

FLOW WRAPPING SOLUTIONS

FOR FOOD & NON-FOOD PRODUCTS



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HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD AND NON FOOD PRODUCTS

THE EURO 88 WRAPPING MACHINE IS A SYNTHESIS BETWEEN THE MOST ADVANCED TECHNOLOGY AND THE BEST EUROSICMA'S MANUFACTURING TRADITION.

This flow wrapper is a modular and flexible machine, it is available in a wide range of configurations and can be connected with several different feeding systems.

Thanks to the modular construction Eurosicma proposes a wide range of solutions, from simple stand-alone wrapping machine to completely integrated wrapping system in a fully automatic production line.

The Euro 88 wrapping machine can pack a wide range of products, such as any kinds of bars, cakes, dry and sandwich biscuits, wafers, marshmallows, noodles, bakery products, detergent tablets, soaps and many more.

THE EURO 88 MODELS ARE ALL FULLY SERVO DRIVEN, USING AN INDEPENDENT BRUSHLESS MOTOR TO DRIVE AND CONTROL EVERY SINGLE MACHINE AXIS. THE SIMPLEST CONFIGURATION PROVIDES INDEPENDENT MOTORS FOR THE FOLLOWING DEVICES:

- FEEDING CHAIN
- LONGITUDINAL SEALING ROLLERS
- CROSS SEALING ROLLERS
- WRAPPING MATERIAL UNWINDING UNIT
- OUTFEED BELT



HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / BISCUITS AND CRACKERS



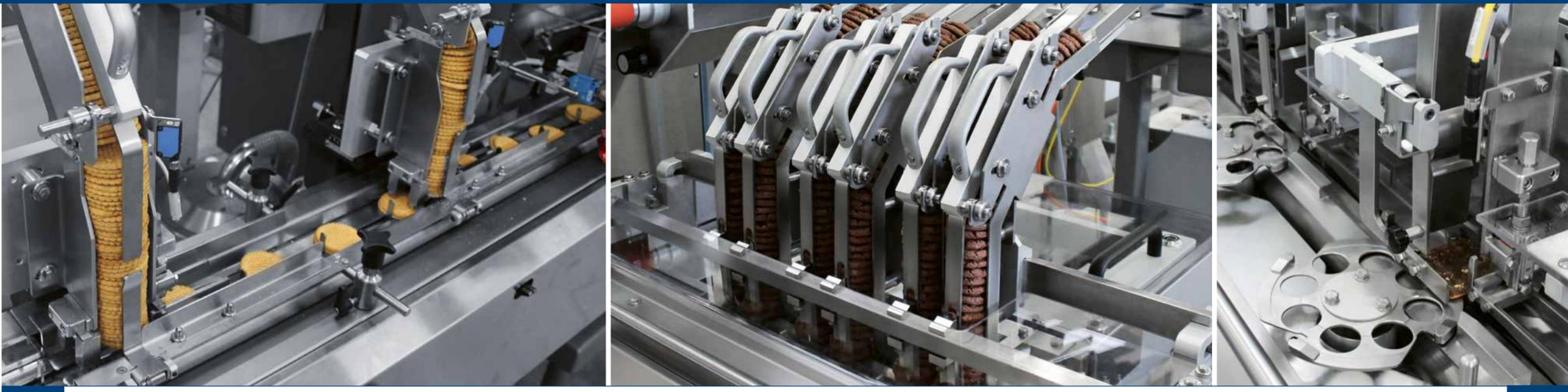
THANKS TO THE HIGH EXPERTISE AND THE TECHNOLOGICAL KNOW-HOW DEVELOPED DURING THE YEAR, IMA EUROSICMA IS TODAY THE DIVISION INSIDE THE IMA FLX HUB, SPECIALISED IN DESIGNING AND MANUFACTURING FULLY AUTOMATED WRAPPING LINES FOR A WIDE RANGE OF BAKERY PRODUCTS SUCH AS BISCUITS, CRACKERS, WAFERS AND CAKES.

Starting from the end of the upstream lines, IMA EUROSICMA portfolio includes handling, distribution, stacking, dedicated portioning systems and flow wrappers, designed to satisfy several pack configurations and customers needs.

High level of customization and efficiency, safety and cleaning design, flexibility of the integrated systems are some of the key features of the wrapping lines supplied by IMA Eurosicma.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / BISCUITS AND CRACKERS

GRAVITY FEEDERS TO PORTION PRODUCTS IN STACKS.



VM MODEL

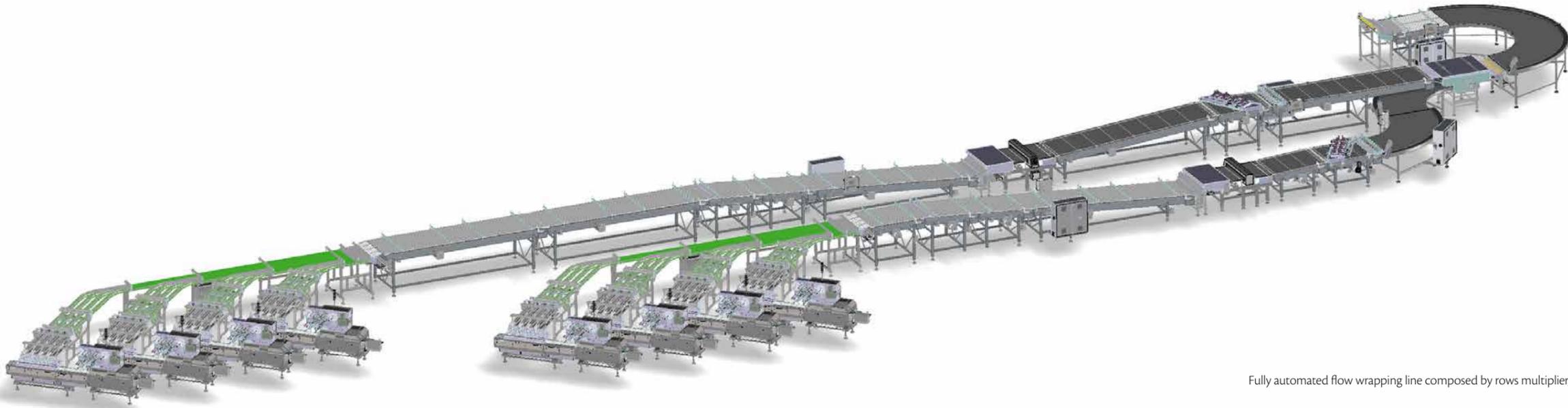
The vertical feeders are directly positioned on the wrapper chain. The biscuits extraction occurs by means of the running chain of the wrapper; mainly suitable for dry and plain products.

PWF MODEL

The vertical feeders are positioned just behind the wrapper chain. Equipped with double motorization: one to control the pile drop and one to control the pile transfer; suitable also for sandwich biscuits.

RD MODEL

The vertical feeders are directly positioned on the wrapper chain and individually servo-driven. The portioning is carried out by the disc rotation itself; suitable for any kinds of products.



Fully automated flow wrapping line composed by rows multiplier, stacking system, Rotary Disc piling units and 8 flow wrappers.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / BISCUITS AND CRACKERS



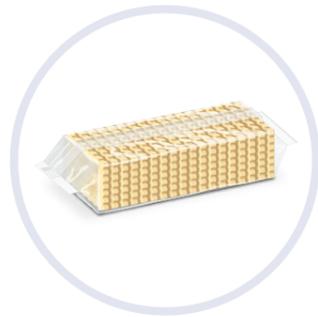
Standard application: single flight bar conveyor



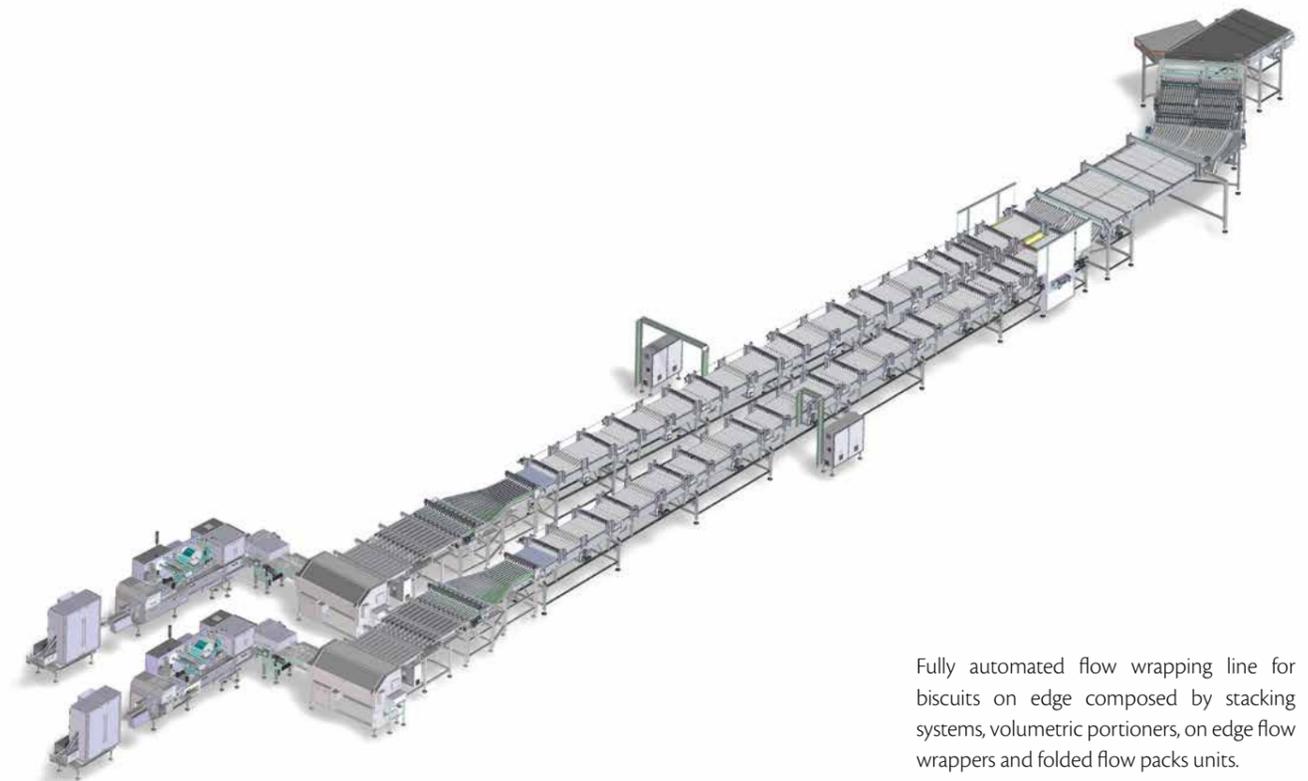
Special application: twin flight bar conveyor complete with moving belt

EURO 88 EDG

HIGH-PERFORMANCE WRAPPING MACHINE FOR PLAIN, SANDWICH BISCUITS OR CRACKERS ON EDGE IN FLOW PACK STYLE

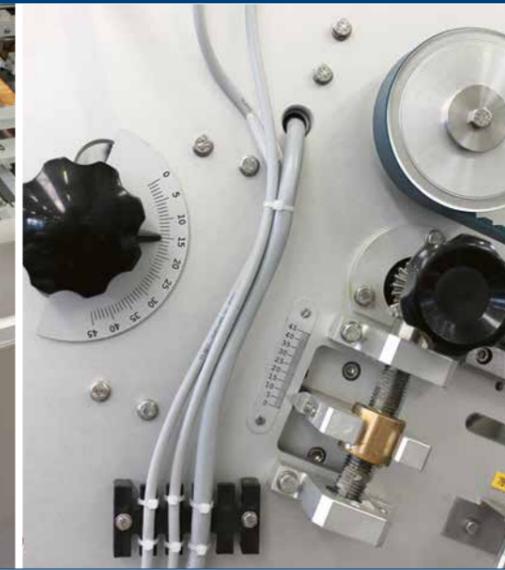
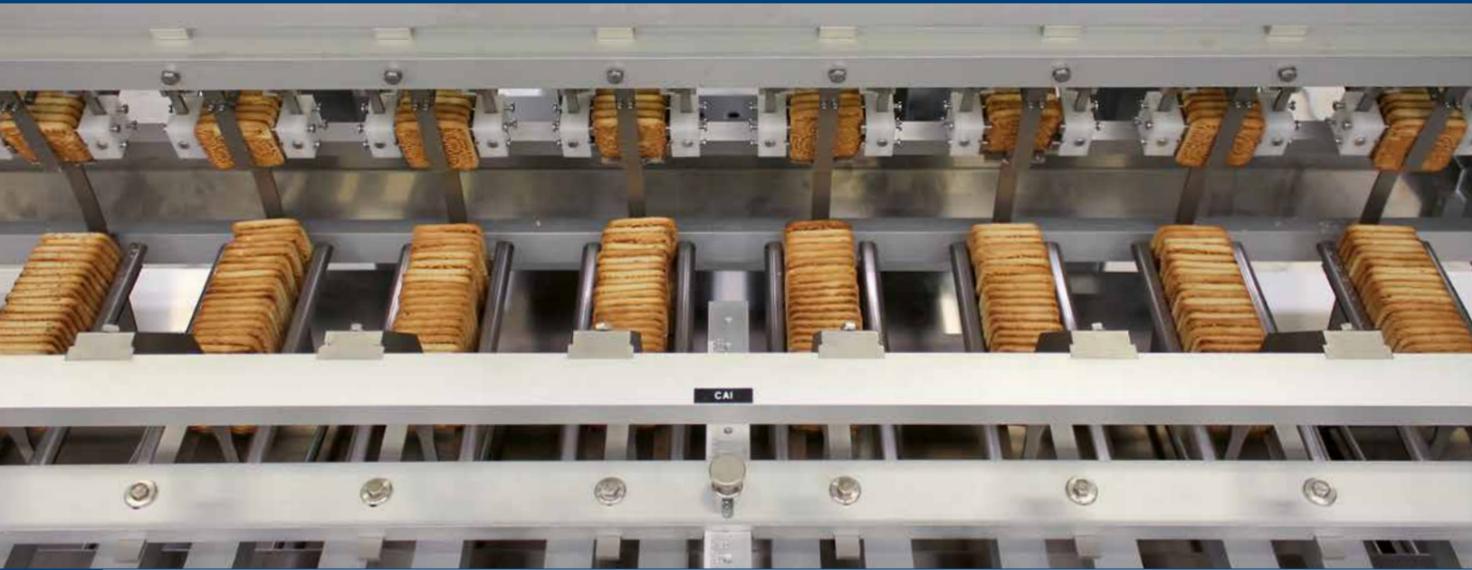


- Flight bar in-feed conveyor with independent servo motorized transfer unit. The flight bar in-feed conveyor can be positioned at 90° to reach the highest performance along with a gentle handling of the products. The feeding conveyor and the transfer unit are both driven by independent brushless motors.
- The flight bar in-feed conveyor can be fully customized for special versions equipped with belt or additional flight bar chain to reduce or completely avoid friction between products and feeder during the transfer.
- Feeding chain with a set of special double pushers to ensure the biscuits always maintain a vertical position.
- Lateral chains units with pushers for controlling the products' position, during the product's transition from the folding box to the sealing and cutting jaws.
- In order to be able to manage different products' sizes, custom-designed spiral plastic chains are available, as alternative to the standard double pushers chain.
- Mechanical servo motorized gusseting device independently driven and works independently from the movement of the sealer.



Fully automated flow wrapping line for biscuits on edge composed by stacking systems, volumetric portioners, on edge flow wrappers and folded flow packs units.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / BISCUITS AND CRACKERS



Servo-motorized UNIT

Tool-free size regulation

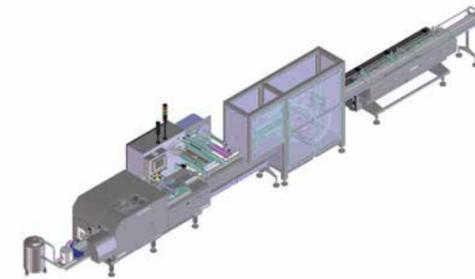
Volume portion maker

The APVF - Automatic Portion Volumetric Feeder – is a vertical electronic slug feeder for dry, sandwich biscuits, crackers and other bakery products, suitable for semi and fully automated configurations. The modular conception of this machine allows many kinds of applications, depending on the output to achieve and the number of lanes coming from the processing line. For each cycle, a number of doses equal to the number of incoming channels of the loader is gently deposited on the flight-bar conveyor of the wrapping machine. Thanks to the three independent brushless motors, this feeder is very flexible and it can perform up to a speed of 25 cycles per minute, ensuring a gentle and efficient handling of round, square and rectangular shaped products.



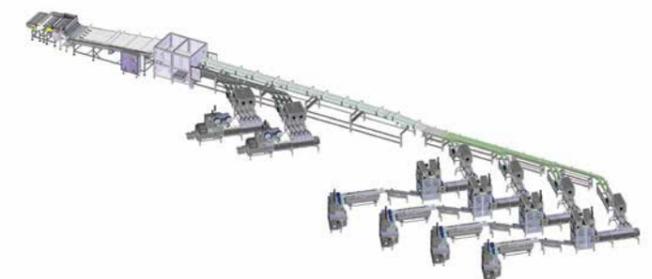
KEY FEATURES

- GENTLE HANDLING OF THE PRODUCTS DURING PORTIONING
- CAPACITY OF HANDLING ROUND, SQUARE AND RECTANGULAR SHAPED PRODUCTS, DRY AND SANDWICH BISCUITS
- DIGITAL REAL-TIME INTEGRATION BETWEEN LOADER AND WRAPPER ENSURING FULL CONNECTIVITY



EURO 88 EDG-IN LINE

Fully automated flow wrapping line for products on edge, designed to receive the products in flat position, time them, and by means of a rotary stacking wheel, count and place products in on edge position.



TRAY LOADER LINE

Fully automated flow wrapping line complete with customised handling systems to deliver products towards the flow wrapping lines; piling systems and tray loading units to feed properly products on edge into the trays before the flow wrapping.



HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / BISCUITS AND CRACKERS

IMA EUROSICMA DEVELOPED PRESSURELESS HIGH PERFORMANCE FEEDING SYSTEMS. DESIGNED TO RECEIVE SHORT-SIDE LEADING PRODUCTS TO BE HANDLED WITH EXTREME CARE.



The HSF8: pressureless high-performance feeding system. Extremely easy and fast tool-free cleaning for plates, belts and transmission rollers. Auto-tensioning and auto-centering belts' system.



Double lane: 6+6 belts



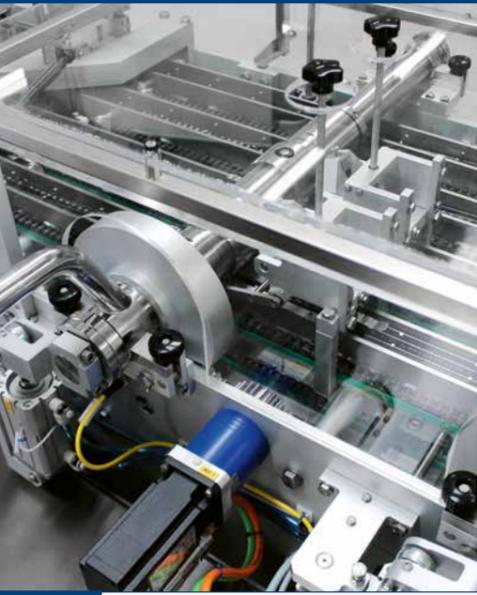
EURO 88 WITH MULTI-BELTS IN LINE FEEDING

EURO 88 HSF FLOW WRAPPER COMPLETE WITH IN LINE BELTS FEEDING SYSTEM

The HSF Feeding & Timing system is available in the following configurations:

- HSF 4: designed to receive medium or large products. It is composed of 4 belts individually servo-driven. Mainly suitable for wrapping snacks, bars, chocolate and soaps at medium speed;
- HSF from 7 to 9: high performance version designed to receive small, medium or large products. It can be composed of 7, 8 or 9 individually servo-driven belts by brushless motors. Mainly suitable for wrapping «difficult» products such as nougats, healthy sticky bars, sponge cakes, jellies, enrobed bars, biscuits, wafers, thin products and many more at high speed. It avoids any friction between products themselves and between products and belts. If required, by parameter setting, it can also avoid any contact between products;
- HSF Double Lane: designed to receive two equal parallel flow of products. Available in 3+3 belts and 6+6 individually servo-driven belts.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / BISCUITS AND CRACKERS



Servo-motorized stencil



Overlapping unit



Rotary stacker



Rows multiplier (from 2 to 8)



Rows multiplier (from 4 to 16)



Selecting device for incomplete sandwich



SANDWICHING MACHINE SAMA

The SAMA model is an automatic electronic machine for the production of sandwich biscuits or crackers. The cream is dosed by means of an integrated servo-driven wire cut technology. Depending on the production volumes to satisfy, there are: SAMA 2 (two lanes) with actual production capacity of about 1.400/1.500 sandwich biscuits per minute and SAMA 4 (four lanes) that can reach a production rate up to approximately 2.800/3.000 sandwich biscuits per minute. A various range of systems for products' collection from the end of the sandwiching machine is available: rows multipliers, rotary and penny stackers, exit conveyor belts and portion feeders.



Sandwiching machine Model SAMA 2 - double cream colour version, combined with the flow wrapper Model EURO 88.

SAMA 2 COMBINED WITH EURO 88 MAIN FEATURES

- REAL-TIME SYNCHRONIZATION BETWEEN THE TWO MACHINES. ONE PC CONTROLLER TO MANAGE BOTH THE MACHINES
- COMPACT SOLUTION AND DIRECT PRODUCT TRANSFER FROM THE SANDWICHING TOWARDS THE WRAPPING MACHINE FOR PILES PACK APPLICATIONS

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / WAFERS



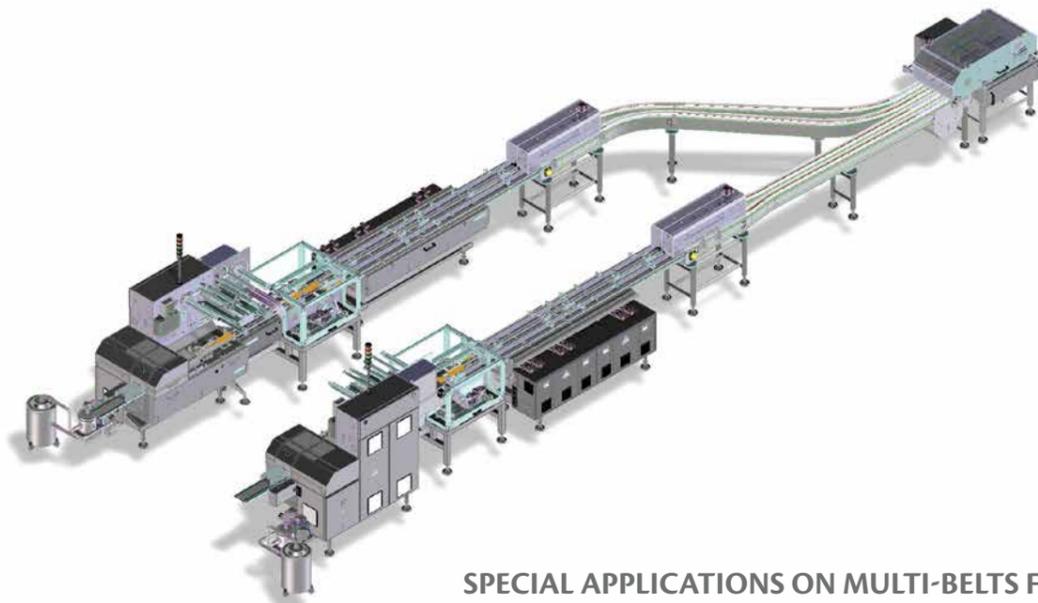
Side Transfer Feeder (STF)



Soft Side Transfer Feeder (SSTF)



Double Soft Side Transfer Feeder (SSTF)



SPECIAL APPLICATIONS ON MULTI-BELTS FEEDING SYSTEM SIDE TRANSFER FEEDER (STF) - SOFT SIDE TRANSFER FEEDER (SSTF)

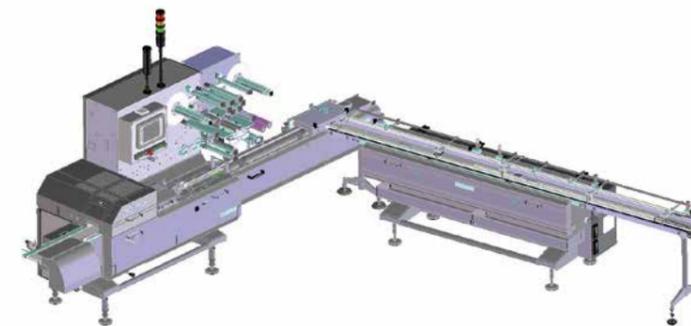
IMA Eurosicma has developed complementary devices to add to the traditional concept of multi-belts feeder. To accommodate Customer's specifications may be deeply customized.

The Side Transfer Feeder (STF) is a servo motorized device designed to transfer products from the multi-belts feeder into the chain of the EURO 88 wrapping machine. This technology is particularly employed to handle and feed wafers or bars to wrap in multipack.

Products can be naked or already wrapped.

The Soft Side Transfer Feeder (SSTF) having a double servo motorized system enhances the transfer of the products at high speed operating in the gentlest way.

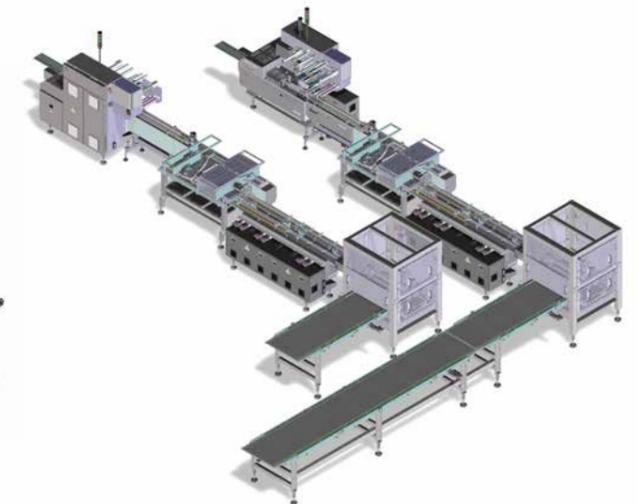
The big advantage of this solution is the delicate handling of the product at high speed thanks to the continuous movement of insertion and, at the same time, direct transfer into the chain of the flow wrapper. Both devices can be supplied both single and twin versions, even complete with integrated self-cleaning cutting unit.



EURO 88 CF - CROSS FEEDING EURO 88 FLOW WRAPPER WITH BELTS CROSS FEEDING SYSTEM

HFFS flow wrapping line suitable for semi and fully automated systems, designed to receive long-side leading products, place in single lane.

Equipped with 3 servo-driven belts, the system is able to grant extremely low and carefully monitored pressure between the products.



WAFER FLOW RAPPING LINE COMPLETE OF BOOKS EXTRACTOR

Automated packaging system complete of books extractor and integrated feeding systems to pack wafers in flow pack style both lengthwise and crosswise oriented.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / CAKES



Rows distribution system



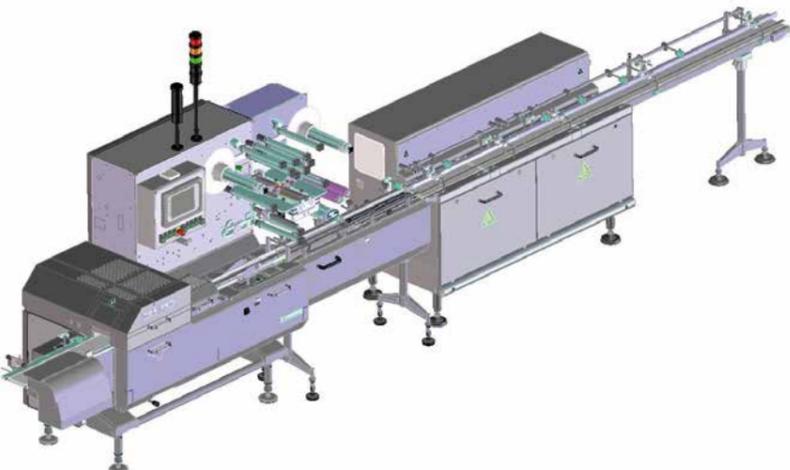
Timing & Feeding system



Pre-cut carton feeder

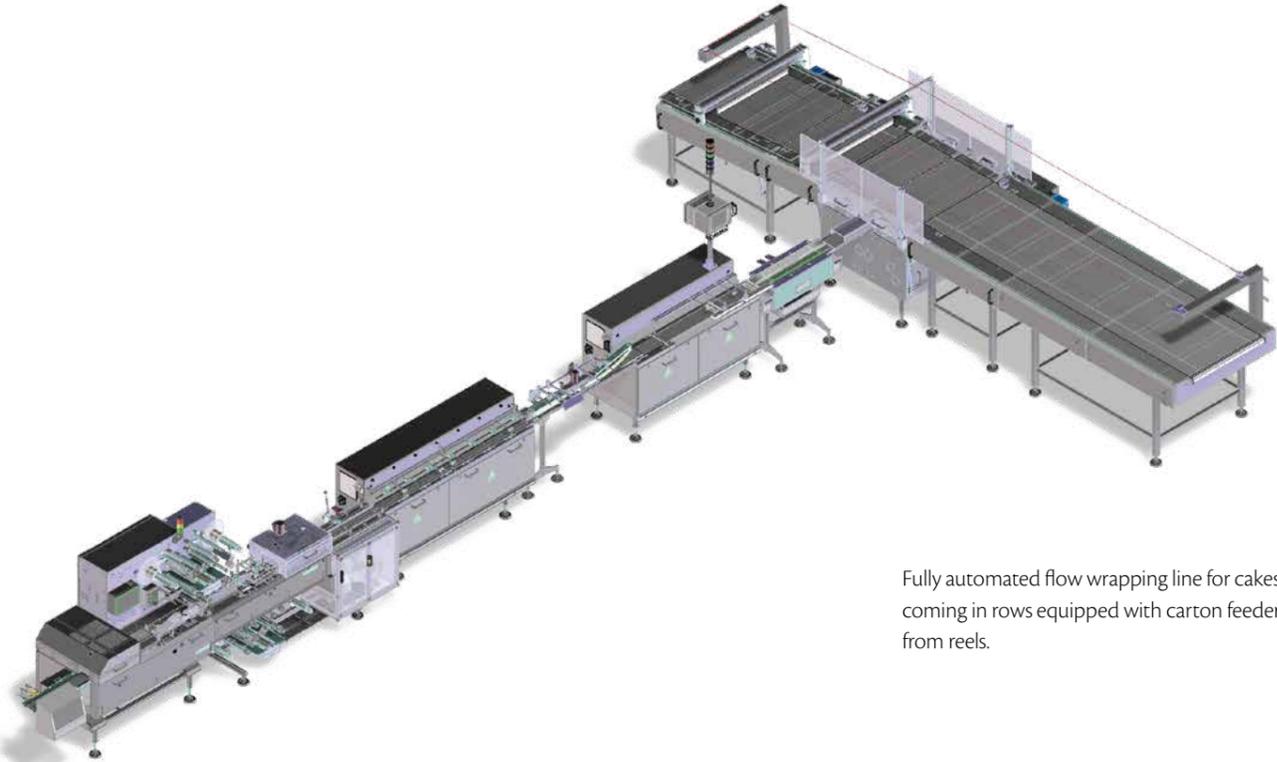


Carton folding



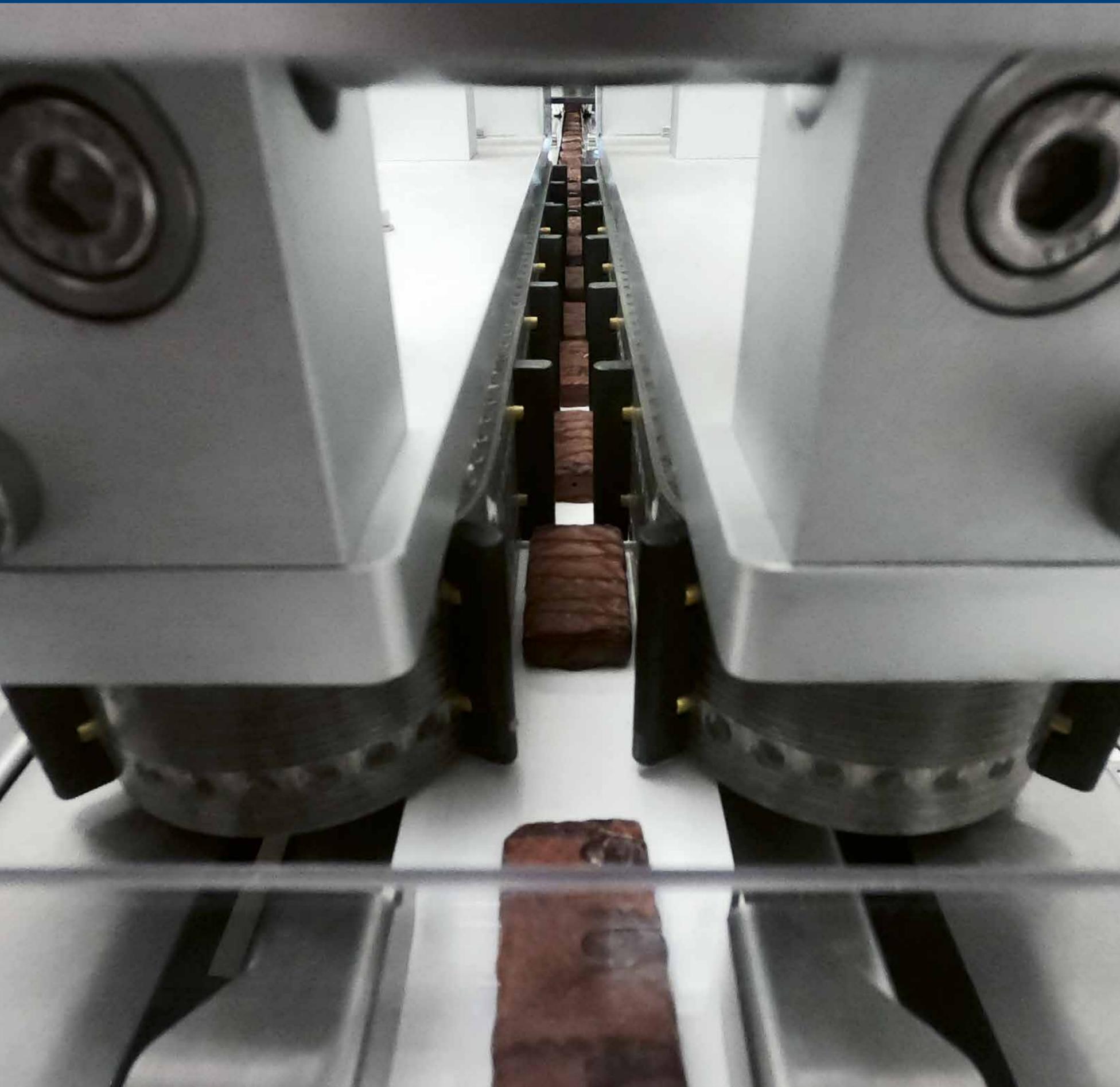
EURO 88 HSF4

HFFS flow wrapping line composed by 4 independently servo-driven belts, designed to receive medium or large products and wrap them at medium speed.



Fully automated flow wrapping line for cakes coming in rows equipped with carton feeder from reels.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / CHOCOLATE AND BARS

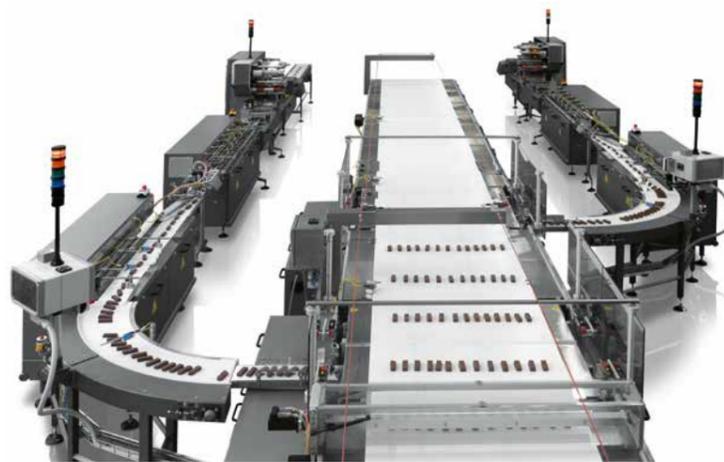


THANKS TO THE DEEP EXPERIENCE IN HANDLING AND WRAPPING A WIDE RANGE OF PRODUCTS, IN PARTICULAR CHOCOLATE TABLETS AND BARS, IMA EUROSICMA CAN TODAY OFFER TURN-KEY SOLUTIONS TO HANDLE, DISTRIBUTE AND FLOW PACK ANY KIND OF BARS.

Gentle handling at high speed is one of the key features of such integrated lines, able to collect products coming in rows or randomly and distribute them towards single or multiple flow wrapping legs.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / CHOCOLATE AND BARS

FULLY CUSTOMISED FEEDING SOLUTIONS WITH BELTS SYSTEMS. DYNAMIC FEEDING AND GENTLE HANDLING TO GET CONSTANT AND TOP PERFORMANCE OUTPUT, GRANTING HIGH PRODUCTION EFFICIENCY.

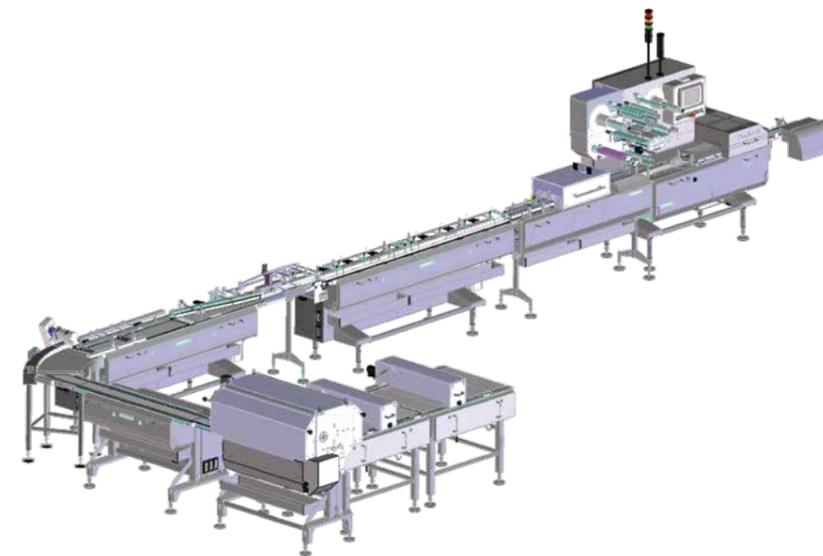


SMART LINE

FEEDING SYSTEM FOR SINGLE AND MULTIPLE WRAPPING LINES SUITABLE FOR PRODUCTS COMING IN ROWS AND ALIGNED

Starting from the end of the production line, this feeding station is able to control and distribute orderly products coming in rows. Advantages of the SMART Feeding System:

- Dynamic buffer: the distributed row of products is loaded while the previous row is already downloaded and already gone towards the packaging line
- No gap between the rows distributed by the SMART station
- The alignment of products is assured
- Possibility of starting the products' rotation during the row distribution's phase, simply through parameters setting
- Possibility of adding a fully automatic re-feeding unit for the buffered products
- Real time communication between SMART stations and wrapping legs for the auto-speed adjustments of the whole packaging line
- SMART stand-by function available for multi-legs wrapping line



MINISMART LINE

FEEDING SYSTEM FOR SINGLE WRAPPING LINES SUITABLE FOR PRODUCTS COMING IN ROWS AND ALIGNED

Starting from the end of the production line, this feeding station can handle a flow of products coming in rows and distribute it orderly into a wrapping line composed of one leg. This feeding solution presents the following features:

- Dynamic Transfer System for products' alignment 90° exit belt positioned at the end of the station, allowing products' transfer into the feeding system (either 90° or 110° or others)
 - Telescopic System for the rejection of defective and oversized products, bad aligned rows, etc. Such rows are discharged into a dedicated plate placed at an inferior level.
- Advantages of the MINISMART Feeding System:
- Over 70 rows/min
 - Products is monitored at every stage of the transfer
 - Easy cleaning and maintenance
 - Easy product change with no requirements of changing parts and manual adjustments

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / CHOCOLATE AND BARS



System for napolitans



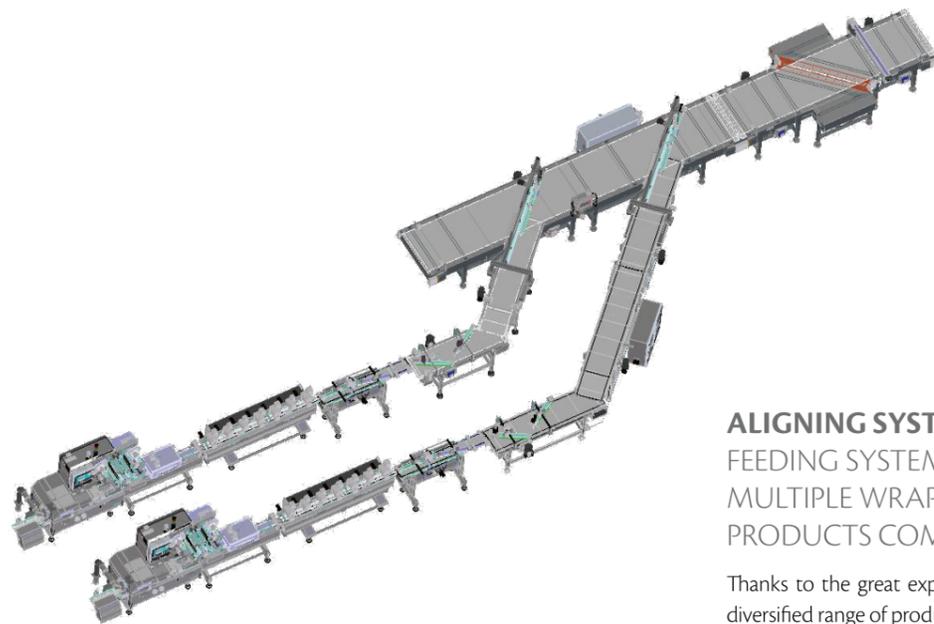
Intelligent vertical belts



Disc feeder



Timing & Feeding system



ALIGNING SYSTEMS FEEDING SYSTEMS FOR SINGLE AND MULTIPLE WRAPPING LINES SUITABLE FOR PRODUCTS COMING RANDOMLY

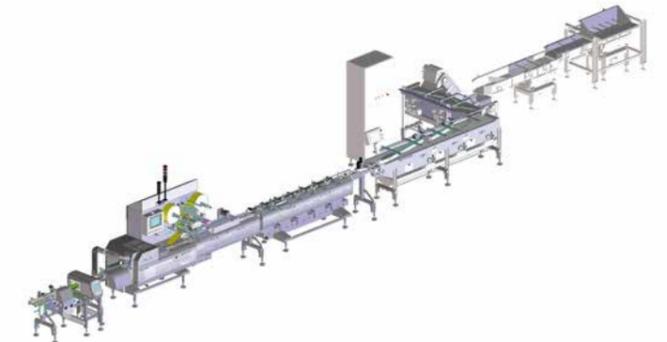
Thanks to the great experience achieved in handling a wide and diversified range of products, Eurosicma developed specific feeding systems as alternatives to the SMART and MINISMART systems, able to handle also products coming randomly. According to the nature and dimensions of the products, a wide range of aligning systems can be supplied, such as:

- Horizontal conveyors working at different speeds, complete of vertical belts and shaped product guides
- Centrifugal and vibrating orientator
- Centrifugal aligners



HFFS FLOW WRAPPING FOR MARSHMALLOWS

Flow wrapper equipped with orientating disc and in line integrated feeder suitable for small confectionery products coming in bulk. Suitable for small confectionery items coming in bulks, such flow wrapping line is equipped with a centrifugal disc feeder able to orientate the products in one single lane, short side leading. The Timing & Feeding system HSF8 is composed by 8 independently servo-driven belts and collects the products from the centrifugal disc. It is an high speed pressure-less and contact-less system able to time products with extreme care and gentle handling.



HFFS FLOW WRAPPING FOR FLAT JELLIES

Flow wrapper equipped with dedicated feeding, aligners and in line integrated belts feeder, specifically designed to handle and pack flat jellies, both sugar coated and not, at high speed. The Timing & Feeding system HSF8 is composed by 8 independently servo-driven belts, collecting products from the aligning system. It is an high speed pressure-less and contact-less feeder able to time products with extreme care and gentle handling.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / NOODLES



IN THE SPECIFIC FIELD OF INSTANT NOODLES, STARTING FROM THE LEADING EDGE TECHNOLOGY HISTORICALLY DEVELOPED IN THE PHARMACEUTICAL SECTOR, IMA EUROSICMA HAS DESIGNED A DEDICATED PACKAGING SYSTEM FOR NOODLE CAKES, BOTH FRIED AND RICED.

Such high-performance flow wrapping lines are equipped with the patented pressure-less Timing & Feeding system HSF8 Model and the automatic dispenser for cutting and placing the sachets on the cakes, completely integrated into the whole system.

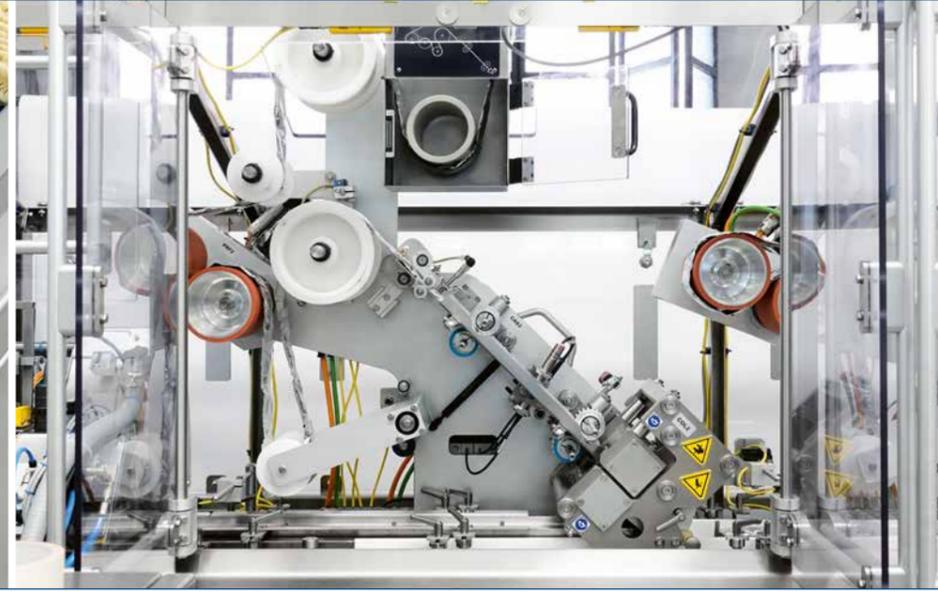
HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR FOOD PRODUCTS / NOODLES



Rows distribution system



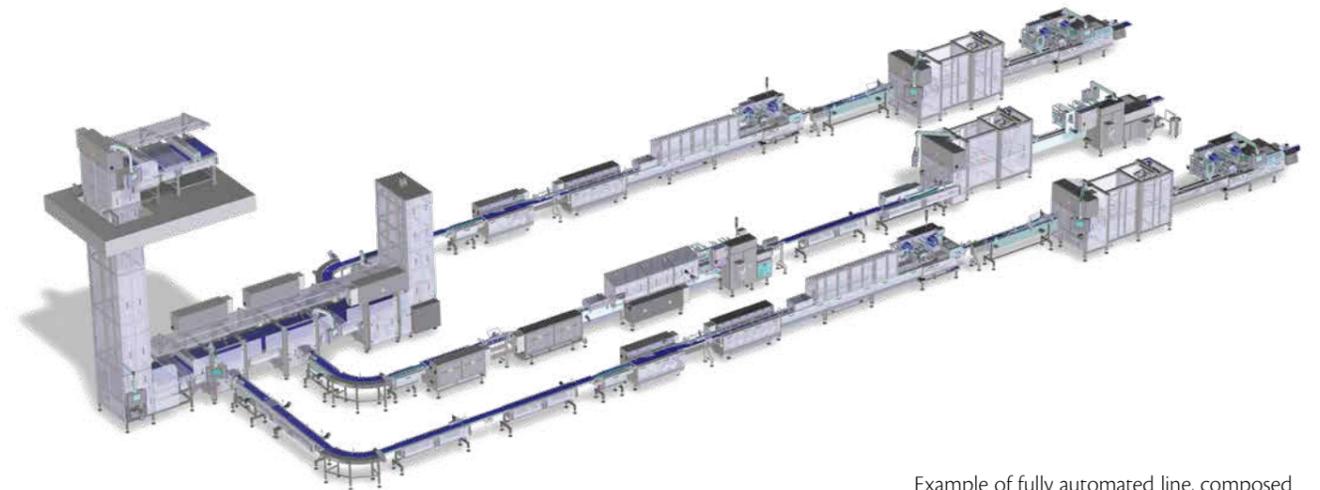
Pressure-less Timing system



Integrated Seasoning Bag Feeder



In-phase cutting



Example of fully automated line, composed by distribution systems, primary and multipack, flow wrapping, vertical buffering systems for noodles cakes.

EURO 88 HSF NOODLES HIGH-SPEED AND PERFORMANCE PACKAGING SYSTEM FOR INSTANT NOODLES

Some of the added values are:

- Seasoning Bag Feeder cuts bags coming from strips and places them on the noodles' cakes. The continuous feeding and rotary in phase cutting uses a special rotary cutting unit. This system is totally integrated in the control system of the wrapping line and it can be easily customized to feed multiple seasoning bags per pack. A configuration of up to three independent feeders per wrapper is currently available.
- HSF8 High Speed Feeder and timing system with 8 belts individually servo driven prevents pressure, blocking, breaking and chipping of the noodle cakes and permits fine adjustment of the product flow.
- High Performance no noodle no seasoning bag automatic function allows to minimize waste by not placing the seasoning bag(s) in the unlikely event that a noodle cake is missing. The system is able to detect the missing noodle cake and wait for the successive one.
- Cutless system. In case of a product out of phase, once passed through the box former, the system keeps the cross sealing jaws in open position, avoiding any jams.
- Several selection devices such as empty bags, empty sachet, bags with sealed sachet are available upon request.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR MULTIPACK FLOW WRAPPING



TO SATISFY THE MOST VARIOUS MARKET NEEDS IN TERMS OF PACK CONFIGURATIONS, IMA EUROSICMA CAN OFFER ALSO MULTIPACK FLOW WRAPPERS, WITH BOTH ROTATIVE AND BOX MOTION SEALING UNITS.

Customized and automatic feeding systems to connect the primary flow wrappers to the multipack ones, are available upon request.

HIGH PERFORMANCE FLOW WRAPPING MACHINES FOR MULTIPACK FLOW WRAPPING



2 axis servo-driven Pick & Place



Box Motion sealing Unit



3 axis Pick & Place for multipacks



Corrugated carton for multipacks



MPF - MULTIPACK FEEDER

The flow wrapper EURO 88 can be supplied also for multipack flow wrapping: in "large" version with a 500 mm reel width and in "extra-large" with a 650 mm reel width.

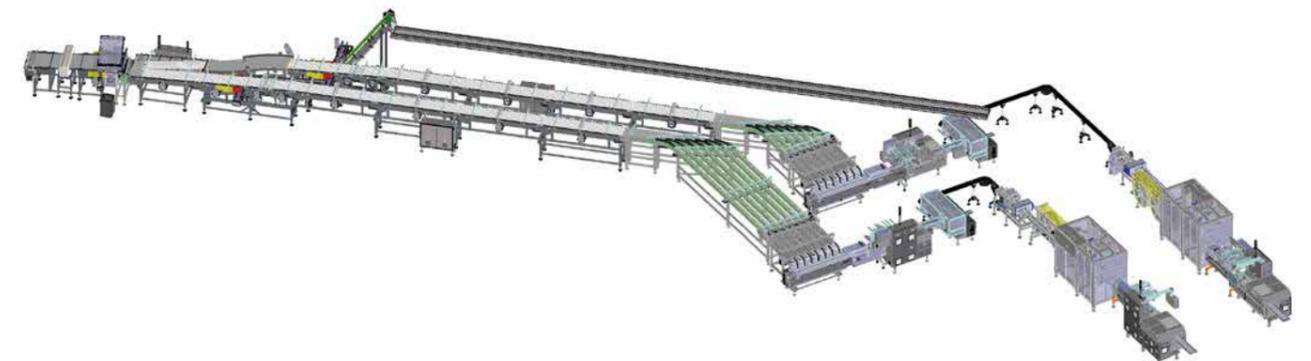
In the multipack version, the cross sealing unit can be rotative or box motion.

The box motion unit is fully electronic, driven by two servo motors. One to drive the vertical movement of the jaws, slowing during the closing phase and accelerating during the opening. The other to drive the horizontal movement of the group, keeping the same speed of the wrapping material during the sealing phase and then accelerate.

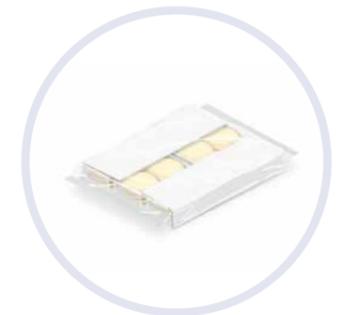
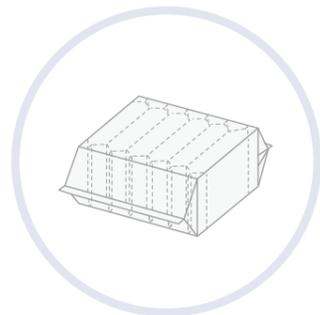
Two versions of the box motion are available: one for speed up to 80 packs/min, the other for speed up to 140 packs/min.

The pack orientation in the multipack can be lengthwise, crosswise, on edge and in pile.

For fully automated loading from primary to multipack wrapping, Eurosicma has developed the MPF - MultiPack Feeder. Such system is able to orientate the flow packs, grouping them in the desired quantity and finally, by means of a 2 or 3 axis driven Pick & Place system, transfer the created portions directly on the secondary flow wrapper's feeding chain.



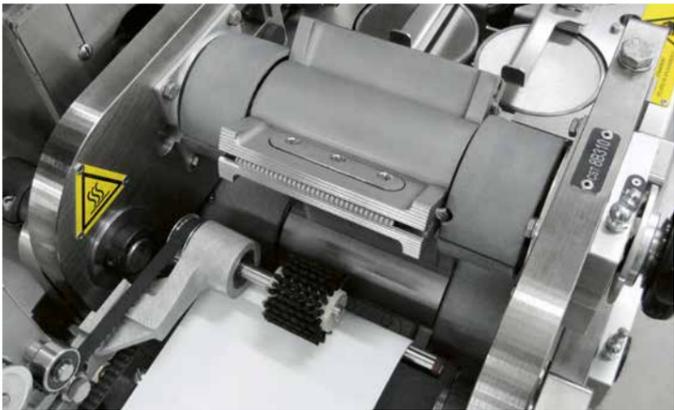
Fully automated primary and multipack flow wrapping line composed by handling and stacking systems, primary flow wrappers for biscuits in pile, dedicated units to fold and seals the flow packs, 3 axis Pick & Places and multipack flow wrappers equipped with carton feeders from reels.



SOME DETAILS AND OPTIONAL



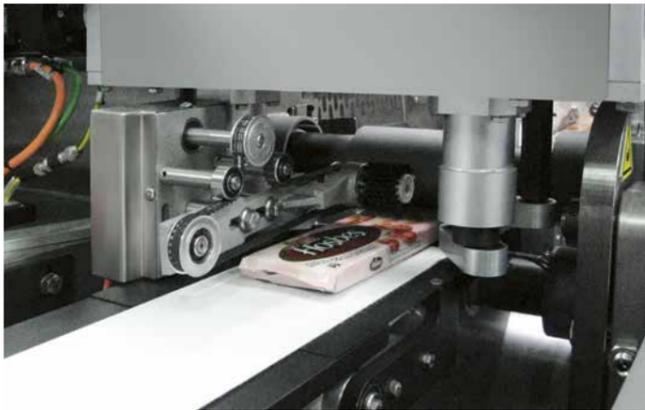
Removable jaws



Fixed jaws



Gas flush



Mechanical gusseting



Pre-cut carton feeder



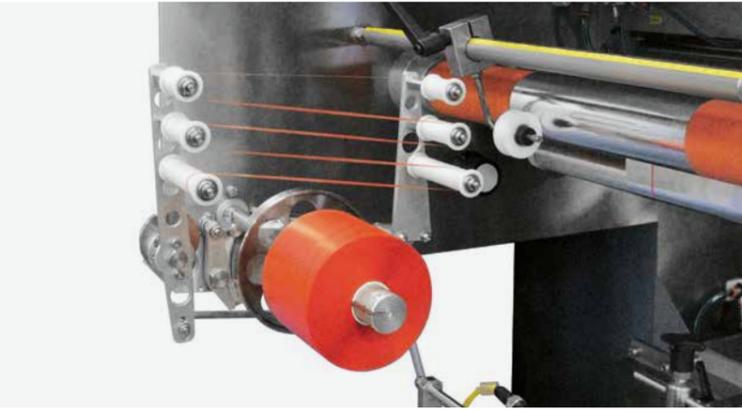
Carton feeder from reels



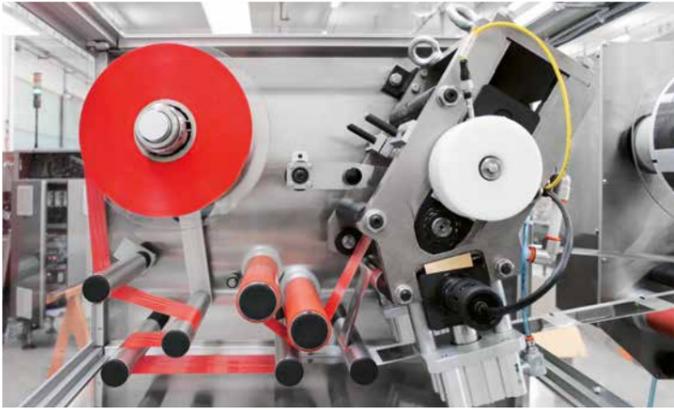
Air conditioning system



Transparent covering



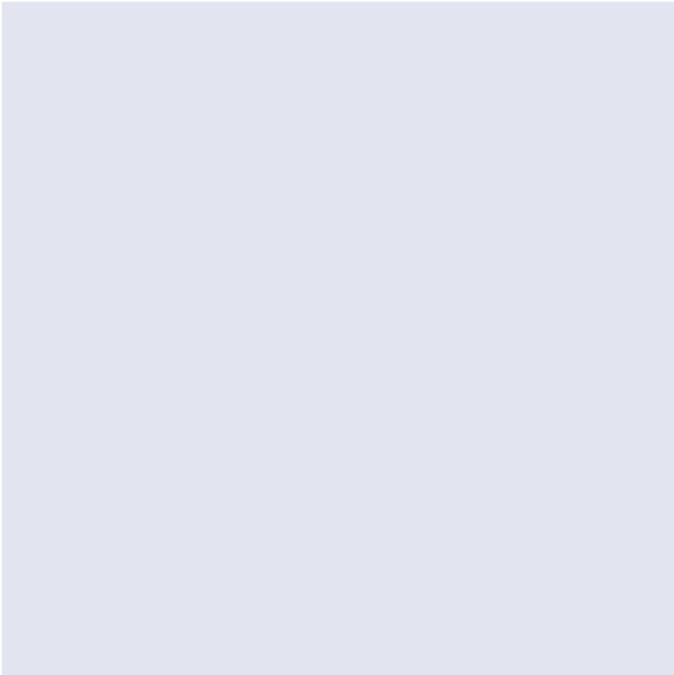
Longitudinal easy opening



Transversal easy opening

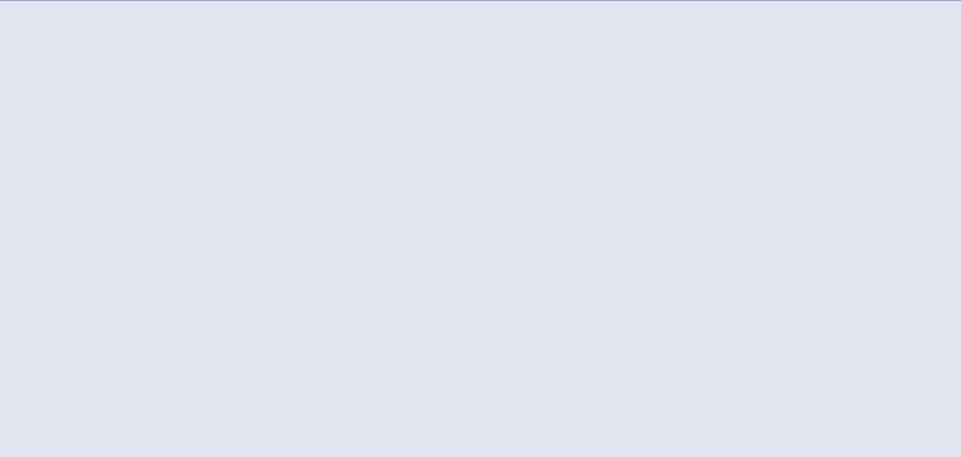


In line overlapping unit



TECHNICAL DATA

THE EURO 88 COMBINES THE VALUES OF PERFORMANCE AND RELIABILITY COMING FROM MORE THAN HALF A CENTURY EXPERIENCE AND THE ABILITY TO CREATE CUSTOM-MADE SOLUTIONS.



IN ITS STANDARD BASIC VERSION, THE EURO 88 IS COMPOSED BY:

- Single reel holder
- Bidirectional photocell for print registration
- One pair of cold longitudinal sealing rollers
- Two pairs of hot longitudinal sealing rollers
- Cross sealing fixed or removable jaws
- Out feed belt
- 10" display (Touch Screen)

OPTIONS

- PROPORTIONAL VALVES
- CUSTOMIZED CROSS SEALING ROLLER GROUP, ACCORDING TO CUSTOMERS' NEEDS (VARIOUS CRIMPS TYPE)
- SPECIAL EXECUTION OF THE CROSS SEALING JAWS (E.G. EUROHOLE)
- ADDITIONAL PAIR OF REMOVABLE JAWS (STANDARD ROLLERS WITH 2 JAWS)
- DOUBLE REEL HOLDER, UNWINDING FILM UNIT, AUTO-SPLICER
- ADJUSTABLE BOX FORMER
- WATER COOLING
- GUSSETING (MECHANICAL OR PNEUMATIC)
- SEVERAL SELECTING DEVICES FOR DEFECTIVE PACKS AVAILABLE UPON REQUEST
- COUNTING UNIT
- CODERS
- ETHERNET CONNECTION
- AND SEVERAL OTHERS

Product size range						
	Lenght (mm)		Width (mm)		Thickness (mm)	
	Min.	Max	Min.	Max	Min.	Max
Euro 88	30	400	15	120	5	80
Euro 88 VM	35	95	35	65	5	60 (*)
Euro 88 PWF	35	120	35	65	5	60 (*)
Euro 88 EDG	55	250	38	80	38	80
Euro 88 CF3	30	160	25	100	5	60
Euro 88 HSF4	30	400	15	100	5	60
Euro 88 HSF8	30	160	15	100	5	60
Euro 88 Noodles (noodles)	50	160	50	120	15	60
Euro 88 HSF Noodles (seasoning bag)	50	200	30	80	1	7
Euro 88 STF	50	400	30	160	10	50
Euro 88 SSTF	50	250	30	100	10	30
Smart	35	160	15	100	7	45
Minismart	35	160	15	100	7	45
Euro 88 (box motion)	60	-	20	250	20	100

Film reel dimensions			
	Lenght (mm)		Wrapping materias: heat or cold sealable materials.
	Min.	Max	
Inner diameter	70	79	
External diameter	-	380	
Real width	350 / 500 (opt) / 650 (box motion)		
Max weight (kg)	25		

Distribution systems		
	Smart	Minismart
Standard width	(*) 1000 mm	800 mm
n° of rows/min	up to 55 (single station) up to 120 (multiple station)	up to 90
Power consumption	7,5 Kw	5,5 Kw
Air consumption	50 NL	50 NL

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