



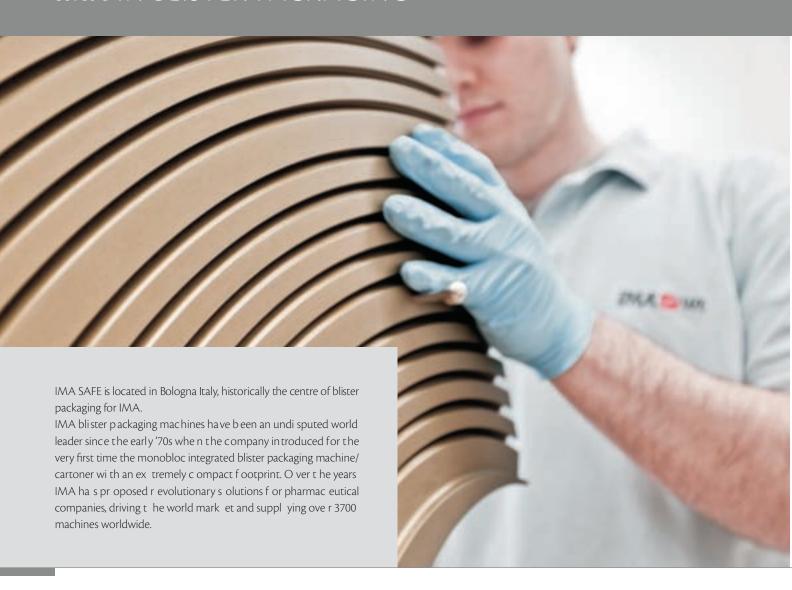


Table of contents

IMA IN BLISTER PACKAGING	2
THE FUTURE OF PACKAGING RESPONSIBILITY AND SUSTAINABILITY	6
PACKAGING MATERIALS	8
FEEDING SPECIALISTS	10
IMA ROLLER SEALING TECNOLOGY	12
MONOBLOC BLISTER AND CARTONING MACHINES	14
STANDALONE BLISTER PACKAGING MACHINES	15
COMPLETE RANGE OF MACHINES	16
TR SERIES COMPACT, SIMPLE, EXTREMELY VERSATILE	18
GIANT SERIES	20
UNITRACE 23	
C90-A91 24	
C80 SERIES	26
C96-A96 30	
C260 31	
IMA-PG INDIA	32
STAND ALONE CARTONERS	34
END-OF-LINE SOLUTIONS	36
OTHER IMA SOLUTIONS FOR BLISTER PACKAGING	38
TRACK & TRACE + SECURITY	40
SIZE PARTS TESTED PERFORMANCE GUARANTEED	41
SALES AND SERVICES	42
IMA SAFE IN THE WORLD	44



IMA IN BLISTER PACKAGING



IMA us es A vant-Garde mec hanical and e lectronic t echnologies to r espond t o t he packaging i ssues of t he mos t complex and varied products, guaranteeing maximum efficiency and minimal maintenance.

The character istics that most distinguish the IMA Safe design and production teamare:

- Passion
- Experience
- Creativity

Over 40 years and several generations later, roughly 350 people, including engineers, designers, developers and technicians, continue to work hard to keep the true IMA heritage unchanged: a technical approach with superior craftsmanship and a love for the minor and major challenges that come upevery day. This is how intuition and ideas can combine to attain great heights: where the best technology and creativity work hand in hand.

THIS IS WHY IMA PROVIDES HIGH-END SOLUTIONS AND FORGES FIRM, LASTING RELATIONSHIPS WITH CLIENTS.





IMA produces a comprehensive range of machines to meet phar maceutical production requirements, such as:

- Compliance with local standards
- High t hroughpu t
- Rapid ret urn on invest ment
- Fle xibili t y
- Ext reme variet y of batches reque sted
- Trained and qualified production and maintenance staff
- Costs contained

Nearly 5% of the overall annual turnover is spent in R esearch and D evelopment. This significant investment enables IMA SAFE to constantly develop new technologies related to machines, working groups, material handling, etc.

IMA IN BLISTER PACKAGING



The main concepts characterising and inspiring the design and production of IMA solutions for blister packaging are:

Main f eatures – IMA phil osophy in blister packaging:



Very high O EE - Over all Equip ment Effe ctiveness



Ease of u se (size changeove r, repeatability, cle anline ss, batch change, main tenance)



 Safety: maximum safety for the product and the operator



 Minimal consumption: elimination of packaging ma terial and product wastage, greater energy efficiency







ONE VAST RANGE FOR COMPREHENSIVE SOLUTIONS, ONE OBJECTIVE: TO SUPPLY QUALITY.

IMA SAFE's r eputation is b ased on ha ving the wides trange of solutions for blister and tray packing on the market and for the highest level of service in terms of sales, technical support and assistance.

The IMA group is the leading supplier of entire packaging lines, with a vast range of primary and secondary packaging machines designed and manufactured in hous e. It also has a network of carefully selected partners.

THE FUTURE OF PACKAGING RESPONSIBILITY AND SUST

If we may disagree about which sources of energy merit investment, we are in total agreement when it comes to the need to eliminate waste by reducing the consumption of energy and materials to a minimum.

IMA WAS THE FIRST TO DESIGN AND PRODUCE MONOBLOC MACHINES THAT DRASTICALLY REDUCE PACKAGING MATERIAL WASTAGE, WITH PARTICULAR REFERENCE TO THE QUANTITY REQUIRED TO START UP PRODUCTION OF A PACKAGING PROCESS.

The first to believe in and develop technologies suitable for mono-material drug packaging: polypropylene blisters and cartons.

Erecting, feeding and s ealing systems enable blisters to be produced with very c losely sp aced p ockets in c omplete s afety. IM A blister p ackaging machines produce the least amount of waste of all the machines on the market, enabling maximum reduction of material consumption.



AINABILITY



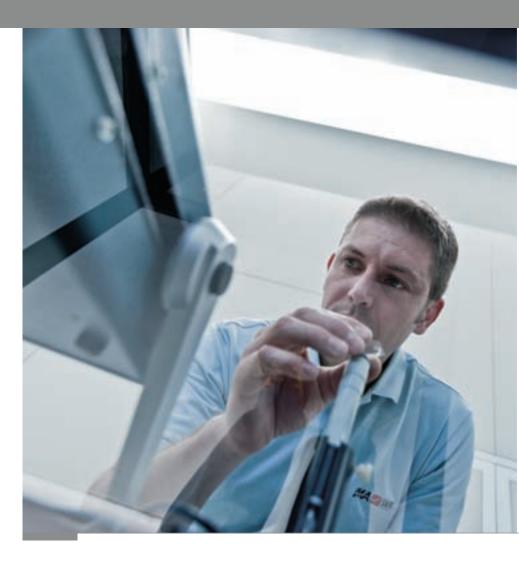
IMA PRODUCES OPENING
AND ERECTING SYSTEMS
FOR CARTONS MADE
ENTIRELY OF RECYCLED
MATERIAL. IN ADDITION
TO CARTONERS, IMA
ALSO PRODUCES TRAY
LOADERS THAT WORK WITH
RECYCLED CARDBOARD.

In the design of new systems, agreat deal of attention is paid to achieving maximum energy efficiency.

We have a lways been attentive to what happens around us, ready to grasp all the opportunities that technology offers to assist the pharmac eutical industry as its trives to produce responsibly and sustainably.

PACKAGING MATERIALS

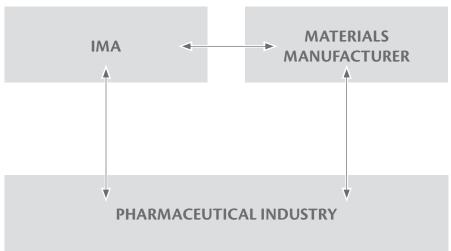
CHOOSING TECHNOLOGIES
SUITABLE FOR DEALING
WITH SOLID AND
NON-SOLID PACKAGING
ISSUES IS DICTATED
BY THE DISTRIBUTION
REQUIREMENTS OF
PHARMACEUTICAL
PRODUCTS IN DIFFERENT
MARKETS AND CLIMATE
ZONES AND BY THEIR
SPECIFIC USE.

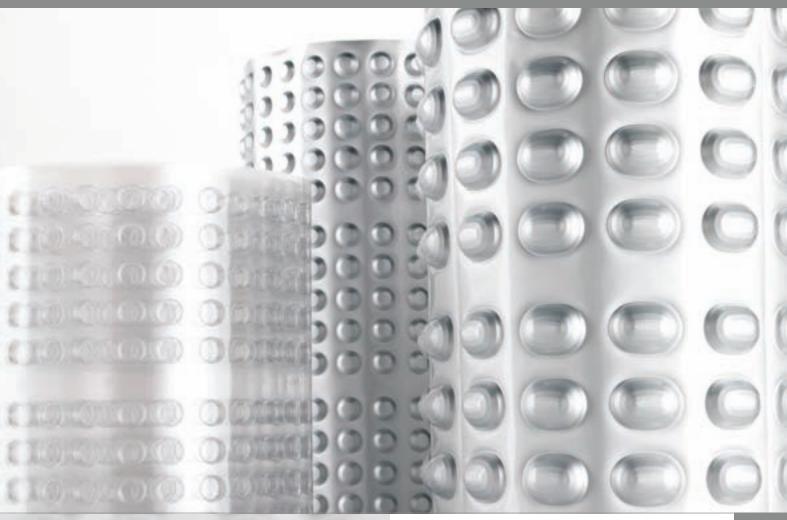


This mean s c onstant r esearch in to new packaging solutions.

In recent years, packaging material suppliers have developed new, multi-layered laminated materials in a bid t o provide increased protection again st penetrating external agents such as oxygen and humidity.

IMA work s along side t he most innova tive material supplie rs, anal ysing t he characteristics of new proposals before they are presented to the mark et and work ing on the basis of calculated and tested us e conditions (heating, forming and sealing).







DETAILED ANALYSES ARE PERFORMED BOTH DURING SIZE PART DESIGN AND TESTING TO IDENTIFY WHICH TREATMENTS WORK BEST AND WHICH MATERIALS ARE BEST SUITED TO ENSURE STABILITY OVER TIME. THIS GUARANTEES OUR CLIENTS GET MACHINES AND SIZE PARTS THAT ARE ALREADY TESTED FOR THE LATEST PACKAGING MATERIALS.

IMA Bli ster mac hines c an b e supplie d t o run b oth Alu- Alu and thermoformable blisters.

FEEDING SPECIALISTS

IMA FEEDING SYSTEMS
ARE THE RESULT OF 40
YEARS' EXPERIENCE IN
THE BLISTER PACKAGING
INDUSTRY WITH MORE
THAN 9000 FEEDING UNITS
SUPPLIED WORLDWIDE FOR
HANDLING EVERY KIND
OF PRODUCT SHAPE, ALL
PACKAGING MATERIALS.

IMA FEEDING SYSTEMS REACH THE HIGHEST LEVELS OF POCKET FILLING EFFICIENCY, 99.9%, WORKING AT THE HIGHEST SPEEDS.



A specific IMA SAFE department is dedicated to product feeding solutions and includes several test rooms conforming to GMP guidelines for product feeding under controlled environmental conditions. Solutions are based on each unique product.

Thanks to a careful design of the feeding units studied by IMA specialists, the product - of every kind of shape - is handled with extreme delicacy throughout the whole feeding process, cleaning times are reduced to a minimum and the changeover is very fast with few parts to be changed.







Common f eatures to all IM A feeding systems:

- No operator a ssistance
- Easy in tegr ation of multiple productf eeding system
- Easy to cle an and wash

Many IM A feeding solutions are patented and provide feeding efficiencies which cannot be reached by any other machine on the market.



IMA ROLLER SEALING TECNOLOGY

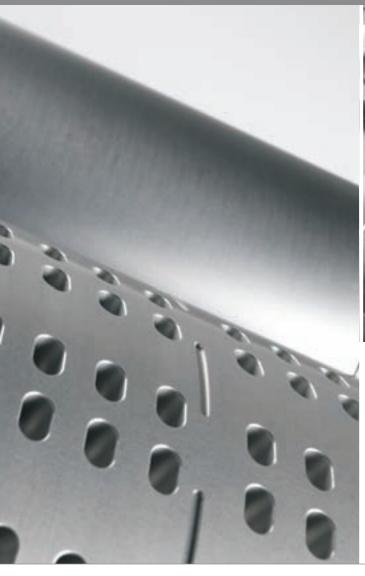
IT HAS BEEN PROVED THAT FOR COLD-FORMED BLISTERS THE COMBINATION OF TWO ROLLERS CREATES THE PERFECT SEALING BARRIER.

The advantages of the IMA rollers ealing:

- Continuous sealing grid
- Minimal qu antity of he at transferre d to the production as ingle contact line
- Reduced sealing to ime
- No adjust ment problems due to paralle lism of flat surfaces
- Lowers ensitivity to the thickness change s of the thermoforming and lidding films
- Very high line ar speed
- Optimum sealing p roperties with the highest results in blue water and he liu m test
- Unifor mity of laminated layers
- Higher camera efficiency due to continuous film motion granting greater product stability in the pocket
- No adjus tment, no re pl acement f or t he size changeove r
- Very fast cle aning op er at ion



IMA r oller s ealing t echnology g uarantees t hat hea t, t ime and pr essure are strictly controlled during t he s ealing process of all f orming ma terials. The unique pyramid grid surface of the roller produces an even seal around the ent ire e dge o f ea ch p ocket and over the entire area of the b lister. In addition, continuous motion sealing improves the efficiency of the camera control system given that the product inside the pocket is very stable, unlike alternate motion systems. The sealing unit is very easy to clean.





The IM A r oller s ealing sys tem with pyramid g rid has been designed to obtain constant and continuous sealing on the whole pocket edge with no unsealed area.



The imprint of the sealing grid guarantees that the pocket is sealed not only on the Criss-Cross line pattern but also in the Centre of the square grid.

	PROFILE OF CONVENTIONAL ROLLERS AND PLATES	PROFILE OF IMA ROLLER
SEALING SURFACE		
SECTION	Vilinitai), Vilinitai	2017/100
BLISTER DETAIL		

MONOBLOC BLISTER AND CARTONING MACHINES

VERY HIGH EFFICIENCY

VERY COMPACT FOOTPRINT LAYOUT

POSITIVE BLISTER TRANSPORT SYSTEM

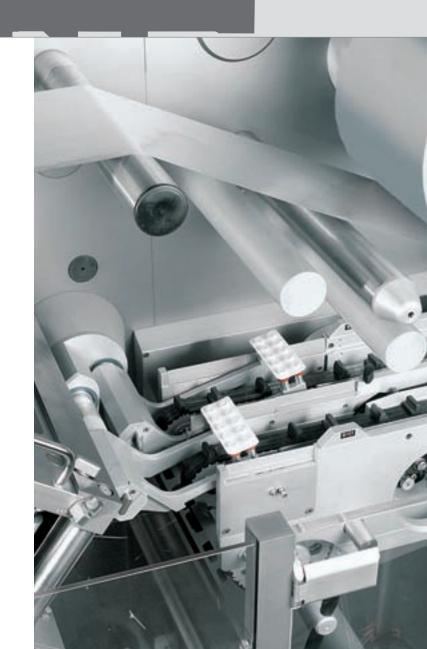
Integrated or monobloc blister packaging machines and cartoning machines e nable c lients t o ac hieve ve ry high O EE (O verall Equipment Effectiveness)*.

The in tegrated line sig nificantly reduces the number of product discards, reduces the consumption and cost of packaging materials and therefore reduces the amount of time and energy needed to produce a specific batch size.

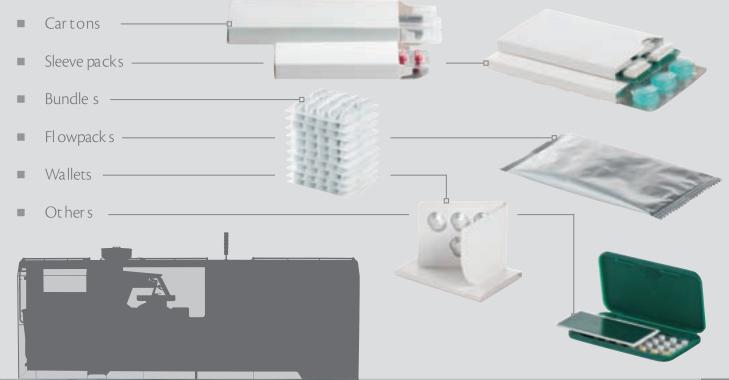
*OEE = Availability x Performance x Quality

Other relevant advantages:

- · Very compact footprint layout;
- Positive transfer of the blister from the cutting station throughout the complete packaging process to guarantee:
 - All blisters are traceable during the entire production flow
 - Very high efficiency
 - No set-up time is required for each changeover or start-up of the machine (no blisters to be manually inserted in the blister magazine)
- Operator friendly: few interventions required by the operator
- Complete emptying and cleaning for the size changeover, extremely quick and simple.



STANDALONE BLISTER PACKAGING MACHINES





The relevant advantages of a standalone blister machine are:

- Adaptability to various non-linear production layouts
- Versatility: can be connected to one or more machines for secondary packaging, for packing into wallets, flowpacks, cartons, sleeves, bundles e.t.c.

IMA produces a comprehensive range of standalone blister packaging machines that covers all product, speed, output and economic investment requirements.

Designed for just-in-time production with frequent size changeovers, they offer great flexibility, ease of use and rapid size changeovers. They are offered in customised configurations to enable even very diverse production runs.

COMPLETE RANGE OF MACHINES

		MODEL	BLISTER TRAY FLOWPACK	SEALING	SPEED BLISTER/MIN	
		CLINIPACK	В/Т	PLA	90	
Ltd		PG TR100 LT	В	PLA	150	
IMA - PG Ltd		EXCEL SERIES	В	PLA	200	
\leq	STAND ALONE	ROTOVAC SERIES	В	ROL	240	
			SUPER	В	PLA	225
		C360	Т	PLA	-	
		TR135 / TR135A	В	ROL	230	
			TR200 / TR200A	В	ROL	360
			GIANT	В	ROL	400
			C80R	В	ROL	400-600
≪		C80HS JP	B/F	ROL	800	
IMA SPA		GIANT1	В	ROL	350	
		C80-A81	В	ROL	400	
		GIANT-A86	В	ROL	400	
	MONOBLOC POSITIVE BLISTER TRANSFER	C90-A91	В	ROL	400	
		C80HS-A86	В	ROL	700	
		C80HS-A96	В	ROL	700	
		C96-A96	В	ROL	1300	

		CARTO	ONERS			
PG - IC 150C	X1	PG - IC 175C	А83Е/ЕН	A80	DYNAMICA	
		UP				SECONDARY PACKS AND
120	140	150	160	175	250/400	END OF LINE SOLUTIONS
		For clini	cal trials			
-		-	•			
-		-	-			WALLET
•		-	•			FLOWPACK
-		-	-			BUNDLE
	-				-	
			-			END-OF-LINE SOLUTIONS:
						■ Stretch-Banding Machine s
				•		Over wr apping Machine s
	INTERLO	OM DCKING / BA	- Ori	ACHINE	-	■ Tray Packers
	175 cartons/min.					■ Case Packing Machine s
	250 cartons/min.				■ Integr ated Case-Packing - Palletizing	
	350 cartons/min.					
		270 carto	ons/min.	■ Palletizing		
350 cartons/min.						
A96 450 cartons/min. A96HS 500 cartons/min.						
		A96 450 ca A96HS 500 c				

TR SERIES COMPACT, SIMPLE, EXTREMELY VERSATILE





TR Series main features:

- Minimal overall dimensions (footprint) can be installed in very small packaging areas
- Maximum productivity: capable to produce blisters on multi-row
- Extremely accessible, designed to ensure ease of use and cleaning. Complete size can be run by replacing 6 size parts
- Low energy consumption



TR135/TR135A

Blister packaging machine

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-88	60-135	3-12	230 blisters/min.



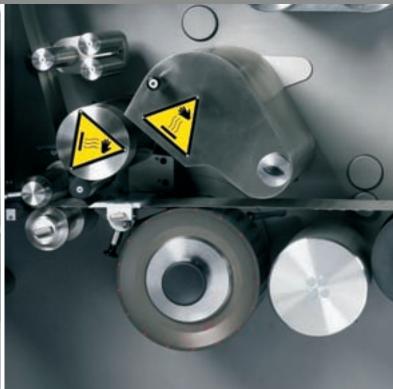
TR200/TR200A

Blister packaging machine

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-90	60-200	3-12	360 blisters/min.

GIANT SERIES





The GIANT SERIES includes the following configurations:

- GIANT1
- GIANT-A80
- GIANT-A86

Advanced and unique technology applied to the roller sealing, coding & perforating stations

- Completely assisted by servo motors
- Balcony style and small footprint. Full visibility of production flow
- Highly reduced change-over and cleaning times
- Complete integration with ancillary equipment (blister filling control, containment solution, coding, printing, leaflet folders, booklet inserting systems, open flap detection, checkweigher, labelling, etc.)



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

GIANT1 AND GIANT-A86: INNOVATIVE AND UNIQUE CUTTING UNIT.

To avoid the Product Recall problem the innovative and patented blister cutting system assures that rejected, faulty blisters cannot be re-inserted into the packaging process due to the different cutting configuration.



GIANT1

Blister packaging machine with integrated cartoner

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-90	60-140	3-12	350 blisters/min.
CARTON	35-95	65-145	12-100	175 cartons/min.

The Giant 1 blister packaging machine is the solution to obtain the highest possible OEE levels .

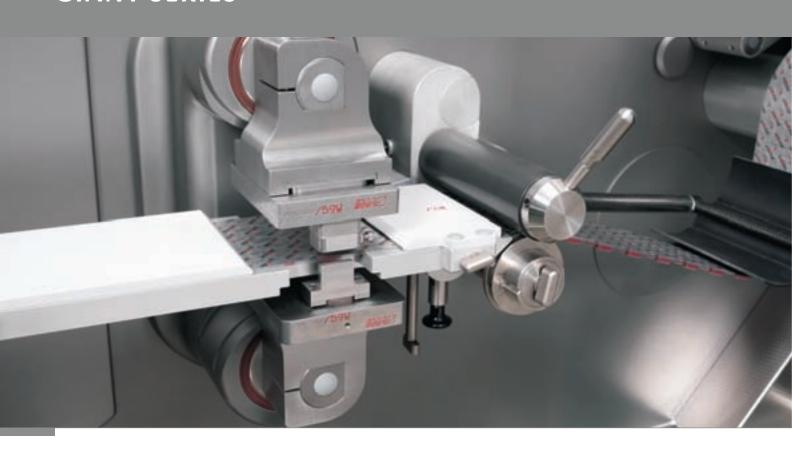
Only a 7.3 me ter footprint with thermoforming jumbo reel holder and chiller included.

GIANT-A86

Blister packaging machine with integrated cartoner

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-90	60-140	3-12	400 blisters/min.
CARTON	30-90	65-150	15-90	350 cartons/min.

GIANT SERIES



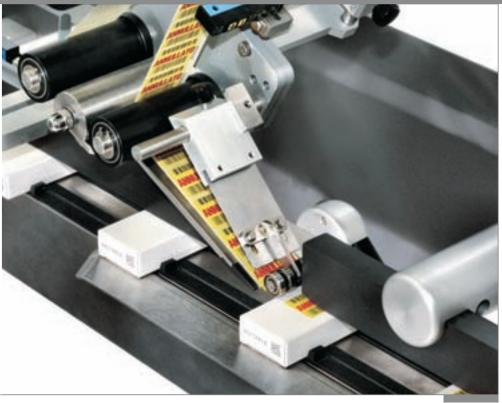


GIANT-A80

Blister packaging machine with integrated cartoner

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-90	60-140	3-12	350 blisters/min.
CARTON	35-90	65-145	15-90	175 cartons/min.

UNITRACE



Labeller





Checkweigher



Printer

UNITRACE INTEGRATED TRACK & TRACE SOLUTION

GIANT1 and GIANT-A80 can be further integrated with a complete Track & Trace solution which complies with all regulatory needs.

UNITRACE, is the first integrated solution available on the market, able to guarantee complete inspection of each single carton, from the beginning of the cartoning process until the package is ready for shipment.

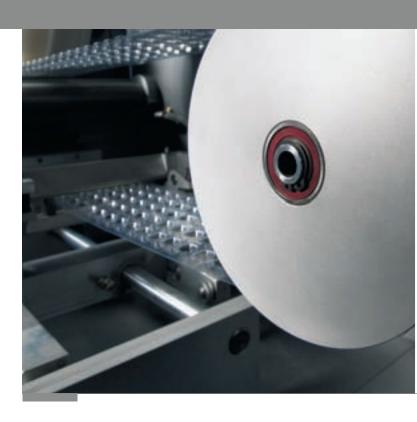
A positive transport system with tooth belts, allows for each carton to be identified through the entire Track & Trace process. (Check-weigher, T&T code printing, Labelling) and assures the highest efficiency and reduced false rejects.

A single us er in terface c ontrols t he entire production line. Each recipe change mo difies b oth Machine and Track & Trace parameters.

SPACE SA VING: the in tegration of devices enables the system to be every compact, thereby considerably reducing the overall dimensions of the line.

RELIABLE, SOLID, VERSATILE AND EFFICIENT, HIGHEST PACKAGING QUALITY AND PRODUCTIVITY.

With over 300 mac hines manufactured, it represented a real step forward in pharmac eutical packaging in t he '90s, and i ts up dated version is still much in demand thanks to its reliability and robustness.

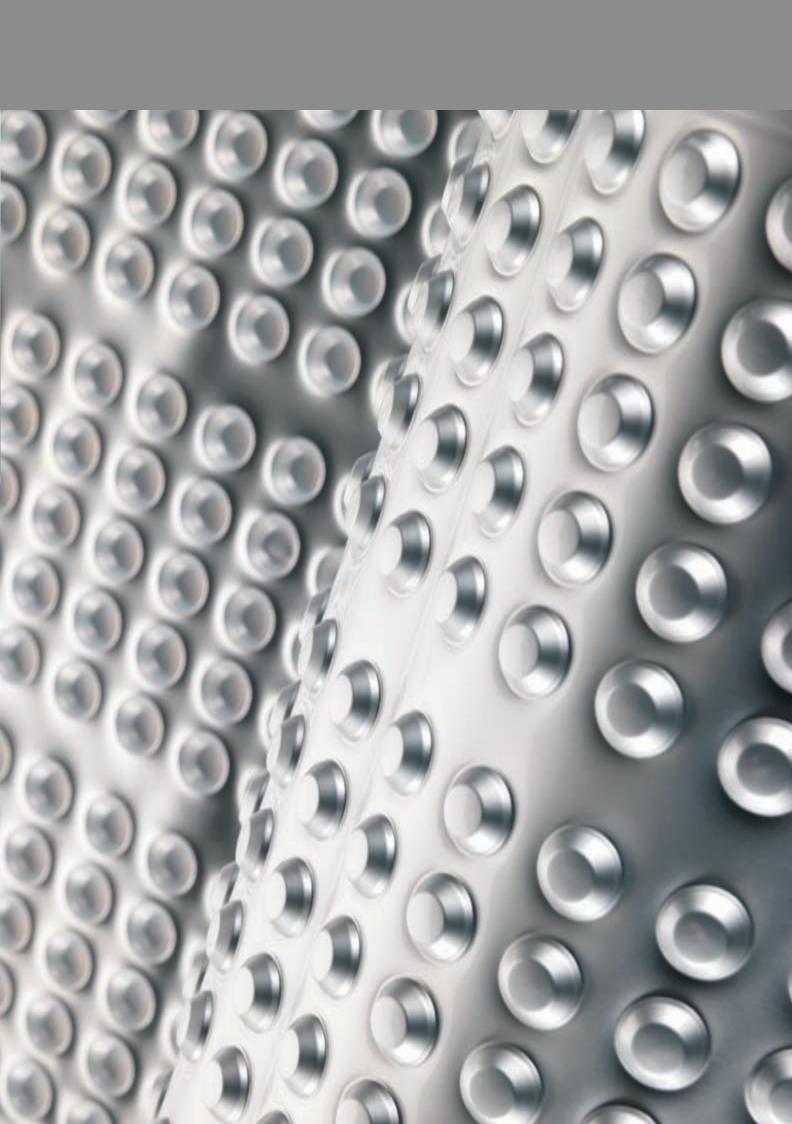




C90-A91

Blister packaging machine with integrated cartoner

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-85	60-127	3-12	400 blisters/min.
CARTON	35-90	65-132 (135)	12-90	270 cartons/min.



C80 SERIES

THE IMA C80 IS A BLISTER PACKAGING MACHINE CHARACTERISED BY SUPERIOR PERFORMANCE AND FLEXIBILITY WITH MINIMAL PRODUCT AND MATERIAL WASTE.

PRODUCTION FLEXIBILITY IS THE KEY ELEMENT IN THE SOLID AND RELIABLE TECHNOLOGY OF THE C80.





C80R

Stand alone blister packaging machine

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-90	60-150	3-12	400-600 blisters/min.







C80-A81

Blister packaging machine with integrated cartoner

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	MAX OUTPUT
BLISTER	30-90	60-150	3-12	400 blisters/min.
CARTON	35-93	70-155	12-90 (100)	250 cartons/min.

C80 SERIES

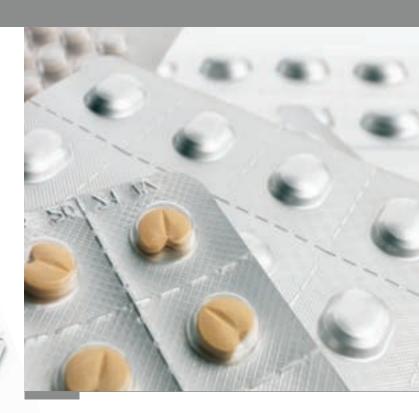
C80HS

C80HS (High Speed) is available in the following ver sions:

- C80HS-A86
- C80HS-A96
- C80HS-A96HS
- C80HS/JP

C80HS-A86 AND C80HS-A96/HS INNOVATIVE AND UNIQUE CUTTING UNIT.

To avoid the Product Recall problem the innovative and patented blister cutting system assures that rejected, faulty blisters cannot be re-inserted into the packaging process due to the different cutting configuration.





C80HS-A86

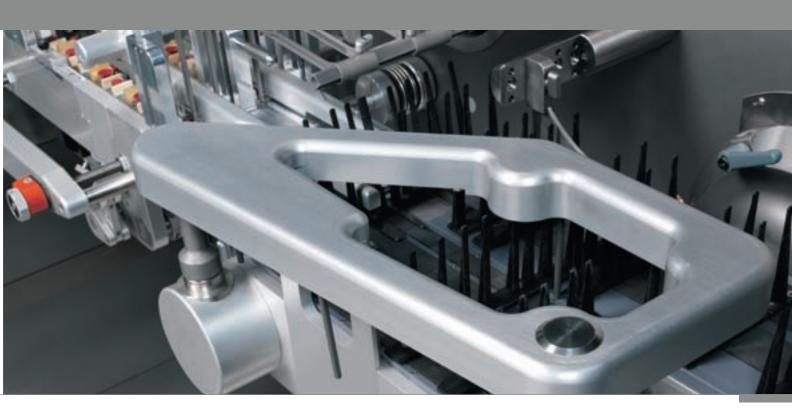
Blister packaging machine with integrated cartoner

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-90	65-145	3-12	700 blisters/min.
CARTON	30-90	70-150	15-90	350 cartons/min.

A design that has taken into consideration every detail in order to achieve high output.

Rejected blisters are easily identifiable due to a difference in shape from good ones; this therefore avoids any possible mix up during the production process.

The move ments of t he mac hine are fluid and harmonious and this, t ogether with the purp ose-made guards, guarantees noi se reduction never experienced before.





C80HS-A96

Blister packaging machine with integrated cartoner

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-90	65-145	3-12	700 blisters/min.
CARTON	35-95	70-150	15-90	A96: 450 cartons/min. A96HS: 500 cartons/min.

C80HS-JP

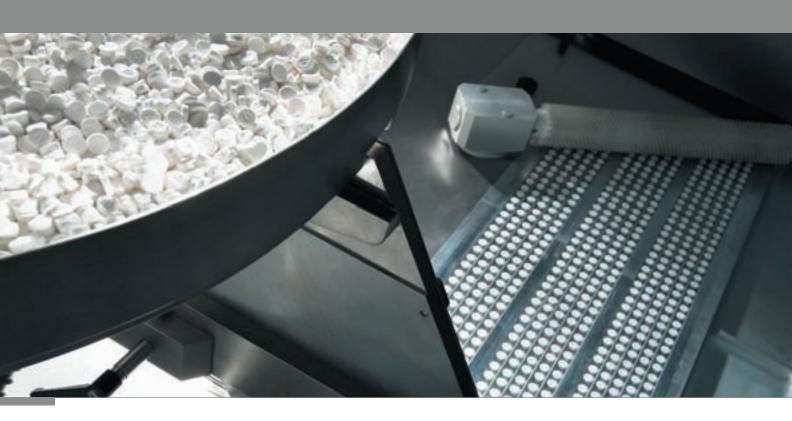
Blister packaging machine

	WIDTH	LENGTH	DEPTH	PRODUCTION
	(MM)	(MM)	(MM)	OUTPUT
BLISTER	30-90	60-145	3-12	800 blisters/min.

The C80H S/JP is a close collaborative and production effort between IMA SAFE and OMORI.

With OMORI's Interlocking & Banding , the C80/JP is the central part of the fastest packaging system in the Japanese market. The overall footprint of the packaging line is greatly reduced.

C96-A96





THE FASTEST IN SPEED AND CHANGEOVER

The IM A SAFE C96- A96 bli ster line ha s b een desig ned f or t he highes t attainable ou tputs and efficiency in the world: 1300 blisters/minute and 450 or 500 cartons/minute. Again, the line concept is based on continuous motion. The in tegrated high-sp eed A96 c artoner us es p ositive bli ster transport to achieve the highest possible machine efficiencies and outputs. The A96 features fast and easy changeover and cleaning which helps reduce downtimes to a minimum. The C96-A96 can also include optional features which further eliminate the need for operators so that non-stop production can be obtained.

Blister packaging machine with integrated cartoner

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	30-90	65-145	3-12	1300 blisters/min.
CARTON	35-95	70-150	15-90	A96: 450 cartons/min. A96HS: 500 cartons/min.



THE C360 IS IMA SAFE'S LATEST TREND SETTING A THERMOFORMER DESIGNED FOR DEEP DRAW PACKAGING.



C360

Deep draw thermoforming machine

PRODUCTION OUTPUT

600-1000 1-2 ml DIN ampoules/minute 600-1000 1 ml DIN syringes/minute

	CARTONERS
X1	up to 110 cartons/minute
FLEXA	up to 140 cartons/minute
DYNAMICA	up to 350 cartons/minute

This mo dular desig ned line has the most compact footprint in its product range while granting the highest flexibility in production applications and it can be integrated with different imasafe cartoning models.

A wide rang e of products canbepacked such as ampoules, vials, syringes and many others thanks to the use of robotic systems which have been applied to the most critical areas: product feeding & connection to the cartoner.

IMA-PG INDIA

In 1995 IMA acquired the company Precision Gears set up in 1961, now known as IMA-PG India Ltd., based in Mumbai (India) with a second production facility in Indore. IMA-PG India Ltd. produces low-speed t hermoforming mac hines f or bli sters and t rays, cartoning machines for exportation and a vast range of models for the domestic market.

THE MACHINES MANUFACTURED BY IMA-PG INDIA ARE ESSENTIAL AND ECONOMICAL, AND ARE SOLD NOT ONLY LOCALLY, BUT AROUND THE WORLD.





CLINIPACK

Blister and Tray packaging machine

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	90	122	ALU 12 PVC 22	90 blisters/min.



TR 100LT

Blister packaging machine

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	138	152	12	150 blisters/min.

The TR100 i sac ompact and economical blister machine manufactured by IM A-PG India . Thanks t o ex tremely fl exible features, t he mac hine is especially suitable for small to me dium production runs, clinical trials and contract packagers, even though its concepts are those of a high-scale production machine.



C102 SERIES

Deep draw thermoforming machine

PRODUCTION OUTPUT

Output for 105 trays of 5 ampoules of 1 mil/2 ml: 525 ampoules/minute (single feeder)



ROTOVAC SERIES

Blister packaging machine

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	100	200	10	240 blisters/min



Blister packaging machine

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	138	177	12	200 blisters/min.



SUPER

Blister packaging machine

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
BLISTER	152	128	12	225 blisters/min

STAND ALONE CARTONERS

Since the mid 1970's IMA SAFE has had the reputation of innovator in c artoning t echnology. IM A SAFE c artoning mac hines are designed to run efficiently, reliably, quietly and with fast changeovers. Maintenance ne eds are minimi sed. Each mac hine is designed to optimize valuable floor space with innovatives olutions, such as carton transport by way of belts, tuck closing solutions and balcony construction are the result of IM A SAFE's focus on increasing production output. Compact and versatile, IMA SAFE c artoning machines ensure high operation standards and are suited to flexible packaging needs.

FEEDING SYSTEMS

Cost e ffective and flexible feeding systems are a vailable which offer a wide range of solutions for pharmaceutical and other types of products. Systems have been developed to facilitate modular feeding concepts which are necessary to meet the market's needs as well as product variants which are increasing over time.



IC 150 - IC 175C

CARTON	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	A+B (MM)	PRODUCTION OUTPUT
IC 175C	32-85	60-120	12-60	140 max.	150 cartons/min
IC150	20-85	50-190	12-60 (68)	140 max.	120 cartons/min

IC150 - In termittent mot ion c artoning mac hine designed for low/medium production packaging lines.





X1

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
CARTON	15-105	55-220	12-90	140 cartons/min

Horizontal intermittent motion cartoner.

IMA CARTONING MACHINES CAN FEED:

BLISTER COMBINATIONS

BLISTER-CARTON

BLISTER PROTECTED IN FLOWPACK + CARTON

BLISTER + INHALER

BLISTER + TABLET CASE

TRAYS

COMBINATION THERAPY, E.G. BLISTER + BOTTLES

OTHER PRODUCTS

VIALS VIALS
BOTTLES BOTTLES
TUBES TUBES

SYRINGES SYRINGES

PPP (Parenteral Paper Pack) PPP (Parenteral Paper Pack)

PRODUCT INFORMATION

INSTRUCTION LEAFLETS, BOOKLETS, DIVIDERS, ETC.



A83E/EH

	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
CARTON	35-90	72-150	14-90	A83E: 140 cartons/min A83EH: 160 cartons/min

Intermittent mot ion c artoning mac hine, t he simples t and mos t reliable cartoner designed to be linked with blister machines.



	WIDTH (MM)	LENGTH (MM)	DEPTH (MM)	PRODUCTION OUTPUT
CARTON	15-140	55-220	12-90	190 cartons/min

Continuous or intermittent motion cartoning machine Flexa Series is available in 9 models.



DYNAMICA SERIES

CONTINUOUS MOTION CARTONER	WIDTH (A) (MM)	HEIGHT (B) (MM)	LENGTH (H) (MM)	A+B MAX.	PRODUCTION OUTPUT
DYNAMICA S	25 – 90	15 – 90	65 – 200	180	350 crt/min
DYNAMICA L	25 – 130	15 – 90	65 – 200	180	250 crt/min
DYNAMICA V	25 – 90	15 – 90	65 – 150	180	400 crt/min

Continuous motion cartoning machine.

END-OF-LINE SOLUTIONS

IMA HAS A LONG TRADITION OF DESIGNING AND MANUFACTURING END-OF-LINE OR "SECONDARY PACKAGING" MACHINES.



IMA BFB e mploys 160 p eople and is in the fortunate position of being the ideal supplier to multinationals, small lab oratories and subcontractors. The reasons behind our success can be found in our extensive knowledge of the market and ability to provide customized solutions that cater for most of our user's needs.

The constant flow of ideas generated by our close-knit team has resulted in a number of innovative concepts such as compact machine sizes, integrated packaging solutions, rapid size changeover and the handling of complex or non-standard products.

A dedicated team of designers work on creating solutions intended to facilitate production and a ssembly, while c utting down on delivery times and installation costs.

We pay particular attention to limiting the costs of manufacturing and main taining the machines (life cycle costs), which results in higher profits for our customers.

STRETCH-BANDING & SHRINK-WRAPPING MACHINES

- MS280BAN up to 80 bundles/min.
- MS250 up to 60 bundles/min.
- MS250 FOR BLISTER up to 350 stacks/min.



OVERWRAPPING MACHINES

- 3705 up to 300 bundles/min.
- 3701-11-21 up to 100 bundles/min.
- 3703 up to 100 bundles /min.
- AF60 up to 60 bundles/min.



TRAY PACKERS

- TP60 up to 60 trays/min.
- FR30 up to 40 display boxes/min.



HORIZONTAL & VERTICAL CASE PACKING MACHINES

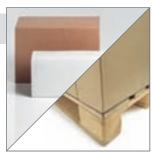
- VERTICAL 3754 (V) up to 30 cases/min.
- CPV20 (V) up to 20 cases/min.
- CPV15 (V) up to 15 cases/min.
- TLS (V)
- CP50 up to 50 cases/min.

- CP38/20-CP38 up to 30 cases/min.
- CP18/28 up to 10 cases/min.
- CP48 up to 8 cases/min.
- CPM



INTEGRATED CASE-PACKING/PALLETIZING

- CPV15+FLEX 2FPS up to 15 cycles/min.
- VERTICAL CARTOPALLET up to 7.5 cycles/min.
- CP18/28+FLEX 2FPS up to 8/10 cycles/min.
- CP18+MINIFLEX up to 5/6 cycles/min.



PALLETIZING & DE-PALLETIZING

- FLEX PALLETIZER up to 15 cycles/min.
- 2FPS up to 10 cycles/min.
- MINIFLEX up to 6 cycles/min.
- DE-PALLETIZER up to 6 cycles/min.



OTHER IMA SOLUTIONS FOR BLISTER PACKAGING

- A sol ution to manufacture small b lister batch sizes on (existing) equipment
- A sol ution t hat per mits users to better utilize existing a ssets without having to modify or add expensive components
- A sol ution f or blister manufacturers who are unable to invest in new high perfor ming blister and c artoning m achines like the Giant and Gian t1
- A sol ution which all ows for the seamless in tegration of production sites and packaging sites





The solution for Late Stage Blister Customization

It's a patented de-cartoning system combined with a positive blister transport system, a Drop On Demand printing solution and cartoner, which enable customers to have highly flexible production systems, while still using their existing blister machines.



CONTAINMENT

IMA SAFE ha s supplie davarie ty of customized s olutions for the containment of highly potent drugs which are packaged in b listers. With more than 50 references, IMA SAFE's CONTAINMENT's olutions are based up on the individual needs of the client and are also based on the containment and isolation technologies commonly used by IMA ACTIVE'S olid Dose'S olutions and by IMA LIFE A septic Processing and Freeze Drying Solutions.

PRODUCT CATEGORIES ACCORDING TO OCCUPATIONAL EXPOSURE LIMITS

OEL CATEGORY	OEL RANGE μg/m³	HAZARD DESCRIPTION
OEL 1	1000-5000	harrmful, and / or low pharmacological activity
OEL 2	100-1000	harrmful, and / or moderate pharmacological activity
OEL 3	10-100	moderately toxic and/or high pharmacological activity
OEL 4	1-10	toxic and very high pharmacological activity
OEL 5	>1	extremely toxic and extremely high pharmacological activity

OEL (Occupational Exposure Limit): safe level of airborne exposure for an 8-hour workday, which does not impair health day after day at work (mg/m³).

IMA's technology reaches all potential levels request.

OBJECTIVES:

- Full compliance with specific safety requirements and system reliability
- Assurance of a controlled working environment
- Repeatability of the operational process and parameters
- Easy calibration of instruments and subsequent qualification of equipment and processes
- Avoid the use of special clothing and breathing systems needed for individual operator safety
- Eliminate the elevated cost and maintenance needed in containment rooms for packaging equipment
- Protect operators from exposure to highly active pharmaceutical ingredients (APIs)

TRACK & TRACE + SECURITY





IMA SAFE AND IMA SAFE LINE WORK ACTIVELY ALONGSIDE THE MAJOR SUPPLIERS OF TRACK & TRACE SYSTEMS FOR THE INTEGRATION OF 2D CODE PRINT UNITS AND DATA COLLECTION AND STORAGE WITH A VIEW TO FINDING THE MOST FUNCTIONAL AND GMP SOLUTION POSSIBLE.











SIZE PARTS TESTED PERFORMANCE GUARANTEED





IMA size parts are fully tested before being sent to the customer, thus e nsuring t hat production c anstart imme diately. 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 knowle dge of the customer's particul armachine configuration
- Design and dr awing 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.

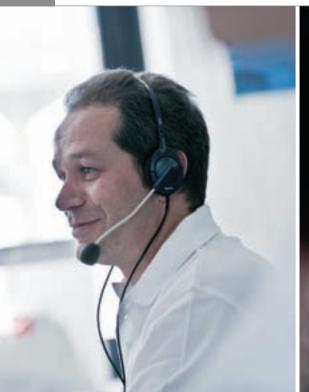


SERVICE

IMA machines incorporate the latest developments in technology and ar e desig ned to e nsure the highest production efficiency with low main tenance. To obtain topp erformance from our machines, IM Ar ecommends **technical training cours** esfor personnel from Production (Operators, Technicians and Supervisors), R&D, Process Transfer Department and the Maintenance Department.

Training c ourses c an b e or ganized a t IM A's si te or a tthe customer's plant and are taught by qualified IM At echnicians. 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 c ourses allow t he c ustomer's s taff t o op erate t he machine, maintain it in p erfect working condition and explain







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 viritual shop window a vailable 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!

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 guar antee f ast an de fficient a ssistance an d sup port, **RSA – Remo te S ervice A ssistance**, e nables IM A t o pr ovide 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.



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.

IMA SAFE IN THE WORLD



IMA S.p.A.

IMA Safe division

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