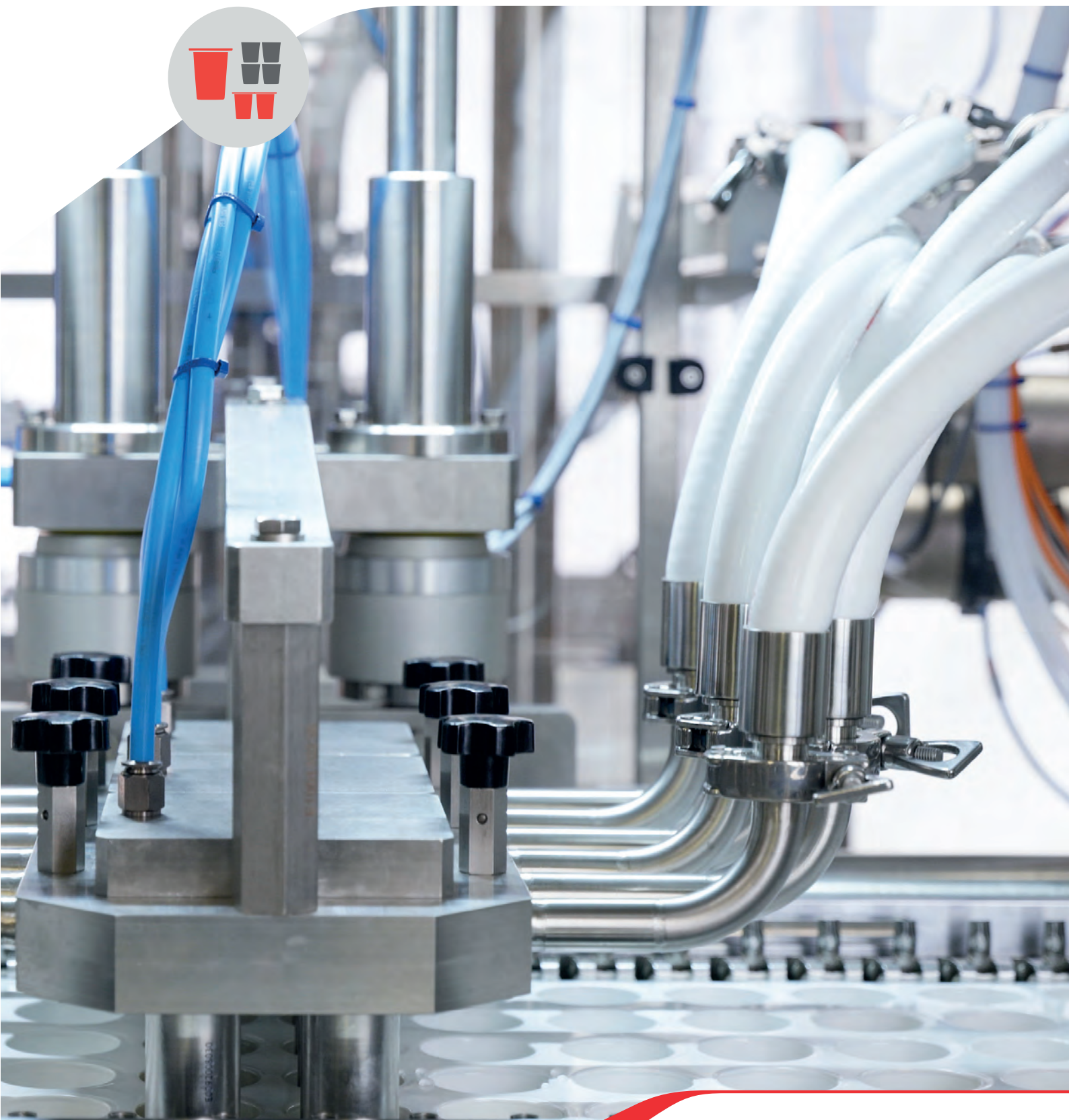


# FORM, FILL & SEAL SOLUTIONS FOR CUPS





# TABLE OF CONTENTS

FORMING, FILLING AND SEALING OF CUPS	4
C100 - ENTRY-LEVEL FFS MACHINE FOR CUPS	6
C100 TECHNICAL DATA	7
M-F-SERIES FOR THE LOWER PERFORMANCE RANGE	8
M-F TECHNICAL DATA	9
MTA-SERIES - FOR THE LOWER PERFORMANCE RANGE	10
MTA TECHNICAL DATA	11
EF-SERIES - FORMING, FILLING AND SEALING MACHINES FOR CUPS	12
EF400 TECHNICAL DATA	14
EF600/EF825 TECHNICAL DATA	15
C-SERIES - FFS MACHINES UP TO HYGIENE CLASS ASEPTIC	16
C300 TECHNICAL DATA	18
C500 TECHNICAL DATA	19
C800 TECHNICAL DATA	20
ALL TYPES OF FILLING VARIANTS	21
COUNTLESS CUP SHAPES AND LABELLING SOLUTIONS	22
P-SERIES - FFS MACHINES FOR PORTION CUPS	24
P300 TECHNICAL DATA	26
P500 TECHNICAL DATA	27
MTA-P - PORTION CUPS IN THE LOWER OUTPUT RANGE	28
MTA-P TECHNICAL DATA	29
HYGIENE LEVELS	30
YOUR PARTNER FOR INNOVATIVE SOLUTIONS	32
ZERO TECHNOLOGY®	33
SECONDARY AND END-OF-LINE PACKAGING SOLUTIONS	34
ASEPTIC COMPETENCE CENTER	36
ONE PARTNER FOR ALL YOUR REQUIREMENTS	38
YOUR DIRECT CONTACT	41

# FORMING, FILLING AND SEALING OF CUPS

IMA offers a wide range of state-of-the-art FFS solutions for cups – also covering specific requirements for aseptic processing and with the capacity to handle numerous materials for both – cup and lid – even with an eye to increasing sustainability through the use of new eco-friendly materials.

FFS technology is a combination of several processes: The cups are thermoformed from plastic film in a single machine, hermetically sealed with a film or foil and punched into single or multiple packs. FFS technology offers three economic and environmental advantages: reduction of plastic consumption through wrap-around labelling with paper, high hygiene standards and minimal space requirements for a compact machine.

Standard designs include a vast range of cup sizes and shapes offering customers an infinite choice to respond to their needs. Customized packaging is also provided as well as following laboratory trials to check the design concept. The resulting cup is a unique way to successfully market or differentiate a specific food or dairy product.

In an aim to keep ahead of market trends, IMA is equipped to ensure customers as much freedom as possible in creating unique ways to pack their products, be it to suit single-serve requirements, closable cups, mixed multipacks or complex packaging shapes.

Thanks to the company's wide experience and technical expertise related to liquid, viscous, layered, mixed or spreadable products a large variety of filling solutions are available.

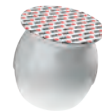
Close partnership with market leaders have led IMA experts to fully understand upstream and downstream processes and requirements. Reaching the right solution is faster more cost-effective with IMA.

IMA ERCA, IMA HASSIA and IMA INTECMA produce a comprehensive range of FFS machines to meet production requirements such as:

- Hygiene classes CLEAN, ULTRA-CLEAN and ASEPTIC
- From low output machines to highspeed machines
- Extra-ordinary filling accuracy
- Flexibility
- Reliability
- Extreme variety of cup shapes
- Trained and qualified service staff



multipacks



open-mould cups



double chamber cups



fluted cups



portion cups



large cups





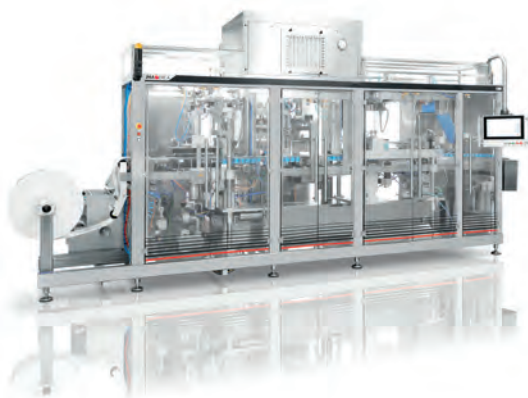
The companies IMA ERCA, IMA HASSIA and IMA INTECMA cover all aspects of the packaging process and supply equipment for filling liquid to pasty products into thermoformed cups. Many of the world's leading dairy and food companies around the globe work with FFS machines from these well-known brands.

The demand for fresh products with an extended shelf life and the requirements of retailers for cost-effective logistic concepts can only be met by using modern machines that meet all requirements in terms of hygiene, economy and efficiency. The wide-ranging machine portfolio offers the right machine for every product. The customized FFS machines for cups can process all types of approved materials.

# C100 - ENTRY-LEVEL FFS MACHINE



Compact form, fill and seal machine in the lower output range. With minimal space requirements and a modular design for easy operation, this FFS machine is a simple and cost-effective solution. With an optimized machine design and a simple, intuitive HMI, operating costs, maintenance and downtime are reduced to a minimum. As an entry-level machine with an output of up to 7.000 cups per hour, the C100 can be used to fill all types of dairy products as well as liquid and pasty foods.



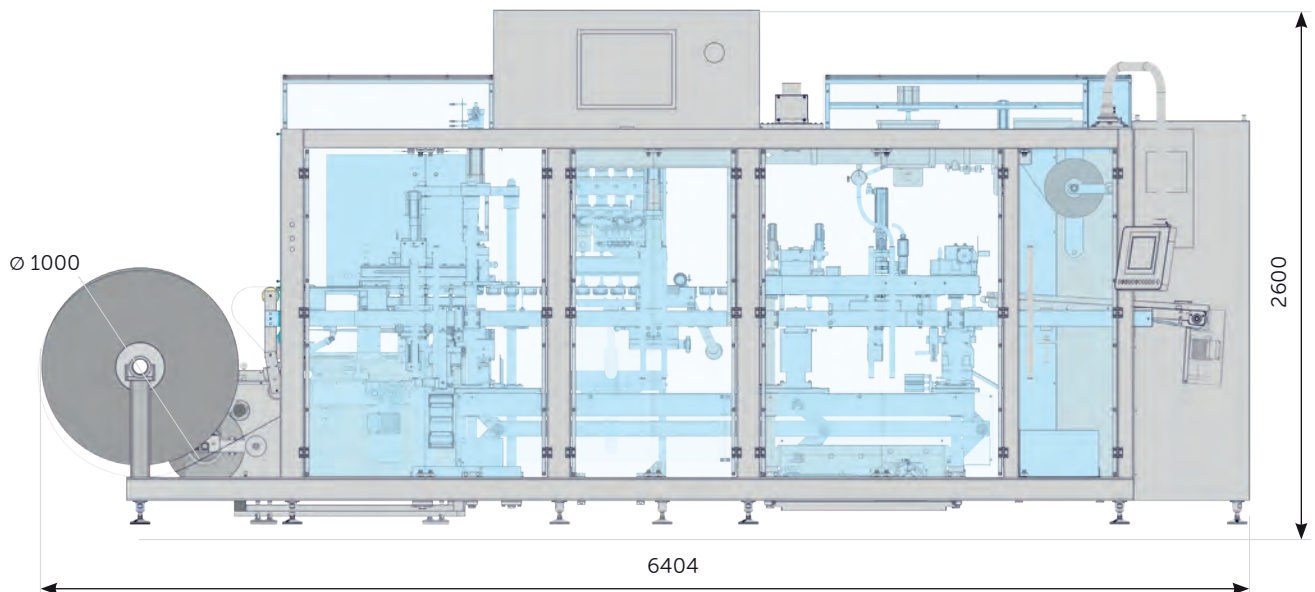
## C100

- FFS machine for cups in the lower capacity range
- Simple, cost-effective solution with just one press
- Wide range of cup shapes and design options





# C100 TECHNICAL DATA



## TECHNICAL DETAILS

Cup material width	300 mm	Draw off length	100 mm
Usable width	286 mm	Forming depth	100 mm

## TYPICAL MATERIALS

All common packaging materials

Bottom web	PS and multilayers, PS/PE, PS/EVOH, PET (single cups only)
------------	--

## TYPICAL OUTPUTS

Yoghurt cups 63 x 63 mm with wrap-around label 1x4	7.000 cups/h
--	--------------

## STANDARDS

Hygiene	Clean
Components	Controller and servo motors ELAU, Pneum. FESTO, HMI Magelis 10"
Standard configuration	Bottom web reel Ø 1.000 mm, lid web reel Ø 300 mm, label reel N/A, plastic pulling by fixed and movable grippers, heating station: 6 cycles, dosing by membrane or piston filler (up to 2 units), semi-penetrant cutting tool: waste less punch for packs, exit conveyor with belt

## TYPICAL OPTIONS

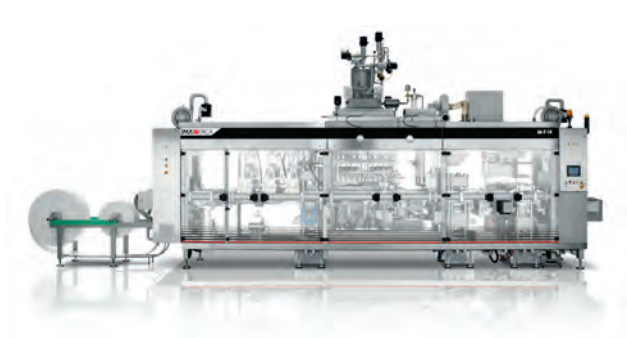
Hygiene	Ultra-clean*
Fillers	Rotary valve filler, 2 fillers possible in 1x4 configuration
Labelling	Labelling through the bottom
Cutting unit	Individual punching

\* Depending on customer specification

# M-F SERIES - FOR THE LOWER PERFORMANCE RANGE



Forming, filling and sealing machines with the best price/performance ratio, compact design and versatile application options. These machines from IMA ERCA are characterized by their compact design, quick installation and commissioning, easy maintenance and small footprint. With a high degree of standardization, the M-F series offers a high degree of user-friendliness and cost optimization. Whether yoghurt, cream cheese, tomato sauce, fruit puree, water, etc. - a wide range of products can be filled with the M-F series.



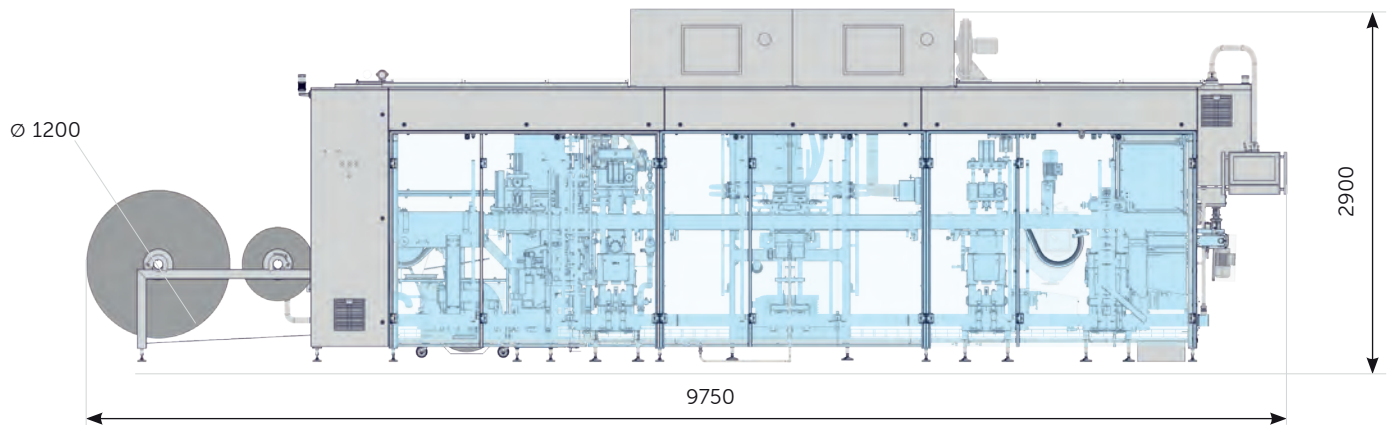
## M-F

- Capacity range from 14.000 to 21.000 cups/h
- High cost efficiency
- Simple and safe operation
- Compact, space-saving design (up to 30 % space saving compared to similar machines)
- With IMA ERCA HMI (operation, monitoring, maintenance) as standard
- Servo-controlled
- Optimized commissioning with standard procedures





# M-F TECHNICAL DATA



## TECHNICAL DETAILS

Cup material width	max. 420 mm	Draw off length	max. 150 mm
Usable width	max. 400 mm	Forming depth	max. 90 mm
Cup size range	20-500 ml		

## TYPICAL MATERIALS

PET/PET, PP and multilayers such as PS/PE, PS/PETG, PS/EVOH/PE, PP/EVOH/PP

## TYPICAL OUTPUTS

Cups with wrap-around label 63 x 63 mm, 2x6 - 30 cycles/min.	21.600 cups/h
--	---------------

## STANDARDS

Components	Controller and servo motors ELAU, Pneum. FESTO, HMI "IMA ERCA"
Standard configuration	Plastic reel Ø 1.200 mm, Lid reel Ø 400 mm, Label reel Ø 600 mm, labelling with tilting mould, drive heating section on 8 cycles, exit conveyor with Intralox chains

## TYPICAL OPTIONS

Hygiene	Clean*, Ultra-clean*
Labelling	Labelling with vacuum, labelling for conical cups, 2 label heights, automatic splicing
Chains	IMA ERCA chains with grippers and magnetic drive
Fillers	Up to 3 fillers

\* Depending on customer specification

# MTA-SERIES - FOR THE LOWER PERFORMANCE RANGE



Cup forming, filling and sealing machines for smaller quantities. With a high degree of standardization. The 2 phase manufacturing concept reduces delivery time to 3 months from date of purchase order. A large variety of cup shapes - with or without label - can be realized.

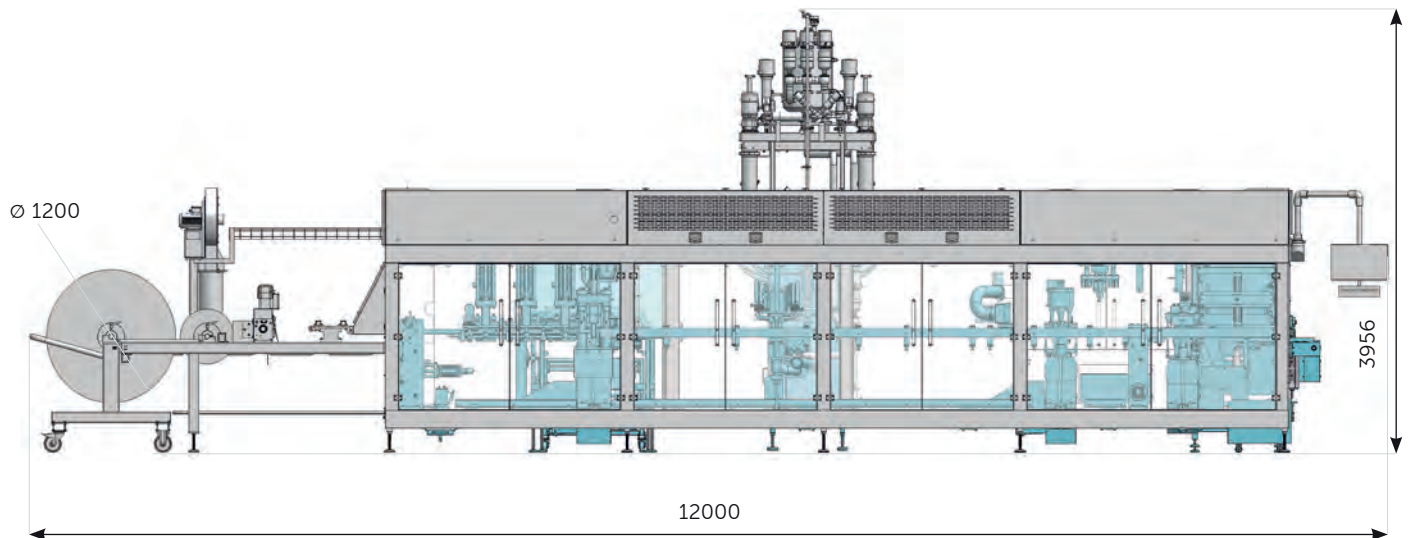


## MTA-C

- Capacity range from 21.600 to 28.800 cups/h
- Latest generation of patented ZERO Technology® tools applied to forming, labelling, filling and cutting stations in this machine
- The machines are ready for the use of sustainable materials like PET or PP
- Flexibility to use different label heights and different cup shapes.
- Installation within 2 weeks and start-up time
- Quick change over times



# MTA-C TECHNICAL DATA



## TECHNICAL DETAILS

Material width	max. 578 mm	Draw off length	max. 250 mm
Cup size range	20-500 ml	Forming depth	max. 100 mm

## TYPICAL MATERIALS

PET, PP, PP Multilayer, PLA, PS, PS Multilayer

## TYPICAL OUTPUTS

Range	28.800 cups/h
-------	---------------

## STANDARD EQUIPMENT

Control system	Controller and servo motors: Siemens PLC
Reel diameters	Plastic reel Ø 1.200 mm, Lid reel Ø 300 mm, Label reel Ø 600 mm
Punching principles	Single cup with grid, single cup low waste, multi-format with different punching configurations
Hygiene class	Ultra-clean*

## TYPICAL OPTIONS

Bottom web	2nd reel for flying reel change
Lid material	2nd reel and/or 2nd reel with magazine for flying reel change
Dosing system	2 fillers (pre-/post fill)
Hygiene class	Ultra-clean (VDMA III+IV)
Cup discharge and secondary packaging	Walking beam, pick & place systems or other end-of-line equipment

\* Depending on customer specification



# EF-SERIES - HIGH OUTPUT MACHINES



IMA ERCA's EF-series stands for high-output FFS machines able to process a huge variety of pasty to liquid products, including multi-layer, and enabling cup design and labelling versatility, leading to significant savings on packaging materials.



## EF400

- Capacity range up to 43.200 cups/h
- Wide range of possible applications, packaging shapes and materials
- For straight or conical IML process (IML labels)
- Fast product changeover
- Available hygiene classes: Clean and Ultra-clean



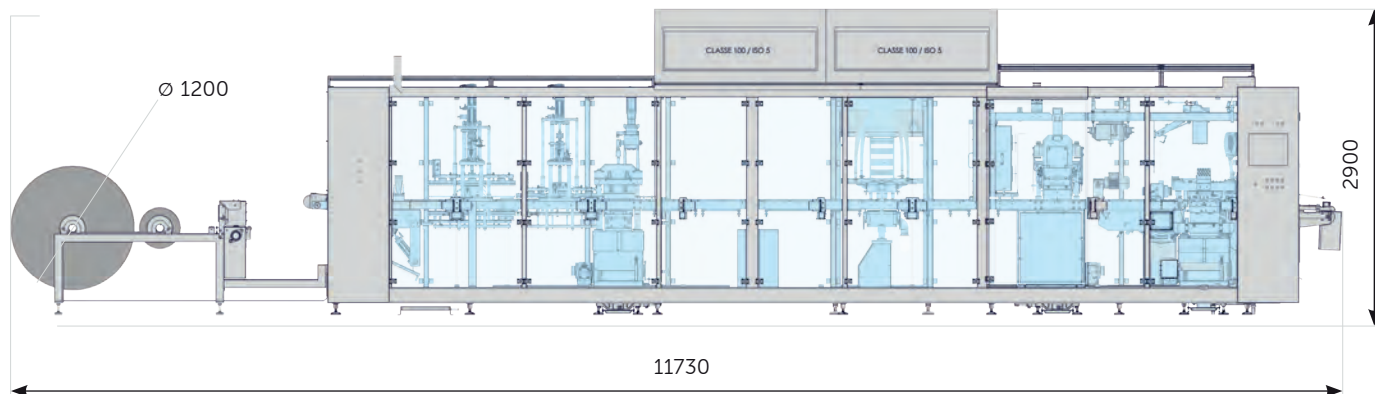


## EF600/EF825

- Very high output: up to 86.400 cups/h
- Simple concept for a high-performance machine for reliable continuous operation and a long service life
- Lower reject rate thanks to wider bottom film
- Wide range of possible applications, packaging shapes and materials
- For straight or conical IML process (in-mould labels)
- Fast product changeover



# EF400 TECHNICAL DATA



## TECHNICAL DETAILS

Cup material width	410 mm*	Draw off length	300 mm
Usable width	390 mm*	Forming depth	100 mm

\* +60 mm with spike chains

## TYPICAL MATERIALS

PS, PET, PP and multilayers such as PS/PE, PS/PETG, PS/EVOH/PE, PP/EVOH/PP

## TYPICAL OUTPUTS

Yoghurt cups 63x63 mm, with wrap-around label, 4x6 - 30 cycles/min.	43.200 cups/h
---	---------------

## STANDARDS

Components	Controller and servo motors ELAU, Pneum. FESTO, HMI 15"
Standard configuration	Plastic reel Ø 1.200 mm, Lid reel Ø 400 mm, Label reel Ø 600 mm, IMA ERCA Chains with grippers and magnetic drive, labelling with tilting mould, pneumatic heating section on 6 cycles, exit conveyor with Intralox chains

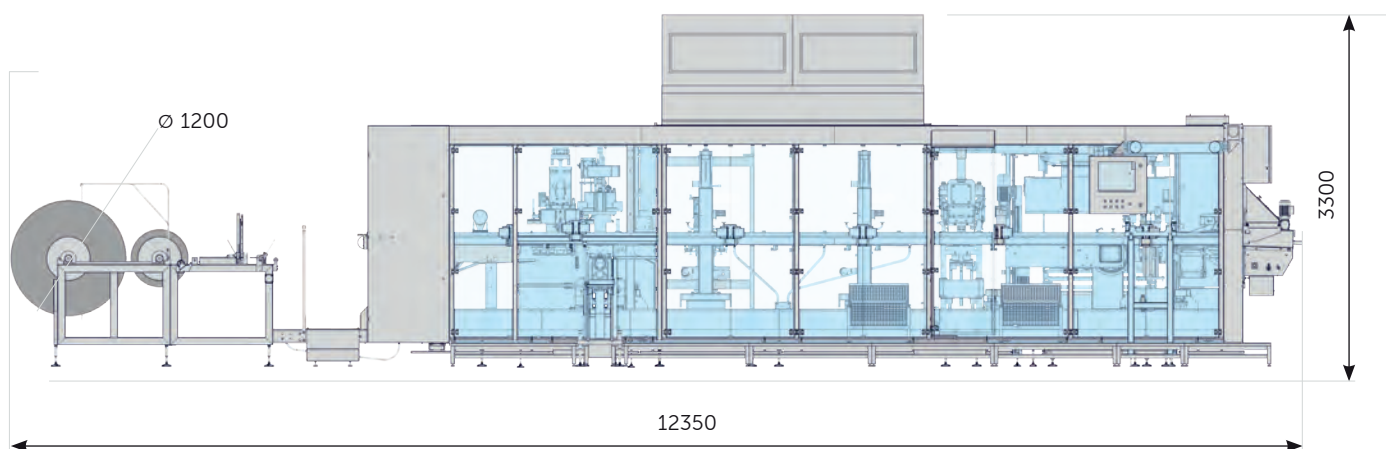
## TYPICAL OPTIONS

Hygiene	Clean*, Ultra-clean*
Labelling	Any kind of labelling for conical cups, 2 label heights, automatic splicing
Chains	IMA ERCA spiked chains, TSUBAKI chains
Fillers	Up to 3 fillers

\* Depending on customer specification



# EF600/EF825 TECHNICAL DATA



TECHNICAL DETAILS	EF 600	EF 825
Cup material width	max. 618 mm	max. 858 mm
Usable width	max. 658 mm	max. 838 mm
Draw off length	max. 300 mm	max. 300 mm
Forming depth	max. 100 mm	max. 130 mm

## TYPICAL MATERIALS

PS, PET, PP and multilayers such as PS/PE, PS/PETG, PS/EVOH/PE, PP/EVOH/PP

## TYPICAL OUTPUTS

Yoghurt cups 63x63 mm, wrap-around label, 4x8 - 30 cycles/min.	57.600 cups/h	-
Fresh cheese cups 49x49 mm, wrap-around label, 4x12 - 30 cycles/min.	80.400 cups/h	-
Yoghurt cups 63x63 mm, wrap-around label, 4x12 - 30 cycles/min.	-	86.400 cups/h

## STANDARDS

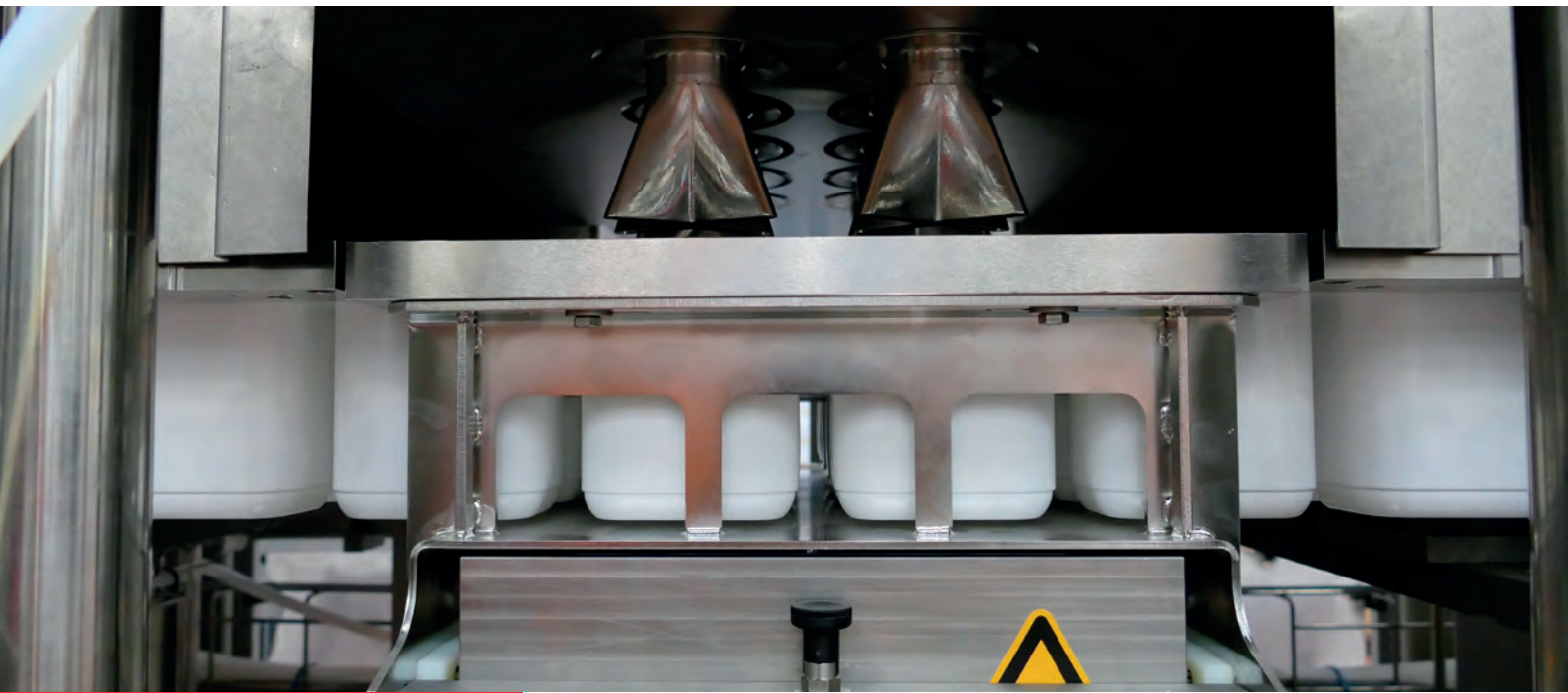
Components	Controller and servo motors ELAU, Pneum. FESTO, HMI 15"	
Standard configuration	Plastic reel Ø 1.200 mm, Lid reel Ø 400 mm, Label reel Ø 600 mm, IMA ERCA Chains with grippers and magnetic drive, labelling with tilting mould, pneumatic heating section on 6 cycles, exit conveyor with Intralox chains	Plastic reel Ø 1.600 mm, Lid reel Ø 400 mm, Label reel Ø 600 mm, IMA ERCA Chains with grippers and magnetic drive, labelling with barrel 4 moulds or tilting mould, pneumatic heating section on 6 cycles, exit conveyor with Intralox chains

## TYPICAL OPTIONS

Hygiene	Clean*, Ultra-clean*
Labelling	Any kind of labelling, labelling for conical cups, 2 label heights, automatic splicing
Chains	IMA ERCA spike chains
Fillers	Up to 3 fillers

\* Depending on customer specification

# C-SERIES - FORM, FILL & SEAL MACHINES UP TO



Flexibility, user friendliness, reliability and economic efficiency are decisive criteria for investing in a cup form, fill and seal machine. Longtime experience enables IMA HASSIA to comply with these requirements every time, as customers wish, in line with the product to be filled. IMA HASSIA combines creativity with standard solutions. This means that technology is adapted to current market demands and special requirements, focusing on individual, future oriented solutions with the highest economic efficiency and high product quality. Depending on market and product requirements, the following hygiene classes are available: 'Clean', 'Ultra-clean' and 'Aseptic'.



## C300 (A)

**Low output** FFS cup machine for more efficiency, availability and flexibility. Optimum working width in line with the requested production capacity. Product specific filling systems stand for high filling accuracy. Huge variety of cup shapes and forms – also for double chamber cups – can be realized.



## C500 (A)

**FFS machine** for medium output with optimum hygiene standards - especially for products in cups and double chamber cups for the dairy and food industry. The compact design specifically meets customer requirements for a small footprint. The costs for investment, maintenance and spare parts are significantly reduced.

# HYGIENE CLASS ASEPTIC



An optimum working width in line with the required production capacity, short draw-off length and high filling accuracy: these are the facts of the C-Series underlying economic, safe and stable production.



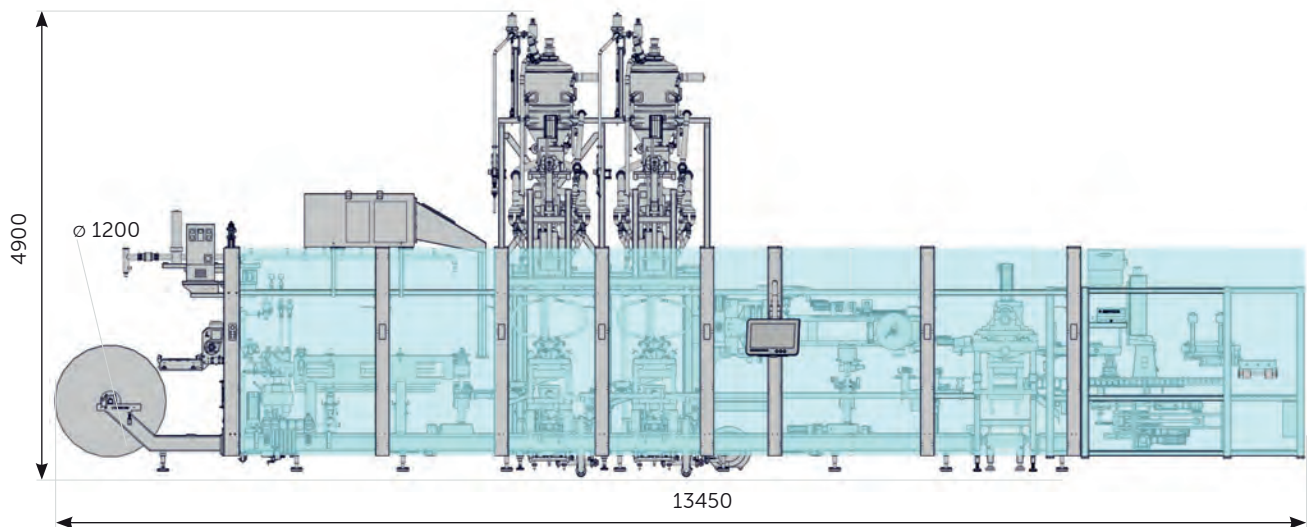
## C800 (A)

**High performance** FFS cup machine with optimum hygiene standards - offering efficient, well thought-out technology such as optimized format widths, shorter draw-off-lengths and high cycle speeds to ensure economical and profitable production runs. Huge variety of cup shapes for dairy and foodstuff products.





# C300 TECHNICAL DATA



Customized version

Material width	max. 340 mm	Draw-off length	max. 340 mm
Forming depth	max. 90 mm		

## TYPICAL MATERIALS

Bottom web	PET, PP, PP Multilayer, PLA, PS, PS Multilayer, PVC
Lid material	Paper-, PET-, Alu-based or other heat sealable materials

## TYPICAL OUTPUT RANGE AND APPLICATION EXAMPLES

Range	up to 21.600 cups/hour
-------	------------------------

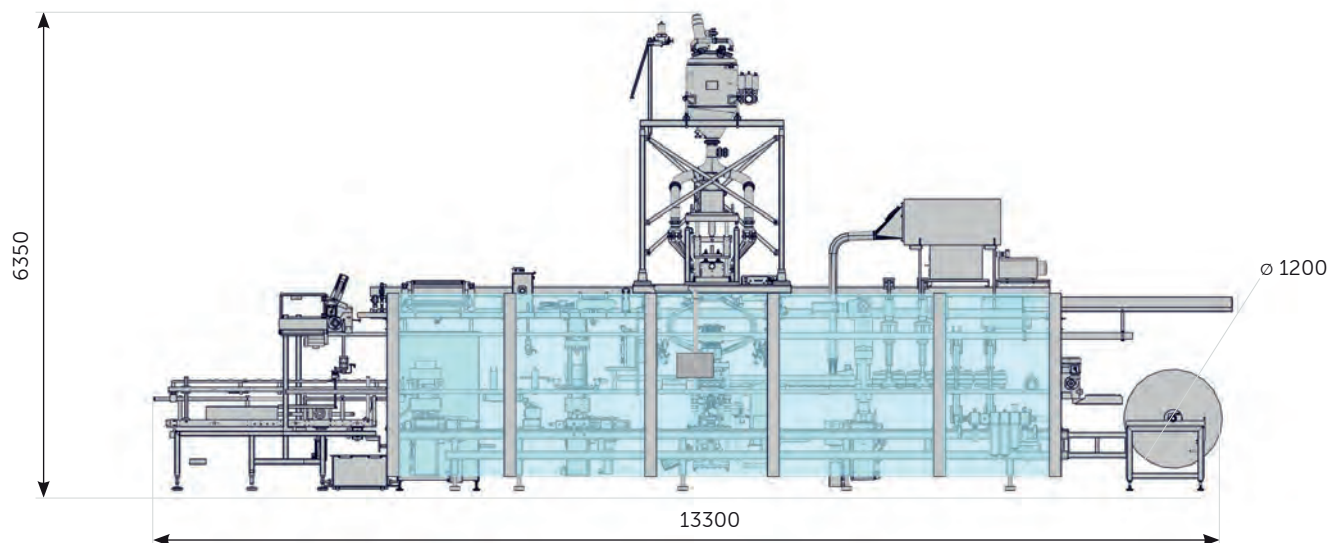
## STANDARD EQUIPMENT

Control system	Controller and servo motors Schneider Electric or Rockwell Automation
Reel diameters	Bottom web max. 1.200 mm - Lid web max. 400 mm or 600 mm (lateral feed)
Punching principle	Single cup with grid, single cup low waste, multi-format with different punching configurations
Hygiene class	Clean (VDMA I+II)

## TYPICAL OPTIONS

Bottom web	2nd reel and/or 2nd reel with magazine for flying reel change
Lid material	2nd reel and/or 2nd reel with magazine for flying reel change
Filler	Hot fill 85°C, CIP accessories, multi-component filling, agitator
Hygiene class	<b>Ultra-clean</b> (VDMA III+IV), <b>Aseptic</b> (VDMA V), <b>FDA-Aseptic version</b> , other versions on request
Decoration	Labelling versions: side/U-shape/bottom/wrap-around/wave
Cup discharge and secondary packaging	Walking beam, pick & place systems or other end-of-line equipment

# C500 TECHNICAL DATA



Customized version

Material width	max. 550 mm	Draw-off length	max. 320 mm
Forming depth	max. 90 mm		

## TYPICAL MATERIALS

Bottom web	PET, PP, PP Multilayer, PLA, PS, PS Multilayer, PVC
Lid material	Paper-, PET-, Alu-based or other heat sealable materials

## TYPICAL OUTPUT RANGE AND APPLICATION EXAMPLES

Range	up to 57.600 cups/hour
-------	------------------------

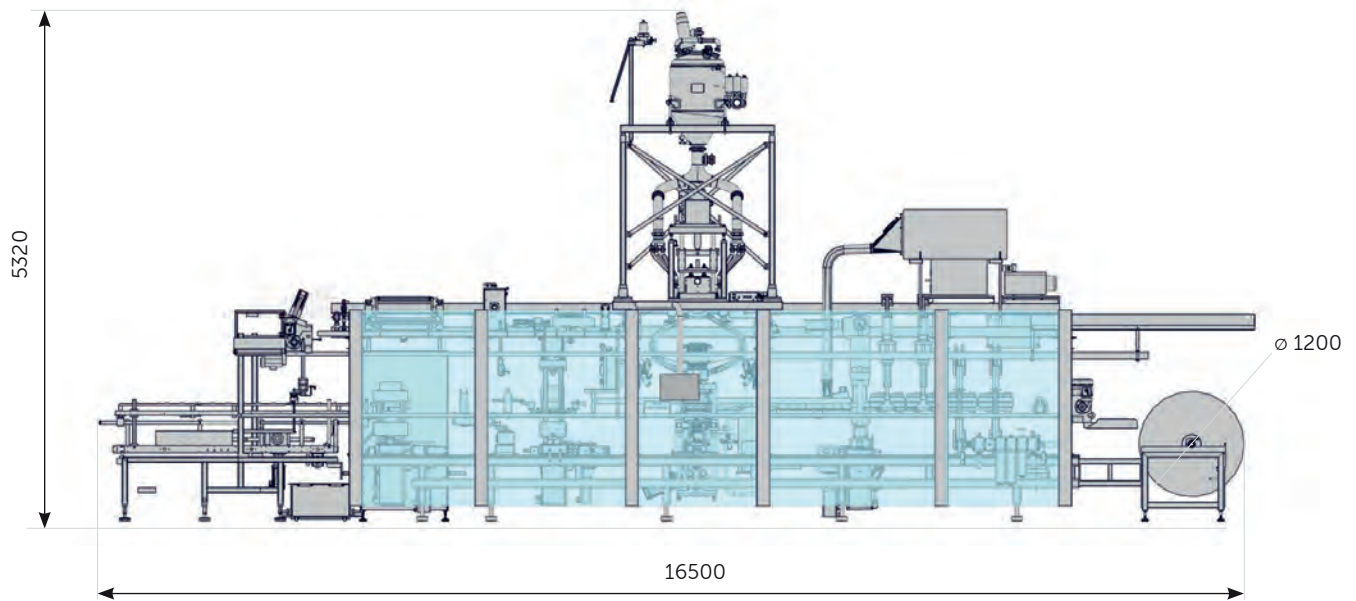
## STANDARD EQUIPMENT

Control system	Controller and servo motors Schneider Electric or Rockwell Automation
Reel diameters	Bottom web max. 1.200 mm - Lid web max. 600 mm (lateral feed)
Punching principle	Single cup with grid, single cup low waste, multi-format with different punching configurations
Hygiene class	Clean (VDMA I+II)

## TYPICAL OPTIONS

Bottom web	2nd reel and/or 2nd reel with magazine for flying reel change
Lid material	2nd reel and/or 2nd reel with magazine for flying reel change
Filler	Hot fill 85°C, CIP accessories, multi-component filling, agitator
Hygiene class	<b>Ultra-clean</b> (VDMA III+IV), <b>Aseptic</b> (VDMA V), <b>FDA-Aseptic version</b> , other versions on request
Decoration	Labelling versions: side/U-shape/bottom/wrap-around/wave
Cup discharge and secondary packaging	Walking beam, pick & place systems or other end-of-line equipment

# C800 TECHNICAL DATA



Customized version

Material width	max. 800 mm	Draw-off length	max. 320 mm
Forming depth	max. 90 mm		

## TYPICAL MATERIALS

Bottom web	PET, PLA, PS, PS Multilayer, PVC
Lid material	Paper-, PET-, Alu-based or other heat sealable materials

## TYPICAL OUTPUT RANGE AND APPLICATION EXAMPLES

Range	up to 86.400 cups/hour
-------	------------------------

## STANDARD EQUIPMENT

Control system	Controller and servo motors Schneider Electric or Rockwell Automation
Reel diameters	Bottom web max. 1.200 mm - Lid web max. 600 mm (lateral reel feed)
Punching principle	Single cup with grid, single cup low waste, multi-format with different punching configurations
Hygiene class	Clean (VDMA I+II)

## TYPICAL OPTIONS

Bottom web	2nd reel and/or 2nd reel with magazine for flying reel change
Lid material	2nd reel and/or 2nd reel with magazine for flying reel change
Filler	Hot fill 85°C, CIP accessories, multi-component filling, agitator
Hygiene class	<b>Ultra-clean</b> (VDMA III+IV), <b>Aseptic</b> (VDMA V), <b>FDA-Aseptic version</b> , other versions on request
Decoration	Labelling versions: side/U-shape/bottom/wrap-around/wave
Cup discharge and secondary packaging	Walking beam, pick & place systems or other end-of-line equipment



# ALL TYPES OF FILLING VARIANTS



With its long term experience in filling liquid to pasty products into different kind of cups IMA offers a large variety of different filling possibilities. The fillers are known for their outstanding filling accuracy, a factor which inevitably leads to minimal product loss and enhanced productivity. Covering a wide range of filling styles, countless customized and tailor-made design possibilities are available to satisfy specific requests. Built to ensure maximum flexibility, different products can be processed on the same machine, which can also handle both, small and large volumes. Fillers benefit from automatic, fully controlled SIP/CIP systems for maximum hygiene, and are supplied in full compliance with European regulations. On demand, equipment can also be delivered compliant with further regulations such as FDA, 3A and EHEDG etc.



# COUNTLESS CUP SHAPES



The brands IMA ERCA, IMA HASSIA and IMA INTECMA support customers in the design of new packaging. Our designers have already developed more than 2.000 different cups.

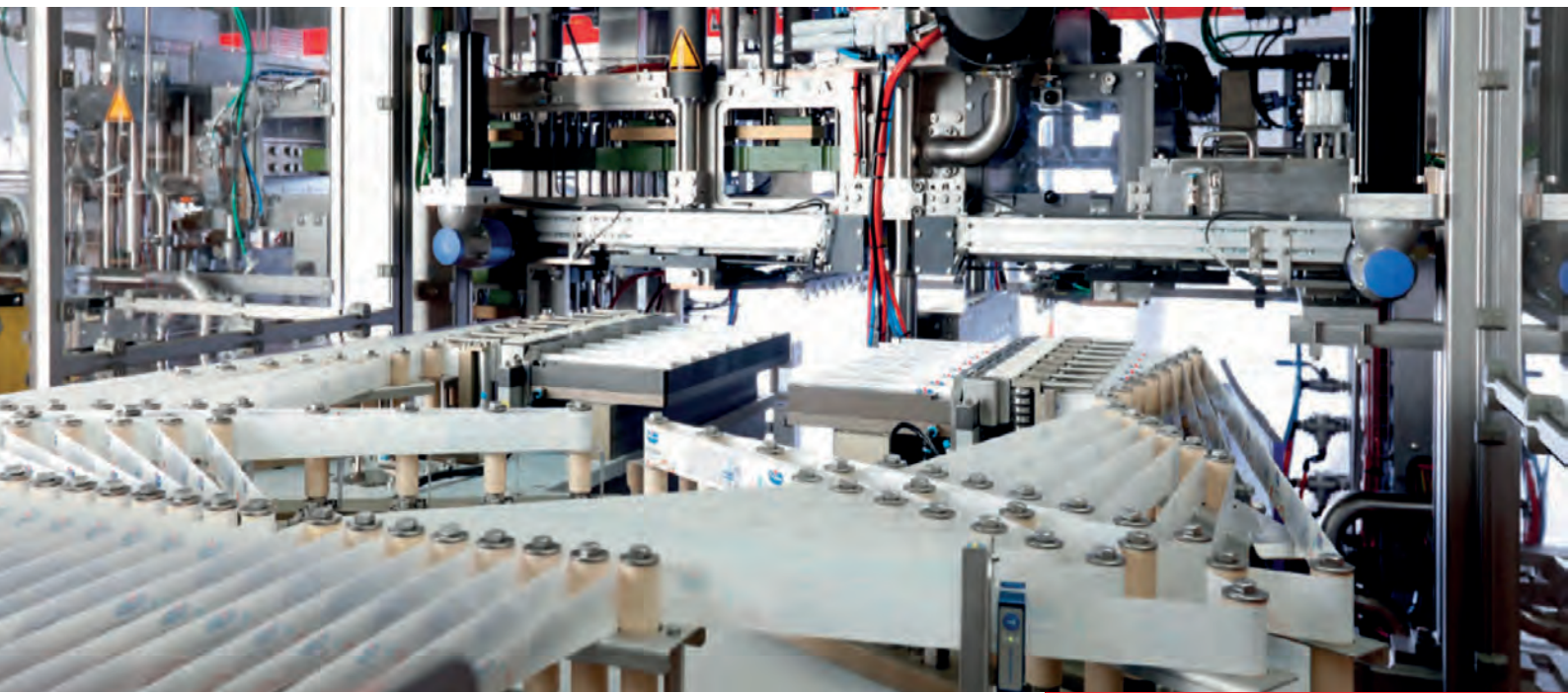
Development and design of a customized cup shape are simulated in 3D on the screen. Sample cups can be produced in our own development laboratory. The suitability of a new cup shape can be easily assessed on the basis of the sample cups and any changes can be discussed directly with the designers.

Parallel to the standard FFS process, IMA ERCA has developed a special technology with which a wide range of innovative thermoformed cups - with or without labels - can be produced at reasonable prices. The savings are mainly related to waste reduction, but also to easier recycling of cup and lid waste.





# LABELLING SOLUTIONS

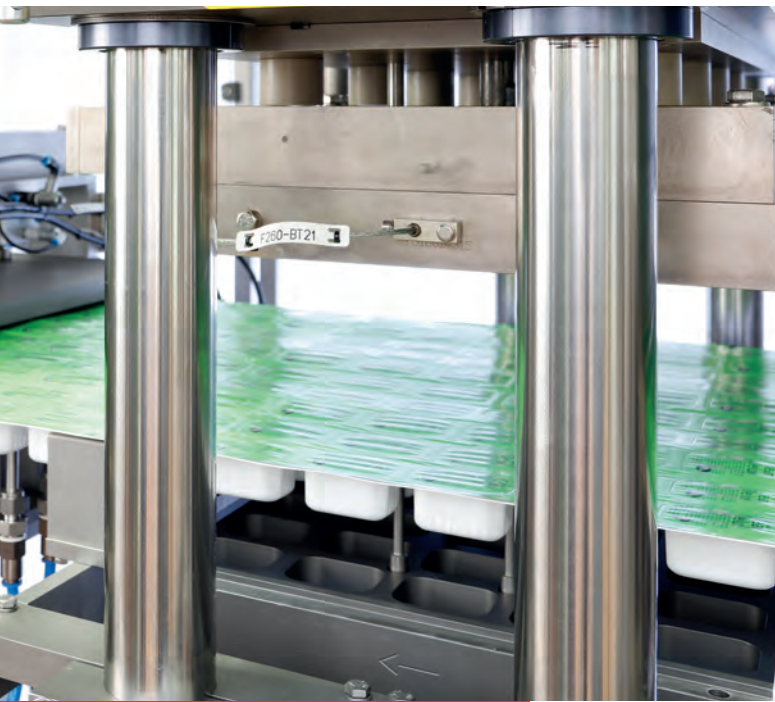


Cups can be designed cost-effectively and with a huge variety of different labelling solutions also enabling great freedom in terms of cup geometry. The label is not only a marketing instrument to increase the information area, but it also improves the cups' sidewall stability – making it more rigid – so the bottom web thickness for the cup can be reduced.

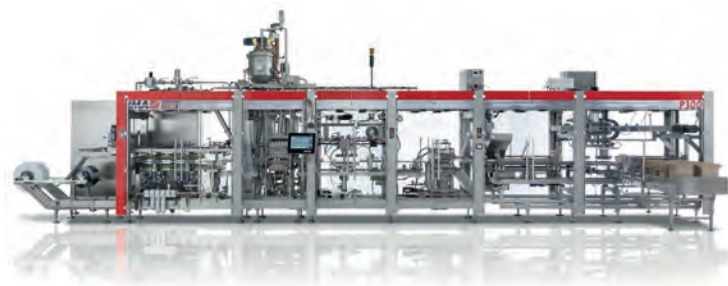




# P-SERIES - FFS MACHINES FOR PORTION CUPS



Portion cups are the perfect, hygienic packaging ensuring quality and freshness for the breakfast buffet in a hotel, on board of airlines, for catering and for single households. The convenient round, oval, square or even honeycomb shaped cups offer perfect protection and attractive staging for your high quality products. Depending on market and product requirements, the following hygiene classes are available: 'Clean', 'Ultra-clean' and 'Aseptic'.



## P300 (A)

FFS portion cup machine in the **low and medium** performance range and designed for materials such as PET, PP and PS.

The machine is characterized by various customized advantages, such as e. g. low operational cost, high availability, minimum maintenance and repair cost, as well as a balanced price performance ratio.





#### Applications:

- in the dairy industry for packaging butter, desserts, cream cheese, coffee cream etc.
- in the food industry for packaging ketchup, mustard, mayonnaise, sauces and dips, honey, jams, spreads, nougat cream, margarine, spices, herbs, dressings etc.



#### P500 (A)

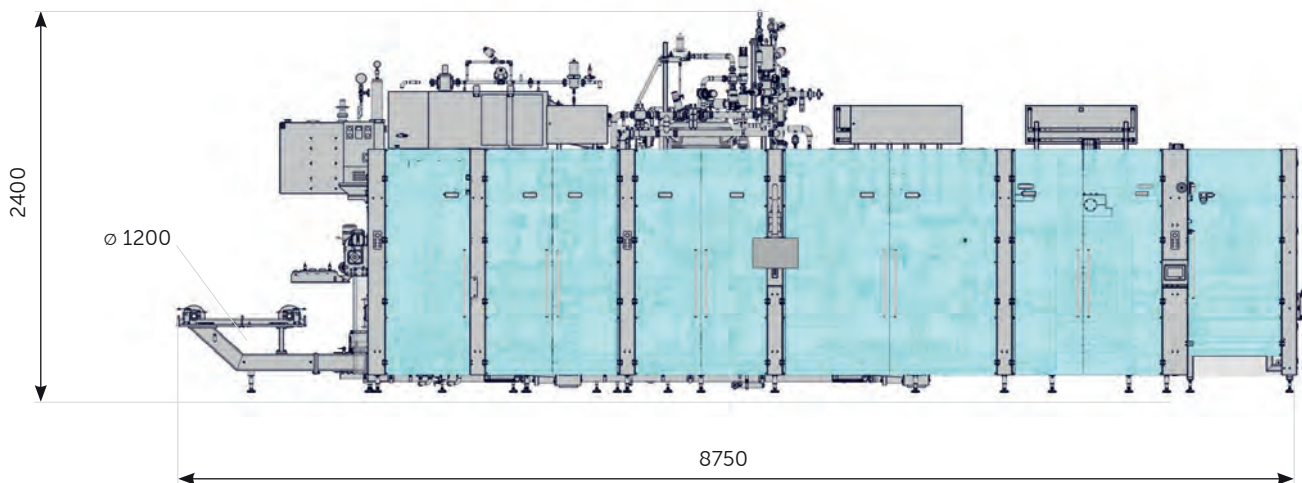
**High performance** FFS portion cup machine for a huge variety of cup designs and materials such as PET, PP and PS. Offers maximum accuracy, precise product cut-off and gentle product handling.

Less packaging material needed thanks to:

- the use of forming material of minimal thickness
- even heating up of the material and accelerated forming process for an optimally controlled and optimally distributed wall thickness
- minimal punch waste from the low-waste punch unit
- volume-saving, overlapping packing configuration when final packaging into boxes or trays.



# P300 TECHNICAL DATA



Customized version

Material width	max. 340 mm	Draw-off length	max. 340 mm
Forming depth	max. 40 mm		

## TYPICAL MATERIALS

Bottom web	PET, PP, PP Multilayer, PLA, PS, PS Multilayer, PVC
Lid material	Paper-, PET-, Alu-based or other heat sealable materials

## TYPICAL OUTPUT RANGE AND APPLICATION EXAMPLES

Range	up to 54.000 cups/hour
-------	------------------------

## STANDARD EQUIPMENT

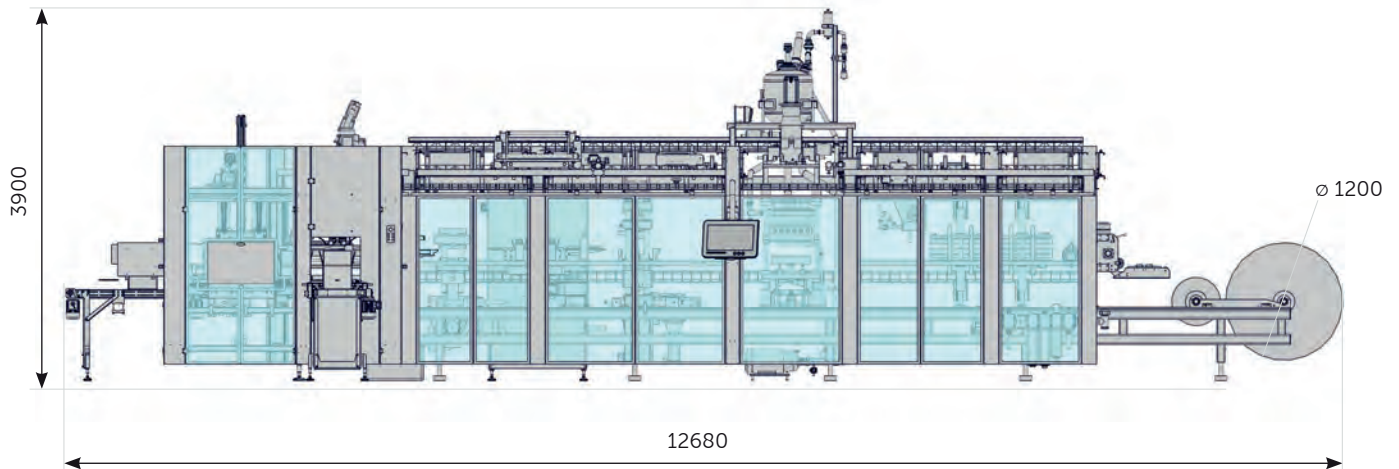
Control system	Controller and servo motors Schneider Electric or Rockwell Automation
Reel diameters	Bottom web max. 1.200 mm - Lid web max. 400 mm or 600 mm (lateral feed)
Punching principles	Single cup with grid, single cup low waste, multi-format with different punching configurations
Hygiene class	Clean (VDMA I+II)

## TYPICAL OPTIONS

Bottom web	2nd reel and/or 2nd reel with magazine for flying reel change
Lid material	2nd reel and/or 2nd reel with magazine for flying reel change
Filler	Hot fill 85°C, CIP accessories, compensator, agitator
Hygiene class	<b>Ultra-clean</b> (VDMA III+IV), <b>Aseptic</b> (VDMA V), <b>FDA-Aseptic version</b> , other versions on request
Cup discharge and secondary packaging	Walking beam, pick & place systems or other end-of-line equipment



# P500 TECHNICAL DATA



Customized version

Material width	max. 550 mm	Draw-off length	max. 320 mm
Forming depth	max. 40 mm		

## TYPICAL MATERIALS

Bottom web	PET, PP, PP Multilayer, PLA, PS, PS Multilayer, PVC
Lid material	Paper-, PET-, Alu-based or other heat sealable materials

## TYPICAL OUTPUT RANGE AND APPLICATION EXAMPLES

Range	up to 151.200 cups/hour
-------	-------------------------

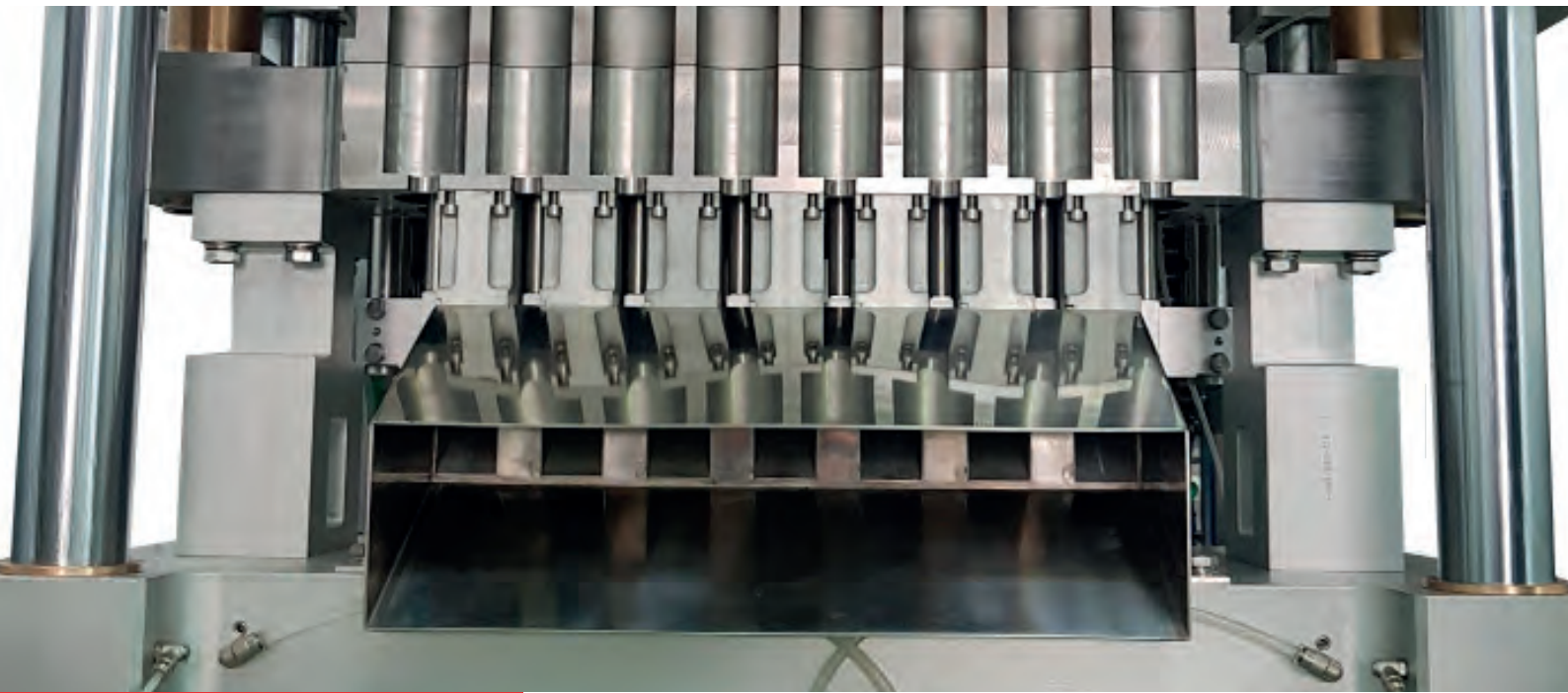
## STANDARD EQUIPMENT

Control system	Controller and servo motors Schneider Electric or Rockwell Automation
Reel diameters	Bottom web max. 1.200 mm - Lid web max. 600 mm (lateral feed)
Punching principle	Single cup with grid, single cup low waste, multi-format with different punching configurations
Hygiene class	Clean (VDMA I+II)

## TYPICAL OPTIONS

Bottom web	2nd reel and/or 2nd reel with magazine for flying reel change
Lid material	2nd reel and/or 2nd reel with magazine for flying reel change
Filler	Hot fill 85°C, CIP accessories, compensator, agitator
Hygiene class	<b>Ultra-clean</b> (VDMA III+IV), <b>Aseptic</b> (VDMA V), <b>FDA-Aseptic version</b> , other versions on request
Cup discharge and secondary packaging	Walking beam, pick & place systems or other end-of-line equipment

# MTA-P - PORTION CUPS IN THE LOWER OUTPUT RANGE



Forming, filling and sealing machine for portion cups for smaller quantities. With a high degree of standardization. The 2 phase manufacturing concept reduces delivery time to 3 months from date of purchase order. Different cup shapes can be realized.

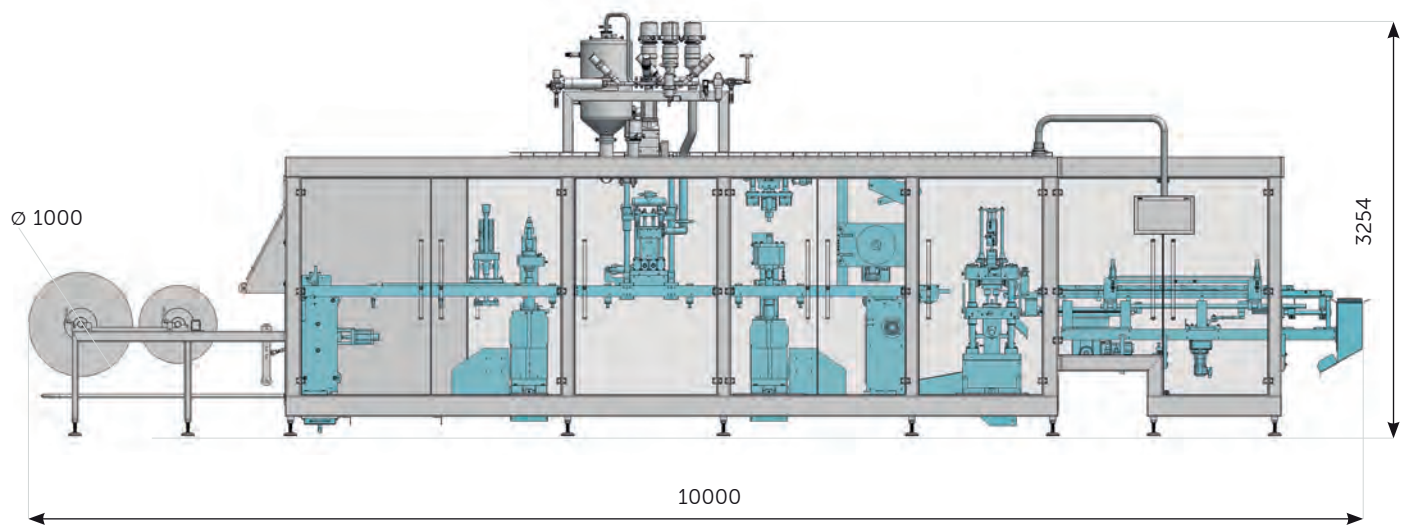


## MTA-P

- Output up to 36.000 portion cups/h
- Latest generation of patented ZERO Technology® tools applied to forming, labelling, filling and cutting stations in this machine
- The machines are ready for sustainable materials like PET or PP
- Installation within 2 weeks and start-up time
- Quick change over times



# MTA-P TECHNICAL DATA



Customized version

Material width	max. 400 mm	Draw-off length	max. 250 mm
Forming depth	max. 40 mm		

## TYPICAL MATERIALS

Bottom web	PET, PP, PP Multilayer, PLA, PS, PS Multilayer, PVC
Lid material	Paper-, PET-, Alu-based or other heat sealable materials

## TYPICAL OUTPUT RANGE AND APPLICATION EXAMPLES

Range	up to 36.000 cups/h
-------	---------------------

## STANDARD EQUIPMENT

Control system	Controller and servo motors: Siemens
Reel diameters	Bottom web max. 1.200 mm - Lid web max. 300 mm
Punching principles	Single cup with grid, single cup low waste, multi-format with different punching configurations
Hygiene class	Clean (VDMA I+II)

## TYPICAL OPTIONS

Bottom web	2nd reel for flying reel change
Lid material	2nd reel and/or 2nd reel with magazine for flying reel change
Filler	Hot fill 85°C, CIP accessories, compensator, agitator
Hygiene class	Ultra-clean (VDMA III+IV)
Cup discharge and secondary packaging	Walking beam, pick & place systems or other end-of-line equipment



# HYGIENE LEVELS



The requirement to extend the shelf life of high-quality products outside as well as throughout the cold chain – without a loss of quality – is becoming increasingly important.

The packaging process can be split into various hygiene classes, depending on application or product requirements.

Our solutions comply with the following hygiene standards:

- CLEAN (VDMA I+II)
- ULTRA-CLEAN (VDMA III+IV)
- ASEPTIC (VDMA V)



## FFS: PORTION CUPS

MTA - P

Clean

up to 36.000

cups/h



P300 - P500

Ultra-Clean

27.000 - 151.200

cups/h



P300A - P500A

Aseptic

27.000-151.200

cups/h

## FFS: CUPS

C100

Clean

up to 7.000

cups/h



MF-Series

Clean

14.000 - 21.600

cups/h

MTA

Clean

21.600 - 28.800

cups/h

C300 - C500 - C800

Ultra-Clean

14.400 - 86.400

cups/h



EF400

Ultra-Clean

up to 43.200

cups/h



EF600/EF825

Ultra-Clean

up to 86.400

cups/h



C300A - C500A - C800A

Aseptic

14.400 - 86.400

cups/h

# YOUR PARTNER FOR INNOVATIVE SOLUTIONS



With the patented ZERO Technology® tools which can be used in all FFS machines we offer the perfect solution for the use of mono-materials such as PET, PP and PLA.

From hygienic product protection to communication with the customer - packaging must fulfil a wide range of functions. This includes the packaging design, product protection, ease of use, optimal logistics, customer information and brand ambassador, but also to guarantee the shelf life of the product, however the packaging must also be sustainable. Functionality and sustainability are on the same level in packaging development. This has to be taken into consideration when developing alternative packaging concepts with sustainable materials such as mono-materials as well as materials from renewable resources.

## **IMA offers solutions to save material:**

- Better material characteristics
- Thinner wall thickness for cups
- Thinner foil thickness
- Optimized thermoforming
- Optimized processing

Our technological solutions enable the plastic packaging to become lighter and lighter over the years - even with the same or better packaging performance or rigidity.

In order to offer sustainable packaging solutions we work from the beginning of a project in close cooperation with customers and packaging material suppliers to develop solutions for saving packaging material and at the same time take into consideration the environment, the market, the customer's product and the overall packaging concept.

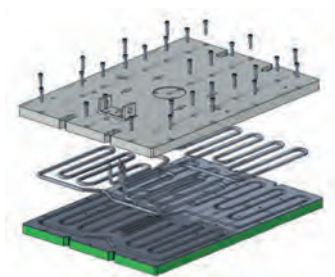
Together with our customers and material suppliers we test new packaging materials made from renewable or recyclable materials to ensure that the materials can be processed on our packaging machines and that the greatest possible machine output is guaranteed.

**We always offer our customers the most economical and innovative packaging solutions.**



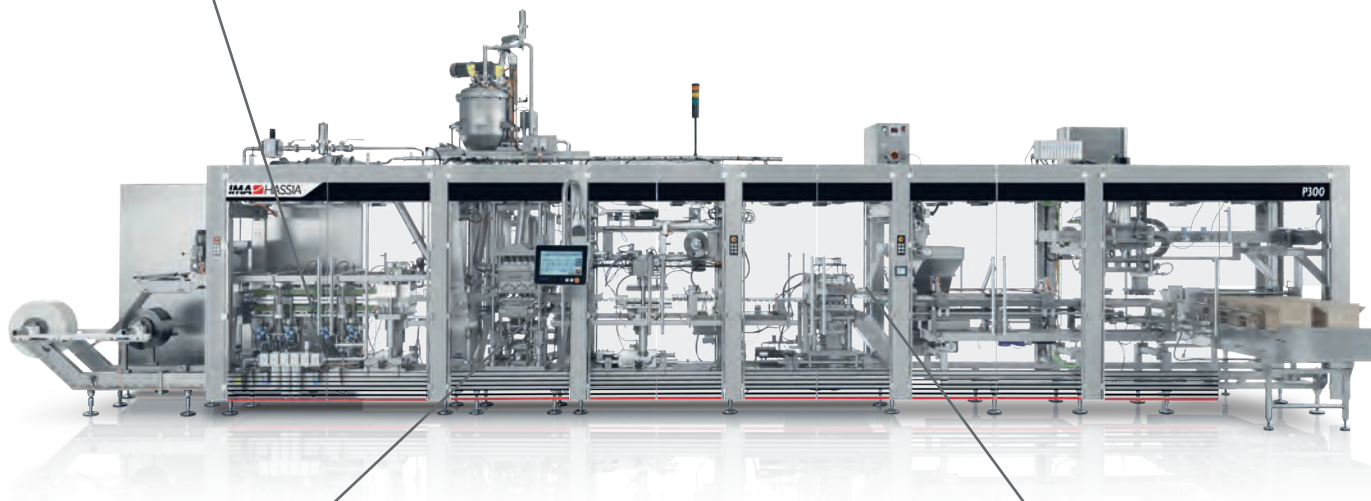


# ZERO TECHNOLOGY®



## HEATING PLATES:

- 3 part heating plates
- Removable system for simple maintenance
- Reduced maintenance costs

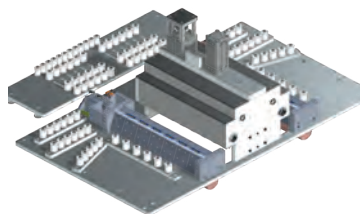


## FORMING MOULDS:

- Advanced cooling system
- Format flexible (independent sleeves)
- Removable lid
- More stability due to better shaped cups
- Easy cleaning and maintenance

## LABELLING:

- IML (in-mould labelling)
- Conical labelling
- 2 label heights with easy format change
- Sticker



## PUNCH:

- Mobile cutting elements; all elements are interchangeable
- Knives can be adjusted to the web thickness in a short time
- Smaller change magazine - easier to change
- Knives and four stars stamps interchangeable

# SECONDARY- AND END-OF-LINE SOLUTIONS

## IMA HAS A LONG TRADITION OF DESIGNING AND MANUFACTURING END-OF-LINE MACHINES

Discover our comprehensive range of secondary and end-of-line packaging solutions to put the finishing touches to your product. Thanks to our in-depth expertise in advanced automation, we can offer you a comprehensive range of solutions for robotic handling, cartoning, multipack and sleeving, forming, loading and sealing, wrapping, stretch wrapping, shrink wrapping, case packing, palletizing and depalletizing. Printing and labelling systems as well as modular labelling machines for self-adhesive labels complete our range and help to meet almost all label application requirements.



### ■ CARTONING AND FORMING, LOADING, CLOSING MACHINES

Our solutions cover cartoning from pre-glued blanks and forming, loading, and closing operations from flat blanks, accommodating all product types, shapes, and sizes into various carton configurations, including display boxes. Additionally forming, loading, and closing operations can be seamlessly integrated with a case packer station, offering a compact solution within a single frame.

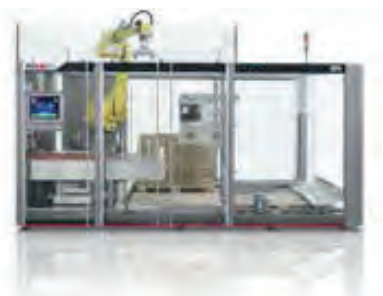
### ■ MULTIPACK AND SLEEVEING MACHINES

Multipack and sleeving systems place rigid packages and thermoformed containers into cluster packs and sleeves. Sleeving systems can also be integrated with a case packer to fit areas with space constraints, offering a comprehensive solution for diverse operational needs.



### ■ VERTICAL CARTONING MACHINES

Compact vertical cartoning machines designed to handle various styles of carton packs. Capable of being connected with all the possible product feeding systems such as counting, volumetric or weighing units, these machines are designed for modular configuration as well as high-speed operation. In addition, IMA has the know-how and experience to provide our customers with a full consultancy service - from the design phase through to end-of-line equipment - helping them create a new, smart and sustainable pack.



## ■ CASE PACKING MACHINES

## ■ PALLETIZERS AND DEPALLETIZERS

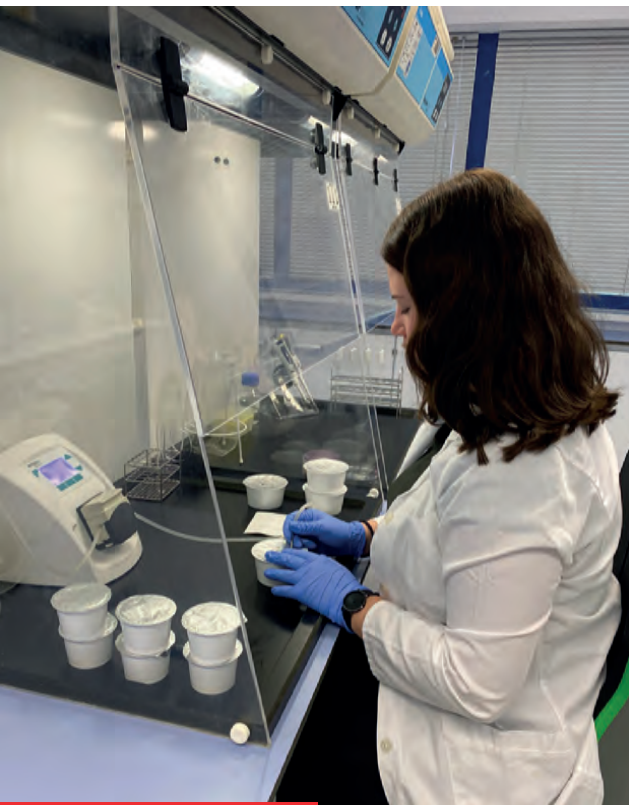


A wide range of side, top loading and wrap around case packers is available to handle all types of products and shapes. For each specific application and speed, we provide the best solution to pack either individual or bundled products into cases, display boxes or trays. Our case packers can be integrated with palletizing solutions in a compact structure.

Available in several versions ranging from basic applications, such as manual pallet loading, up to more sophisticated solutions, such as automatic feeding of empty pallets and unloading of full pallets, palletizers have a solid structure and use precise, rapid multi-axis robotized systems for accurate positioning of products on pallets.



# ASEPTIC COMPETENCE CENTER



The increased demands of consumers for extended shelf life of sensitive products without the use of preservatives were the reason for our group to establish an Aseptic Competence Center at the Ranstadt site.

Our companies can look back on around 50 years of experience in the aseptic sector and we have had our own laboratory since the late 1990s. In order to offer our customers more security regarding aseptic packaging and thus longer shelf life of their products, we have established our Aseptic Competence Center, which enables us to offer a complete solution from the planning and design of a packaging system to approval.

Our interdisciplinary aseptic team has experience in the fields of process engineering, microbiology, food technology as well as hygienic and aseptic filling systems.

## MORE THAN 50 YEARS ASEPTIC COMPETENCE

**IMA ERCA**  
Filling and Packaging Solutions

**IMA GASTI**  
Filling and Packaging Solutions

**IMA HASSIA**  
Filling and Packaging Solutions

Delivery  
1. aseptic  
FFS machine

Delivery  
1. aseptic  
FS machine

Aseptic  
laboratory set-up

1970

1974

1977

1985

1999

2017

Delivery  
1. aseptic  
FS machine

Delivery  
1. aseptic  
FFS machine

Certification  
Aseptic Labora-  
tory **BSL II**

**IMA HASSIA**  
HAMBURG

**IMA HASSIA**  
Filling and Packaging Solutions

**IMA HASSIA**  
Filling and Packaging Solutions



# OUR SERVICES

- Pre-engineering and microbiological pre-tests
- Validation of new machines according to VDMA, GMP and FDA standards
- On-site advice and support for the HACCP concept
- Optimization and re-validation of existing machines
- Clean room classification
- Microbiological environmental monitoring
- Checking and optimizing the cleaning success (CIP)
- Contamination, preparation and evaluation of samples

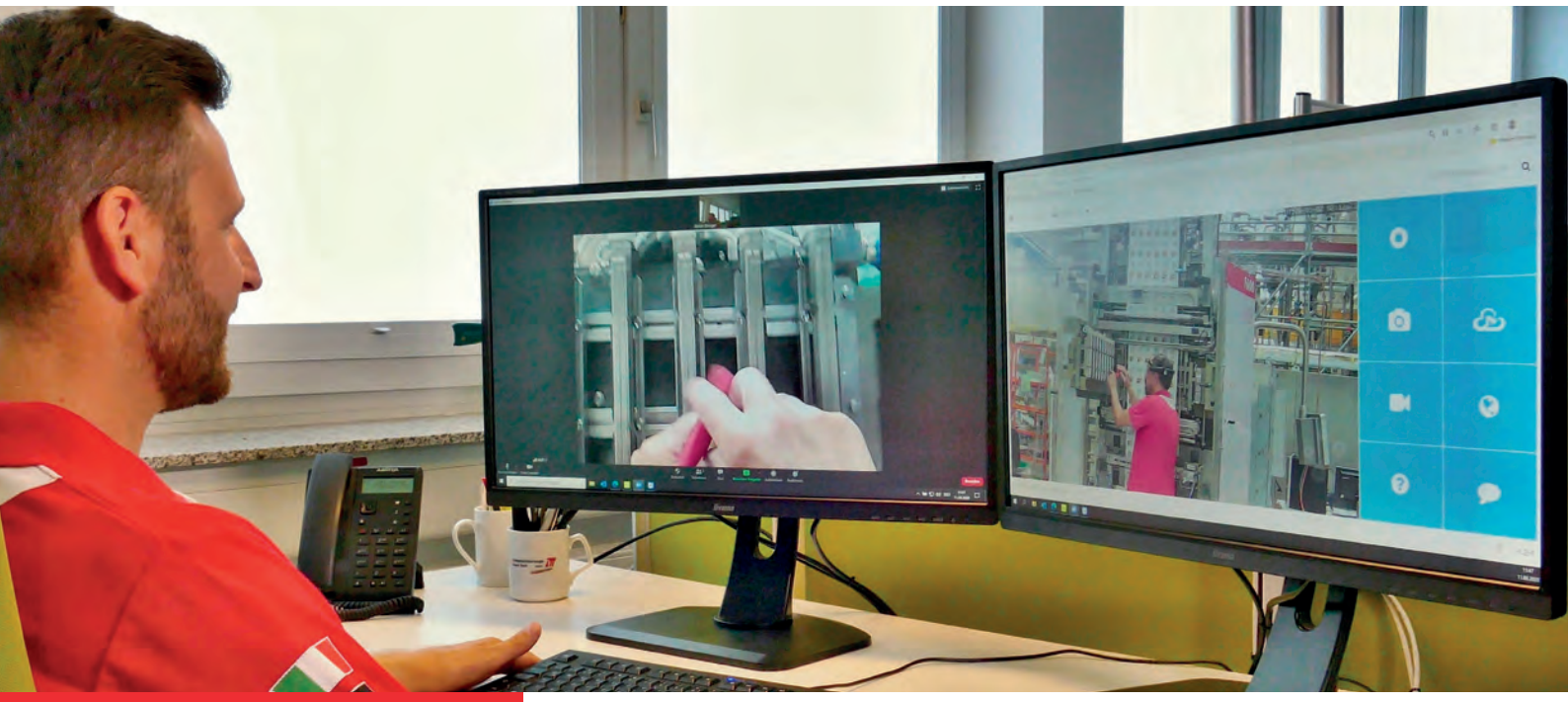


## YOUR ADVANTAGES AT A GLANCE

- We offer a complete package from a single source
- Our specialists analyze all samples for you in our certified biosafety level II laboratory in Ranstadt
- Our certificate is your proof of hygienic and safe filling processes in your company
- We carry out customer-specific tests
- We advise and support you in dealing with regulatory requirements
- We give you more security for your product quality and production processes



# ONE PARTNER FOR ALL YOUR REQUIREMENTS



## WE SUPPORT OUR CUSTOMERS AT ALL LEVELS

Starting with intensive support during the development phase before defining the packaging solution up to the complete technical assistance at the customer's site during the entire lifetime of the machine.

A team of experts is available to respond to any mechanical or electrical issues and skilled engineers and service technicians are available at IMA branches worldwide. In order to assure the highest level of technical assistance, all IMA service technicians are fully trained and kept constantly up to date with the latest technical developments in their sector.

Having locally based service technicians brings IMA closer to the customer. This gives greater insight into real production requirements and specific market needs, and leads to more appropriate solutions that can also be achieved by customization wherever necessary.

Our remote service assistance enables instant and secure connection between the customer's equipment and our support team who can quickly view, diagnose and troubleshoot.

Investment in IMA machinery is a sound choice as existing machines are open to upgrading with new technologies.

## TECHNOLOGICAL IMPROVEMENTS

- Conversions
- Retrofits
- Machine overhauls
- Used machines
- Replacement of obsolete technology
- Service contracts



## OPERATIONAL SUPPORT

- Customer service
- Spare parts
- Maintenance contracts
- Remote service
- Relocation



## PRODUCTIVITY IMPROVEMENT

- Auditing
- Training courses
- Operational support
- Consulting





# IMA - GROUP



IMA Group is world leader in the design and manufacture of automatic machines for the processing and packaging of pharmaceutical, personal care, food, tea and coffee products.

The group is present in about 80 countries, supported by a sales network made up of 29 branches representative offices in Central-Eastern Europe and more than 50 agents.

IMA Group has production plants in Italy, Germany, France, Switzerland, Spain, the UK, the USA, India, Malaysia, China and Argentina.

In planning its strategies, the group takes into account the economic, social and environmental impact of its operations, adhering the principles of sustainable growth and Corporate Social Responsibility.

## IMA DAIRY & FOOD

As part of the Italian IMA Group, IMA DAIRY & FOOD is one of the world's leading suppliers of packaging machines, technology and services for the dairy and food industry.

With its German headquarters in Ranstadt, the company develops, produces and sells both individual machines and complete packaging lines at five production sites in Europe and through its own sales and service companies.

IMA DAIRY & FOOD employs more than 500 people worldwide.

# IMA BRANDS OFFERING FFS SOLUTIONS FOR CUPS



Filling and Packaging Solutions

## Erca S.A.S.

11 Avenue des Andes  
Zone d'Activités de Courtaboeuf  
91940 Les Ulis - France  
Tel. +33 169 828 000



Filling and Packaging Solutions

## Hassia Verpackungsmaschinen GmbH

Heegweg 19  
63691 Ranstadt - Germany  
Tel. +49 6041 81 0



Filling and Packaging Solutions

## INTECMA S.A.

Calle Narcís Monturiol, 21-25  
08960 Sant Just Desvern (Barcelona) - Spain  
Tel. +34 93 499 0184



## SALES & SERVICE SUBSIDIARIES



ASIA PACIFIC

### IMA Dairy & Food Asia Pacific Sdn. Bhd.

Bandar Seri Damansara  
Ativo Plaza B-3-12  
52200 Kuala Lumpur - Malaysia  
Tel. +60 3 6732 1988



RUSSIA

### OOO IMA Dairy & Food Russia

Finlyandsky avenue, 4A  
BC Petrovsky Fort, office 617  
194044, Saint-Petersburg - Russia  
Tel. +7 981 173 88 29



SPAIN & PORTUGAL

### IMA Dairy & Food Spain and Portugal S.A.

C/Llobatona, 44  
08840 Viladecans, Barcelona - Spain  
Tel. +34 93 662 38 00



UK & IRELAND

### IMA Dairy & Food UK Ltd.

Retford Enterprise Centre - Randall Way  
Retford DN22 7GR - United Kingdom  
Tel. +44 177 771 26 32



NORTH AMERICA

### IMA Dairy & Food USA, Inc.

7, New Lancaster Road  
Leominster - MA 01453 - U.S.A.  
Tel. +1 978 227 1210

### CT Pack LTDA

Avenida Rio Branco 37 GRP 1203  
Rio de Janeiro 20090-003 - Brazil  
Tel. +55 21 97876 1405

ima.it

**IMA Dairy & Food Holding GmbH**  
Heegweg 19  
63691 Ranstadt - Germany  
Tel. +49 6041 81 0  
info.dairyfood@ima.it

FOLLOW IMA    

