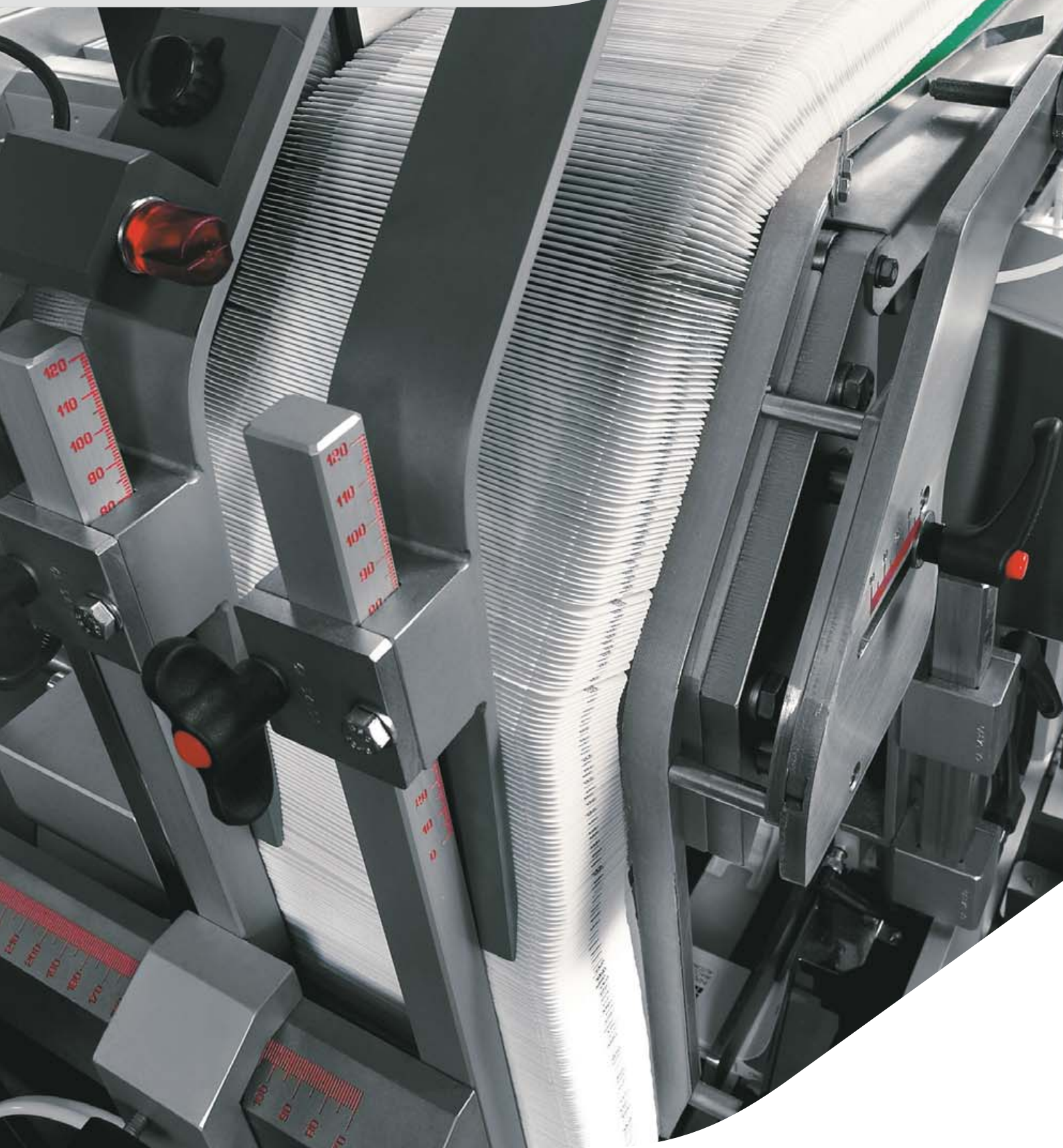


A83E/EH

INTERMITTENT MOTION CARTONER



A83E/EH

1 BLISTER MAGAZINE

The heart of a blister line is the connection between the blister machine and the cartoner. In the A83E/EH this connection is truly innovative due to a new blister magazine with adjustable height in the lower part.

This is done by means of a timing logic that minimises blister free fall both at the top of the magazine and during positioning in the bucket of the cartoner. The blister magazine designed by IMA is the proper solution to run very heavy and asymmetrical blisters.

2 BLISTER TRANSPORT SYSTEM

The blister transport system is expressly designed to take into account not only different blister stack heights but also whatever blister shape and dimensions; a wide range of minimum and maximum carton dimensions can be run on A83E/EH as well.

Whenever a separation of the primary and the secondary packaging area is required, it is possible to place a partition wall between the blister and cartoner machines though assuring the accessibility and the possibility to add an additional magazine for the manual collection.





3 LEAFLET TRANSPORT SYSTEM

Due to the innovative leaflet transportation system only two transfers are needed between the leaflet folding unit and its insertion position, solely via transport belts.

More legibility of the content is required as per the recent rules and hence leaflets can be a bit thick from the earlier ones. The leaflet transport system is particularly suitable to handle any kind of thickness. The logic of the machine enables a minimum reject in the presence of bar code cartons or wrong blister.

The right position of the leaflet before the insertion into the carton is always ensured regardless of the width or length of the folded leaflet.

4 CODE-EMBOSSING

Coding units are located in easily accessible positions. The coding unit has a wide coding area and a specific servo-motor.

There is no need to adjust the code-embossing device because it is automatically sited in line with the correct height of the carton.

Ink-coding unit, laser coding or ink transfer can be easily implemented to the code embossing station. Cartons can be coded on both sides.



5 CARTON MAGAZINE

A83E/EH carton magazine, one of the largest magazines in its speed range (2 m long) can handle up to 1500 pre-folded cartons and is designed to prevent dust falling on mechanical machine parts and for easy operator access. The A83E/EH allows easy viewing of material flow, making jam detection simple and easily rectified.

ERGONOMICS AND MACHINE DESIGN

Compact balcony construction and clean design, ensuring greater accessibility, ease-of-use, complete view of all parts and enabling installation in a small production space.

The guarding concept makes the machine totally accessible to the operator and allows a very quick change over.

The loading position of materials such as cartons, leaflets, booklets and blisters has been especially conceived to facilitate the working conditions of the operator.

A careful design together with a solid structure guarantee a minimal maintenance; moreover, all the parts are easily identifiable and there are not any hidden corners where dust can lay.

Total conformity to GMP directives and stainless steel construction give the A83E/EH a pharmaceutical finish.

A83E/EH

IMA'S KNOWLEDGE AND EXPERTISE ENABLES US TO HELP OUR CUSTOMERS MANAGE THEIR PRODUCTION.

MANY PATENT SOLUTIONS HAVE BEEN EXPRESSLY DESIGNED TO MAKE THE A83E/EH A TRULY INNOVATIVE MACHINE, OFFERING EXTREME FLEXIBILITY AND HIGH-PERFORMANCE.



THE HIGH-PERFORMING, FLEXIBLE CARTONER

One of the results of market globalisation is that our customers have to face the problem of an increasing variety of smaller and smaller product batches - often 5000 packs and sometimes even less and frequently in a different packaging presentation for each market.

As the production process is determined by the market, we at IMA know how to differentiate between large-scale and small-scale production.

High-volume products have to be run on high-speed and high-performance machines, while for small-volume products, often many different production jobs in one shift, no bigger than a few thousand packaging units each, high-speed is not required, but flexibility is a must.

The A83 Series is the most suitable range of cartoners to meet these requirements. With the same machine frame the A83 is available in two versions, A83E, output of 140 cartons/minute and A83EH, output of 160 cartons/minute. Both versions have no limitation on the A+B carton dimensions.

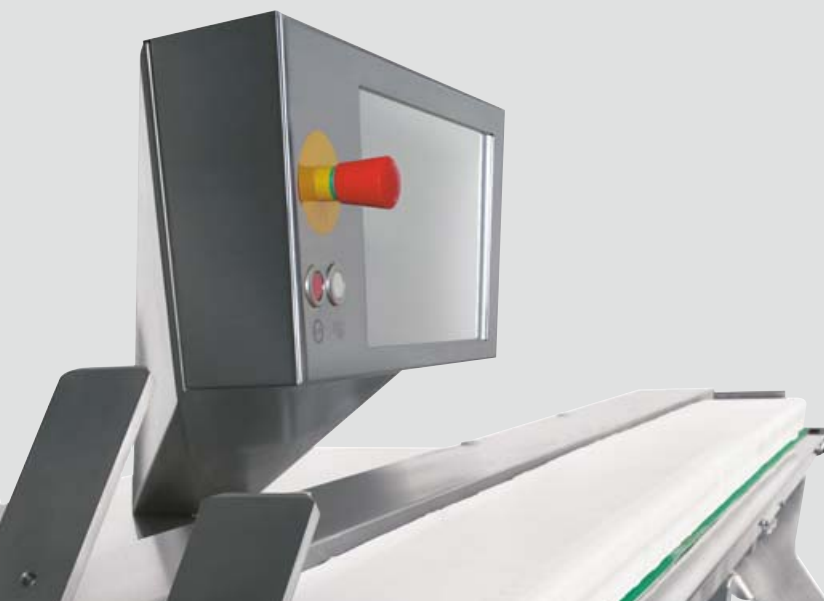


OPERATOR-FRIENDLY INTERFACE

All machine functions operate reliably due to the latest generation microprocessor machine control with integrated servo-axis control. This ensures simple, intuitive machine operation.

The high resolution colour touch screen with wide angle inspection and graphic user interface is also equipped with "Self diagnosis" and "Help" functions.

- All electronic size parameters can be called up at the push of a button for quick size changeovers. This also applies to OCV and barcode readers
- Productivity, running times and fault causes are recorded in detail
- Extensive data acquisition and evaluation
- Password-protected access for maximum security





CARTON OPENING AND HANDLING

Quick and simple size changeover and maximum reliability, even when using economical or recycled materials.

Extremely quiet running due to blister stack and carton transport by means of synchronised belts.

Drive connections feature maintenance-free timing belts for pharmaceutical safety and operator-friendliness.

Safety and control features give maximum efficiency.

All mechanical movements are within the machine structure.

IMA's patented carton handling system is designed for easy opening of both large and small hard cartons and their precise positioning along the transport belt. The combination of mechanical and vacuum system eliminates any aesthetics defects, particularly with lacquered cartons and guarantees the right position of the carton during the transport, filling and closing phases. The mechanical ejection systems ensure a huge production quality and a counter control is present to avoid any mis-rejection.

PRODUCT AND LEAFLET INSERTION

Since the market trend dictates the need for thicker and thicker leaflets, particular design effort has been focused on the leaflet and blister insertion area. An insertion device consisting of an upper blade and a feeding hopper ensures both leaflet (folded in a variety of ways) and blisters are precisely inserted at the best angle, as they are accompanied by the blade to the end of the carton, thus ensuring full productivity even with cross-perforated or Alu-Alu blisters.

Information booklets and whatever accessory can be easily inserted into the carton through dedicated feeding units. An accurate leaflet insertion is possible even with cross-perforated blisters.



SIZE PARTS

Thanks to its tool-free size changeover, machine production times are increased and machine idle times reduced. The complete size changeover is performed by a series of rapid and pre-set operations, which can be carried out by unskilled personnel allowing production to be resumed immediately without the need for fine-tuning adjustments. The number of changeover positions has been greatly reduced. In fact very few parts have to be changed, fewer than can be imagined and the parts are light and small. The changeover can be carried out quickly and easily by the operator in 3 - 15 minutes, without the use of tools, by simple fixed-position parts, digital indicators for the adjustments and complete accessibility.

SALES AND SERVICES

IMA UNDERSTANDS
THE NEED FOR
EXCELLENT SERVICE
AROUND THE WORLD



The use of original spare parts since they are essential to guaranteeing perfect machine working order over time, full production efficiency and life cycle duration.

Spare parts can be ordered from IMA directly or alternatively via the MyIMA e-commerce system and shipped to you within 24-36 hours.

- PRESENT IN OVER 70 COUNTRIES
- 10 BRANCHES PROVIDING SALES AND SERVICE
- MORE THAN 50 REPRESENTING AGENCIES
- 90 TECHNICIANS FROM ITALY SUPPLYING WORLDWIDE SERVICE
- 50 TECHNICIANS FROM LOCAL SUBSIDIARIES AND AGENCIES
- 11 AFTER SALES SUPERVISORS

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 rest of the world.

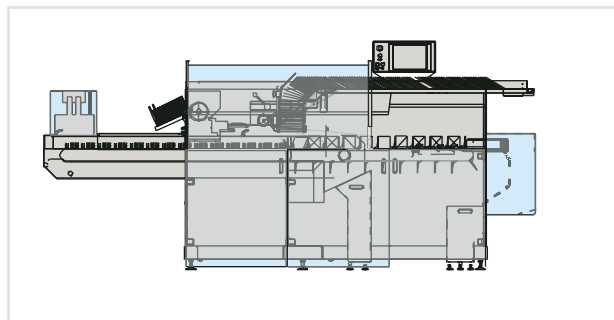


A83E/EH

EASY CONNECTION WITH EACH BLISTER MACHINE



A83E/EH TECHNICAL DATA



	MACHINE DIMENSIONS	MACHINE WEIGHT
Length	3670 mm	1900 Kg
Width	1172 mm	
Height	1765 mm	

The dimensions are indicative and can vary depending on the options chosen and machine lay-out.

CARTON DIMENSIONS	
Width	35-90 mm
Length	72-150 mm
Depth	14-90 mm

Width + Depth max 180 mm

OPTIONAL UNITS

- Computerised spare parts management
- Printer connected to the computer
- Computerised collection of statistical data
- System to transfer production-data to a host computer
- Modem connection
- Computerised integration for quality control systems
- Leaflet insertion (all commercial systems available)
- Booklet insertion
- Blister production and recovery magazine
- Possibility of separation between blister and cartoner
- Stacked blister outfeed
- Carton coding (embossing, ink-jet, laser etc.)
- Carton/leaflet/brochure barcode reader (all commercial systems available)
- Hot-melt glue system for various kinds of carton closure
- Various tamper-evident solutions – such as 4th flap
- 21CFR Part 11 compliance
- Unit for automatic ejection of the bucket extensions fitted on the blister transfer chain
- Training for machine operators and multimedia CD for training at customer's site
- Track & trace solutions



Compressed Air Consumption

12 Nm³/h



Air Pressure Max

6 bar



Installed Power

3,9 kW



Power Supply

230/400 V 50 Hz neutral + earth
(other voltages and frequencies available on request)

PRODUCTION OUTPUT	
A83E	140 Cycles/minute Mechanically Designed up to 150 c/m
A83EH	160 Cycles/minute Mechanically Designed up to 180 c/m

www.ima-pharma.com

IMA S.p.A.

IMA SAFE division

Via I Maggio 14/16 - 40064 Ozzano dell'Emilia (Bologna) - Italy

Tel. +39 051 6514111 - Fax +39 051 6514743

mktg.packaging@ima.it - www.ima.it



Certificate
N. IT00/0415