 flaps hinge cover cartons
- Horizontal continuous or intermittent cartoning machines with automatic or manual products loading
- Top or Side loading case packer for collating, grouping and packaging products in regular slotted cases (RSC)
- Wraparound packer for collating, grouping and packaging products in wraparound cases, display cases and trays
- Complete and flexible packaging lines thanks to robot loading units equipped with single or double vertical race track to group and load products into cartons and cases
- Special packaging lines or machines upon customers requests.

Ciemme joins the IMA Group in 2018 in order to grow up and enhance its chances of reaching unexplored markets and in order to have and give the opportunity to offer to the customers turn-key solutions.

OUR KEYWORD IS VERSATILITY

Thanks to the tradition in the end of line market, we apply our experience and knowledge to create the best solution for the needs of our customers. We do our best to respond to a growing demand for specific and customized applications. Our technical departments design, improve and continuously develop innovative solutions in order to guarantee high performance, flexibility, efficiency and maximum safety for both operator and the product, for successful results.



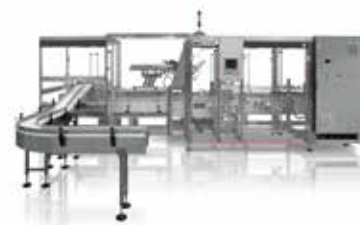
FORMING MACHINES

The FE/FM/FP forming machines (with single, double or triple forming head) are suitable for erecting a variety of cartons and trays starting from a flat blank (E-flute and corrugated carton) by means of hot-melt, turn-over end walls or locks.



CONTINUOUS CARTONING MACHINES

The AC is a continuous cartoner designed to handle a wide range of carton formats allowing a gentle product loading at high speeds. The AC uses a 3-head rotary feeder with positive pre break for maximum speed and efficiency, glue (or tuck-in) flap closing. Touch screen controls deliver ease of use and step by step changeover for reliable and repeatable operations.



INTERMITTENT CARTONING MACHINES

The AI is an intermittent cartoner designed to handle a wide range of carton formats allowing a gentle product loading at medium-low speed. Feathering pusher mechanism using a 2-axis design, provides access to change pusher heads from the operator side, glue (or tuck-in) flap closing. Touch screen controls deliver ease of use and step by step changeover for reliable and repeatable operations.



WRAP AROUND MACHINES

The WA is a wraparound case packers for packing products such as bags, boxes, flow-wraps and rigid containers into wrap-around cases, display cases and trays. By means of suitable loading devices, products can be positioned into the case flat, on edge or standing up on one or multiple layers.

CLOSING MACHINES

The TL is either an in-line or right-angle continuous or intermittent motion closer for single flap hinge cover cartons or 3 flaps cartons. Controlled carton transport system, glue flap closure, quick and repeatable changeovers.



MONOBLOCK LOADING UNIT

The MB series is a combination of integrated packaging machines (forming and closing / lidding) with robotic loading units, incorporating reduced footprint, flexible size changing, high reliability and gentle product handling.



LOADING UNIT MACHINES

TOP LOADING for synchronized products arrival. The CR is a versatile and modular Top Loader able to collate products individually and place them either flat or on edge in a vertical race track prior to being picked as a group and top loaded (Delta Robot) into cartoners (hinged lid boxes or RSC cases), side load cartoner or flow wrapper. It can be used for a wide variety of Secondary Packaging applications and can be easily integrated with vertical form fill seal (VFFS) and horizontal form fill seal (HFFS) machines. Customers can select the secondary packaging best suited to their products depending on bag style, shelf ready requirements and pack patterns. The CR can be provided, if necessary, with a variety of infeed system, multiple collecting unit and robots.



CASE PACKER MACHINES

The automatic case packer APC series is suitable to package products into regular slotted cases (RSC) with hot melt or tape closure. The wide range of loading systems available (top or side load), gives the chance to automate the packaging of several products such as bags, boxes, flow-wraps, rigid containers and over-wrapped groups of products.



SLEEVING MACHINES

The MP is a cardboard sleeving machine for packing bottles, cups, jars, cans and thermoformed containers from single or double lanes up to two product layers. Cardboard sleeve closing by means of hot-melt gluing on the bottom or top of the packs.



FORMING MACHINES

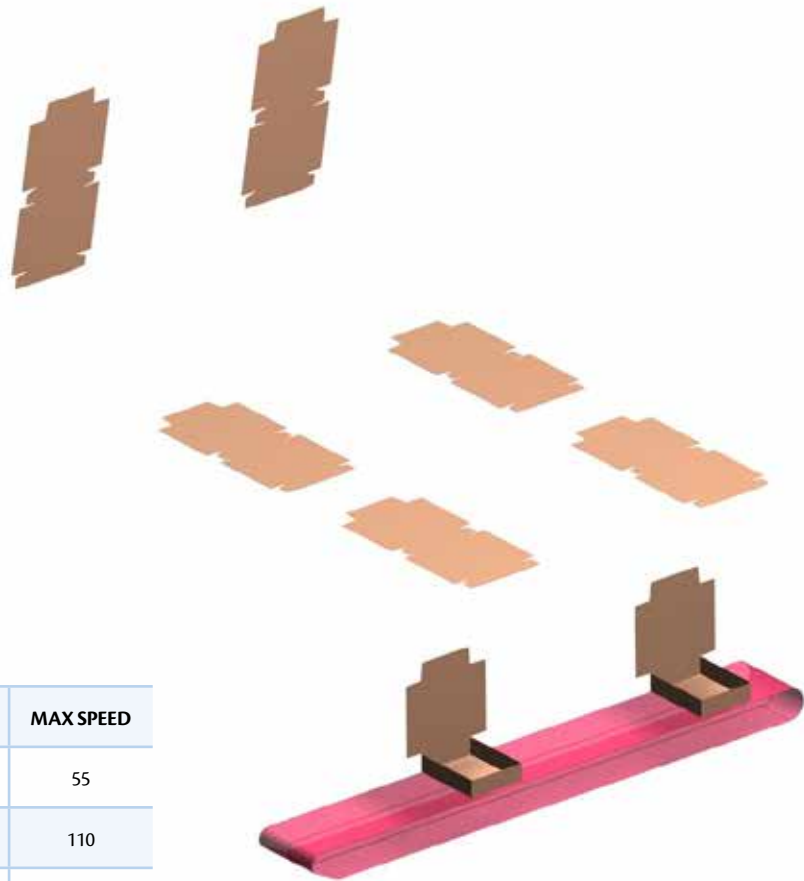


FORMING MACHINES

The FE/FM/FP forming machines (with single, double or triple forming head) are suitable for erecting a variety of cartons and trays starting from a flat blank (E-flute and corrugated carton) by means of hot-melt, turn-over end walls or locks.



WORKING CYCLE



M/C MODEL	SIZE GROUP (MIN-MAX)	MAX SPEED
FES01	140x110x20 (h) - 400x230x100 (h)	55
FED01	140x110x20 (h) - 180x390x100 (h)	110
FET01	140x110x20 (h) - 180x390x100 (h)	150
FMDKS	85x110x20 (h) - 260x380x80 (h)	60
FMDKD	85x110x20 (h) - 260x380x80 (h)	120
FMDKT	85x110x20 (h) - 260x320x80 (h)	150

CONTINUOUS CARTONING MACHINES

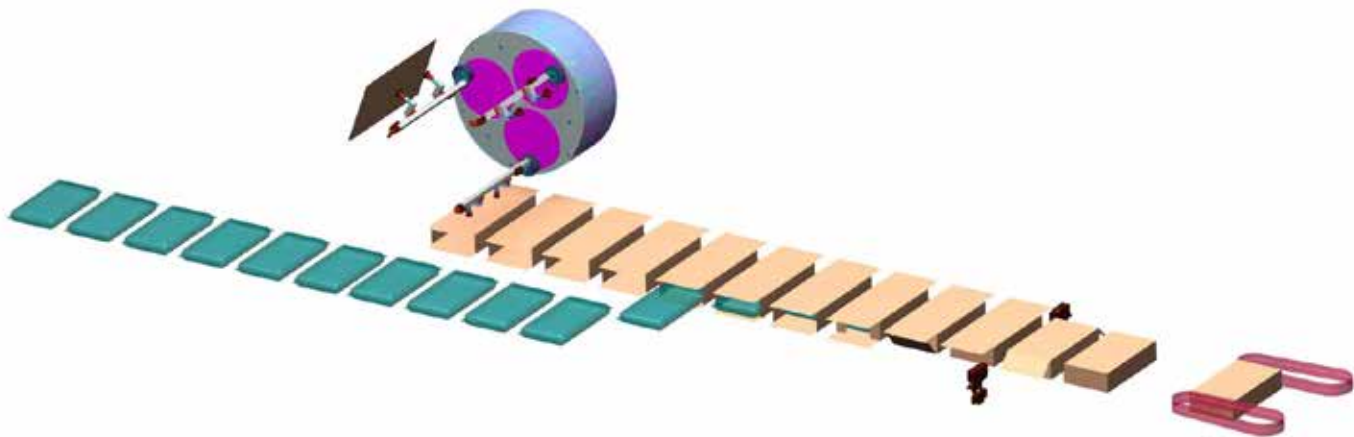


CONTINUOUS CARTONING MACHINES

The AC is a continuous cartoner designed to handle a wide range of carton formats allowing a gentle product loading at high speeds. The AC uses a 3-head rotary feeder with positive pre break for maximum speed and efficiency, glue (or tuck-in) flap closing. Touch screen controls deliver ease of use and step by step changeover for reliable and repeatable operations.



WORKING CYCLE



M/C MODEL	SIZE GROUP (MIN-MAX)	MAX SPEED
AC200	40x120x15 (h) - 300x320x85 (h)	200

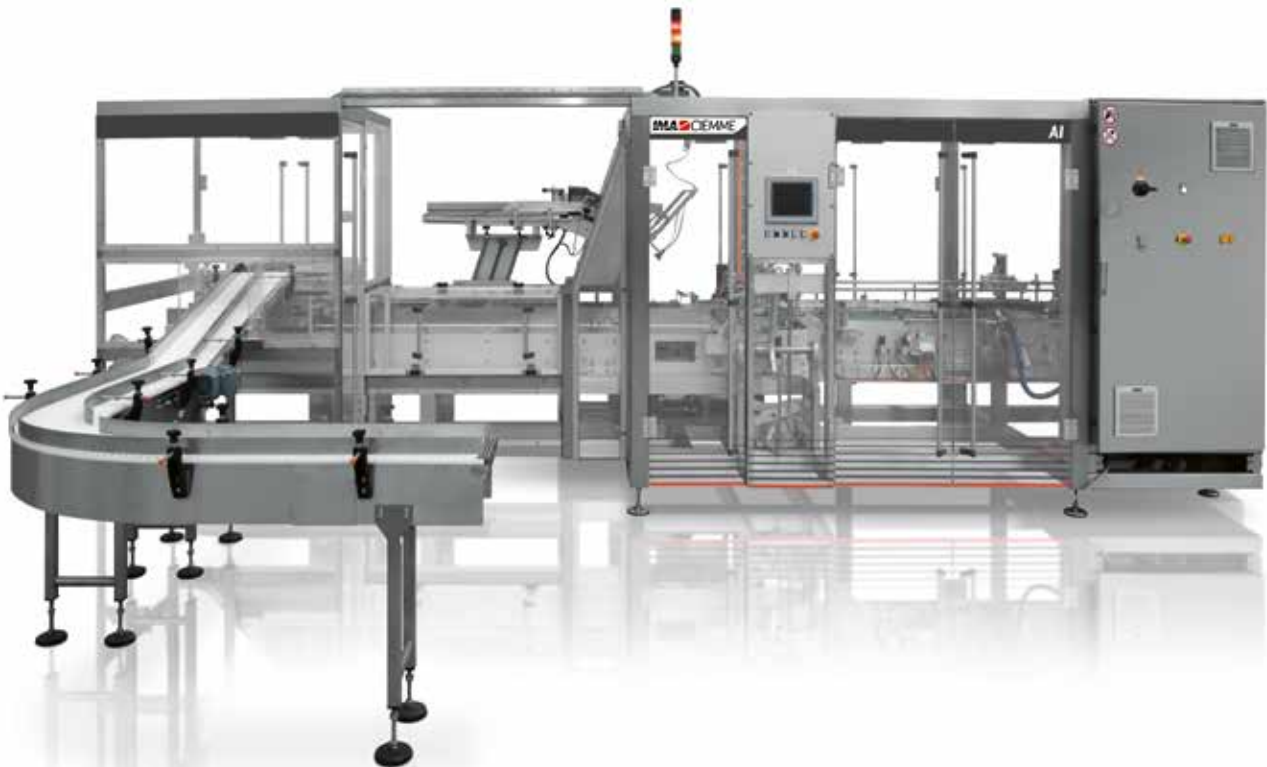
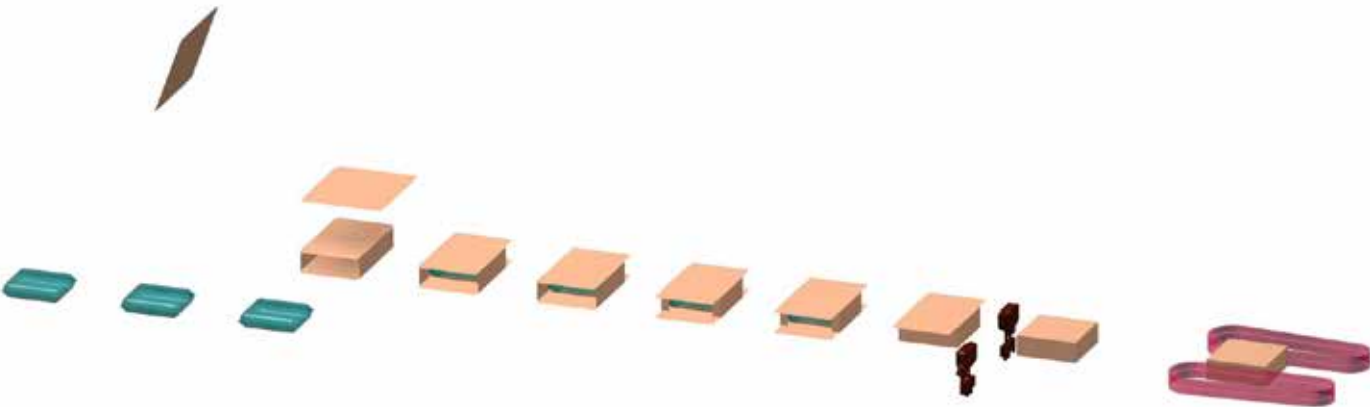
INTERMITTENT CARTONING MACHINES



INTERMITTENT CARTONING MACHINES

The AI is an intermittent cartoner designed to handle a wide range of carton formats allowing a gentle product loading at medium-low speed. Feathering pusher mechanism using a 2-axis design, provides access to change pusher heads from the operator side, glue (or tuck-in) flap closing. Touch screen controls deliver ease of use and step by step changeover for reliable and repeatable operations.

WORKING CYCLE



M/C MODEL	SIZE GROUP (MIN-MAX)	MAX SPEED
AI50	35x100x25 (h) - 350x300x80 (h)	70

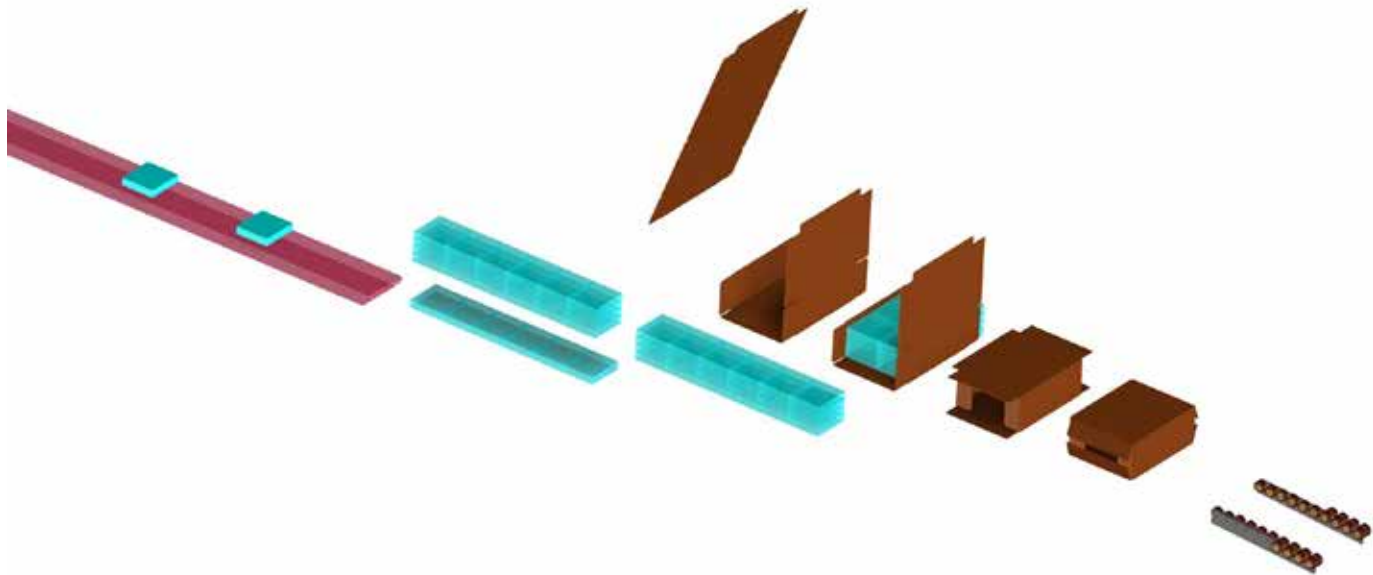
WRAP AROUND MACHINES



WRAP AROUND MACHINES

The WA is a wraparound case packers for packing products such as bags, boxes, flow-wraps and rigid containers into wrap-around cases, display cases and trays. By means of suitable loading devices, products can be positioned into the case flat, on edge or standing up on one or multiple layers.

WORKING CYCLE



M/C MODEL	SIZE GROUP (MIN-MAX)	MAX SPEED
WA001	150x150x150 (h)	15

CLOSING MACHINES



WORKING CYCLE



RIGHT-ANGLE CONTINUOUS
MOTION CLOSER FOR 3
FLAPS CARTONS

The automatic linear Closing machine is suitable to close the boxes along the three lateral flaps by hot melt closure. Hot melt is set by wheels system (one wheel sets the glue along the longest side of the box, the other two wheels close the two smallest sides after the box rotation of 90°). The changeover size can be easy made by means of handswheel regulation system. The machine is provided with independent motor and a synchronising device placed at the enter on the machine.



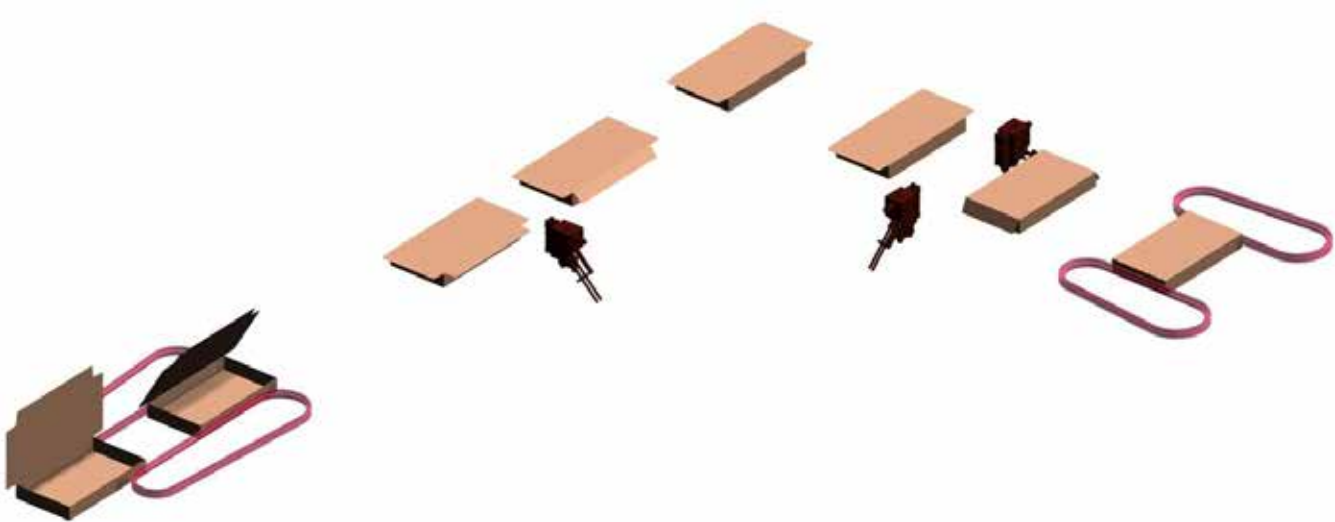
IN-LINE INTERMITTENT
MOTION CLOSER FOR
SINGLE FLAP CARTONS

The intermittent linear closing machine is able to close the boxes with frontal flap (outside) by hot melt, set by means of wheel system. The changeover size can be easy made by means of handswheels system. The machine is complete with independent motor and a synchronising device placed at the enter on the machine, able to take the boxes from the belt and put them in synchronism with the closing machine speed.



IN-LINE CONTINUOUS
MOTION CLOSER FOR 3 FLAPS
CARTONS

The Electronic linear closing machine is suitable to close the boxes along the three lateral flaps by hot melt closure. Hot melt is set by guns system (one gun sets the glue along the longest side of the box, the other two guns close the two smallest sides). The changeover size can be easy made by means of handswheel regulation system. The machine is provided with independent motor and a synchronising device placed at the entering of the machine.



M/C MODEL	SIZE GROUP (MIN-MAX)	MAX SPEED
CLI50	50x100x30 (h) - 170x230x80 (h)	50
TL70	50x100x30 (h) - 200x250x80 (h)	70
TL100	85x100x30 (h) - 200x250x80 (h)	120
TL150	85x100x30 (h) - 200x250x80 (h)	150
TL200	85x100x30 (h) - 200x250x80 (h)	200

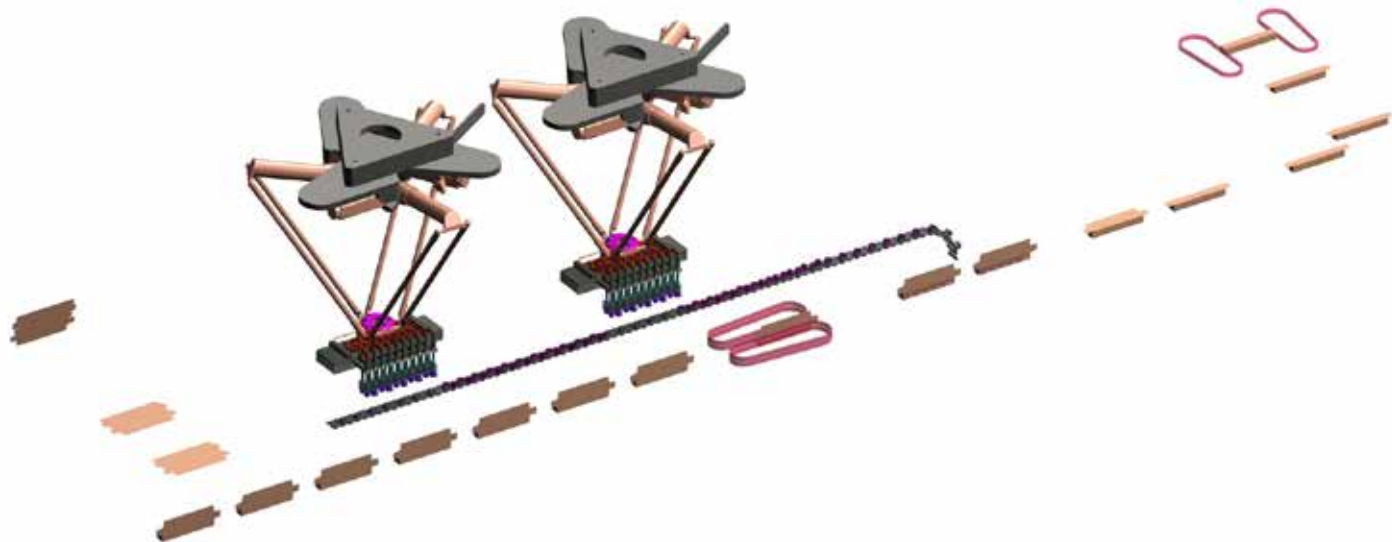
MONOBLOCK LOADING UNIT



MONOBLOCK LOADING UNIT

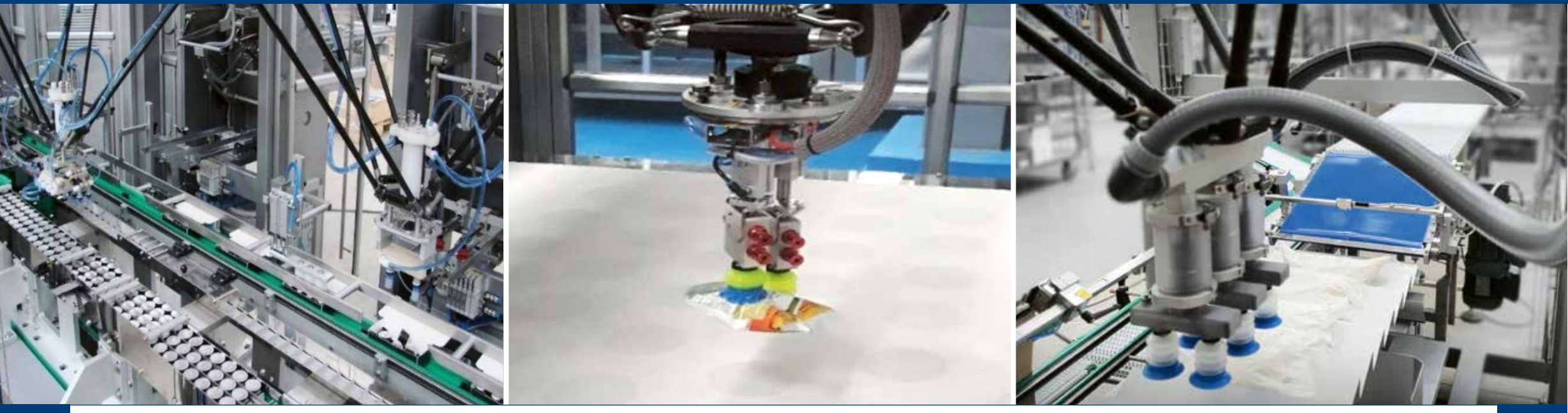
The MB series is a combination of integrated packaging machines (forming and closing / lidding) with robotic loading units, incorporating reduced footprint, flexible size changing, high reliability and gentle product handling.

WORKING CYCLE



M/C MODEL	MAX SPEED
MB	500 ppm

LOADING UNIT MACHINES



LOADING UNIT MACHINES

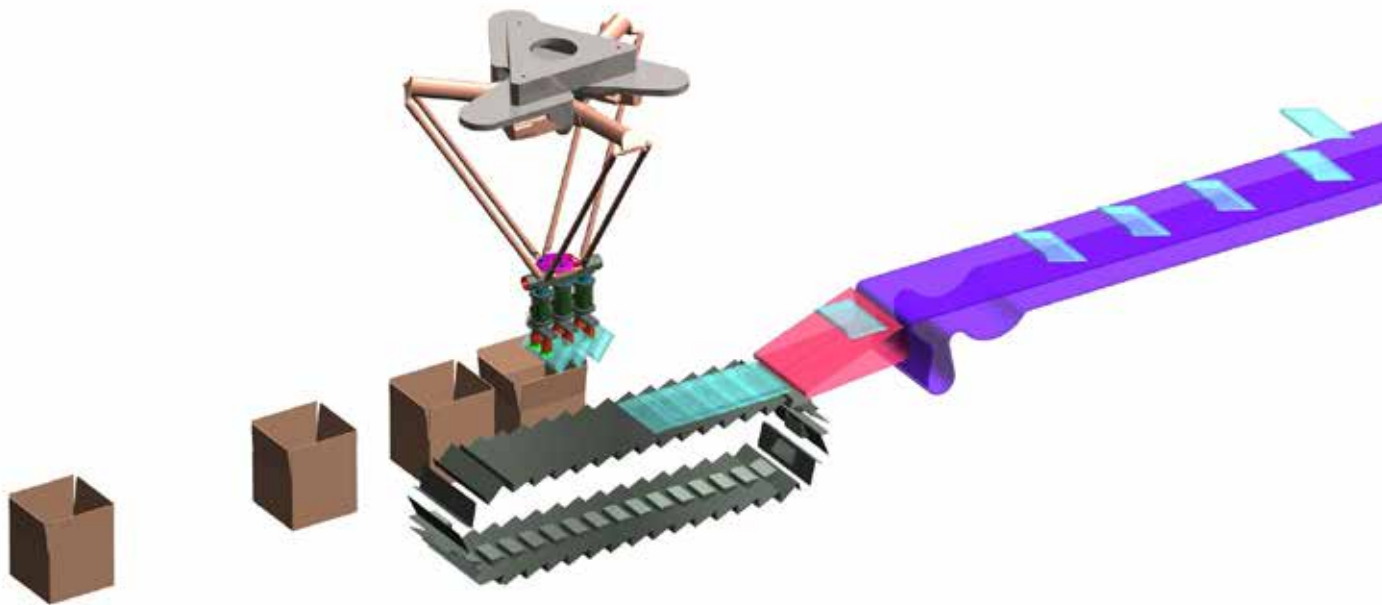
TOP LOADING for synchronized products arrival.

The CR is a versatile and modular Top Loader able to collate products individually and place them either flat or on edge in a vertical race track prior to being picked as a group and top loaded (Delta Robot) into cartoners (hinged lid boxes or RSC cases), side load cartoner or flow wrapper. It can be used for a wide variety of Secondary Packaging applications and can be easily integrated with vertical form fill seal (VFFS) and horizontal form fill seal (HFFS) machines. Customers can select the secondary packaging best suited to their products depending on bag style, shelf ready requirements and pack patterns. The CR can be provided, if necessary, with a variety of infeed system, multiple collecting unit and robots.

TOP LOADING for random product arrival (vision guided robot system).

The CV is a Top Loader able to pick and place products into flow wrappers, cartoners (hinged lid boxes or RSC cases), side load cartoner or thermo formers with vision guided high speed Delta Robots. It can be used for a wide variety of applications handling food and non-food items. The products are fed to the robot cell on a conveyor belt. The infeed and outfeed flows are parallel and can be either co-flow or counter flow. Changeovers can be conducted in few minutes, including gripper exchange. Vision control is used for load/line balancing and ensures that only good quality products are packed. Vacuum cup end-effectors ensure gentle product handling even at high speed.

WORKING CYCLE



M/C MODEL	MAX SPEED
CR	600 ppm

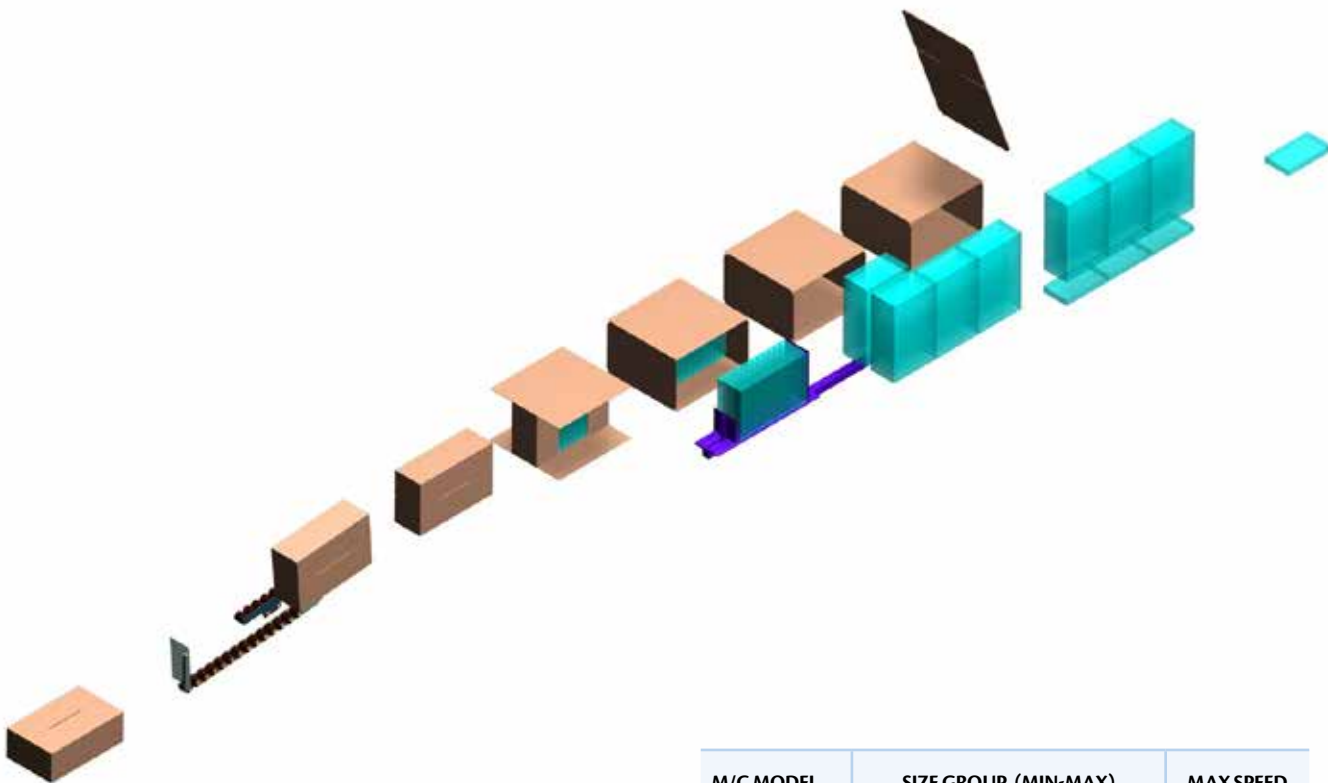
CASE PACKER



CASE PACKER

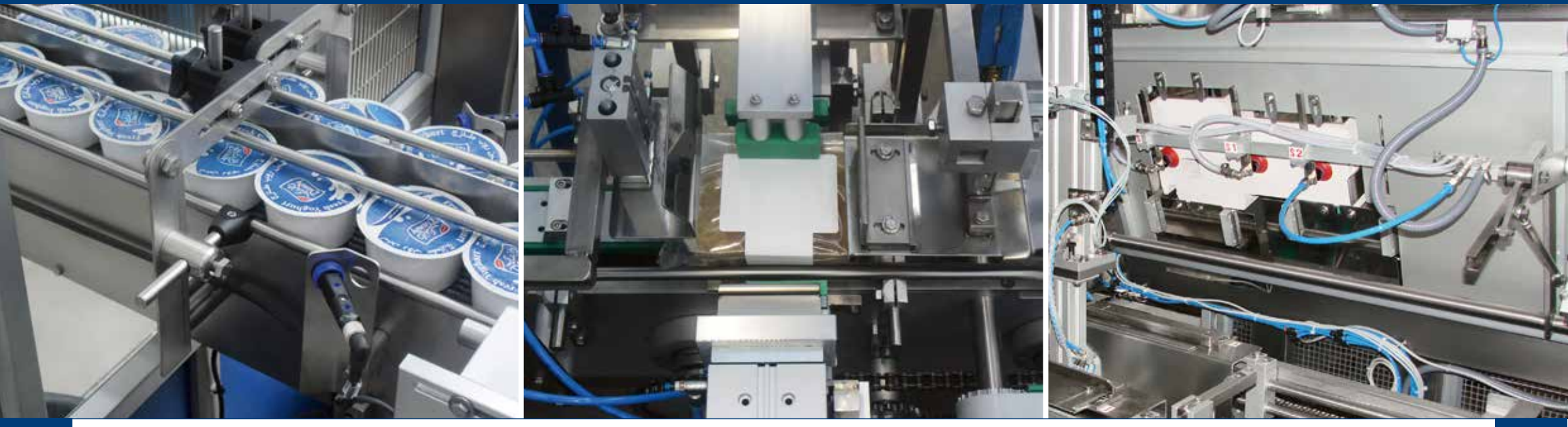
The automatic case packer APC series is suitable to package products into regular slotted cases (RSC) with holt melt or tape closure. The wide range of loading systems available (top or side load), gives the chance to automate the packaging of several products such as bags, boxes, flow-wraps, rigid containers and over-wrapped groups of products.

WORKING CYCLE



M/C MODEL	SIZE GROUP (MIN-MAX)	MAX SPEED
APC01	200x150x120 (h) - 600x400x400 (h)	5
APC02	200x150x120 (h) - 600x400x400 (h)	20
APC11	200x150x120 (h) - 600x400x400 (h)	12

SLEEVING MACHINES



SLEEVING MACHINES

The MP is a cardboard sleeving machine for packing bottles, cups, jars, cans and thermoformed containers from single or double lanes up to two product layers. Cardboard sleeve closing by means of hot-melt gluing on the bottom or top of the packs.

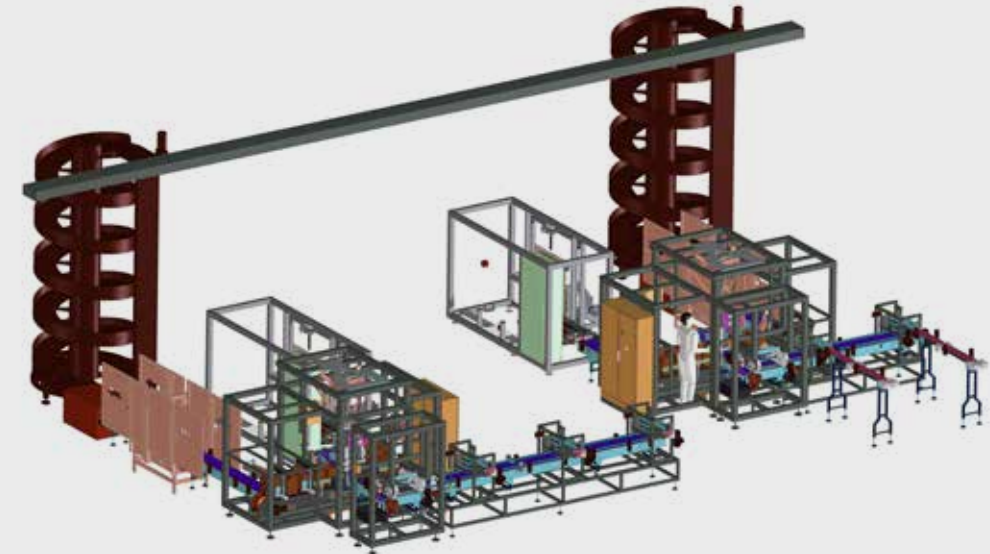
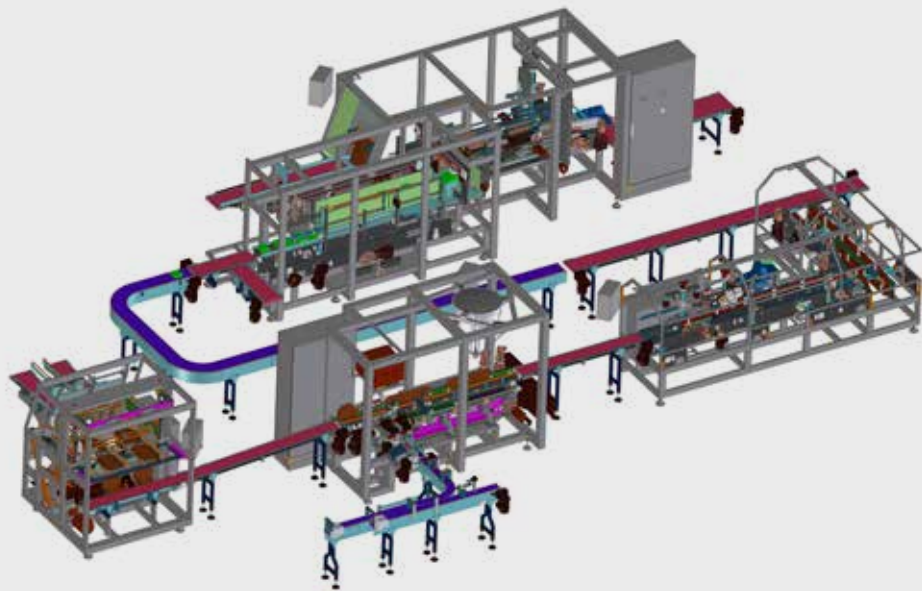
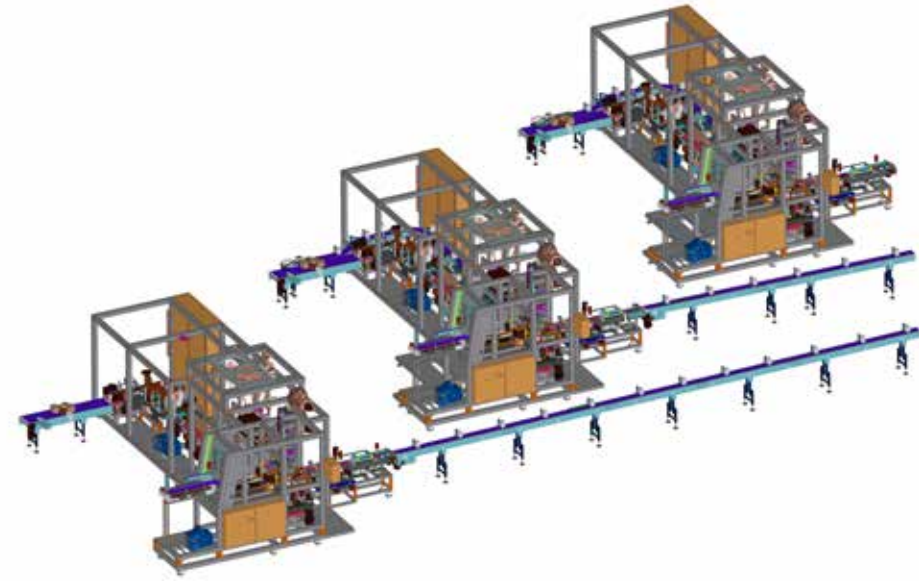
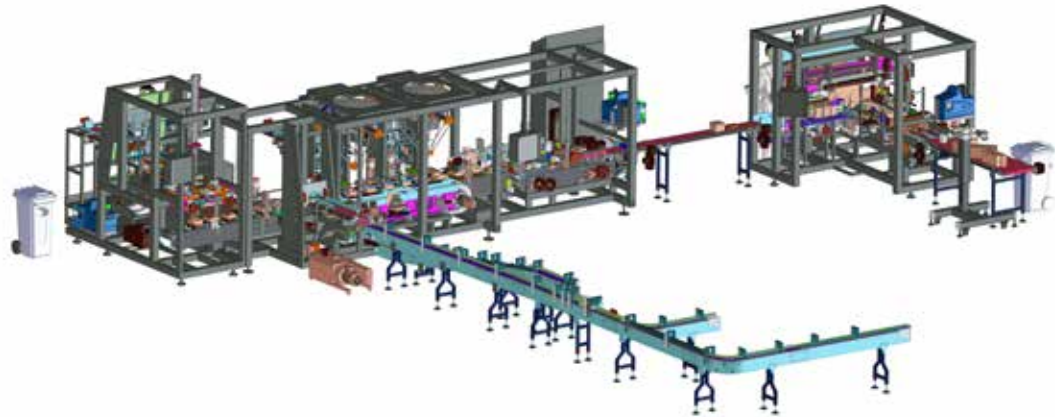


WORKING CYCLE



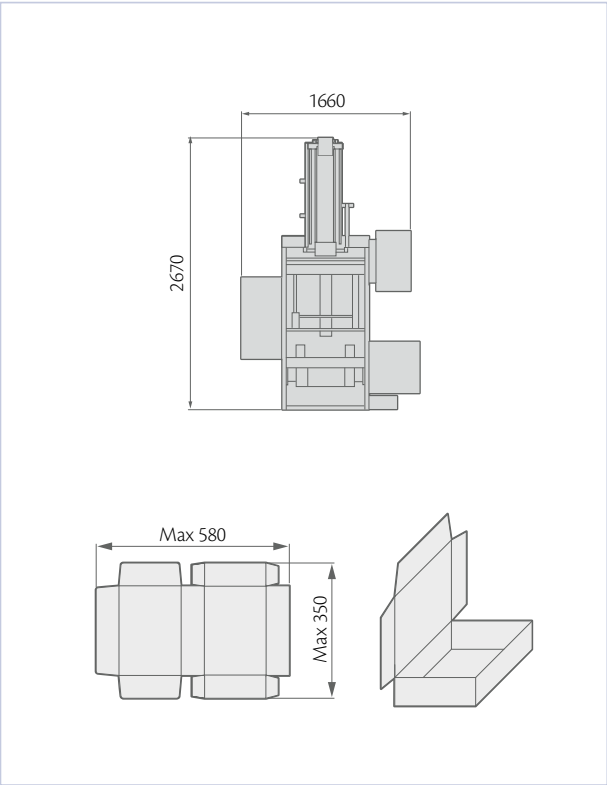
M/C MODEL	MAX SPEED
MP100	100
MP200	200
FA	50

COMPLETE ROBOTIC LINES

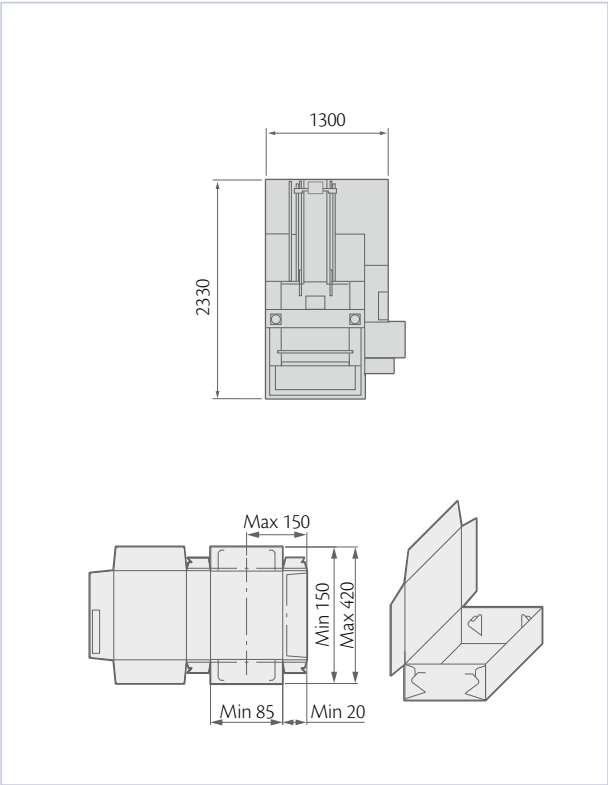


FORMING TECHNICAL DATA

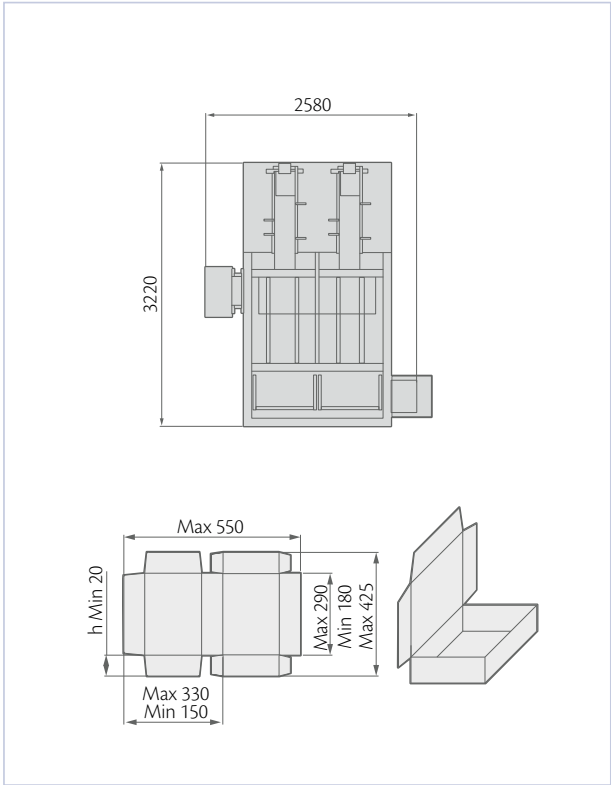
FP 15



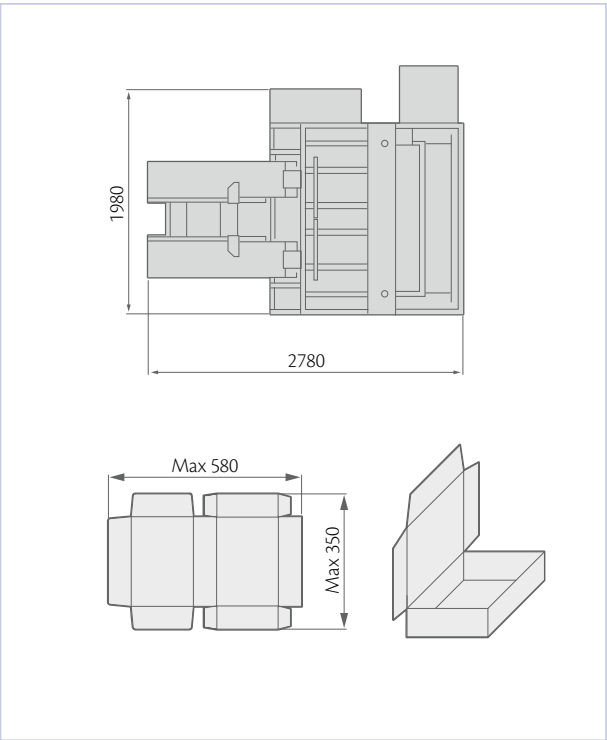
FM 80 DK



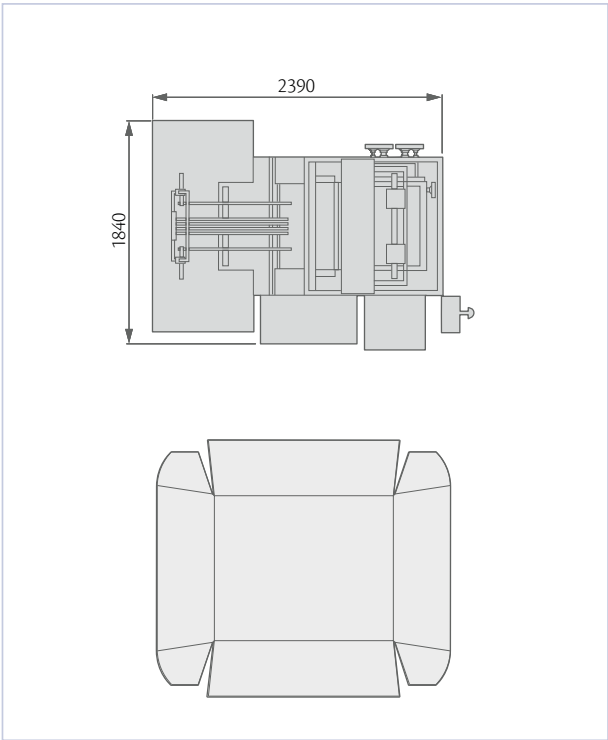
FE 140



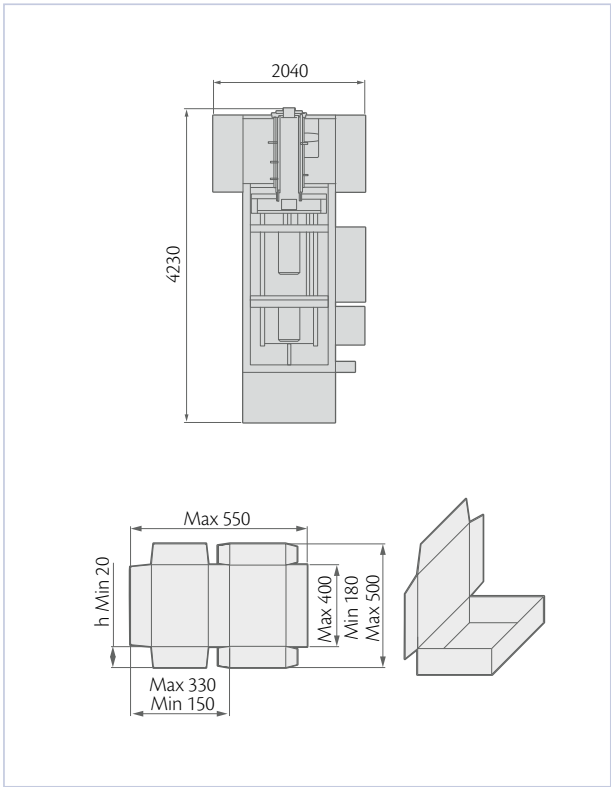
FM 140 I



FM 80 IK

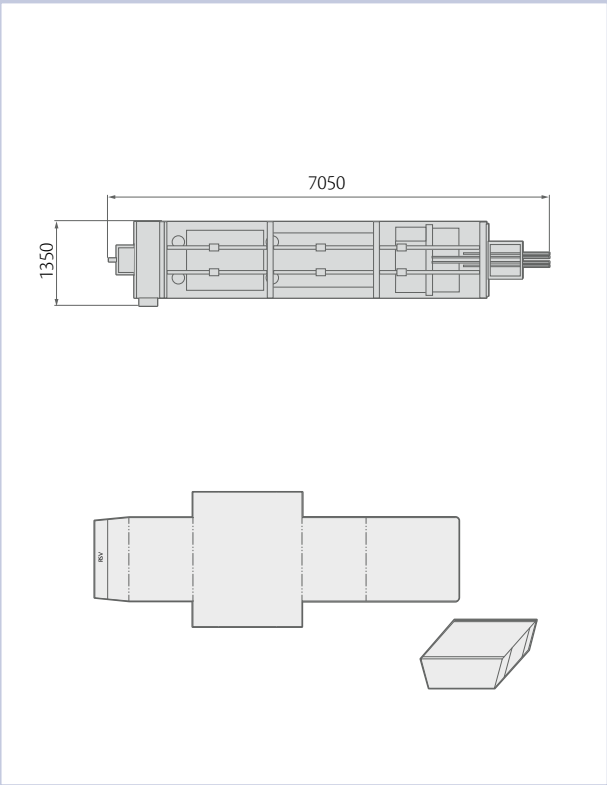


FE 80



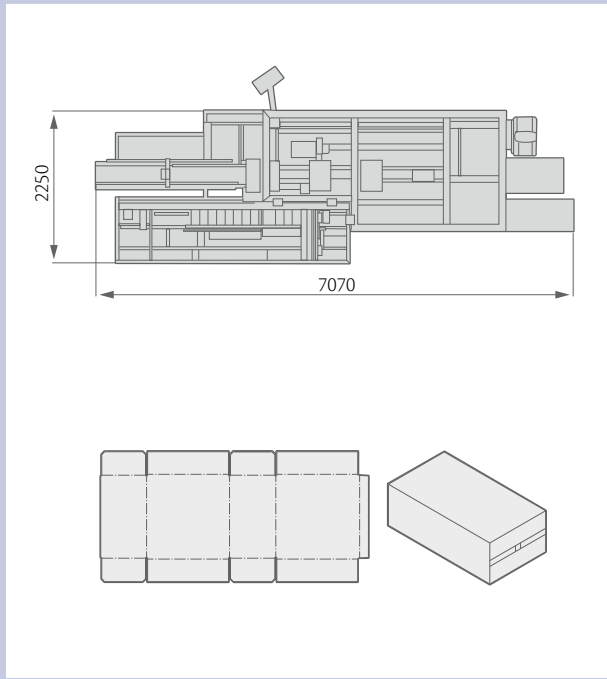
SLEEVING TECHNICAL DATA

MP 100



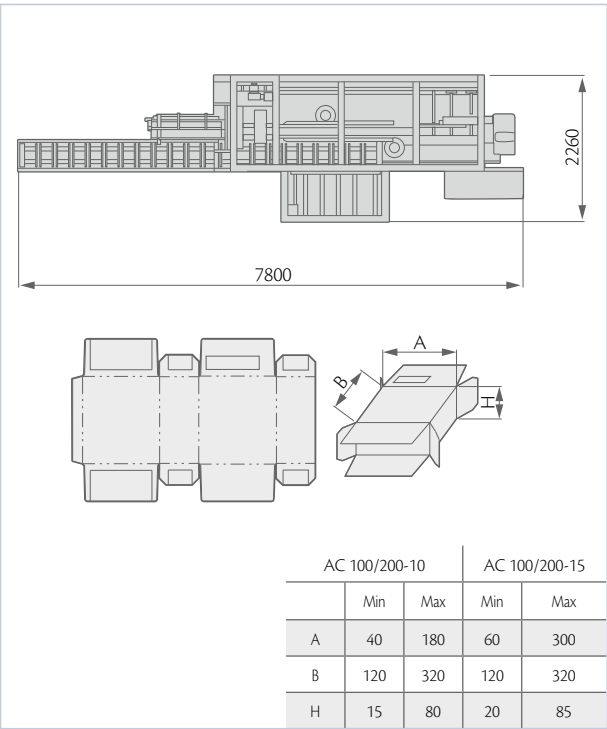
CASE PACKER TECHNICAL DATA

APC

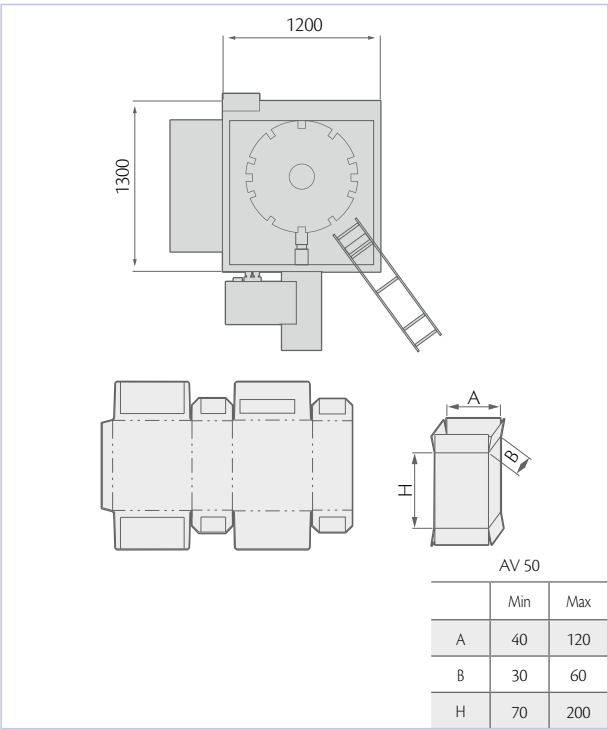


CARTONING TECHNICAL DATA

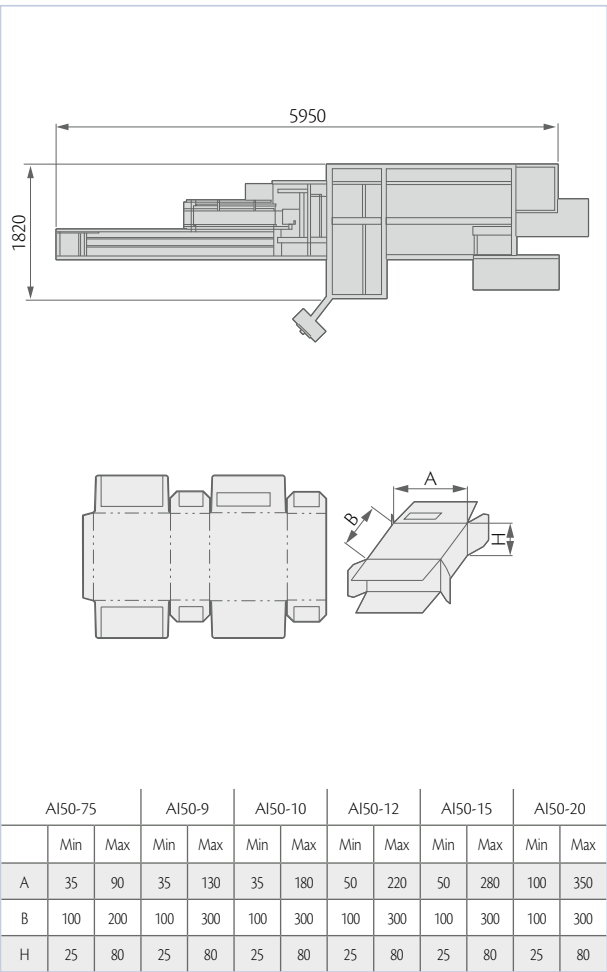
AC 200



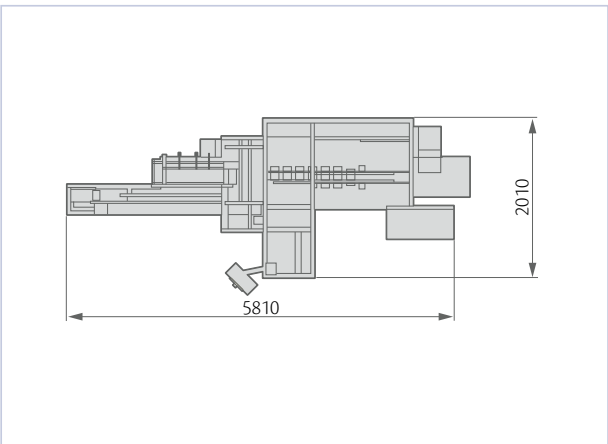
AV 50



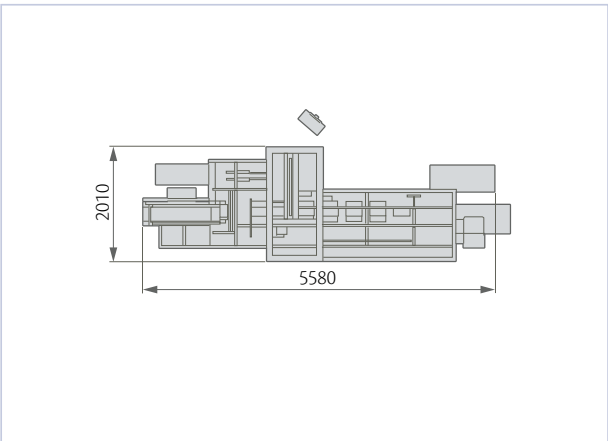
AI-50-10 E



AI-50-75 E

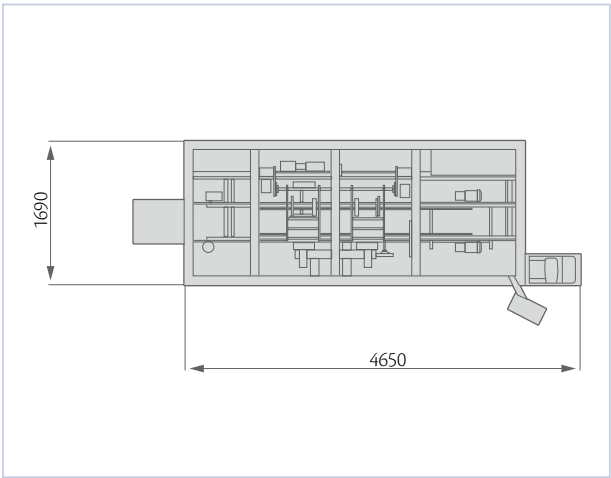


AI-50-15 E

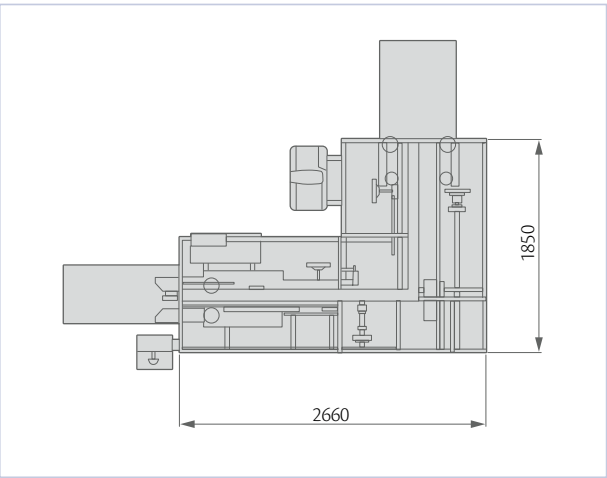


CLOSING TECHNICAL DATA

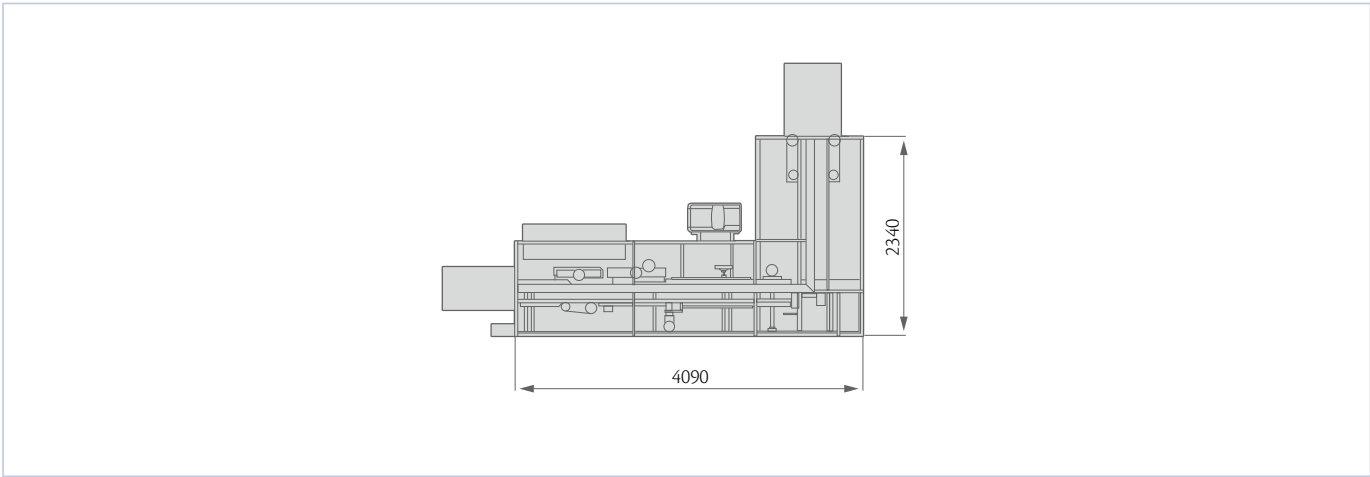
CLI



TL 70

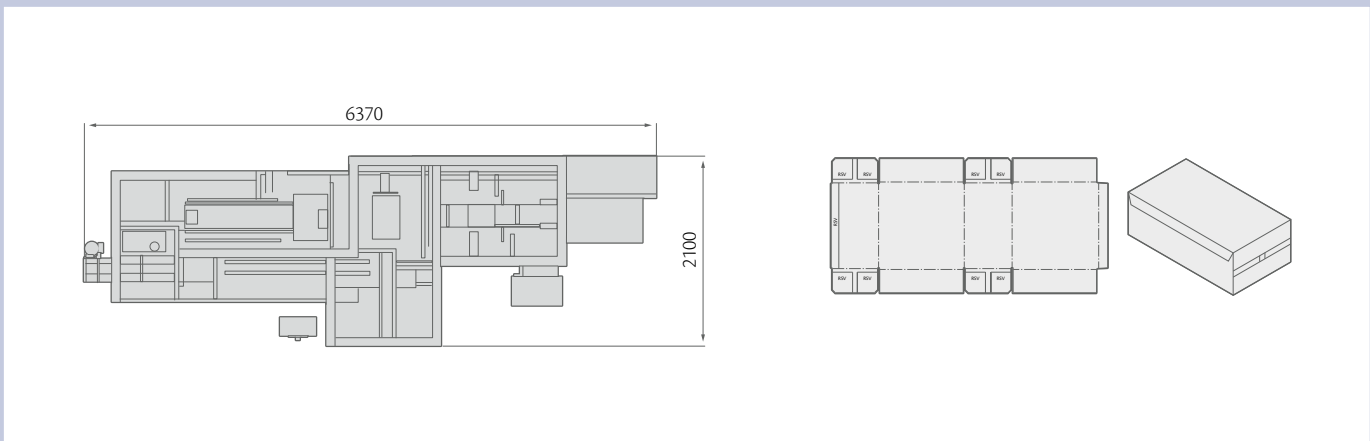


TL 100



WRAP AROUND TECHNICAL DATA

WA



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FOLLOW IMA    