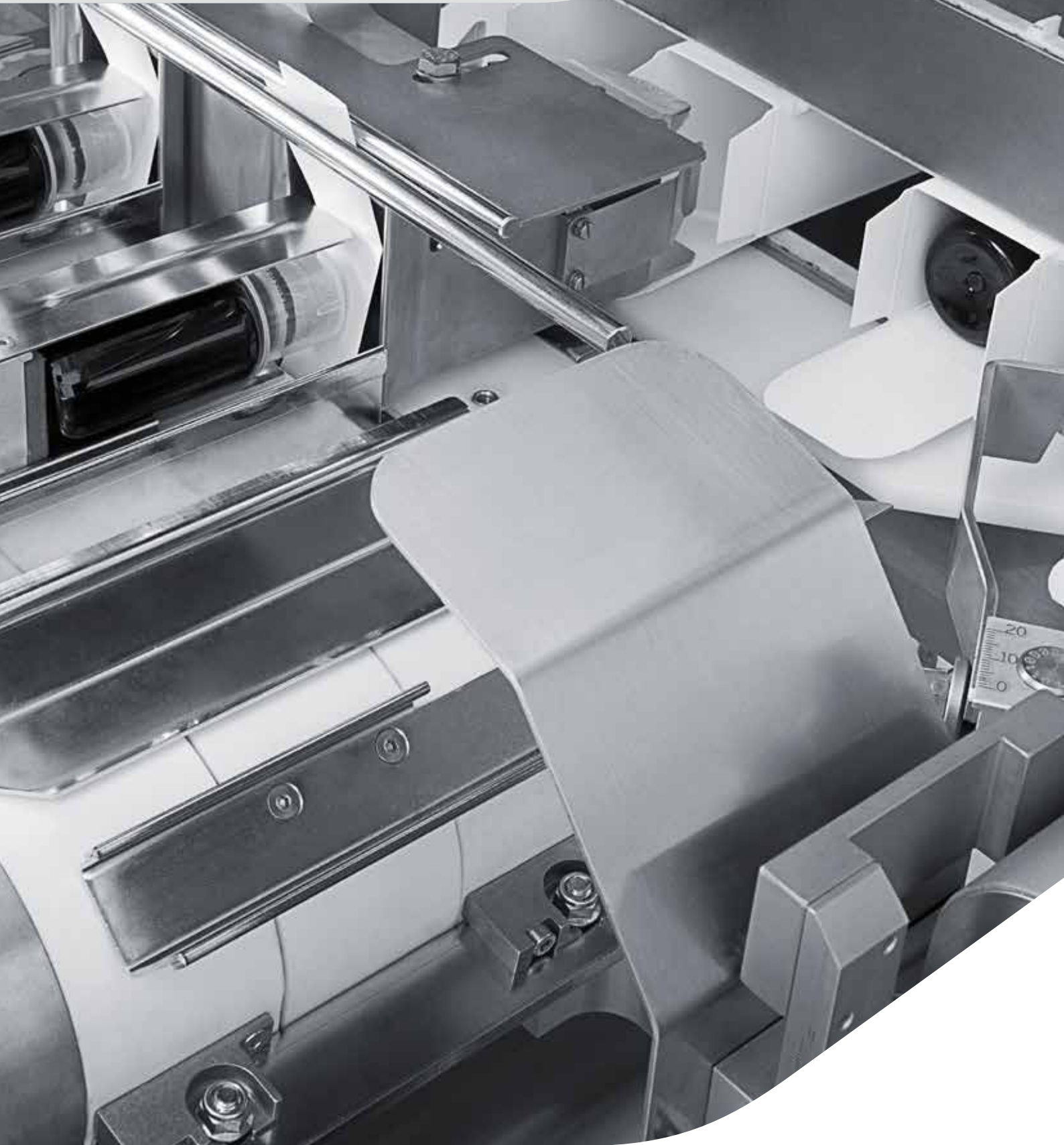


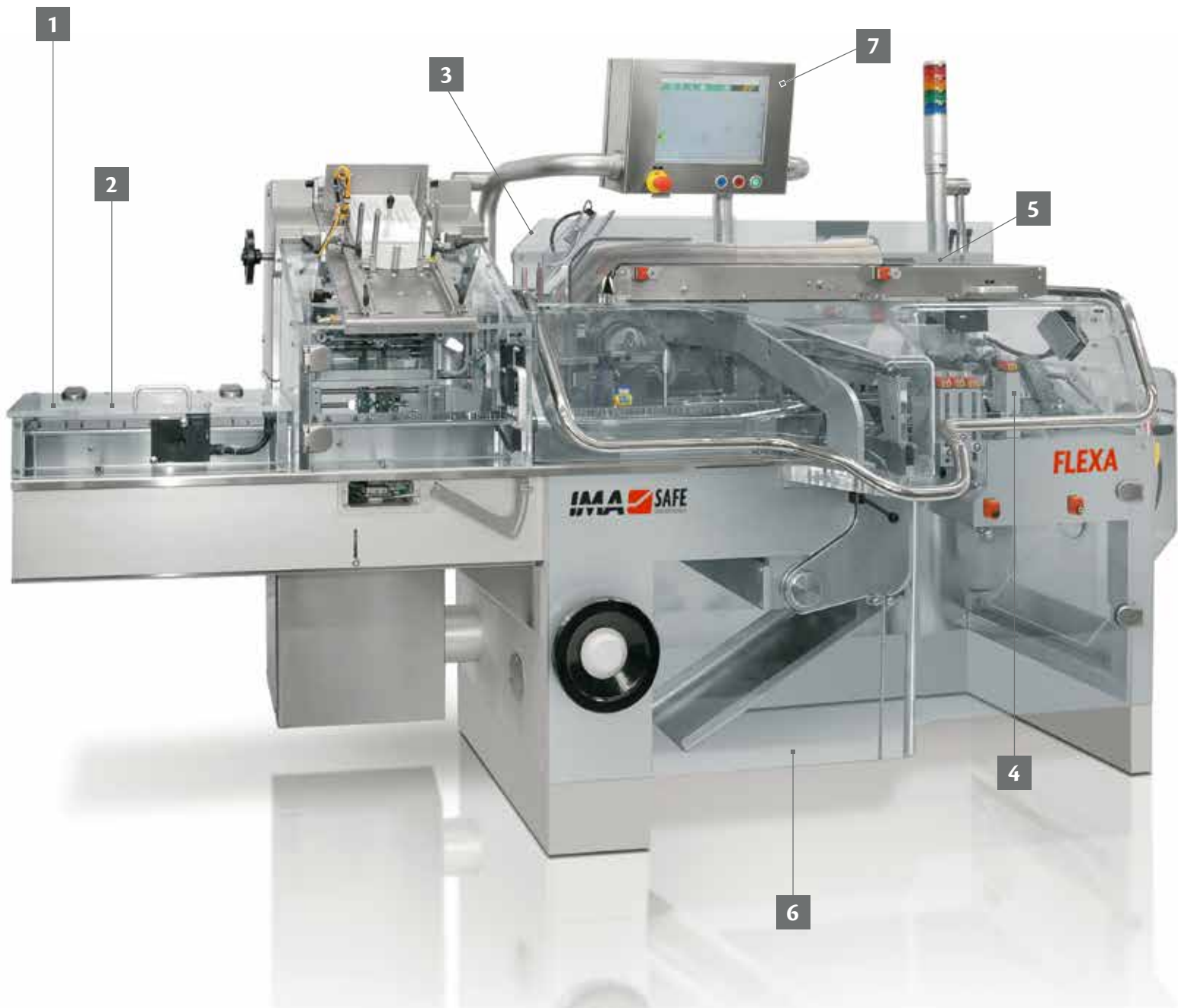
# FLEXA SERIES

HORIZONTAL CARTONER



# FLEXA SERIES HORIZONTAL INTERMITTENT AND CONTIN

THE FLEXA SERIES INCLUDES INTERMITTENT AND CONTINUOUS MOTION CARTONERS AND HAS THE HIGHEST NUMBER OF OPTIONS IN ANY PRODUCT RANGE IN ORDER TO SATISFY CUSTOMER DEMANDS.



# UOUS MOTION CARTONER



## 1 PRODUCT FEEDING AREA

Cartoning is all about the type of product being packaged. The feeder units are the heart of any packaging line and IMA has developed flexible solutions designed especially for customers who need to handle completely different product sizes and weights on the same lines.

## 2 PRODUCT TRANSPORT CONVEYOR SYSTEM

The product transport system is the most flexible and versatile and has been designed to accommodate all types of products, maintaining excellent stability and orientation right up until the product enters the carton. The length of the system can be varied to accommodate one or more automatic feeders, manual loading stations or separators.

## 3 LEAFLET TRANSPORT SYSTEM

The leaflet transport system from the feeder to the introduction area into the carton is very innovative and very reliable.

As per recent regulations, more written content is required on the leaflets thereby making them thicker than before. The leaflet transport system is particularly suitable to handle any kind of thickness. The correct positioning of the leaflet prior to insertion into the carton is always ensured regardless of the width or length of the folded leaflet.

The leaflets are visible at all times, while the innovative conveyor system ensures that the paper dust they generate is continuously expelled.

## 4 CODE EMBOSSING

The coding stations are located in an area easily accessible to operators. Coding can be done from both sides of the carton, by embossing, ink-jet or laser, and the code is always perfectly positioned, even at different speeds.

FLEXA IS ABSOLUTELY THE MOST COMPACT MACHINE IN THE RANGE OF CARTONERS.

## 5 CARTON MAGAZINE

The carton magazine is the largest in its category. It has been designed to prevent dust falling on the mechanical parts and can also be easily accessed by operators as it is lifted towards the machine structure itself.

It is available in fixed or movable version.

## 6 ERGONOMICS AND MACHINE DESIGN

Best ergonomics for access, changeover, cleaning and trouble shooting achieved due to a cantilever stainless steel structure and guards design, which reduces the physical strain of components loading. The stainless steel structure is suitable for cosmetic and pharmaceutical industries (anti corrosion protection). Visible product flow which assures total line clearance.

## 7 OPERATOR-FRIENDLY

The machine has a balcony construction with clean design. The strengths of cantilever design are:

- Improved ergonomics for carton and leaflet loading to avoid physical strain on operators
- Separation of the working and maintenance area
- Guards design allows complete accessibility and visibility of the production process
- Segregated rear access to maintenance area
- Low wear and almost maintenance free



# FLEXA SERIES HORIZONTAL INTERMITTENT AND CONTIN

THE FLEXA SERIES OFFERS THE WIDEST RANGE IN TERMS OF CARTON SIZE, WIDTH, LENGTH AND HEIGHT - NOT TO MENTION PACK VARIETY.



## PRODUCTS THAT CAN BE HANDLED ON FLEXA:

- BLISTERS
- WALLET STRIPS
- STRIPS
- TRAY PACKS OR THERMOFORMED TRAYS
- ALUMINIUM AND PLASTIC TUBES, SEMI RIGID TUBES, SQUEEZABLE TUBES ETC...
- AMPOULES, VIALS AND SYRINGES
- JET-PENS
- FLOW-PACKS
- STICK PACKS
- SACHET PACKS
- INHALERS
- SUPPOSITORIES
- BOTTLES (BOTH PLASTIC AND GLASS)
- COSMETICS (LIPSTICK, MASCARA, NAIL VARNISH ETC...)
- JARS
- ACCESSORIES ETC... (I.E.: SPOON, CANULA, SPRAY, GLOVES, SERVIETTES...)



# UOUS MOTION CARTONER



## CARTON ERECTION AND TRANSPORT

An extremely durable positive carton erection system, designed for mechanical speeds of up to 190 cartons per minute. It will open any type of pack smoothly and efficiently, and place it into the conveyor system.

A double pick up and transport system picks up the carton from the carton magazine and erects it. The carton transport system whilst being very robust is also small in size; thereby making it ideal for very quick changeovers. Unlike our competitors carton transport systems, the Flexa system does not cause any friction, dragging or carton scuffing. It is also capable of handling even very poor quality cartons.

## PRODUCT INSERTION INTO THE CARTON

The efficiency of a cartoning machine depends on how well the feed capacity and transport introduction system can transfer the products into the pack without causing any damage.

The consistency and rigidity of products can vary enormously: blister packs, bottles, vials and flowpacks, among others, must always be precisely oriented and aligned before they enter the

pack. Products are inserted into the cartons by one or two pushers that gently transfer the product and accessories (spoon, dispenser, canula, booklet or leaflet) into the pack. The unique feature of the Flexa servodriven system is its capability to adapt to the specific and individual product requirement with dedicated introduction cycles.

## CLOSING UNIT

Specific modules are available to close any type of carton; in fact, the quick changeover of the plates allows the possibility to handle airplane or reverse tuck-in flaps, closing flaps

by glue or by tamper evident. The number of size parts are minimal, the operator is guaranteed maximum visibility and adjustments can be easily carried out without the use of tools.

## MODULARITY

The FLEXA Series has been created to combine an innumerable batch of modules both in the feeding and the product exit area in order to complete the whole production cycle. This modularity allows a huge flexibility in the organizing of lines.

## OPERATOR INTERFACE

A Computer touch screen, with colour monitor and graphical representation, enables easy and intuitive management of the machine's production and status. Production statistics, trouble shooting, including changeover instructions, maintenance and manuals can also be obtained through the HMI screen. Production data can be shown according to Din 8743. IMA SAFE can also supply the high-resolution Antares vision system (CAMERA, OCV, OCR) which is completely integrated into the single HMI. The Antares System uses high performance easy-to-learn, easy-to-use software, which also allows for new products to be inserted in its system without the need for outside assistance.



# SALES AND SERVICES

IMA UNDERSTANDS  
THE NEED FOR  
EXCELLENT SERVICE  
AROUND THE WORLD



## SPARE PARTS

The use of original spare parts is essential to guaranteeing perfect machine working order and providing full production efficiency.

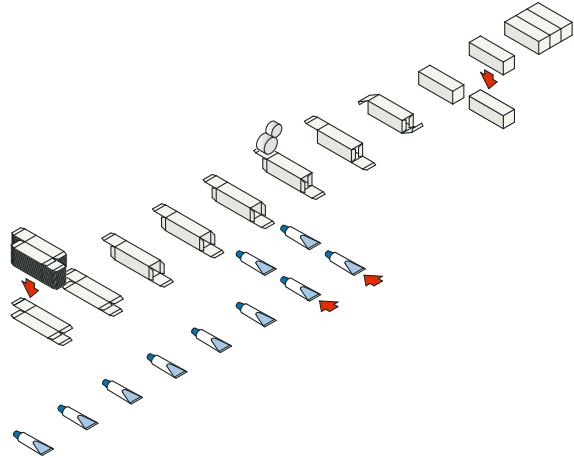
Spare parts can be ordered from IMA directly or via the MyIMA e-commerce system and shipped to you within 24-36 hours.

- 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 other manufacturers.







## A WIDE RANGE OF CARTONERS

INTERMITTENT MOTION CARTONER	WIDTH (A) mm	HEIGHT (B) mm	LENGTH (H) mm	PRODUCTION SPEED crt/min
FLEXA AV	15 - 90	12 - 90	55 - 170	150
FLEXA AS	15 - 90	12 - 65	55 - 190	150
FLEXA AL	15 - 90	12 - 90	55 - 220	150
FLEXA ASB	15 - 140	12 - 65	55 - 190	120
FLEXA ALB	15 - 140	12 - 90	55 - 220	120
CONTINUOUS MOTION CARTONER				
FLEXA CSD	15 - 90	12 - 65	55 - 190	180
FLEXA CLD	12 - 90	12 - 90	55 - 220	180
FLEXA CSDB	15 - 140	12 - 65	55 - 190	160
FLEXA CLDB	15 - 140	12 - 90	55 - 220	160

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

## OPTIONAL UNITS (THE MOST COMMON)

- Computerised integration for quality control systems
- Leaflet insertion (all commercial systems available)
- Booklet insertion
- Blister production and recovery magazine
- 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
- Track & Trace solutions
- Labelling application
- 5th panel carton
- Mobile bucket chain
- CF600 automatic carton feeder
- Possible separation between product feeder and cartoner
- System to feed multiple products simultaneously in the same carton
- Computerised spare parts management
- Printer connected to the HMI
- 21CFR Part 11 compliance
- Training for machine operators and multimedia CD for training at customer's site
- Computerised line machine statistical data collection or quality control system...



### Compressed Air Consumption

134 NI/min



### Maximum Air Pressure

6 atm



### Installed Power

5 kW



### Power Supply

400 V

[www.ima-pharma.com](http://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](mailto:mktg.packaging@ima.it) - [www.ima.it](http://www.ima.it)

