

# GIANT1 SERIES

MEDIUM SPEED BLISTER PACKAGING MACHINES



# GIANT1 SERIES AT A GLANCE

The GIANT1 Series has been conceived for those customers who face frequent changeover and demand high production standards and efficiency at the same time.

Compactness of the line, overall visibility of the material work, ease of use and, last but not least, the advanced and unique technology applied on the roller sealing, coding and perforation stations are the distinguish factors that portray the GIANT1 series.

THE IDEAL SOLUTION FOR JUST-IN-TIME PRODUCTION OF SMALL-MEDIUM BATCHES.





# GIANT1 SERIES AT A GLANCE

The GIANT1 Series is available in four versions:

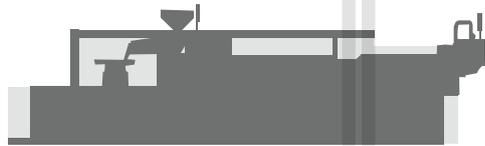
- GIANT1-A80i, integrated blister and cartoner, with positive blister transfer
- GIANT1-A86, integrated blister and cartoner, with positive blister transfer
- GIANT1-A80, integrated blister and cartoner, connection by means of magazine
- GIANT1 Stand alone can be easily connected to any other secondary packaging machine (cartoner, wallet pack, flowpack etc...)

FLEXIBILITY AND MODULARITY ARE THE KEY FEATURES THAT ALLOW IMA SAFE TO INCREASE THE MARKETS SHARE IN THE MEDIUM SPEED RANGE.



## GIANT1-A80i

350 BLISTER/MIN



175 CARTONS/MIN

## GIANT1-A86

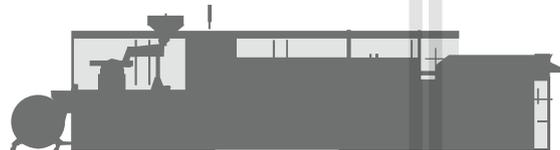
350 BLISTER/MIN



350 CARTONS/MIN

## GIANT1-A80

400 BLISTER/MIN



175 CARTONS/MIN

## GIANT1 Stand alone

400 BLISTER/MIN

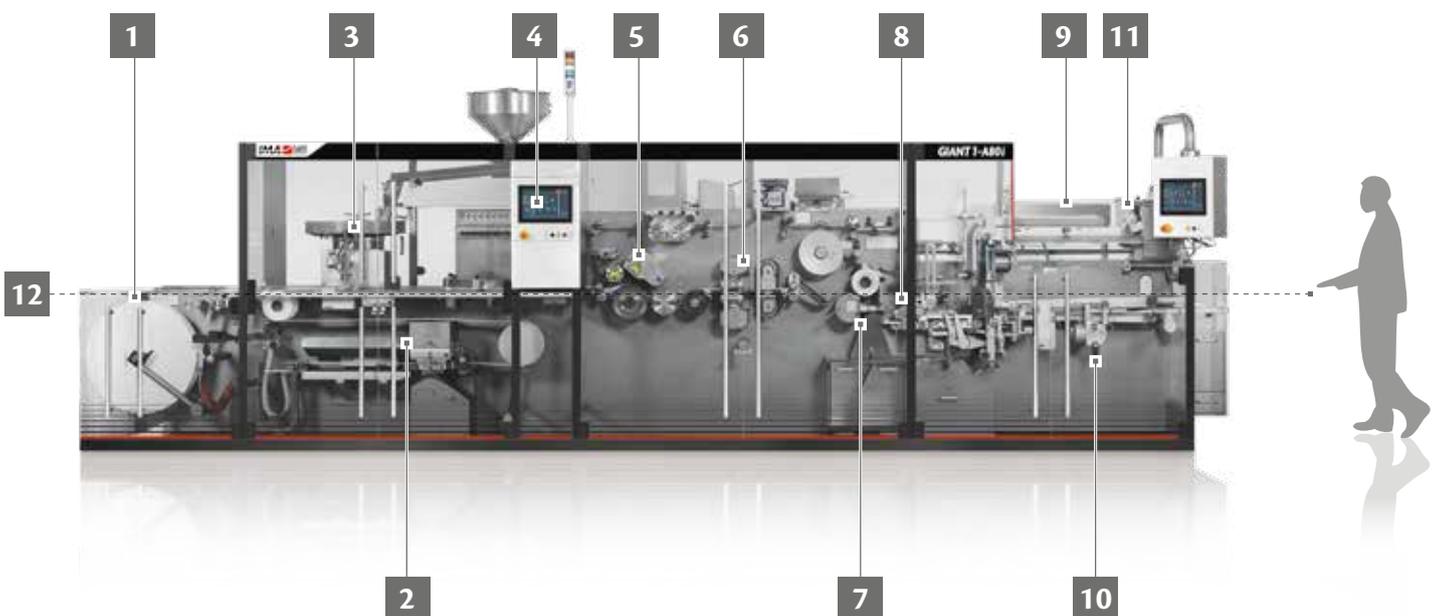


CARTONER, WALLET MACHINE  
FLOWPACK OR OTHER



ALL KINDS OF THERMOFORMING AND COLD FORMING MATERIALS CAN BE HANDLED. FILMS ARE KEPT ACCURATELY IN LINE AND FREE OF TENSION.

- |                                    |  |   |
|------------------------------------|--|---|
| 1. FORMING FILM REEL HOLDER        | 5. SEALING STATION                         | 9. CARTON MAGAZINE                            |
| 2. PRE-HEATING AND FORMING STATION | 6. CODING AND PERFORATION STATIONS         | 10. CARTON CLOSURE                            |
| 3. FEEDING AREA                    | 7. CUTTING STATION AND BLISTER REJECTION   | 11. LEAFLET FOLDING UNIT                      |
| 4. BLISTER FILLING CONTROL AND HMI | 8. CONNECTION BETWEEN BLISTER AND CARTONER | 12. ERGONOMIC PRODUCTION HEIGHT AVERAGE 90 CM |



# GIANT1 SERIES HIGHLIGHTS



## 1 HEATING STATION

Four heating sections in order to heat the film gradually and uniformly can be set independently through the HMI. The heating area is completely accessible for maintenance and does not have any cables or tubes at sight. When the machine stops, the plates open and there is no contact with the film in order to prevent film damage.

## 2 FORMING STATION

The forming area is designed for both thermoforming and cold forming materials. The combination of the advanced heating system and the forming process grants an uniform thickness of the forming material.

## 3 FEEDING AREA

With its clean-finish balcony construction and having all mechanical parts contained within the machine, the feeding area has been designed for very fast cleaning operations without the risk of cross-contamination and to allow the installation of different feeding systems such as chute feeders, roller feeders, brush box feeder as well as customized feeder.

## SOMBRERO FEEDING SYSTEMS

Another great benefit of IMA Safe is SOMBRERO, the IMA patented universal feeder for solid forms. Not at all affected by different product tolerances or shape and not even affected by broken tablets or fragments, SOMBRERO never stops the production as it may happen with standard feeding systems by channels.





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#### 4 SEALING TECHNOLOGY

IMA Safe's continuous roller sealing grants the best performance and sealing quality thanks to the constant check of temperature, pressure and speed. The straight path of the web under the sealing station allows no limits in pocket dimensions.

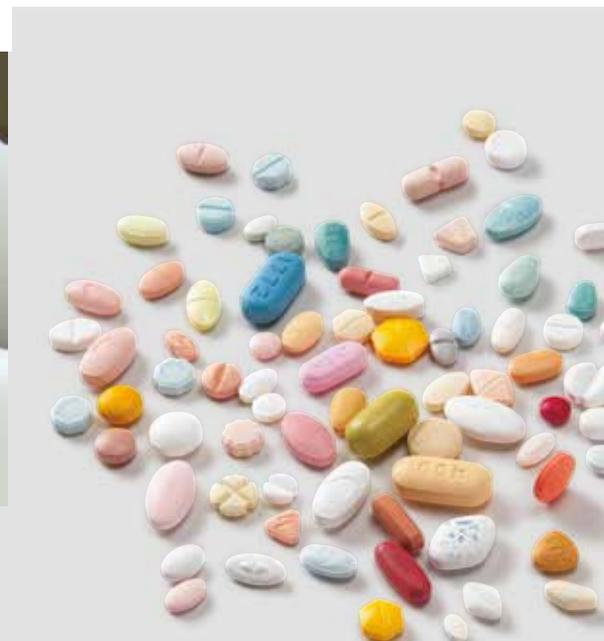
#### 5 CODING AND PERFORATION STATION

Advanced systems on continuous motion that follow and accompany the film flow, granting an excellent coding and perforation quality and allowing a reduce number of size parts, which are smaller and lighter in design and weight. Another reason why format change-over can be done quickly and easily.

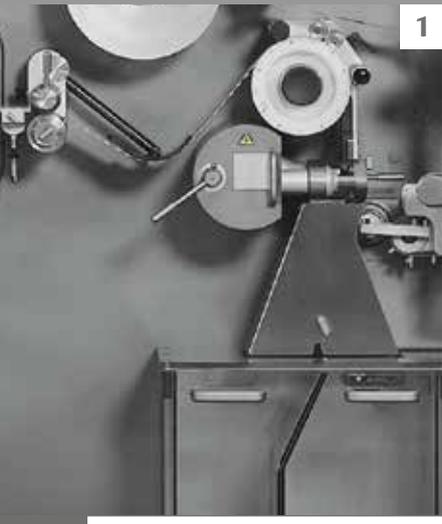
THE PHILOSOPHY OF IMA MACHINES IS THE ROTARY SEALING, THE UNIQUE AND RELIABLE SOLUTION FOR HIGH BLISTER QUALITY FOR OVER 50 YEARS.



3



# GIANT1-A80i AND GIANT1-A86



## 1 CUTTING AND REJECTION STATION

A new concept which incorporates blister cutting and rejection within the same station. The patented blister cutting system assures that rejected or faulty blister cannot be re-inserted in the packaging process thanks to a different and original blister shape. The path of the rejected blister is completely visible.

\*The patented blister cutting system is NOT APPLICABLE on GIANT1-A80

## 2 BLISTER POSITIVE TRANSFER TO THE CARTONER

The advantages of this unique integrated solution by means of blister POSITIVE transfer are:

- The correct position is controlled mechanically and kept by suction cups, regardless of any flaws (i.e. curved blister)
- Blisters are always guided and visible
- The connection is carried out in a small space with a clean and totally accessible design.
- Easy handling and change over
- Fast clearing after a jam

## 3 AUTOMATIC BLISTER RECOVERY MAGAZINE

Highest efficiency in production based upon simple working principles. In case of rejection, the blister recovery magazine places automatically a good blister in the blister transport chain. There is no need for manual blister filling as the recovery magazine refills itself automatically during production and during the machine restart after the size change-over.

The blister recovery magazine also permits easy integration, during or at the end of production of good blisters which have been rejected by the cartoning phase.



# GIANT1-A80



1 1

## 1 BLISTER TRANSFER TO THE CARTONER

Blister pick-up, transfer and release into magazine take place via a vacuum system.

There is no need to load manually the magazine at every start up and the blister transfer is always visible.



# GIANT1 SERIES CARTONERS

CARTON PICK UP,  
OPENING AND  
POSITIONING ARE  
PATENTED BY IMA.

This system allows handling any kind of cartons, including cartons with braille code and recycled carton paper.



A86 carton pick-up and opening

Continuous and intermittent motion cartoner work in tandem with the GIANT1 blister module. The innovative features of the cartoners make it the ultimate solution for secondary packaging:

- Complete balcony structure and accessible
- Carton transport through tooth fitted belts maintains the cartons in the correct position during the entire conveying process
- Chain free to avoid cleaning issues
- Quick changeover in less than 15 minutes



Cartoner module A80i



Cartoner module A86



Cartoner module A80

# ANCILLARY EQUIPMENT FOR GIANT FAMILY



## CONTAINMENT SOLUTIONS

The design of the GIANT Family blister machines allows the perfect combination between feeding system and containment technology. In effect, the reliability of the universal feeder SOMBRERO, reduces to a minimum the intervention of the operator within the cabin of containment and its accessibility and smooth surface simplify cleaning procedures.

IMA SAFE OFFERS THE ADVANTAGE OF BEING ABLE TO SATISFY ALL REQUIREMENTS FOR CONTAINMENT OF SOLID PHARMACEUTICAL SHAPES IN BLISTER PACKAGING WITH 100% IN HOUSE SOLUTIONS.

## OPTIONAL EQUIPMENT FOR A TAILORED PACKAGING LINE

The flexibility of GIANT Series allows the perfect integration of any ancillary equipment such as double feeders, blister filling control, containment solutions, printing units, leaflet folders, booklet inserting systems, coding systems, checkweigher, labeling and more.



ALL KIND OF LINE CONFIGURATIONS AND PRODUCT TYPOLOGY ARE POSSIBLE.

# GIANT1 SERIES SIZE CHANGEOVER



EASY CHANGE-OVER, VERY LIGHT PARTS  
AND HIGHEST ACCESSIBILITY.

The GIANT1 Series has been developed to reach an unprecedented reduction in changeover and cleaning times. A single operator can switch from one product and blister size to another.

Main changeover features are:

- A reduced number of change parts, extremely light and easy to replace without the use of tools
- Each step is assisted via the HMI; each size setting is stored in the computer so that production parameters are precisely repeated
- A single working level which allows for ergonomic change of size parts.

## HMI

The operator interface has been designed to fully meet operator requirements. A computer touch screen, with 16:9 colour monitor and graphical user interface, enables easy and intuitive management of the machine's production and status.

The computerised system manages the filling control, bar code reader, OCV, and OCR which are completely integrated into the single HMI.

Production data and statistics, troubleshooting, including changeover instructions, maintenance and manuals can also be obtained through the HMI screen. Also, reconciliation of production data to facilitate production batch closing, is possible from the machine interface.



# GIANT1 SERIES MUCH MORE THAN JUST MACHINES



## FEEDING

IMA Safe feeding systems are designed as the result of over 40 years of experience in the blister packaging industry and obtain a filling efficiency of 99.9%. These systems have been designed according to GMP principles which facilitate cleaning and reduce changeover times to a minimum.

Extremely delicate and complex shaped products are handled with ease resulting in high production output.

A specific department within IMA SAFE is dedicated to product feeding solutions and includes several test rooms - conforming to GMP guidelines - for product feeding under controlled environmental conditions.

Solutions are found which are based upon each unique product.

ALL IMA SAFE FEEDING SYSTEMS FEATURE:

- NO NEED FOR OPERATOR ASSISTANCE
- WIDE FEEDING BOWLS FOR MAXIMUM FEEDING PERFORMANCE
- CONTINUOUS WEB MOTION
- HIGHER CAMERA EFFICIENCY DUE TO CONTINUOUS FILM MOTION GRANTING GREATER PRODUCT STABILITY IN THE POCKET
- EASY INTEGRATION OF MULTIPLE PRODUCT FEEDING SYSTEMS.

## SIZE CHANGEOVER

IMA SAFE SIZE PARTS ARE FULLY TESTED BEFORE BEING SENT TO THE CUSTOMER, WHICH ENSURES THAT PRODUCTION CAN START IMMEDIATELY.

Originally manufactured size parts allow IMA Safe machines to work at their highest production efficiency.

Size parts are designed with a combination of detailed technical knowledge and practical know-how.

IMA SAFE OFFERS:

- DETAILED EXPERIENCE WITH ALL TYPES OF PACKAGING MATERIALS
- DETAILED KNOWLEDGE OF THE CUSTOMER'S PARTICULAR MACHINE CONFIGURATION
- DESIGN AND DRAWING SYSTEMS BASED ON THE TECHNICAL PARAMETERS OF EACH MACHINE MODEL.

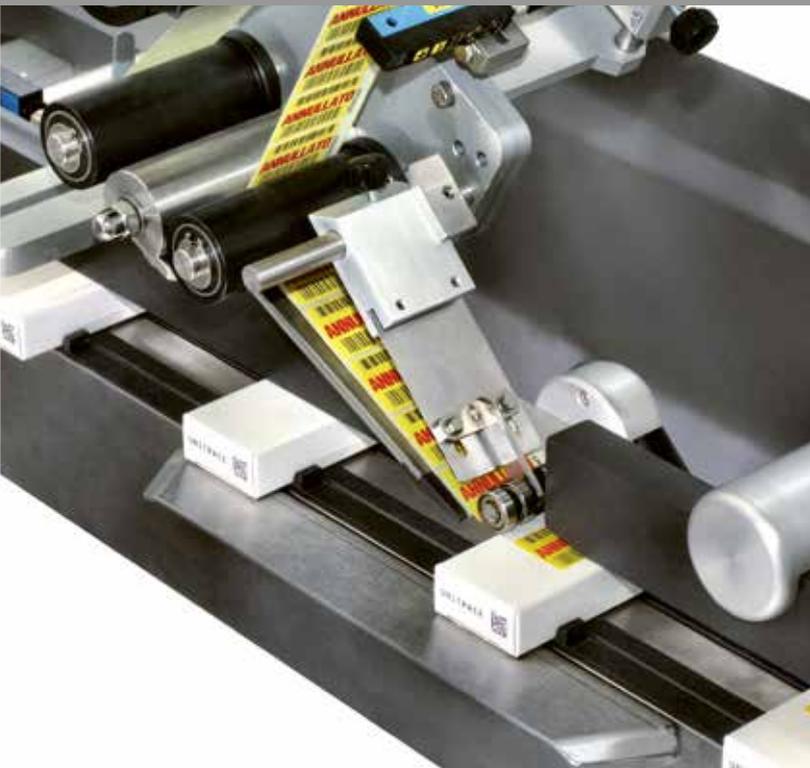
# TRACK & TRACE AND SERIALIZATION



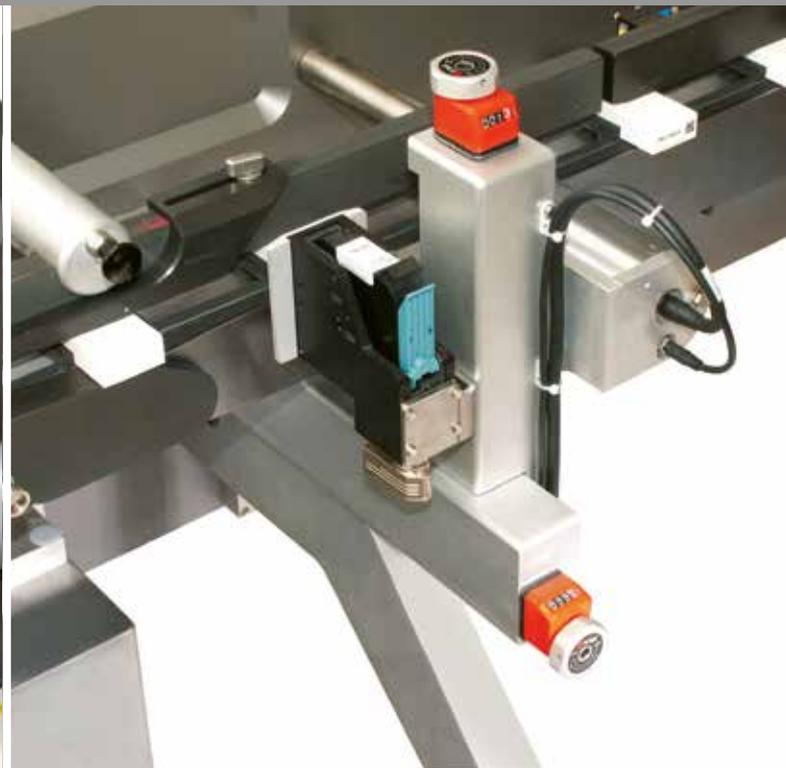
SPACE SAVING, RELIABILITY  
AND EFFICIENCY.

GIANT1 Series can be further equipped with a complete Track & Trace system which complies with all regulatory needs. UNITRACE is the first integrated solution available on the market able to guarantee total inspection of each single carton. A positive transport with toothed belts, allows the identification of each carton through the entire Track & Trace process (Check-weigher, code printing, labeling) and assures highest efficiency by reducing false rejects. A single user interface controls the entire production line. The integration of devices enables the system to be very compact, thereby reducing considerably the overall dimensions of the line.





Labeler



Printing unit and quality check

## TRACK & TRACE EXPERT

The Track & Trace is a process of association of unique codes to a complex product traceability system. We take care of this process during the whole packaging line: from the serialization of the primary pack to the aggregation on pallet.

IMA has adopted an Open Policy that allows the integration of any vision systems, and thanks to a consolidated partnership with the most important vision system suppliers, it has designed its machines in a T&T oriented perspective. Every single packaging phase is optimized to eliminate the possibility of errors during the serialization and aggregation process.



# SALES AND SERVICES

A GLOBAL APPROACH TO CUSTOMER REQUESTS. PROMPT AND EFFECTIVE TECHNICAL ASSISTANCE THROUGHOUT THE ENTIRE LIFE-CYCLE OF THE MACHINE.

GLOBAL MANAGEMENT OF LINE MATTERS FOR COMPLETE LINES SUPPLIED BY IMA.

DIRECT INVOLVEMENT OF ENGINEERING DEPARTMENTS AS REQUIRED.

## SERVICE

IMA machines incorporate the latest developments in technology and are designed to ensure the highest production efficiency with low maintenance.

To obtain top performance from our machines, IMA recommends **technical training courses** for personnel from Production (Operators, Technicians and Supervisors), R&D, Process Transfer Department and the Maintenance Department.

Training courses can be organized at IMA's site or at the customer's plant and are taught by qualified IMA technicians. These Courses are tailor-made and modular and are designed to fulfil each individual customer's specific needs. Basic, Intermediate and Advanced training modules can be applied and special attention is given to the customized units which are fitted on the client's specific machine.

These courses allow the customer's staff to operate the machine, maintain it in perfect working condition and explain how to carry out troubleshooting procedures in the easiest and fastest possible way.

IMA can also provide **course on improving O.E.E.** and increasing production levels which are very important objectives in the pharmaceutical industry.

To guarantee fast and efficient assistance and support, **RSA – Remote Service Assistance**, enables IMA to provide support via modem

and via tele-video conference. RSA enables an immediate analysis of the machine's status and working condition and can be of particular use in case if problems occur.

## SPARE PARTS

The service of supplying original **IMA spare parts** fits completely with IMA's first-class maintenance service concept of taking care of the equipment as well as the customer's investment completely. The Spares Department has a very efficient delivery network, thanks to our Subsidiaries and Agencies, we are able to carry out deliveries of Spare Parts in the shortest time possible.

Extended to most of the IMA machine models, **My IMA Spare Parts** is your virtual shop window available 7 days a week, 24 hours a day intended to provide immediate replies to enquiries, price, delivery time, quotations and order status. All that you need in just a few clicks!

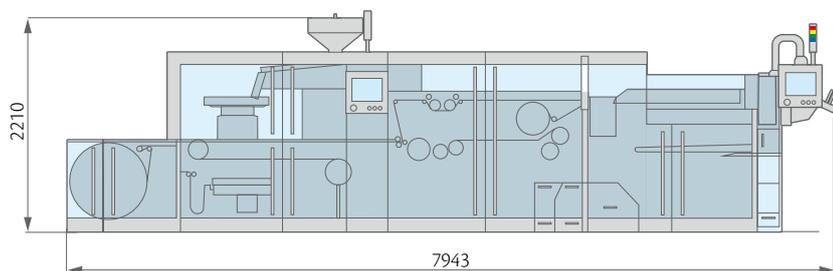
IMA SAFE provides prompt and effective **technical assistance** which covers the entire life cycle of its equipment. This assistance is provided by a dedicated team of experts able to meet our client's needs on a day to day basis. A customer oriented after sales service staff is what distinguishes IMA from the other manufacturers.



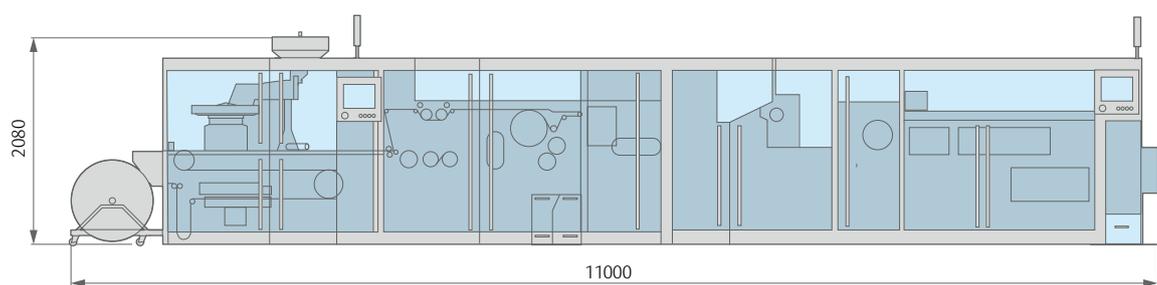


# TECHNICAL DATA

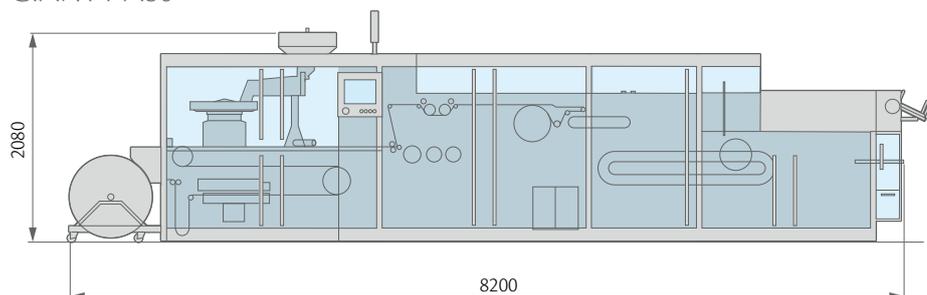
GIANT1-A80i



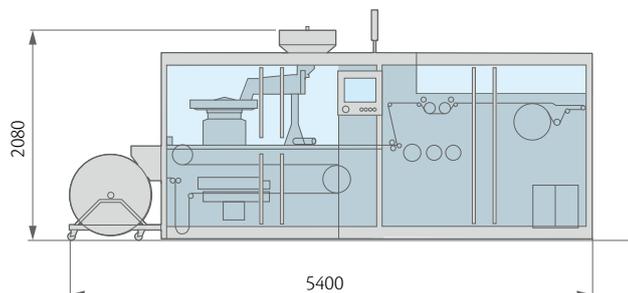
GIANT1-A86



GIANT1-A80



GIANT1 STAND ALONE



## GIANT SERIES

	Blister dimensions (min/max) Up to	Carton dimensions (min/max) Up to
<b>Width</b>	30-90 mm	35-97 mm
<b>Length</b>	60-145 mm	65-154 mm
<b>Height</b>	3-12 mm	12-106 mm



### Forming materials

Aluminium laminate, PP, PVC, PVC/PVDC, PVC/ACLAR, PET, COC and others



### Lidding materials

ALU-HARD, ALU-SOFT, ALU/PAPER, ALU/POLYESTER, PP and others

The dimensions are indicative and can vary depending on the optional groups chosen and machine lay-out



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