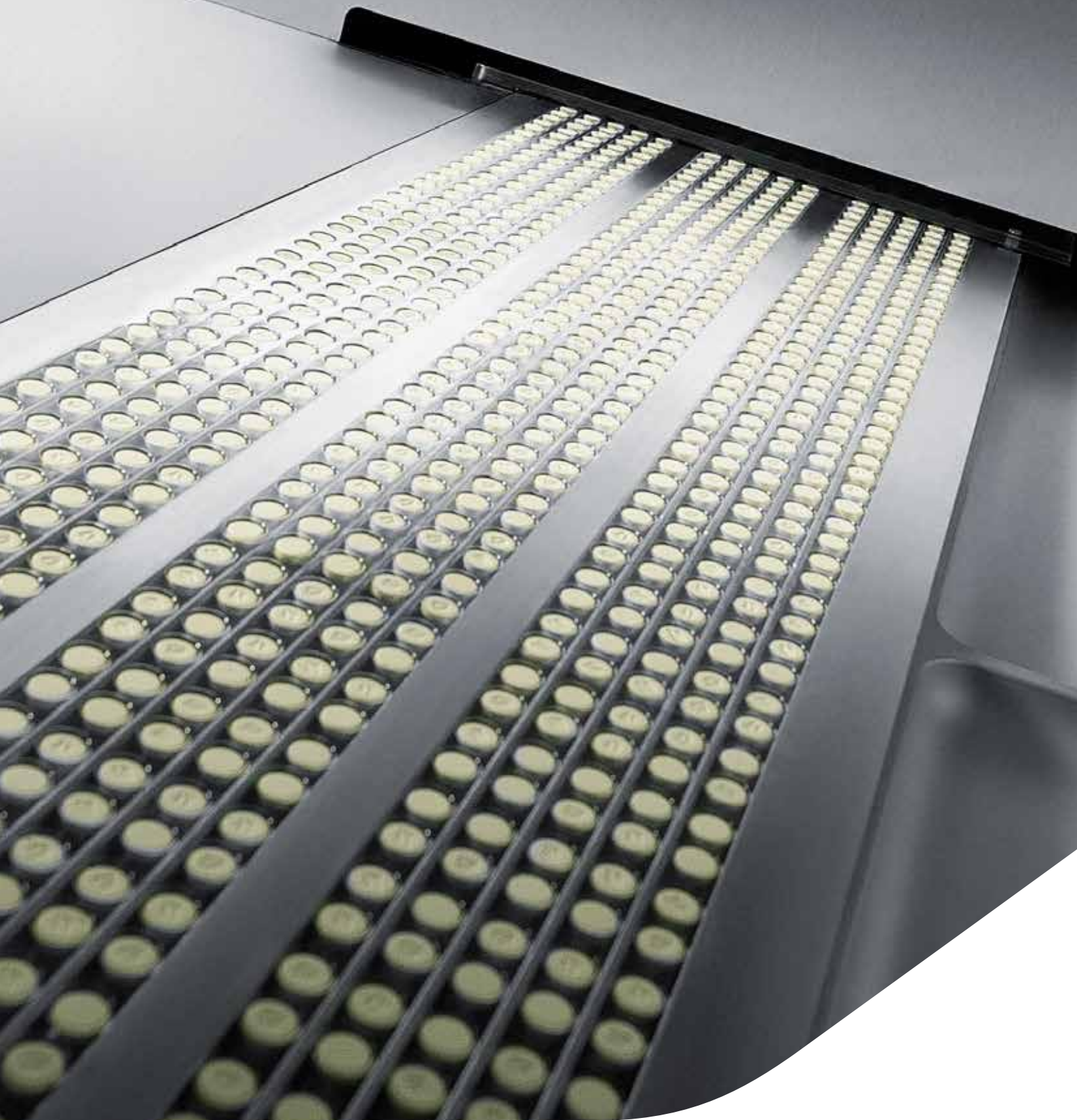


# C96-A96

BLISTER PACKAGING MACHINE WITH INTEGRATED CARTONER



# C96-A96

THE C96-A96 IS A HIGH SPEED BLISTER MACHINE DESIGNED SPECIFICALLY FOR THOSE CUSTOMERS WHO NEED TO RUN UNINTERRUPTED LARGE BATCHES WITH FAST AND FREQUENT CHANGEOVERS AND FROM 2 TO 3 LANES DURING PRODUCTION SHIFTS.







## IMA SAFE'S C96-A96 IS THE ANSWER

It is the right choice because of the best performances compacted in the minimum footprint.

It works on 2 or 3 lanes allowing flexibility of blister dimensions and guaranteeing, at the same time, an high output as well.

The super high feeding systems' efficiency is one of those reasons that make the C96-A96 the right way to reach a fast return on investment thanks to the small number of rejections.

Despite of the high speeds it is able to work with all kinds of materials, regardless of their quality.



# C96-A96

THE C96-A96 SUPER HIGH SPEED BLISTER LINE REPRESENTS THE HIGHEST LEVEL OF MECHANICAL ACHIEVEMENT IN BLISTER PACKAGING AND RESPONDS TO THE NEEDS OF BIG PRODUCTION BATCHES, FAST AND FREQUENT CHANGEOVERS AND HIGH OUTPUTS .

Its conception comes from the hard work done by a dedicated team of IMA SAFE engineers as well as the experience gained from having delivered more than 2000 medium and high-speed machines worldwide.

The C96-A96 guarantees high reliability and efficiency within the entire packaging process.

- 1,300 BLISTERS/MINUTE IN A SMALL FOOT PRINT
- CONTINUOUS RUNNING AND POSITIVE BLISTER TRANSFER
- COMPLETE ACCESSIBILITY
- USER FRIENDLY
- LIGHT FORMAT PARTS: NO LIFTER NEEDED
- FAST AND COMPUTER-GUIDED CHANGEOVER
- BALCONY STYLE COSTRUCTION



# C96-A96



## THE C96-A96 MONOBLOC MACHINE CONTINUES THE IMA BLISTER PHILOSOPHY THAT WAS FIRST APPLIED, IN 1989, TO THE C90-A91.

Designed with balcony construction and for easy changeover, the C96-A96 handles all materials, incorporates a pc as an operator interface and controller, and has an integrated connection between the blister machine and the cartoner.

## USER FRIENDLY DESIGN

Complete accessibility is one of the best features of C96-A96. With the ergonomic balcony design, all components are highly visible and easy to follow by the operator. From the forming station to the stacking station and through to the cartoner, the entire production process can be easily monitored throughout the machine.

Can-bus connections, located in the rear of the machine, drastically reduce cable space, thus guaranteeing easy access for maintenance operations.

- ALL MATERIAL HANDLING CAN BE CARRIED OUT FROM THE FRONT OF THE MACHINE
- EASY MACHINE SET-UP
- INTERACTIVE COMPUTER INTERFACE
- SHORT CLEANING TIME THANKS TO SPECIFIC GMP DESIGN.





## HIGH-TECH SERVO MOTORS

Servo motors are used throughout the machine and guarantee intelligent operation, 100% precision and the reduction, to the minimum, of energy and product wastage.

This technology has been applied especially to reduce changeover times guaranteeing flexibility.

## SPEED AND FLEXIBILITY

The C96 can run up to 1,300 blisters/minute, while the integrated A96 cartoner, balcony designed, can produce up to 500 cartons/minute. Despite on the machine's speed, it is able to handle different kind of materials and a large range of blister and carton dimensions.

# C96 BLISTER MACHINE



## 1 REEL HOLDER

The semi-automatic reel holder allows forming material splicing without production stop. Reel diameter up to 800 mm.



## 2 FORMING

Four heating sections in order to heat the film gradually and uniformly can be set independently through the HMI. When the machine stops, the plates open and there is no contact with the film in order to prevent film damage.

Possibility to handle all types of forming materials by using different forming process.



## 3 FEEDING

Feeding area has been designed for very fast cleaning operations and to easily allow the installation of different feeding systems such as chute feeders, roller feeders, brush box feeders and customized feeders.

The design of the IMA feeding systems are a result of 40 years' experience in the blister packaging industry and obtain a filling efficiency of 99.9%.





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## **4 SEALING**

IMA SAFE's continuous roller sealing guarantees the best performance and sealing quality thanks to the constant check of temperature, pressure and speed.

The sealing pressure check is made by a self-regulating load cell placed directly into the sealing roller mechanism, which is very precise.

The roller sealing is the key feature of IMA SAFE because it allows to reach high-speed and, at the same time, to have a perfect hermetic sealing with all kinds of lidding materials.

## **5 CODING AND PERFORATION**

Blister coding can be done by embossing unit, inkjet system, laser or in line printer.

Any kind of perforation is possible, i.e. crossed, longitudinal and vertical.

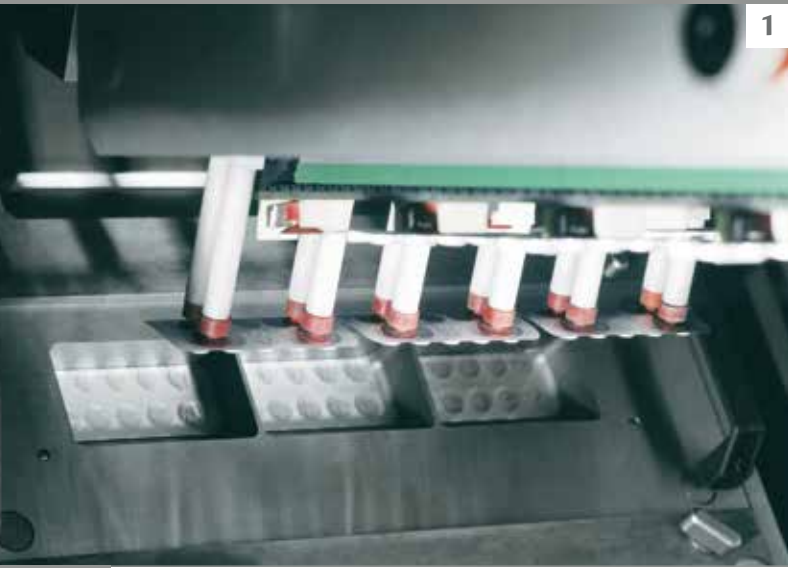
## **HMI**

The operator interface has been designed to fully meet 21CFR Part 11 and 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 computerized system manages the 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 be obtained through the HMI screen. Troubleshooting and maintenance can be done also via modem connection. Reconciliation of production data, to facilitate production batch closing, is possible from the machine interface and via Ethernet connection.

# INTEGRATED CONNECTION



## 1 CUTTING & POSITIVE TRANSFER

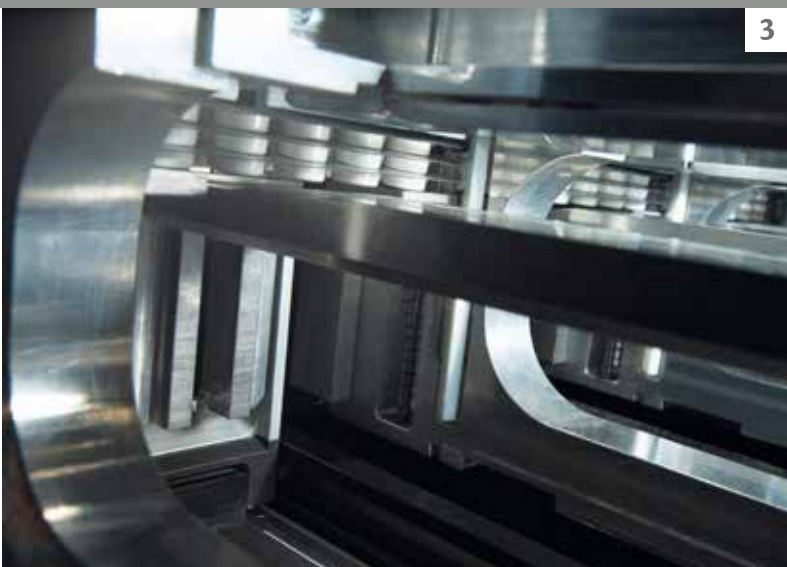
Blister and cartoning machine are integrated by means of a positive blister transfer, consequently high reliability is guaranteed even with not completely flat blisters; no blister magazine is required. The positive connection is the reason why the C96-A96 can reach such a high speed.



## 2 STACKING

The stacking area is placed before the cartoner and it is characterized by an extremely accurate electronic counting system. It allows an high-precision reducing to the minimum the stops due to counting errors.





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### 3 POSITIVE TRANSPORT

The vacuum flow of the blister transport belts is automatically adjusted depending on the number of blisters transported. The belt is fitted with teeth that allow blisters to keep the right position during the transport to the stacking unit.

### 4 ALIGNEMENT IN ONE ROW

Once stacked up, blisters are aligned in one row and transported to the cartoner. All this phase, as the whole connection zone, is completely accessible allowing blisters to be always visible.



## LEAFLET FEEDING SYTEMS

All kind of leaflets feeding systems can be installed on A96 for flat, pre-folded and leaflets from reel.

Leaflet transport, from the folding unit up to the introduction, is completely visible and accessible.

Leaflets are pre-inserted into the carton through a double mobile blade for higher efficiency.





# A96 CARTONER MACHINE



1



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## 1 CARTON MAGAZINE

The very spacious carton magazine, more than 2 meters long, is accessible in total safety even in production due to the dedicated guards. The magazine moves along the transport belt to facilitate carton withdrawal by the rotary drum.

The carton dust does not fall on the mechanical parts of the machine.

## 2 CARTON WITHDRAWAL AND OPENING

The pick-up, opening and positioning of the carton are patented by IMA. This system allows handle any kind of cartons, including cartons with braille code and recycled paper cartons.

## 3 LEAFLET FOLDING UNIT

The transport of the leaflet from folding until introduction into the carton is completely visible and accessible.

All kinds of leaflet folding unit can be installed for flat, pre-folded and leaflet from reel.





#### 4 BLISTER AND LEAFLET INSERTION

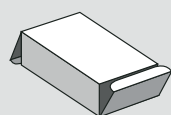
The pushers operate from the machine's back side so the operator's side is completely free accessible.

#### 5 CARTON CODING & CLOSING

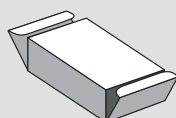
The coding stations are located in an area easily accessible to operators. Codes can be done on both side of the carton by embossing, ink-jet or laser. Tuck-in, glue or special closures, all common closure types can be implemented. Customized solutions are available on demand.

### CARTON DRAWINGS

#### MAIN CLOSURES



REVERSE TUCK CLOSURE

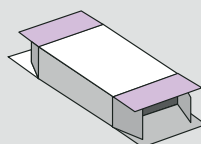


STRAIGHT TUCK CLOSURE

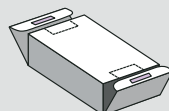


Glue

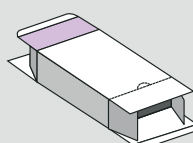
#### GLUE CLOSURES



GLUE CLOSURE

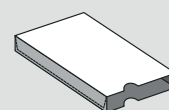


GLUE CLOSURE + TAMPER EVIDENT

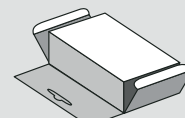


CARTON WITH 4TH FLAP

#### SPECIAL CLOSURES



SLEEVE



CARTON WITH 5<sup>TH</sup> PANEL

# C96-A96 CHANGEOVER

QUICK CHANGEOVER OF ALL SIZE PARTS AND GUIDES BY SIMPLY PULLING THEM OUT OR SLIDING THEM IN, WITHOUT THE NEED FOR ANY TOOLS TO REDUCE THE CHANCE OF HUMAN ERROR.



## SIZE CHANGEOVER

- CAN BE DONE BY THE MACHINE OPERATOR
- ONLY A FEW LIGHTWEIGHT SIZE PARTS TO CHANGE
- EACH STEP IS ASSISTED VIA THE HMI; EACH SIZE SETTING IS STORED IN THE COMPUTER SO THAT PRODUCTION PARAMETERS ARE PRECISELY REPEATED.



# TRACK & TRACE + SECURITY



Side printing and camera inspection



Top printing and camera inspection

## IMA INTEGRATED MODULE FOR SERIALIZATION

Integrated module to apply camera, laser or ink-jet systems. It is the ideal solution to have a shorter line and higher efficiency because of less units in the line and a constant control of the carton in the tooth belt transport.

## TRACK & TRACE AND SERIALIZATION

ONE LINE - ONE SOLUTION - ONE SUPPLIER

Together with IMA LIFE and IMA BFB, IMA SAFE works actively to find the most functional and GMP solutions starting from the primary packaging (blister, bottles or tubes etc...) to the secondary packaging (cartons, bundles, cases and pallets...). IMA Group is your best partner for supplying complete serialized track and trace lines.



# C96-A96



## SIZE PARTS

**IMA size parts are fully tested before being sent to the customer, which ensures that production can start immediately.**

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

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

- 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.







# 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

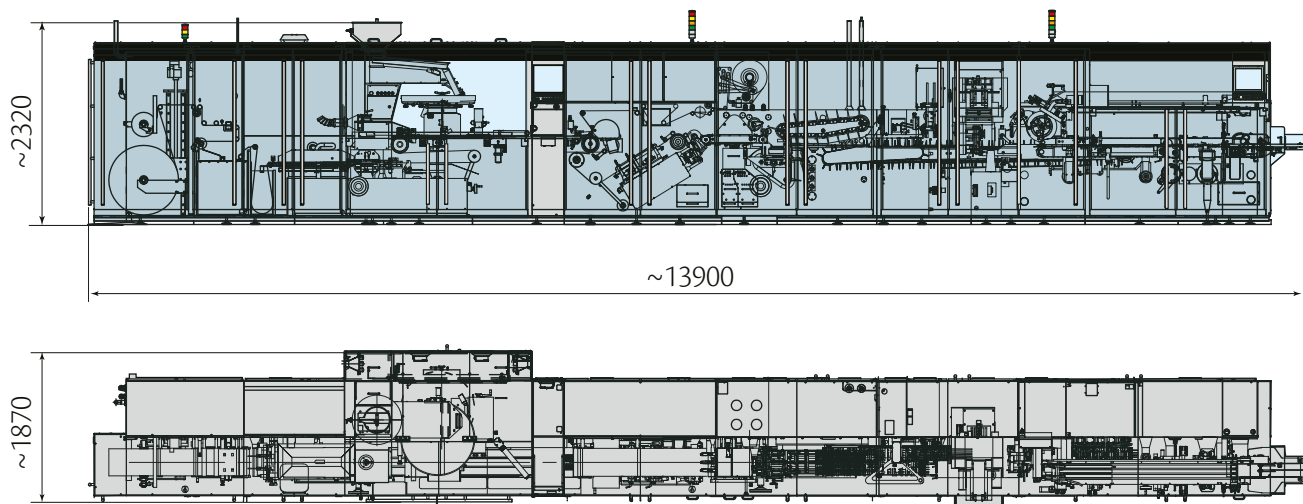
The service of supplying original **IMA spare parts** fits completely with IMA's first-class maintenance service concept of taking care of the equipment as well as the customer's investment completely. The Spares Department has a very efficient delivery network, thanks to our Subsidiaries and Agencies, 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



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

	BLISTER DIMENSIONS	CARTON DIMENSIONS
Width	30-90 mm	35-95 mm
Length	65-145 mm	70-150 mm
Depth	3-12 mm	12-90 mm

	PRODUCTION OUTPUT
3 rows	Up to 1300 blisters/min
2 rows	Up to 850 blisters/min
cartons	Up to 500 cartons/min



**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

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