

The background of the entire page is a photograph of a modern industrial factory floor. It features a complex network of machinery, including robotic arms, conveyor belts, and various mechanical components. The lighting is bright, highlighting the metallic surfaces and the organized layout of the production area. In the upper right, there is a white rectangular box containing the company logo and name.

**mespack**

A DURAVANT COMPANY

# Innovative Packaging Solutions for a Green World

# Mespack promise

Our mission is to create long-term relationships that offer added value and growth, to both our customers and partners. We contribute and preserve the environment by

developing more sustainable packaging solutions for a greener world. In this respect, at Mespack, we are guided by the following pillars:



# Live the journey of excellence with us

30 years ago, Mespac began a journey on which we are still embarking today. On this journey, we step forward, day after day, giving our best and demonstrating our talent. With each milestone we pass and slope we climb, we are guided by our determination to serve, which is the foundation of the trust our clients have in us. During our journey, we take our clients' quality standards and turn them into results. This is what we call The Journey of Excellence.

We, at Mespac, believe that excellence is a voyage, not an objective, and even less so, a destination. Our belief is if excellence were a destination, our first action upon arrival be to stop: this is the last thing we want to do. For this exact reason, we are in constant and indefinite movement. Excellence is a journey.

We have the most talented and experienced team with a winning spirit that prepared to provide the perfect packaging solution to meet the needs of our customers. We certainly believe that every collaborator contributes to our direct success and that of our customers. Furthermore, we offer an abundance of opportunities for personal growth, as well as the training to reach this point, while labouring together with a committed team that works diligently every day to succeed in the most challenging projects. We learn together with our customers, living the journey of excellence offered by the innovative-centric nature of flexible packaging.





**Headquartered in Barcelona, Spain, Mespac is an international manufacturer of flexible packaging, end-of-line and water soluble pods equipment for consumer packaged goods companies serving the world's leading brands.**

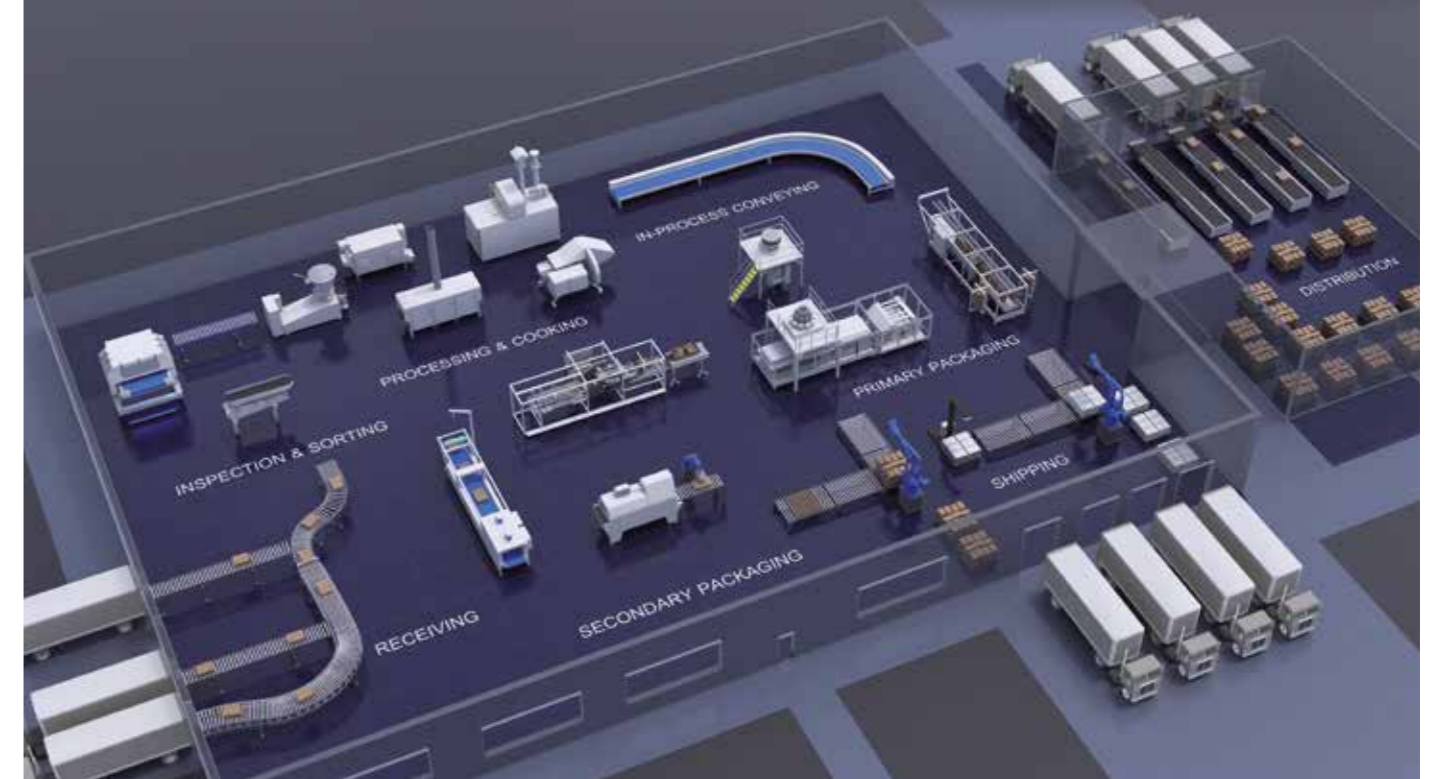
Recognized as a highly innovative company, and strongly committed to developing machinery to make sustainable packaging solutions, Mespac has the largest product portfolio of the industry, offering water soluble pods, Horizontal and Vertical Form, Fill and Seal, and end-of-line equipment. Consequently, we have become a strong and reliable one-stop-shop player with premium services worldwide.

The company has sales network teams in over 90 countries and regional service centers that provide immediate and expedited access to parts, as well as time-minimizing solutions. Mespac serves the food and beverage, pharmaceutical, chemical, pet food, confectionery, cosmetic, and personal care markets.

We have more than 17.700m<sup>2</sup> divided into three production centers: one in Santa Perpètua de Mogoda (Spain), in Wood Dale (IL, USA) and in Vadodara (India). Furthermore, we have commercial offices in France, India, China, Thailand, Argentina, Brazil, Colombia, Mexico and Guatemala.



With the use of a laboratory environment, our **Mespac Innovation Center (MIC)** is focused on researching and testing new materials such as paper and mono-material structures, which are recyclable ready, recycled, or compostable. We collaborate with our customers and a group of stellar partners to develop sustainable packaging applications, turning our work into a true co-creation. The MIC is equipped with the most state-of-the-art equipment, as well as technicians who are specialized in flexible packaging and able to adapt machines in accordance with the requirements of our customer, thus eliminating the need for them to stop production and meeting their objectives.



## Delivering global solutions in food processing, packaging and material handling



Mespac belongs to **Duravant**, a global engineered equipment company with manufacturing, sales, and service facilities throughout North America, Europe, and Asia. Given their portfolio of operating companies, Duravant successfully delivers trusted end-to-end process solutions to customers and partners through engineering and integration expertise, project management, and operational excellence.

With worldwide sales distribution and service networks, Duravant provides immediate and lifetime aftermarket support to all the sectors it serves in the food processing, packaging and material handling industries. Duravant's market-leading brands are synonymous with innovation, durability, and reliability.

### The Duravant Family of Operating Companies:



# Primary and secondary packaging solutions for all industries

## Food

Mespack provides flexible format packaging solutions for coffee, candy, chocolate, snacks, and many other products. In regard to hygiene, safety, waste reduction, and flexibility, Mespack's packaging range is designed to the highest standards. This has resulted in some of the company's most important packaging features.



## Pharmaceuticals

For an exceptionally strategic industry, such as pharmaceuticals, Mespack has unique packaging solutions that allow you to remain ahead of your competitors.



## Beverage

Mespack provides a wide range of solutions for the beverage industry, from doypacks with top or corner spout to straws for ready-to-drink beverages.



## Pet Food

Mespack packaging solutions for pet food are a response to the recent demand increase of these products. As a result of this enormous growth over the past years, there has also been an increase in reference to the number of visible competitors within this sector.



## Personal Care

Mespack's personal care packaging solutions feature a line of horizontal form, fill, and seal packaging machinery that is equipped to produce a wide range of personal care products. As a result of their upgrade possibilities, these machines fulfill the current and future requirements of the industry.

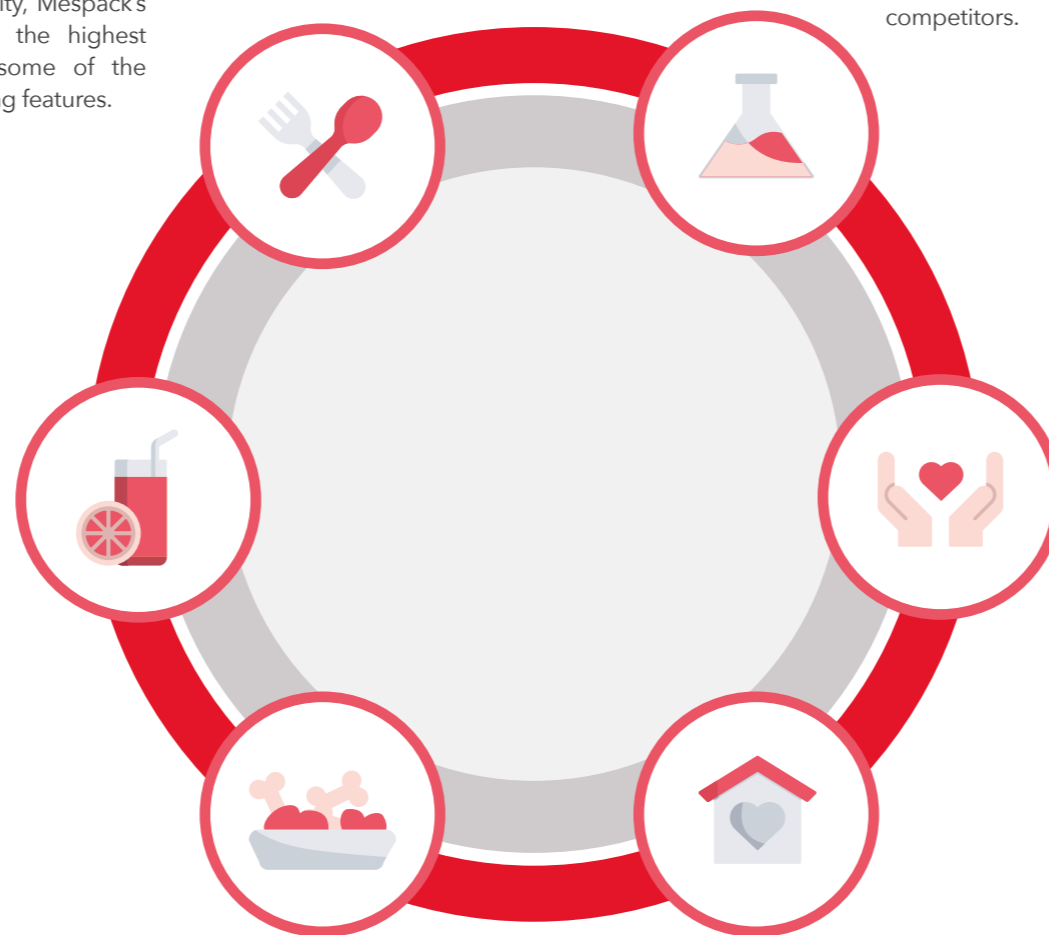


## Home Care

The home care packaging solutions of Mespack offer process efficiency and flexibility, with respect to all the necessary adaptability requirements.



Mespack offers solutions to other industries as well, including lawn and garden, agriculture, tobacco, and automotive among others.



# Enabling green packaging for a green world

At Mespac we are strongly committed to developing innovative equipment for sustainable packaging solutions. For this reason we have defined 'The Mespac 6R Strategy' to assist our customers in the pursuit of their sustainability goals with an holistic approach that comprises:



**REDUCING**  
the usage of packaging materials per packed unit



**REPLACING**  
traditional materials to recyclable, PCR or compostable materials



**REENGINEERING**  
new equipment for new materials and higher OEE



**REMOVING**  
the packaging materials associated with the use of the product



**RETROFITTING**  
install base with technology for new materials and higher OEE



**REUSING**  
to avoid single-use plastic packaging

## REDUCING the usage of raw material



Reduction of headspace in continuous filling equipment,



Laser cut usage reduces maintenance and film material by a minimum of 3%.



Changing from rigid to flexible packaging can save up to 70% of plastic.

## REPLACING materials with more sustainable solutions



### Recyclable Ready

- Polyolefins
- Mono PE
- Mono PP



### Recycled

- Contains at least 20-30% of recycled materials



### Biodegradable or Compostable

- PHA
- PHB
- PLA
- Paper

## REENGINEERING technology for new materials and higher OEE



New and reliable sealing technology is used for sustainable materials.

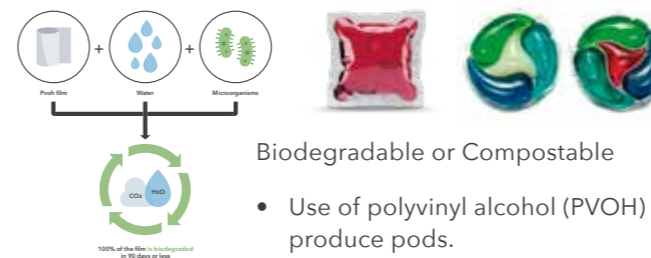


Quick changeovers reduce time and material waste when the format is changed.



Less energy-consumption and highly efficient machines help to minimize the carbon footprint of the industry.

## REMOVING the packaging materials associated with the product use



Biodegradable or Compostable

- Use of polyvinyl alcohol (PVOH) to produce pods.
- According to the American Cleaning Institute, at least 60% of the film biodegrades within 28 days, and 100% of the film decomposes in 90 days or less.

## REUSING to avoid single-use plastic packaging

Constantly innovating our packaging formats in order to save plastic waste.



## RETROFITTING installation base with technology for new materials and higher OEE

With over 3,500 machines on the market, we have designed an extended number of retrofits to adapt Mespac equipment to new materials with higher OEE. Discover more about our retrofit kit for recyclable materials:

- Special alloy sealing jaws
- Bottom jaw cooling and triple point pointer
- Bottom perforator with larger stroke
- Sealing station air cooler

# Innovative packaging for our future world

**At Mespac, we follow the principles of open innovation in order to design the best solutions, regarding innovative packaging for our customers. The entire Mespac team, together with our key customers and partners, work together to develop the most challenging projects.**

Innovation is part of Mespac's DNA, and in the past years, we have strongly reinforced this commitment by following an innovation roadmap with a clear vision toward the future of flexible packaging. Furthermore, we encourage entrepreneurship within every Mespac team, which adds high value, as a result of their knowledge and years of experience in this sector.

Although this open innovation philosophy takes place at many numerous geographical points, where the essence of Mespac is present, it is physically and visibly represented at our Mespac Innovation Centre (MIC). This centre is an inspirational area where we profoundly labour over projects of recyclable material, automation, and digitization, thus optimizing the efficiency of our solutions and developing new projects to expand our current portfolio.



## The Advantages of Developing a Project at the MIC

- Develop and Test New Packaging Formats
- Capability of Testing Liquid and Powder Materials
- Validation of Recyclable and New Materials
- Conduct Pilot Production and Process Optimization
- Obtain Standard and Comparable Test Results
- Foster Collaborative Innovation
- Guaranteed Confidentiality
- Significant Cost Savings: Avoiding Interruptions in Regular Operations

## Mespac Innovation Centre

The Mespac Innovation Centre is a facility focused on develop innovative projects that, with the assistance of key partners of the flexible packaging sector, satisfies the most challenging demands for constant market development. It has the most state-of-the-art packaging lines, which are fully available to test recyclable materials and various packaging solutions that fit best for our customers.



We encourage you to contact us to cocreate your customized project and learn more about our state-of-the-art equipment.

## Joining Forces with Stellar Partners

Following the foundation of open innovation, we collaborate with key partners of the flexible packaging sector, in order to develop challenging projects. Solely, by working closely with a plethora of experts, we are able to collectively achieve innovative and sustainable goals.

### Materials:



### Films:



### Fitments and closures:



### Components:



### Auxiliary equipment:



# The new era of Smart Machines

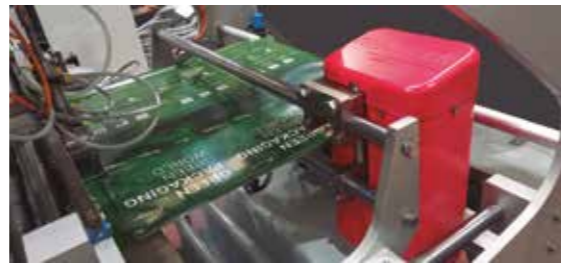
The term 'Smart Machine' implies an equipment that is better connected, more flexible, more efficient, and safe. Based upon a collection of smart, connected products, it maximizes efficiency via intuitive collaboration with its users.



Autopilot

**Autopilot** is Mespac's new state of the art technology that allows the machine to automatically adjust the optimum operating temperature and pressure parameters (depending on the type of recyclable film).

- Less changeover time
- Highly skilled operators are NOT required
- Online reel control for interior variation
- Operator's require less labor hours for testing new material



Autosplicer

**Autosplicer** is an automatic splicing technology that was developed to avoid machine downtime and reduce material waste during roll changes.

- Save 5 to 10 minutes for every 2 hours of production
- Reduce the operator's working hours in format changes
- Highly skilled operators are NOT required



Advanced Maintenance

**Advance Maintenance.** Predictive maintenance analyzes the condition of the piece based on its operation, wear, and tear; it is able to predict forthcoming breakdown. Preventive maintenance pertains to the periodic performance of scheduled maintenance according to the useful life of each part in order to avoid breakdowns and production downtime.



Autochangeover

**Autochangeover** allows an automatic changeover of the pouch format, thus helping to reduce machine downtime and increase the changeover accuracy.

- Reduces material waste in machine adjustment
- Reduces up to 20-40% in changeover time
- Reduces the operator's labor hours in format changes
- Highly skilled operators are NOT required



Recyclable Ready

**Recyclable Ready** Mespac machines are designed to be easily adaptable to operate with recyclable of compostable material and paper. They have the ability to not only work with both new materials and traditional laminates, but also maintain efficiency and consistently guarantee superior performance.



Athena Inside

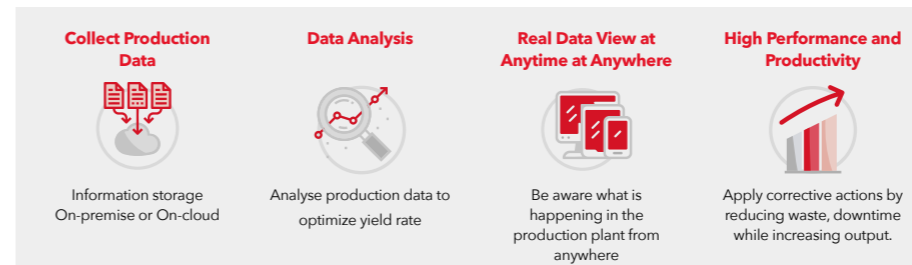
**Athena** is a powerful digital platform designed to help you maximize the value of your production data. It not only combines machine control and advanced data analytics into one solution, but also fully complies with industry regulations and standards, including 21 CFR Part 11. As a result, Athena is prepared to support pharmaceutical customers and other highly regulated industries.

The intuitive machine control of Athena empowers operators to improve machine efficiency on the shop floor. Its robust data analytics tools assist users to better understand performance trends, identify opportunities for process optimization, and make informed decisions to boost machine productivity.



Connectivity

**Connectivity** is possible thanks to Athena Cloud. You can have production data visibility at any time and anywhere around the World. Furthermore, several machines in the same or different production plants can be supervised from any device such as a PC, tablet, or mobile phone, enabling comparisons across machines or plants and receiving production alerts.



## Data analyst and machine control

Collects real time data from the machine and stores it for analysis through an intuitive dashboards. It supports to our customers in making more reasonable and better business decisions, as well as optimizing the performance of their machines.

## Savings and productivity improvement

- Reduce Unplanned Downtime by up to 30%
- Reduce Rejects by up to 15%
- Cut Scrap by up to 3.5%
- Boost your Productivity by up to 4%
- Reduce maintenance costs by up to 200 hours per year



Hello Mespac

**Hello Mespac** allows you to get immediate remote assistance from our Technical Support team. Get support when you need it, by selecting your preferred time-frame, and directly from the machine.



# Lifecycle Services



## Building Partnerships. Maximizing Value.

At Mespac, we are here to help you maximize productivity and profit through optimal equipment and process performance. Industry-best quality and technology are key, but it only starts there. Real, meaningful value is created over the full lifecycle of the solution. This is what the Duravant Lifecycle Services network is designed to deliver.

**PARTS**  
Spare Parts  
Accessories  
& Consumables  
Repair & Refurbishment

**SERVICE**  
Preventive Maintenance  
Field Services  
Technical Support  
& Commissioning  
Used Equipment  
Applications Support

**PRODUCTIVITY**  
Training  
Service Plans  
Audits  
Hello Mespac  
Upgrades & Retrofits  
Project Management

**CONNECTIVITY**  
Mespac Athena  
Remote Monitoring

### 24/7 Support - Hello Mespac

Mespac customers can gain access to our Helpdesk Technicians with or without a support contract in place. We continue to make it easier for our customers to reach the support they need to keep their assets working to their full potential. If network security protocols allow, our technicians can remote into the system and assist in diagnosing faults. Our 24/7 support allows you to engage with an expert to help answer your questions. You can also connect through the machine with the HELLO MESPAC, a system in which by selecting the time you prefer according to your time zone, you can lively connect with Mespac Support service.

## Productivity

### Supporting Your Success.

We design our aftermarket programs to deliver results -from enhancing equipment maintenance and long-term viability to improving operator and plant manager productivity -efficiently and cost effectively.

- TRAINING**
- SERVICE PLANS**
- HELLO MESPAC**
- UPGRADES & RETROFITS**
- PROJECT MANAGEMENT**
- PRODUCTIVITY PROGRAMS**



## Parts

### Delivering the essentials.

Having a spare part when and where you need it; staying on top of consumables and scheduled maintenance; consistent, reliable and responsive repairs; timely refurbishment—these are the essentials that make the difference in maximizing equipment uptime and longevity. Duravant Lifecycle Services has it all.

- SPARE PARTS**
- REPAIR & REFURBISHMENT**
- ACCESSORIES & CONSUMABLES**
- PART KITS**



## Service

Your Mespac equipment and systems are major investments that demand safeguarding. That's why we have always gone the extra mile to help optimize equipment performance. Whatever your product or process, challenges or opportunities, count on us to provide the right aftermarket services to help you get the most out of your investment.

- PREVENTIVE MAINTENANCE**
- TECHNICAL SUPPORT**
- APPLICATIONS SUPPORT**
- FIELD SERVICES**
- INSTALLATION & COMMISSIONING**
- PRE-OWNED EQUIPMENT REGISTRATION**



## Connectivity

### Connecting your equipment and processes.

To support the digital transformation in the packaging industry, we have developed Mespac Athena, which emerges as the ultimate game-changer by seamlessly integrating machine control and data analysis functionalities into an intuitive user interface.

- MESPAC ATHENA**
- REMOTE MONITORING AND SUPPORT**



**Duravant Lifecycle Services** enables us to leverage all Duravant companies' collective strengths to drive continuous improvement in our aftermarket offerings without requiring major effort or changes on your part. That's value that strengthens Mespac as a partner and bolsters our ability to support your success. The best kind of value.

Learn more. Contact us today. [service@mespack.com](mailto:service@mespack.com)



# Your partner with the largest and most innovative portfolio

At Mespac, we have the most talented and experienced engineering team to design and provide customized integrated solutions, from the primary and secondary packaging to end-of-line. Furthermore, as a result of our knowledge and years of experience, we offer the best machines that suit the project requirements and deadlines of our customers.

We diligently perform our duties in order to show our long-term reliability and foster lasting customer relationships. To achieve this, we design and manufacture our equipment with high durability. In regard to standards, Mespac is internationally certified for quality management systems. Our improvement, regarding our team and innovative solutions among others, is continual, in order to meet the needs of our customers and guarantee relationships with our stakeholders.

## Primary Packaging



H Series



HSC Series



HMRSC Series



Ultra-High Speed Series



HF Series



IMH Series



HCM / HIM Series



MS Series



MSPH Series



ML Series

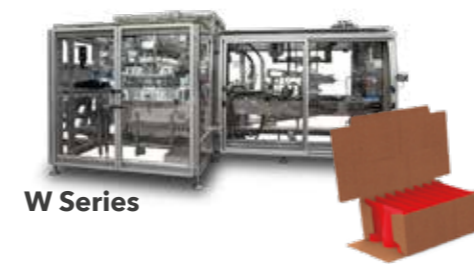


Hydroforma Series



Hydroforma FB Series

## Secondary Packaging



W Series



EF Series



MCP Series

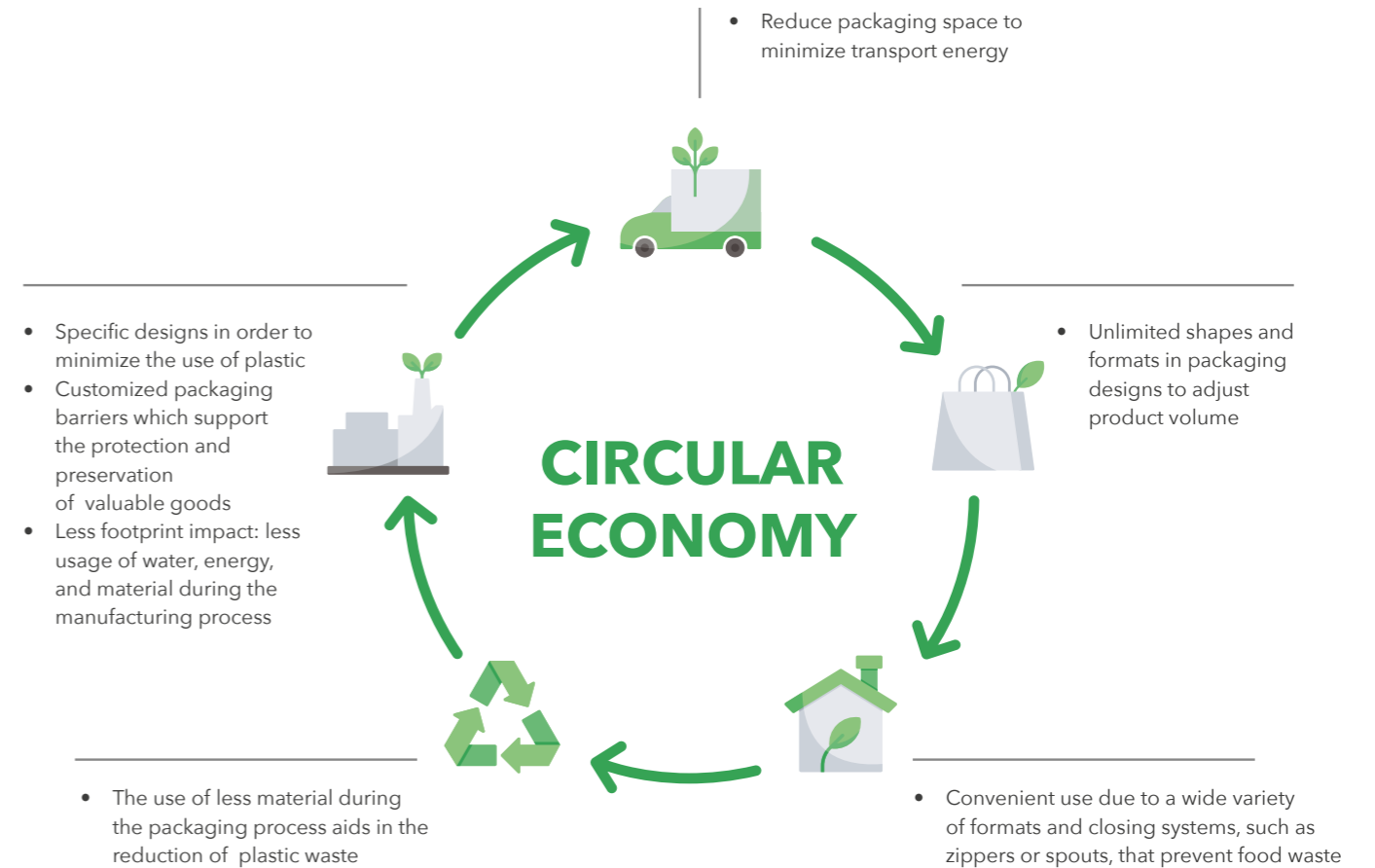




# Primary and secondary packaging

## Advantages of sustainable flexible packaging

At Mespac we are focused on assisting our customers, FMCG brands, to reduce their environmental footprint by converting high value consumer goods packed in rigid containers into flexible packaging. This mindset change maximizes their profits, and reduces the use of material, while simultaneously acquiring high efficiency and reliability. Mespac guarantees sustainable packaging made with recyclable, recycled, and biodegradable materials.



Flexible packaging is a driving force in regard to sustainability. It is not only designed for recycling, but also to contribute to the circular economy, with the minimization of resources and raw materials during the manufacturing process. The use of more sustainable materials, minimizing food waste, guaranteeing product conservation, and by having agreements with waste and treatment collection companies, promote a circular economy.

**When customizing packaging, we assist you in finding the best option that best fits your needs. Find out more in the largest equipment portfolio.**



# Horizontal H Series

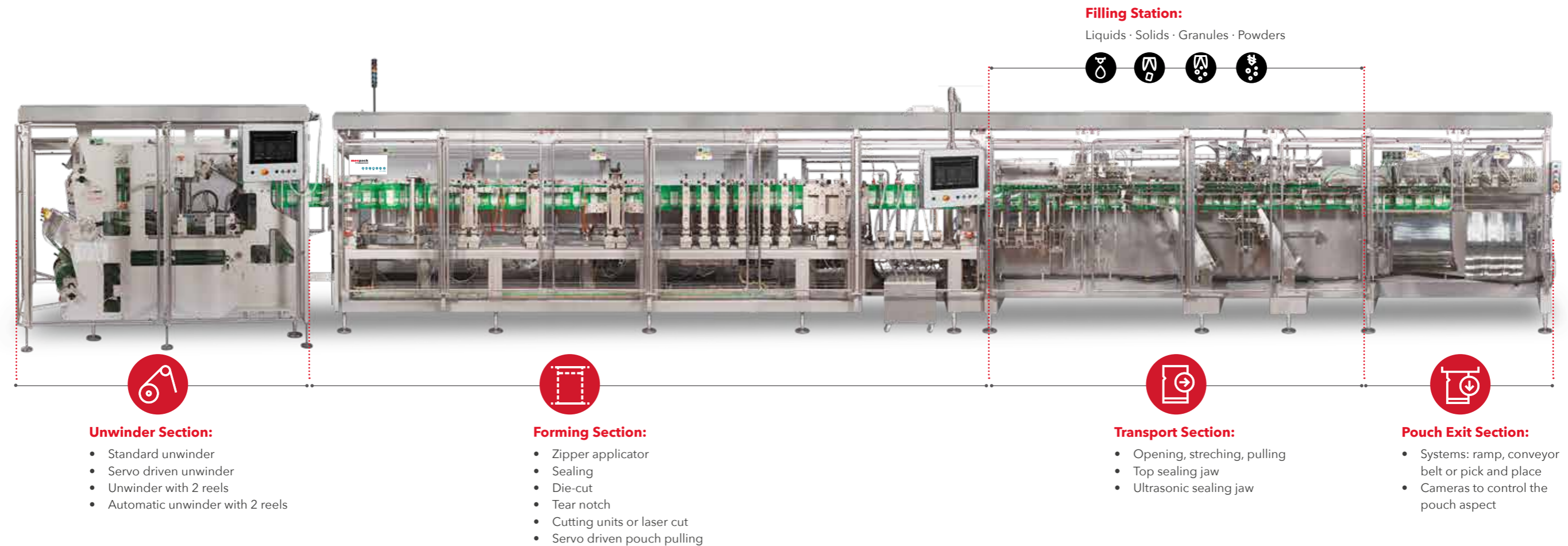
## MODELS

**H700, H640, H570, H540, H480, H440, H420, H360, H330, H320, H280, H260, H220, H180, H170, H150, H145, H140, H130, H100**

**The H Series is remarkable for its modularity and flexibility, and it is capable of producing different shapes and presentations**

The H Series is composed of 19 different HFFS machines with multiple versions, which enables the Mespac team to offer the most suitable model to our customers. Our machines are made with a modular construction and have common parts, excluding the main frame, which facilitates the storage of spare parts. The main frame can be supplied with all types of fillers and accessories. The machines of this new generation are of robust construction, user friendly, and proven to be straightforward to operate and maintain. The H Series is remarkable for its flexibility

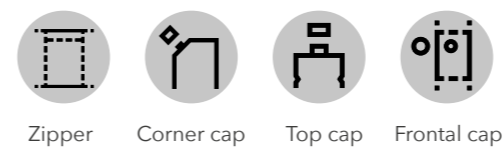
and the possibility of producing various shapes and pack presentations: flat or stand-up pouches, cap fitments for easy product pouring, straw attachments for soft drinks beverages, reclosable zipper systems, among others. A vast number of different fillers are available, such as augers and volumetric fillers, flowmeters, weighers, as well as other customized dosing systems. Product protection is also a priority; we have several solutions for gas flushing to minimize the residual oxygen contents in the pack and CIP or SIP cleaning systems.



### Packaging Formats



### Closures Applications



### Smart Functions



# Horizontal H Series

## Sealing Stations



Our experience in flexible packaging has allowed us to offer a quick changeover system for sealers, which reduces the adjustment time. Furthermore, our sealing groups are able to work with various materials, thus obtaining optimum quality with minimum energy consumption.

## Filling Stations



To maximize production in small spaces, the H Series offers the possibility of adding several filling stations. Consequently, the production speed can be increased.

## Shaped Pouches



The various Mespac total and partial die-cuts, such as tear notch, eurohole, hole punch, double scissors, laser cut, round edges, among others, offer a wide possibility to personalize and make a variety of pouch designs.

## Main Standard Features

- 18.5" color touch screen
- Independent unwind system with autosplice features (optional)
- Automatic adjustment control of seal jaws position (optional)
- Automatic hole punch correction system for stand up pouches
- Servo driven change over system for plough formation
- 3 to 5 different filling stations
- Cam driven walking beam (for big formats)
- Static pouch stretching prior to sealing
- Pouch reject station

- PLC automatic lubrication system (optional)
- Roller servo driven stroke indexing system
- Ultra-clean versions (optional)
- Laser, inkjet or printer coder (optional)
- ATEX compliance (optional)
- Film sterilization system (optional)
- Laminar flow (optional)
- MAP (Modified Atmosphere Packaging)
- Ultrasonic sealing (optional)

## Technical Specifications



MACHINE	AxB MIN (mm)	AxB MAX (mm)	C MIN-MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING STATION
H700 3	120x150	230x400		2750	135	2
H700 4	120x150	175x400		1750	150	2
H700 FET	120x150	230x400	40-150	3500	120	2
H700 FEQ	120x150	175x400	40-150	2250	150	2
H640 3	120x150	210x400		2500	165	2
H640 4	120x150	160x400		1500	220	2
H640 FET	120x150	210x400	40-150	3000	150	2
H640 FEQ	120x150	160x400	40-150	1800	200	2
H570 D	150x200	285x400		4000	120-140	2
H570 3	120x150	190x400		2000	180-210	2
H570 FED	150x200	285x400	40-150	5500	100-120	2
H570 FET	120x150	190x400	40-150	2500	150-180	2
H570 FEQ	120x150	140x400	40-150	1000	200-220	2
H540 FE6	80x50	90x240	40-50	200	300	1
H480 3	80x100	160x300		500	180	3
H480 4	80x100	120x300		400	240	3
H480 FET	80x100	160x300	40 - 70	1000	180	3
H480 FEQ	80x100	120x300	40 - 70	500	240	3
H440 FET	80x100	145x300	40-70	850	180	3
H440 FEQ	80x100	110x300	40-50	400	240	3
H440 3	80x100	145x300		350	180	3
H440 4	80x100	110x300		300	240	3
H440 FED	80x100	220x300	40-70	1000	120	3
H420 S	120x150	420x400		5000	55-60	3
H420 D	120x150	210x400		1500	110-120	3
H420 FE	120x150	420x400	40-150	10000	55-60	3
H420 FED	120x150	210x400	40-150	2500	110-120	3
H420 FET	120x150	140x400	40-150	1500	150	3
H420 FEQ	105x150	105x400	40-150	1000	200	3
H360 S	120x150	360x300		2000	70	3
H360 D	90x100	180x300		1000	140	3
H360 FE	120x150	360x300	40-120	3000	60-65	3
H360 FED	90x100	180x300	40-120	1500	120-130	3
H360 FET	80x100	120x300	40-70	750	180-195	3
H360 FEQ	70x100	90x300	40-50	350	240-260	3
H360 3	50x50	120x240		300	240	2
H360 4	50x50	90x240		250	320	2

MACHINE	AxB MIN (mm)	AxB MAX (mm)	C MIN-MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING STATION
H330 6	50x50	65x240		150	340	1
H330 3	50x50	110x240		600	165	1
H320 S	120x150	320x300		2000	70	3
H320 D	90x100	160x300		750	140	3
H320 FE	120x150	320x300	40-120	3000	60-65	3
H320 FED	80x100	160x300	40-120	1000	120-130	3
H320 FET	80x100	105x300	40-70	750	180-195	3
H320 FEQ	70x100	80x300	40-50	250	240-260	3
H320 3	50x50	105x240		200	240	1
H320 4	50x50	80x240		100	320	1
H280 FE	60x100	280x300	40-120	3000	70	3
H280 FED	60x100	140x300	40-120	800	140	3
H260 S	80x100	270x300		2000	75-80	5
H260 D	60x100	130x300		750	150-160	5
H260 FE	80x100	270x300	40-120	2500	65-70	5
H260 FED	70x100	130x300	40-120	750	130-140	5
H260 4	60x100	65x240		150	280	2
H220 S	80x100	220x300		1000	75-80	3
H220 D	60x100	110x300		500	150-160	3
H220 FE	80x100	220x300	40-120	2000	65-70	3
H220 FED	70x100	110x300	40-120	500	130-140	3
H180 S	70x100	190x300		1000	80-90	4
H180 D	60x100	90x300		200	160-180	4
H180 FE	70x100	190x300	40-120	1500	65-70	4
H150 S	60x80	160x300		450	80-90	4
H150 D	50x100	75x300		150	160-180	4
H150 FE	80x100	160x300	40-90	900	65-70	4
H145 FE	80x100	145x240	40-90	500	65-70	4
H145 S	60x80	150x240		350	80	4
H145 D	60x80	75x240		100	160	4
H170 S	60x60	170x200		600	100	2
H170 D	50x60	85x200		125	200	2
H170 FE	70x100	170x240	40-90	800	65-70	2
H140 S	60x60	140x200		250	100	2
H140 FE	70x100	140x240	40-90	600	65-70	2
H130 S	30x30	130x130		60	110	1
H130 D	30x30	65x130		20	220	1
H100 S	30x30	100x130		50	100	1

## Forming Triangle



The forming triangle helps fold the film in order to obtain the desired pouch form for both flat pouches as well as stand-up pouches.

## Servo Driven Index



The length and speed of the film drag is controlled by servo drives in order to increase precision, which can be directly controlled through the PLC.

## Quick Changeover



A quick changeover reduces material waste when the format is changed. The preparation of a pouch format change requires not only time, but also film and energy consumption. Both automatic and mechanic quick changeovers will reduce time, film, and energy. It is a tool-free and user-friendly operation.



## New Controls: Athena

Our objective is to ensure that the conversation between the machine and the operator is straightforward. Presently, as a result of Athena, this relationship will not only be more intuitive, but will also be highly efficient. Moreover, Athena allows us to upload data analysis to the cloud, thus enabling monitorization of the status of your machine from any location.



## Adapted to Work with Sustainable Materials

We offer a wide variety of retrofits especially designed for our H Series, allowing the machines to operate with the most challenging sustainable material.





# Horizontal HCM Series

**MODELS**  
**HCRM660, HCM420**

**The HCM is the fastest and most flexible horizontal packaging machine on the market**

The fastest and most flexible horizontal packaging machine on the market produces 60% more in comparison to a conventional HFFS machine. It combines continuous motion, capable of producing 150 pouches per minute. The HCM will allow you to present your product with the most innovative design. All

models allow the installation of top and edge cap applicators, zipper applicators, straw applicators, total inert gas chambers, as well as other customized accessories. The machine can also be supplied with any dosing system and accessory upon request.



**Continuous Motion Filling Section:**

Liquids



**Transport Section:**

- Transfer
- Pouch open and shrink
- Continuous rotary filling
- Pouch stretch
- Continuous motion top seal
- Static top sealing cooling
- Reject and exit



**Forming Section:**

- Zipper applicator
- Sealing
- Die-cut
- Tear notch
- Cutting units or laser cut
- Servo driven pouch pulling
- Sealing cameras



**Unwinder Section:**

- Standard unwinder
- Autosplicing unwinder
- Continuous unwinder

**Packaging Formats**



**Closures Applications**



Corner cap

**Smart Functions**



\* Optional



HCRM660



HCM420

# Horizontal CMR Series

**MODELS**  
**CMR1500, CMR1250, CMR1100**

**High production speed solution with industry leading efficiencies**

Mespack CMR is a continuous motion roll-stock solution, which presents multiple sealing stations, seal cooling, dual pouch clamps that grip both sides of the pouch, and a travelling top sealing unit result in superior quality pouches.

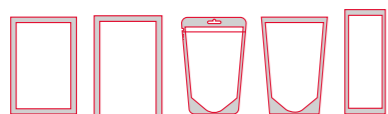
Thanks to the inherent benefits of continuous motion and our traveling funnels, the CMR solutions are capable to produce up to 200 pouches per minute.

**Continuous Motion Filling Section:**

Solids · Granules



**Packaging Formats**



**Smart Functions**



\* Optional

**Closures Applications**



Zipper



CMR

# Horizontal CMR Series, HCM Series

## Mespack Grippers Management System (HCM)



The gripper width for all sealing jaws is adjustable from the HMI via the Mespack Grippers Management System (MGMS). Auto-positioning of all the machine's rear grippers allows for perfect clearance of the filling area, as well as adequate cleaning and sanitizing.

## Sealing Stations (CMR)



Our experience in flexible packaging has allowed us to offer an automatic changeover system for sealers, which reduces adjustment time and human error. Additionally, it is a tool-less operation.

## Make your format changes in just 20 minutes



## Special Conveyor Belt (CMR)



A conveyor belt to support the space surrounding the filling area, which is specially designed for heavy pouches or products that are difficult to dose. The vibration system is also integrated into this component.

## Automatic Quick Changeover (CMR)



CMR's automatic quick changeover system allows for a quick width change from one format to another.

## Mespack HCM solutions increase liquid production speed by 30% as a result of its continuous filling system

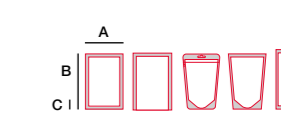


## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	C MIN-MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING STATION
<b>HCRM660 FEQ</b>	165x300	165x300	40 - 150	1.000	280	Rotary Nozzles
<b>HCM420 FED</b>	120x150	210x400	40 - 150	2.000	120	3

MACHINE	AxB MIN (mm)	AxB MAX (mm)	C MIN-MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING STATION
<b>CMR1500</b>	101,6x152,4	304,8x381	0-127	5.000	100	Traveling funnels
<b>CMR1250</b>	101,6x152,4	241,3x381	0-127	3.000	140	Traveling funnels
<b>CMRII</b>	101,6x152,4	304,8x381	0-127	5.000	140	Traveling funnels

A: Width B: High C: Gusset



## Main Standard Features

- 18.5" color touch screen
- Independent unwind system with autosplice features (optional)
- Automatic adjustment control of seal jaws position (optional)
- Automatic hole punch correction system for stand up pouches
- Servo driven change over system for forming plough
- Triple pouch opening system through vacuum, air jet & mechanical device
- Pouch reject station
- PLC automatic lubrication system
- Roller servo driven stroke indexing system
- Ultraclean versions (optional)
- Laser coders and scorers (optional)
- ATEX compliance (optional)
- Film sterilization system (optional)
- Laminar flow (optional)
- M.A.P. (Modified Atmosphere Packaging)
- Ultrasonic sealing (optional)

## Optionals

	CMR1500	CMR1250	CMRII	HCRM660 FEQ	HCM420 FED
<b>Products</b>					
Liquid / pasty	-	-	-	⊕	⊕
Pieces	⊕	⊕	⊕	-	-
Powder	-	-	-	-	-
Granules	⊕	⊕	⊕	-	-
<b>Closing Pouch Systems</b>					
Zipper	⊕	⊕	⊕	-	-
Corner spout	-	-	-	⊕	⊕
Top spout	-	-	-	-	-
Frontal spout	-	-	-	-	-
Straw applicator	-	-	-	-	-
<b>Automations and User Friendly</b>					
Automatic changeover	-	-	⊕	⊕	⊕
Quick changeover	-	-	⊕	⊕	⊕
Autosplice unwinder	⊕	⊕	⊕	⊕	⊕
<b>Die-Cut Solutions</b>					
Die-cut	-	-	-	⊕	⊕
Tear notch	⊕	⊕	⊕	⊕	⊕
Eurohole	⊕	⊕	⊕	⊕	⊕
Hole punch	⊕	⊕	⊕	⊕	⊕
Double scissors	-	-	-	⊕	⊕
Laser cut	-	-	-	⊕	⊕
Round edges	-	-	-	⊕	⊕
<b>Coding Systems</b>					
Laser	⊕	⊕	⊕	⊕	⊕
Inkjet	⊕	⊕	⊕	⊕	⊕
Thermo transfer	⊕	⊕	⊕	⊕	⊕
Emboss code	-	-	-	⊕	⊕
<b>Hygienic Solutions</b>					
Gas flush	⊕	⊕	⊕	⊕	⊕
Laminar flow	-	-	-	-	-
UV lamp	-	-	-	⊕	⊕
Washdown	⊕	⊕	⊕	⊕	⊕

**FED:** Stand-up pouch duplex **FEQ:** Stand-up pouch 4-up

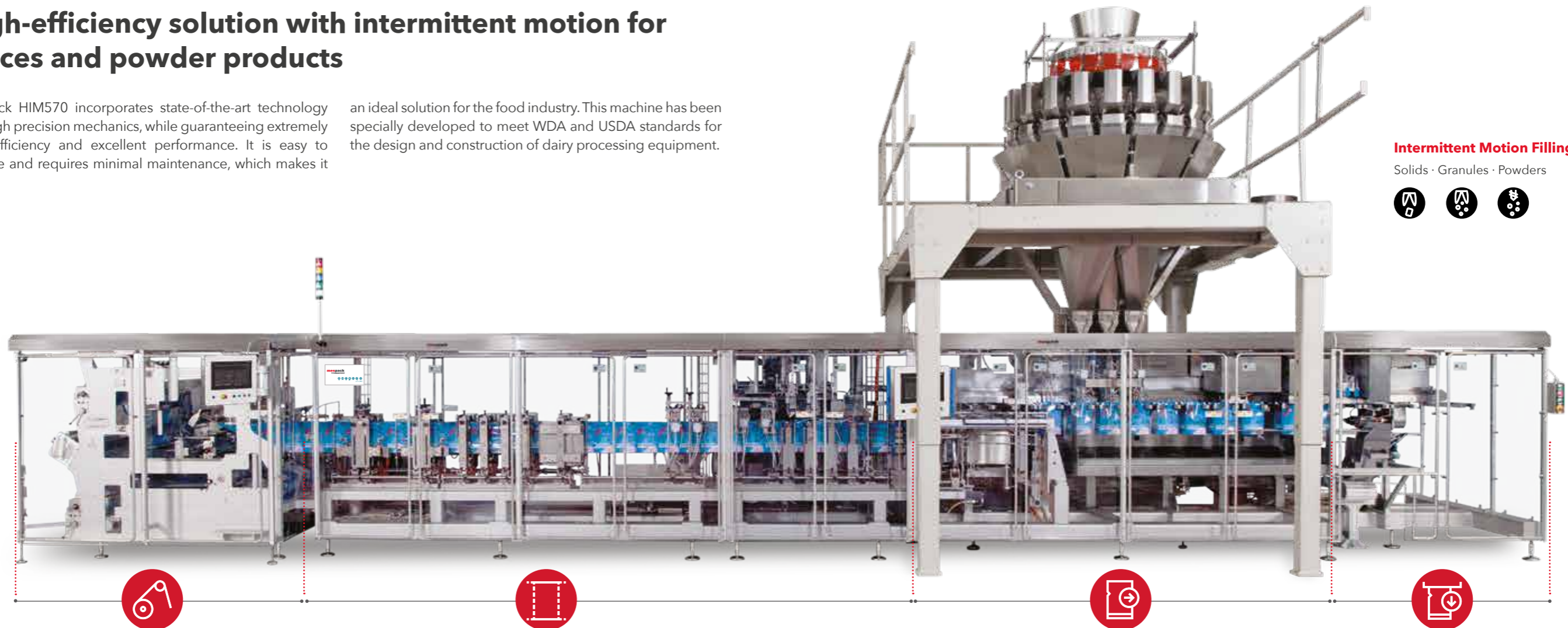
# Horizontal HIM Series

**MODELS**  
**HIM570**

## High-efficiency solution with intermittent motion for pieces and powder products

Mespack HIM570 incorporates state-of-the-art technology and high precision mechanics, while guaranteeing extremely high efficiency and excellent performance. It is easy to operate and requires minimal maintenance, which makes it

an ideal solution for the food industry. This machine has been specially developed to meet WDA and USDA standards for the design and construction of dairy processing equipment.



### Intermittent Motion Filling Section:

Solids · Granules · Powders



#### Unwinder Section:

- Standard unwinder
- Servo driven unwinder
- Unwinder with 2 reels
- Automatic unwinder with 2 reels



#### Forming Section:

- Zipper applicator
- Sealing
- Die-cut
- Tear notch
- Cutting units or laser cut
- Servo driven pouch pulling
- Sealing cameras



#### Transport Section:

- Transfer
- Pouch open and shrink
- Pouch stretch
- Intermittent motion top seal
- Static top sealing cooling



#### Pouch Exit Section:

- Pouch reject

#### Packaging Formats



#### Closures Applications



Zipper

#### Smart Functions



Autopilot

Autosplicer

Autochangeover

Recyclable Ready

Connectivity

Athena Inside

Advanced Maintenance

\* Optional



# Horizontal HIM Series

## Mespack Grippers Management System



The gripper width for all sealing jaws is adjustable from the HMI via the Mespack Grippers Management System (MGMS). Auto-positioning of all the machines rear grippers allow the filling area to be perfectly cleared, as well as adequately cleaned and sanitized.

## Automatic Adjustment of Sealing Jaw Position



The automatic quick changeover is controlled by servo and can easily be performed by HMI. Furthermore, it avoids operator errors during the changeover process.

## Make your format changes in just 20 minutes



## Carrousel Transport System



The Mespack mechanical carrousel system offers the possibility of using intermittent or continuous motions to discharge. Moreover, due to its grippers management system, extra volume can be used with a higher speed.

## Triple Pouch Opening System Through Air Jets and Mechanical Actuators



The Mespack triple pouch opening system can perform an aperture of three pouches at the same time with a unique actuator.

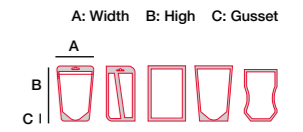
## Special Knives



The knives are constructed from special thermally treated steel, which increases durability. Furthermore, the changeover can be performed without tools.

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	C MIN-MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING STATION
<b>HIM570 FED</b>	152x217	254x406	40 - 150	4.000	100	1
<b>HIM570 FET</b>	152x217	254x406	40 - 150	4.000	150	1



## Main Standard Features

- 18.5" color touch screen
- Independent unwind system with autosplice features (optional)
- Automatic adjustment control of seal jaws position (optional)
- Automatic hole punch correction system for stand up pouches
- Servo driven changeover system for forming plough
- Triple pouch opening system through vacuum, air jet & mechanical device
- Pouch reject station
- PLC automatic lubrication system
- Roller servo driven stroke indexing system
- Ultraclean versions (optional)
- Laser coders and scorers (optional)
- ATEX compliance (optional)
- Film sterilization system (optional)
- Laminar flow (optional)
- M.A.P. (Modified Atmosphere Packaging)
- Ultrasonic sealing (optional)

## Optionals

### Products

	HIM570 FED	HIM570 FET
Liquid / pasty	-	-
Pieces	☺	☺
Powder	☺	☺
Granules	☺	☺

### Closing Pouch Systems

	HIM570 FED	HIM570 FET
Zipper	☺	☺
Corner spout	☺	☺
Top spout	-	-
Frontal spout	-	-
Straw applicator	-	-

### Automations and User Friendly

	HIM570 FED	HIM570 FET
Automatic changeover	☺	☺
Quick changeover	☺	☺
Autosplice unwinder	☺	☺

### Die-Cut Solutions

	HIM570 FED	HIM570 FET
Die-cut	☺	☺
Tear notch	☺	☺
Eurohole	☺	☺
Hole punch	☺	☺
Double scissors	☺	☺
Laser cut	☺	☺
Round edges	☺	☺

### Coding Systems

	HIM570 FED	HIM570 FET
Laser	☺	☺
Inkjet	☺	☺
Thermo transfer	☺	☺
Emboss code	☺	☺

### Hygienic Solutions

	HIM570 FED	HIM570 FET
Gas flush	☺	☺
Laminar flow	-	-
UV lamp	☺	☺
Washdown	☺	☺

**FED:** Stand-up pouch duplex **FET:** Stand-up pouch triplex

# Horizontal Ultra-High Speed Series

**MODELS**  
Servoriginal

**The market fastest continuous motion solution for flat pouch**

Mespack Cloud Servoriginal is 25% faster than any other HFFS. It is the gold standard workhorse, capable of three or four-sided seals for flat pouches.

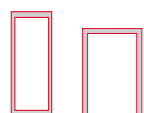
Furthermore, the HFFS machine is able to process up to 7200 linear inches of film per minute (25.4 mm width). Automatic

web splicing is done at zero speed with no line cessations while servo motion controls, assures consistent pouch forming as the material moves onto the vertical sealer.

The possible applications are cocoa, spices, sweeteners, powdered cheeses, etc.



**Packaging Formats**



**Smart Functions**



# Horizontal Ultra-High Speed Series

**MODELS**  
Performa, Performa SP

**The market fastest continuous motion solution for flat pouch**

Mespack Ultra-High Speed solution Performa is specifically designed for sweetener operations. It is 37% to 40% faster than other equivalent high-speed machines on the market. It is an easy-to-operate, easy-maintenance, computer controlled,

all-servo drive pouch packaging system for high speed and high-volume, with continuous motion horizontal form, fill and seal applications. It is designed for exact count collations and achieves ultra-accurate fills.



#### Packaging Formats



#### Smart Functions



Autosplicer



Advanced Maintenance

\* Optional



# Horizontal Ultra-High Speed Series

## Up to 98% Efficient



Based on product type and packaging requirements, the Mespac team of engineers can customize pouch-filling solution to suit your needs and provide maximum productivity and effectiveness.

## UHS Rotary Cutting System



The Mespac UHS rotary cutting system is servo driven and controlled by HMI. It helps to increase the line efficiency.

## Second Feed Drive



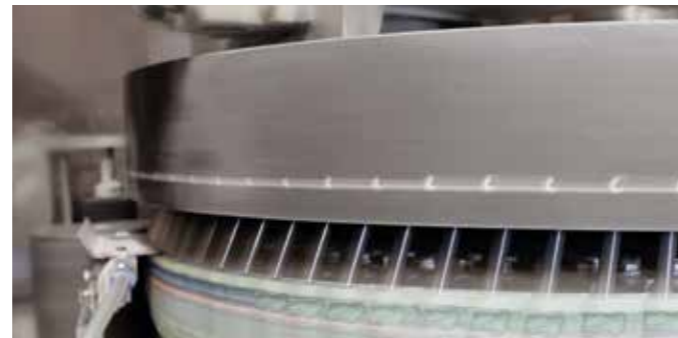
This is the second film drive. It functions as the finishing top seal while the film is being pulled.

## Autosplice Unwinder



An auto-splicer allows the operator to expeditiously splice film, thus minimizing scrap and downtime.

## Fast, Reliable and High Quality Results



It is designed for flexibility and meets all the requirements that your application needs. This machine is the ultimate in regard to high speed and volume. It is the gold standard workhorse and is capable of using three or four sided seals for flat pouches.

## UHS Top Sealer

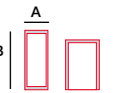


The Mespac UHS top sealer is a continuous sealing system. It is specially designed to avoid film burn in the event case of machine stops.

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING SYSTEM	TRANSPORT SYSTEM
<b>PERFORMA</b>	25,4x25,4	88,9x177,8	110	2.200	28 diameter filler wheel	Servo
<b>PERFORMA SP</b>	25,4x25,4	88,9x101,6	50	2.880	38 diameter filler wheel	Servo
<b>SERVORIGINAL</b>	25,4x25,4	177,8x177,8	400	2.880	40 diameter filler wheel	Servo

A: Width B: High



## Main Standard Features

- Autosplice unwinder
- Full servo version
- Compact footprints
- Tool-less changeovers for less downtime
- Higher throughput for film and product savings
- Up to 98% efficient
- Fast, reliable, and high level quality results
- Uses familiar PLC logic for digital I/O control
- Full featured diagnostic operator's panel

## MVP® Maximum Volume Pouch

Among its many patented features, this equipment utilizes our MVP system, which immediately uses a curtain of air prior to filling, in order to create ideal pouch openings. Developed on product type and packaging requirements, our engineers will create a custom pouch-filling solution to suit your needs and provide maximum productivity.

## Easy Cleaning

Every element of the equipment series is designed for ease of use and productivity. For instance, our engineers can build the optional filler sections to allow disassembly for easy cleaning.

## Superior Control, Superior Integration

We use Siemens or Allen-Bradley controls for reliability and the highest possible precision for all equipment functions. This includes every functions along the web path, product filling, pouch sealing, as well as the integration with all possible downstream and secondary packaging functions.

## Optionals

PERFORMA  
PERFORMA SP  
SERVORIGINAL

### Products

Liquid / pasty	-	-	-
Pieces	☹	☹	☹
Powder	☹	☹	☹
Granules	☹	☹	☹

### Automations and User Friendly

Automatic changeover	-	-	-
Quick changeover	-	-	-
Autosplice unwinder	☹	☹	☹

### Die-Cut Solutions

Die-cut	-	-	-
Tear notch	☹	☹	☹
Eurohole	-	-	-
Hole punch	-	-	-
Double scissors	-	-	-
Laser cut	-	-	-
Round edges	-	-	-

### Coding Systems

Laser	☹	☹	☹
Inkjet	☹	☹	☹
Thermo transfer	-	-	-
Emboss code	-	-	-

### Hygienic Solutions

Gas flush	☹	☹	☹
Laminar flow	-	-	-
UV lamp	-	-	-
Washdown	-	-	-

# Horizontal Pre-Made Pouches HF Series

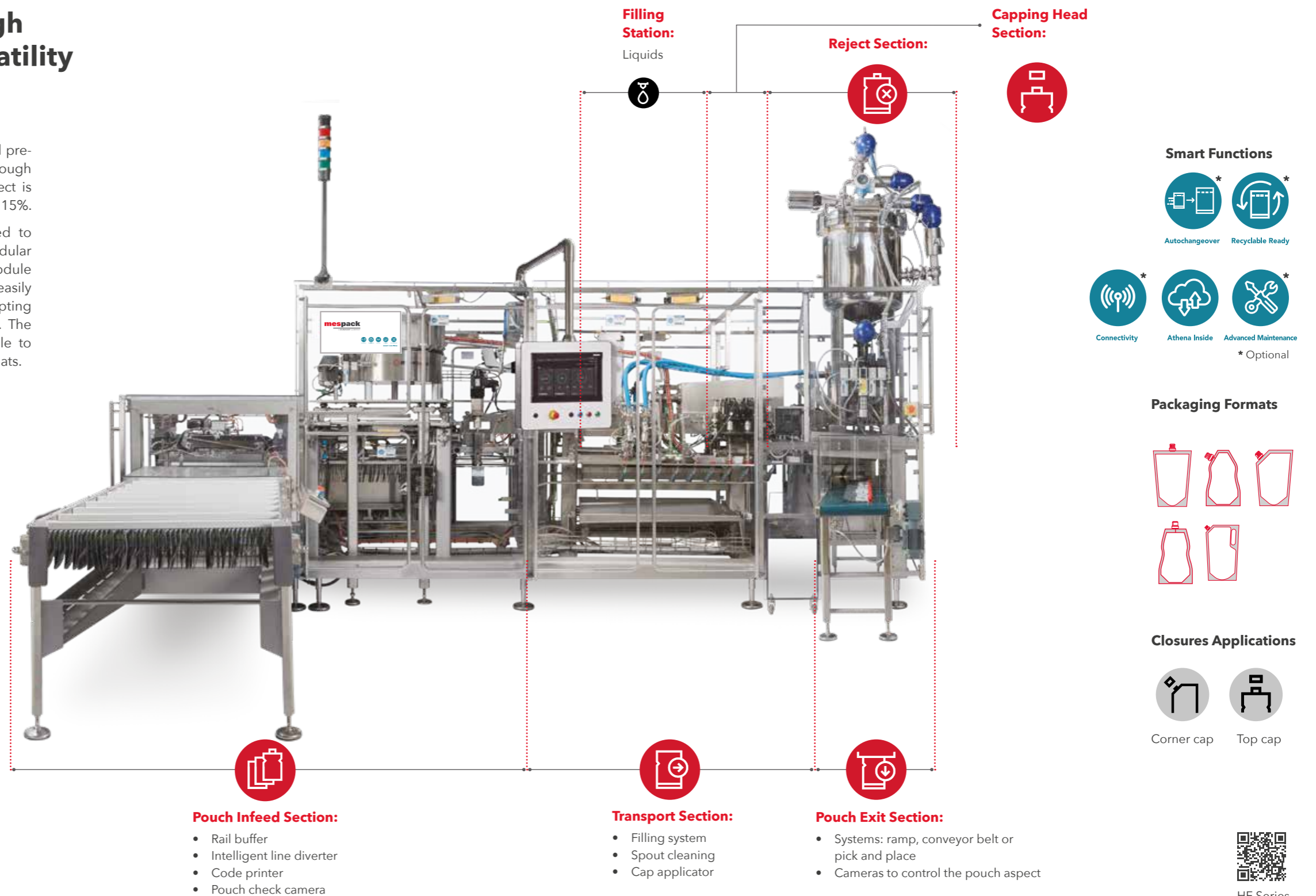
**MODELS**  
**HF2400, HF1200**

## The HF Series fills through the spout with high versatility

The new HF Series works with top and edge spouted pre-made pouches. Due to continuous motion filling through the spout, headspace is reduced and the wave effect is prevented, which reduces the amount of film usage by 15%.

This model is especially thought-out and designed to guarantee immense versatility. As a result of its modular design, the HF Series allows for a pouch forming module to replace the automatic rail loading system. It is easily distinguishable for increasing output capacity by adapting the machine to be operable with additional lanes. The flexibility of the HF Series is profound, as it is able to simultaneously work with different products and formats.

**The HF2400 can be configured to simultaneously package a variety of products and formats.**



# Horizontal Pre-Made Pouches HF Series

## Pouch Infeed Buffer



This buffer is a customized solution, specially designed to have enough room for growth. Furthermore, it can be replaced by a pouch forming module in order to produce your own pouches thereby lowering per pouch costs. This makes it an extremely adaptable machine.

## Filling Stations



The continuous dosing system is equipped with a hygienic nozzle design. Additionally, a special in-line spout cleaning system, which sprays filtered water, ensures the removal of residual product on the spout or pouch.

## Filling Through the Spout



Thanks to the continuous filling system through the cap, up to 15% of the headspace is reduced by avoiding the wave effect.

This product series has been modularly designed, which eases operator use.

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	OUTPUT (p.p.m.)	MAX VOLUME (c.c.)	POUCH TYPE	FILLING STATION
HF2400	70x100	160x300	160	1.000	Pre-made	-
HF1200	70x100	160x300	80	1.000	Pre-made	-



## Main Standard Features

- Works with top or corner spouted pre-made pouches
- Intelligent automatic rail loading system
- Possibility of adding HFS (Horizontal Fill and Seal) module
- Additional station for laser or inkjet encoders
- Pouch inspection station for vision cameras
- Reduction in packaging headspace for liquid and pasty products
- Continuous dosing system
- Ability to simultaneously use different products and volumes (2 - 4 lanes machine)
- Spout cleaning prior to capping
- Cap cleaning (optional)
- Athena enabled (HMI and IIoT)
- ATEX compliance (optional)
- Laminar flow (optional)
- Washdown (optional)
- Open frame design: low maintenance and total machine accessibility
- Easy to operate
- Compact and hygienic design

## Optionals

	HF 2400	HF 1200
<b>Products</b>		
Liquid / pasty	⊕	⊕
Pieces	-	-
Powder	-	-
Granules	-	-
<b>Closing Pouch Systems</b>		
Zipper	-	-
Corner spout	⊕	⊕
Top spout	⊕	⊕
Frontal spout	-	-
Straw applicator	-	-
<b>Coding Systems</b>		
Laser	⊕	⊕
Inkjet	⊕	⊕
Thermo transfer	-	-
Emboss code	-	-
<b>Hygienic Solutions</b>		
Gas flush	⊕	⊕
Laminar flow	⊕	⊕
UV lamp	⊕	⊕
Washdown	⊕	⊕

## Star System For Pouch Transportation



The star system not only operates as separator for the stream of pouches, but it is also used for code printing and visual inspection with in-place pouch rejection.

## New Controls: Athena



In harmony with its straightforward usability, this series of machines continues to use the Athena platform, with which the operator can monitor, at all times, the OEE ratio as well as that of rejected pouches, among others.

## Adapted to Work with Sustainable Materials



The HF Series, follows a completely sustainable concept from the origin of its design. These machines save raw material in containers, as a result of the continuous pouch filling, which avoids the wave effect. Furthermore, the HF Series was created from inception with the vision to operate with sustainable materials.

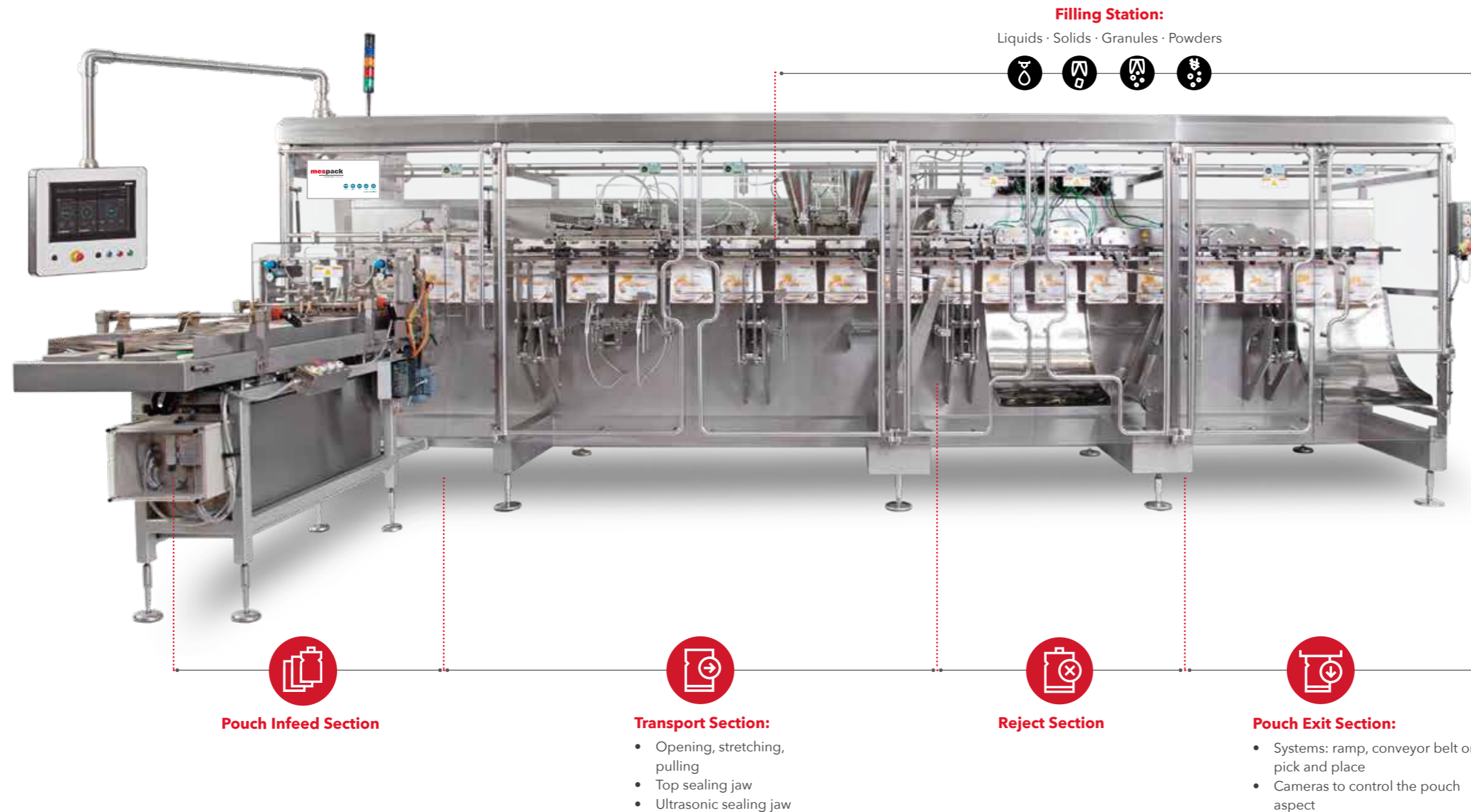
# Horizontal Pre-Made Pouches HSC Series

**MODELS**  
**H570 SC, H440 SC, H320 SC, H260 SC, H180 SC**

The HSC Series operates with every type of pre-made pouch and offers the freedom to use a complete variety of pouches

The HSC Series is compatible with all types of pre-made pouches, and offers the freedom to use any pouch which is available to the customer. Furthermore, it is able to dose liquids, solids, granules and powder. The HSC Series is composed of a pouch feeding conveyor, a pick and place system, and a transfer mechanism that places the pre-made pouches on a walking beam. Then, the main module opens, fills and performs the top seal. Available

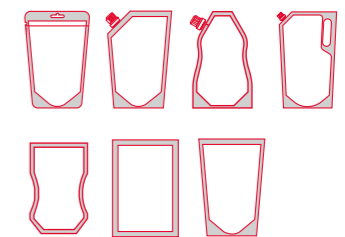
optional equipment includes a full range of items, such as coders, hole punchers, notchers, cap fittings, spout applicators, as well as various filling systems for powder, granules, liquids, and pasty products. Moreover, we are able to install multihead weighers. A variety of models are available in accordance with pouch dimensions, volumes, and capacities.



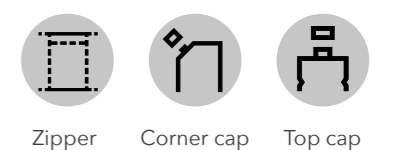
### Smart Functions



### Packaging Formats



### Closures Applications



# Horizontal Pre-Made Pouches HSC Series

## Dosing Station with Integrated Edge Cap



The current generation edge cap applicator incorporates state-of-the-art technology whilst guaranteeing high efficiency and quality. The edge cap is sealed during the formation process prior to filling.

## Additional Station for Laser or Inkjet Encoders



We have a wide variety of coding systems, such as laser or inkjet encoders allowing for the printing of product expiration dates, QR codes, and barcodes, etc.

## Independent Pressure Controlled TOP Jaws



Three set of sealing jaws are available for top sealing and cooling. The pressure control of the top jaws is separate for each jaw. Independent adjustments can be configured on the touch screen.

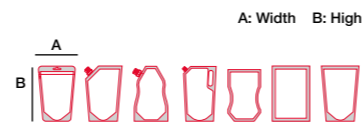
## Pouch Inspection Station for Vision Cameras



At Mespac, we are following the latest technology in different fields. Using artificial intelligence system is one of our strengths. It is used to control que pouch quality and the verification of pouch formats.

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	OUTPUT (p.p.m.)	MAX VOLUME (c.c.)	POUCH TYPE	FILLING STATION
<b>H570 SCD</b>	140x150	285x350	100	3000	Pre-made duplex	3
<b>H570 SCT</b>	140x150	190x350	150	1600	Pre-made triplex	3
<b>H440 SC</b>	100x120	440x350	50	3000	Pre-made simplex	3
<b>H440 SCD</b>	100x120	220x350	100	2000	Pre-made duplex	3
<b>H440 SCT</b>	100x120	145x350	150	1000	Pre-made triplex	3
<b>H440 SCQ</b>	100x120	110x350	200	750	Pre-made quadruplex	3
<b>H320 SC</b>	90x120	320x350	50	3000	Pre-made simplex	3
<b>H320 SCD</b>	90x120	160x350	100	1000	Pre-made duplex	3
<b>H260 SC</b>	80x120	260x300	50	2500	Pre-made simplex	3
<b>H260 SCD</b>	80x120	130x300	100	800	Pre-made duplex	3
<b>H180 SC</b>	80x120	190x300	50	1500	Pre-made simplex	3



## New Controls: Athena

The HSC Series is already equipped to operate with Athena. Due to this, the operator will be able to monitor the status of the pouch quality and filling, as well as ensure that the equipment output is correct.



## Adapted to Work with Sustainable Materials

The HSC Series is equipped to operate with pre-made pouches that are manufactured with all sustainable material films: mono-material, recycled, ready to recycle, biodegradable, etc.

This is possible even if the pouch has a cap closing system. The spout preheating system aids in the adaptation to sustainable material pouches. Preheating of the spout allows for the welding of the inner layers at lower temperature, thus ensuring the quality of the pouch.

## Only one operator is required to perform the manual loading of pre-made pouches



## Main Standard Features

- Additional station for laser or inkjet encoders
- Pouch inspection station for vision cameras
- Athena enabled (HMI and IIoT)
- ATEX compliance (optional)
- Laminar flow (optional)
- Washdown (optional)
- Easy to operate

## Optionals

	<b>H570 SCD</b>	<b>H570 SCT</b>	<b>H440 SC</b>	<b>H440 SCD</b>	<b>H440 SCT</b>	<b>H440 SCQ</b>	<b>H320 SC</b>	<b>H320 SCD</b>	<b>H260 SC</b>	<b>H260 SCD</b>	<b>H180 SC</b>
<b>Products</b>											
Liquid / pasty	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Pieces	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Powder	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Granules	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
<b>Closing Pouch Systems</b>											
Zipper	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Corner spout	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Top spout	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Frontal spout	-	-	-	-	-	-	-	-	-	-	-
Straw applicator	-	-	-	-	-	-	-	-	-	-	-
<b>Coding Systems</b>											
Laser	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Inkjet	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Thermo transfer	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Emboss code	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
<b>Hygienic Solutions</b>											
Gas flush	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Laminar flow	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
UV lamp	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Washdown	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗

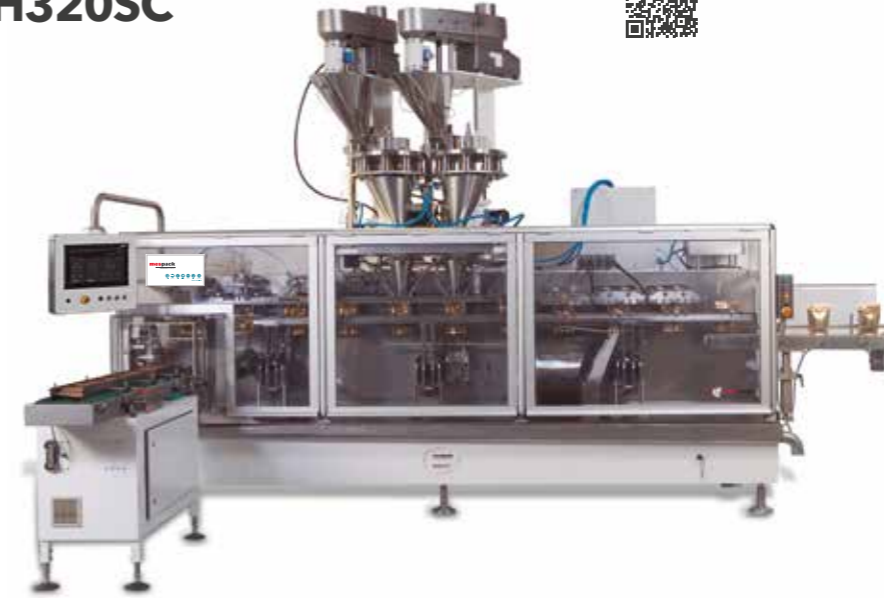
SC: Simplex SCD: Duplex SCT: Triplex SCQ: Quadruplex

# Horizontal Pre-Made Pouches HSC Series

H570SC



H320SC



H440SC



H180SC



H260SC



Horizontal Pre-Made Pouches

# HMRSC Series

**MODELS**

**HMR305 SC, HMR 220 SC, HMR180 SC**

**The HMRSC Series is a new carousel system solution to expand the horizontal pre-made machines range**

The HMRSC Series is an innovative horizontal fill and seal machine that is integrated with Mespac's latest technology. This series has been developed to expand the range of horizontal pre-made solutions. These machines have the ability

to operate in intermittent or continuous motion depending on the product, available to work with different product types, such as liquids, powders, granules, and solids.



#### Smart Functions



#### Packaging Formats



#### Closures Applications



HMR 305 SC HMR180 SC

# Horizontal Pre-Made Pouches HMRSC Series

## Quick Changeovers



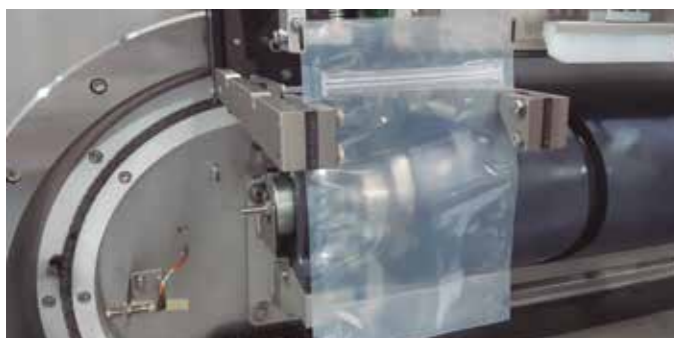
The Mespac HMRSC Series allows you to make format quick changeovers in less than 5 minutes

## Infeed Conveyor



Our infeed conveyor is able to work with different pouch types, such as flat pouches, stand-up pouches, box pouches, zipper or corner cap pouches, etc. Up to 4 rails.

## Mespac Grippers Management System with Automatic Quick Changeover in Carrousel



The grippers width of all Mespac Grippers Management (MGMS) System is adjustable from the HMI. Auto-positioning of all the machine's rear grippers allows for perfect clearance of the filling area, as well as adequately cleaned and sanitized.

## Carrousel Transport System



The Mespac mechanical carrousel system has intermittent or continuous motions to perform the filling process. Furthermore, and subsequently, the machine operates at a higher speed, allowing for more volume dosing.

## Innovative Transfer between Infeed Conveyor and Machine



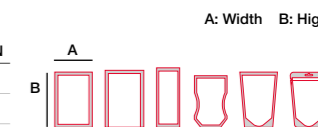
The new Mespac transfer is specially designed in order to increase production speed by up to 30%.

## Only one operator is required to perform the manual loading of pre-made pouches



## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	OUTPUT (p.p.m.)	MAX VOLUME (c.c.)	POUCH TYPE	FILLING STATION
<b>HMR305 SCD</b>	100x125	305x400	130	4000	Flat, Stand-up	up to 4
<b>HMR220 SCD</b>	100x125	220x310	150	2000	Flat, Stand-up	3
<b>HMR180 SCD</b>	100x125	180x300	150	1500	Flat, Stand-up	up to 4



**D:** Flat pouch duplex

## Main Standard Features

- 18,5" color touch screen
- Work with different pre-made pouch types such as flat pouches, stand-up pouches, box pouches, etc.
- Additional station for laser or inkjet encoders
- Intermittent or continuous dosing system available
- Carrousel transport system
- Athena enabled (HMI and IIoT)
- Easy to operate
- Laminar flow (optional)
- Washdown (optional)

## Optionals

	<b>HMR305 SCD</b>	<b>HMR220 SCD</b>	<b>HMR180 SCD</b>
<b>Products</b>			
Liquid / pasty	-	⊕	-
Pieces	⊕	-	⊕
Powder	⊕	-	⊕
Granules	⊕	-	⊕
<b>Closing Pouch Systems</b>			
Zipper	⊕	-	⊕
Corner spout	⊕	⊕	⊕
Top spout	-	-	-
Straw applicator	-	-	-
<b>Coding Systems</b>			
Laser	⊕	⊕	⊕
Inkjet	⊕	⊕	⊕
Thermo transfer	⊕	⊕	⊕
Emboss code	⊕	⊕	⊕
<b>Hygienic Solutions</b>			
Gas flush	⊕	⊕	⊕
Laminar flow	⊕	⊕	⊕
UV lamp	⊕	⊕	⊕
Washdown	⊕	⊕	⊕

 **New Controls: Athena**

 **Adapted to Work with Sustainable Materials**

# Horizontal Pre-Made Pouches IMP Series

**MODELS**  
**IMP1750, IMP1500**

The most flexible and reliable  
pre-made pouch solutions



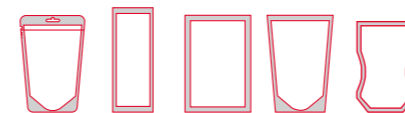
\* Shown with optional  
infed conveyor

Mespac IMP is an intermittent motion pre-made fill-seal stand-up pouch solution, which provides a wide variety of packaging options in one base machine. The IMP Series delivers extreme flexibility to our customers by being able to accommodate small to large packages, various package styles, automatic fill, manual fill, as well as a combination

of packages and numerous other options for specific products.

These solutions are perfect options for companies that want to begin discovering the exciting and growing world of stand up, reclosable package styles.

### Packaging Formats



### Smart Functions



Autochangeover



Advanced Maintenance

\* Optional



IMP Series

# Horizontal Pre-Made Pouches IMP Series

## Traveling Funnel



Our traveling funnel is used for such a continuous as an intermittent motion machines. This system significantly increases the speed of the machine.

## Infeed Conveyor



Our infeed conveyor system includes a 3-phase motor for destacker and flapper wheels and three photoelectric sensors to secure the position when transfer into the machine occurs.

## Adaptability



The IMP Series is engineered to specific customer needs; accommodating unique package shapes / designs and multiple filing options. IMP Series Machines can adapt to as many additional filling stations as needed.

## Tool-Less Funnel and Baffle Changeover



This quick changeover tool-less system for funnels and baffles is designed to enhance format change time.

## Pouch Opening System



The pouch opening system includes pneumatic actuators and vacuum cups to ensure that there is an optimal aperture before the filling station.

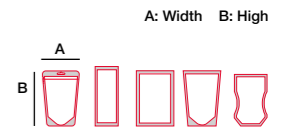
## Flexibility



The IMP Series can operate with packages that contain as little as a few ounces to greater than 12 pounds. The impressive filling options include: multi-head weighing, augers, cup fillers and manual. Customers are also able to perform a combination of automatic and manual fillings.

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	OUTPUT (p.p.m.)	MAX VOLUME (c.c.)	POUCH TYPE	FILLING STATION
IMP1750	101,6x203,2	368x381	45	10.000	Pre-made simplex	Traveling funnels
IMP1500	101,6x152,4	304,8x381	50-60	5.000	Pre-made simplex	Traveling funnels



## Main Standard Features

- Servo motion for key operating areas
- Variety of control/servo combinations
- Tool-less funnel and baffle changeover
- Mechanical pouch opening system which increases efficiencies
- Traveling funnel
- Tool-less funnel and baffle changeover (in case of no duckbill required)

## Operations

Pre-made packages are automatically fed from a manually loaded in-feed conveyor.

Packages are individually picked up and placed into indexing dual package clamps, which securely hold the package throughout the process.

A mechanical zipper opening system opens package, and a concentrated air blast, ensure that packages are fully open prior to filling. A quality control system rejects defective packages.

A timing hopper dumps product into a following funnel which loads packages.

A suitable filling system fills the timing hopper.

There is an optional system positioned under loading stations to ensure package stability.

Properly sealed packages continue to the top-seal and top-seal cooling areas.

## Optionals

### Products

Liquid / pasty	-	-
Pieces	☹	☹
Powder	☹	☹
Granules	☹	☹

### Closing Pouch Systems

Zipper	☹	☹
Corner spout	-	-
Top spout	-	-
Frontal spout	-	-
Straw applicator	-	-

### Automations and User Friendly

Automatic changeover	-	-
Quick changeover	☹	☹
Autosplice unwinder	-	-

### Coding Systems

Laser	☹	☹
Inkjet	☹	☹
Thermo transfer	☹	☹
Emboss code	-	-

### Hygienic Solutions

Gas flush	☹	☹
Laminar flow	☹	☹
UV lamp	-	-
Washdown	☹	☹

Horizontal Pre-Made Pouches  
**RMSC Series**

**MODELS**  
**RM260 SC**

**The rotary machine with the most reduced footprint and quickest changeover**



The RM260 SC is a more compact machine from the IMP Series; it has a reduced footprint that is operable with pre-made stand-up pouches.

The series provides wide a wide variety of options, which include packaging sizes, filling types, and customer specific needs. This machine model is the optimum commencement point for entering the stand-up and resealable pouch market.

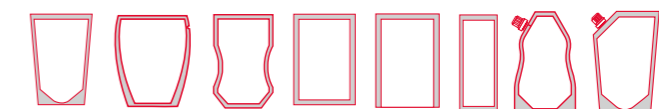
It is ideal for companies that specialize in producing powder, granules, piece and liquid products.

The compact, design promotes uncomplicated and expeditious operation, including swift adjustment options to reduce time during the production process.

**Smart Functions**

-   
Autochangeover
  -   
Recyclable Ready
  -   
Connectivity
  -   
Athena Inside
  -   
Advanced Maintenance
- \* Optional

**Packaging Formats:**



# Horizontal Pre-Made Pouches RMSC Series

## Auto-Changeover



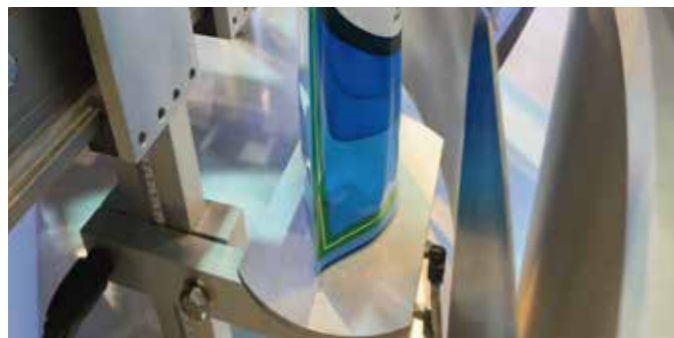
The pouch clamps have an innovative auto changeover feature, hence allowing for an HMI-recipe based push bottom changeover.

## Pouch Opening System



The pouch opening system includes pneumatic actuators and vacuum cups, which ensure a good outstanding aperture prior to the filling station.

## Product Settler (optional)



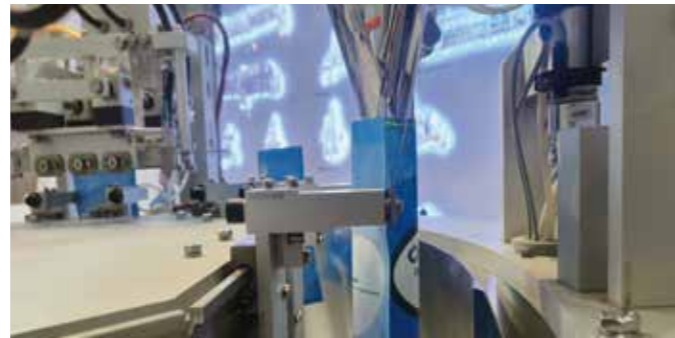
The system is available for bottom-oriented pouch agitation during the filling process to help settle the product below the top seal area. The height of the system is adjustable with the use of a quick release handle.

## Infeed Conveyor



Our infeed conveyor system includes a 3-phase motor, which creates a destacker position for the transfer into the machine.

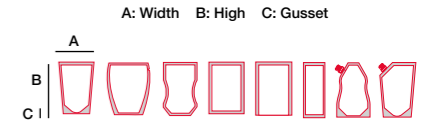
## Filling Options



Multiple filling options available: auger and cup filler, multihead weigher, as well as vibratory feeders.

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	C MIN-MAX (mm)	MAX VOLUME (c.c.)	OUTPUT (p.p.m.)	FILLING STATION
RM260 SC	101x150	266x368	0-127	3400	Up to 60	1-2



## Main Standard Features

### Performance

- Servo driven with positive placement pouch clamps
- A unique pouch opening system
- Speeds of up to 60 pouches per minute

### Efficiency

- Maximizes output and minimizes scrappage
- Adheres to funnel packs of difficult products and minimizes spillage
- Tool-free funnels
- Servo motor intelligence
- 15-Minute changeovers

### Flexibility

- Wide range of packaging styles
- Extremely personalized to the customer
- Gas flushing options and more
- Automatic and manual filling

## Operations

Pre-made pouches are automatically fed from a manually loaded in-feed conveyor. Pouches are individually gathered and placed into indexing dual package clamps; the pouches are securely held, throughout operation.

A mechanical zipper opening system closed pouches; a focused air, blast ensures that the packages are fully open prior to filling.

An optional timing hopper dumps the product into a stationary duckbill funnel that charges the pouch from below.

An optional product settler assembly can be installed under the loading station; this ensures package stability.

Optional systems are secured beneath loading stations to ensure package stability.

Properly filled pouches proceed to the top-seal and top-seal cooling areas.

## Optionals

### Products

Liquid / pasty	<input checked="" type="checkbox"/>
Pieces	<input checked="" type="checkbox"/>
Powder	<input checked="" type="checkbox"/>
Granules	<input checked="" type="checkbox"/>

### Closing Pouch Systems

Zipper	<input checked="" type="checkbox"/>
Corner spout	<input checked="" type="checkbox"/>
Top spout	-
Frontal spout	-
Straw applicator	-

### Automations and User Friendly

Automatic changeover	<input checked="" type="checkbox"/>
Quick changeover	<input checked="" type="checkbox"/>

### Coding Systems

Laser	<input checked="" type="checkbox"/>
Inkjet	<input checked="" type="checkbox"/>
Thermo transfer	-
Emboss code	-

### Hygienic Solutions

Gas flush	<input checked="" type="checkbox"/>
Laminar flow	-
UV lamp	<input checked="" type="checkbox"/>
Washdown	-

# Hybrid (Roll-Stock and Pre-Made) IMH Series

**MODELS**  
**IMH1500**

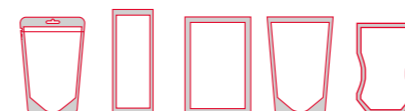
**The most versatile pouch packaging solution for start-up manufacturers which can run as roll-stock or with pre-made pouches**



Mespack IMH is an intermittent motion form-fill-seal solutions delivering a wide variety of packaging options in one base machine. The combination of being able to run pouches from roll-stock and a wide range of pre-made pouches and bags makes this our most versatile solution. These solutions are perfect options for companies that want to begin discovering the exciting and growing world of stand up, reclosable package styles.

Changes between roll-stock and pre-made can be done with a simple program adjustment. The funnels are provided with tool-less changeovers to ensure quick changing.

#### Packaging Formats



#### Smart Functions



Autosplicer    Autochangeover    Advanced Maintenance  
\* Optional



IMH Series

# Hybrid (Roll-Stock and Pre-made) IMH Series

## Traveling Funnel



Our traveling funnel is used for such a continuous as an intermittent motion machines. This system significantly increases the speed of the machine.

## Infeed Conveyor



Our infeed conveyor system includes a 3-phase motor for destacker and flapper wheels and three photoelectric sensors to secure the position when transfer into the machine occurs.

## Flexibility



The IMP Series run packages holding a few ounces to greater than 12 pounds. The impressive filling options include: multi-head weighing, augers, cup fillers and manual. Customers can also achieve a combination of automatic and manual filling.

## Tool-less Funnel and Baffle Changeover



This quick changeover tool-less system for funnels and baffles is designed to enhance format change time.

## Pouch Opening System



The pouch opening system includes Pneumatic actuators and vacuum cups to ensure a good aperture before the filling station.

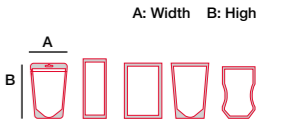
## Sealing Stations



Our experience in flexible packaging has allowed us to offer an automatic changeover system of sealers, which reduces the adjustment time, human error and it is a tool-less operation.

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	OUTPUT (p.p.m.)	MAX VOLUME (c.c.)	POUCH TYPE	FILLING STATION
IMH1500	101,6x152,4	304,8x381	50-60	5.000	Pre-made simplex	Traveling funnels



## Main Standard Features

- Servo motion for key operating areas
- Variety of control/servo combinations
- Tool-less funnel and baffle changeover
- Tool-less funnel and baffle changeover (in case of no duckbill required)

## Adaptability

IMH Series machines are easily engineered to meet specific customer needs. The machines can be stretched to accommodate various filling methods by providing any number of filling stations.

## Opening, filling and sealing

A special mechanical zipper opening system opens every pouch prior to filling. Additionally, focused air blasts are used to make sure that the package is fully opened.

Packages are checked to ensure proper opening; Improperly opened pouches are not filled and are rejected further in the process.

Pouches are filled through our Traveling Funnel system. The traveling funnels are filled with the use of a timing hopper. The hopper is filled by a suitable filling system.

An optional settling conveyor system is positioned under the filling / loading stations to ensure that the package is secure and to assist in the settling of the product.

Properly filled packages will continue indexing to the top-seal and top-seal cooling stations.

Improperly filled or unopened packages are rejected from the system.

## Optionals

### Products

Liquid / pasty	-
Pieces	⊕
Powder	⊕
Granules	⊕

### Closing Pouch Systems

Zipper	⊕
Corner spout	-
Top spout	-
Frontal spout	-
Straw applicator	-

### Automations and User Friendly

Automatic changeover	-
Quick changeover	⊕
Autosplice unwinder	⊕

### Die-Cut Solutions

Die-cut	-
Tear notch	⊕
Eurohole	-
Hole punch	⊕
Double scissors	-
Laser cut	-
Round edges	-

### Coding Systems

Laser	⊕
Inkjet	⊕
Thermo transfer	⊕
Emboss code	-

### Hygienic Solutions

Gas flush	⊕
UV lamp	-
Washdown	⊕

# Vertical MS Series

**MODELS**  
**MS1200, MS1000, MS600, MS350**

**The most accurate stick pack machine with the best integrated technology on the market**

### Smart Functions



### Filling Section:

Liquids · Solids · Granules · Powders



### Packaging Formats



**mespack**  
A DURAVANT COMPANY

### Unwinder Section:

- Servo driven unwinder

### Transport Section:

- Vertical sealing
- Horizontal sealing
- Tear notch
- Die-cut

### Reject Section:

- Individual reject available

### Exit Section:

- Systems: ramp, conveyor belt or pick and place
- Grouping and string options



MS350



MS600



MS1000



MS1200

# Vertical MS Series

## Printing/Coding Area



The printing or coding area of the MS Series is integrated into the machine unwinder, thus additional protection is unnecessary. Moreover, the support for this area is independent, in order to avoid the possibility of vibrations.

## Full Servo Version



The full servo motorized solution gives you more coordinating control of the equipment's movements. The independent control of each group also allows for the increase of speed and ability to reach 80 cycles per minute.

## Air Clean In Place



The air Clean In Place system (CIP) is a process to clean the filling circuit without disassembling the auger filler system, it reduces the product change time, and ensures optimal cleaning. This process consists of passing pressured air through the auger fillers and equipment parts that are in direct contact with the product.

## Free Maintenance Access to the Interior of the Machine



Due to the easy opening design of sealing jaws, the machine maintenance can be performed with ease.

## Bottom Up Nozzle



Our special filling system is designed to avoid all types of product splash or foam on the horizontal seal. The simultaneous movement increases the sealing time of up to 40%.

## Individual Exit Chute



Our vertical machine have an individual exit chute with reject possibility, which saves waste material.



**New Controls: Athena**

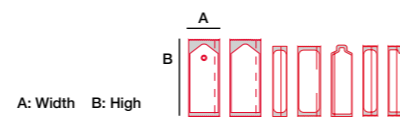


**Adapted to Work with Sustainable Materials**

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	OUTPUT (p.p.m.)
MS1200 4	17x50	115x190	240-280
MS1200 6	17x50	90x190	360-420
MS1200 8	17x50	70x190	480-560
MS1200 10	17x50	50x190	600-700
MS1200 12	17x50	45x190	720-840
MS1200 14	17x50	35x190	840-1050
MS1200 16	17x50	30x190	960-1200
MS1200 18	17x50	28x190	1080-1350
MS1000 4	17x50	115x190	240-280
MS1000 6	17x50	70x190	360-420
MS1000 8	17x50	55x190	480-560

MACHINE	AxB MIN (mm)	AxB MAX (mm)	OUTPUT (p.p.m.)
MS1000 10	17x50	45x190	600-750
MS1000 12	17x50	35x190	720-900
MS1000 14	17x50	30x190	840-1050
MS1000 16	17x50	25x190	960-1200
MS600 4	17x50	70x190	200
MS600 6	17x50	45x190	250
MS600 8	17x50	32x190	300
MS350 2	17x50	80x190	100
MS350 3	17x50	45x190	150
MS350 4	17x50	35x190	200



## Main Standard Features

- Independent servo driven film unwind system
- Pneumatically film brake system with proportional unwind speed
- Servo driven main film drive system
- Servo driven horizontal seal jaws
- Pneumatically expandible reel shaft
- Adjustable horizontal cutting knives (flat or zig-zag)
- Motor driven circular knives
- PLC independent temperature control seal bars
- PLC auto-controlled lubrication
- Free operation access to side of the machine
- Micro-switch protected transparent polycarbonate guardings
- Integrated electrical cabinet (optional)
- Full servo version available
- Laser coders and scorers (optional)
- ATEX compliance (optional)
- Film sterilization system (optional)
- Laminar flow (optional)
- Integrated film splice system in the unwinder (optional)

## Optionals

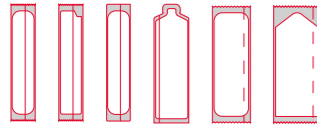
	MS1200 4	MS1200 6	MS1200 8	MS1200 10	MS1200 12	MS1200 14	MS1200 16	MS1200 18	MS1000 4	MS1000 6	MS1000 8	MS1000 10	MS1000 12	MS1000 14	MS1000 16	MS600 4	MS600 6	MS600 8	MS350 2	MS350 3	MS350 4
<b>Products</b>																					
Liquid / pasty	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Pieces	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Powder	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Granules	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
<b>Closing Pouch Systems</b>																					
Zipper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corner spout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Top spout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frontal spout	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Straw applicator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Automations and User Friendly</b>																					
Automatic changeover	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Quick changeover	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Autosplice unwinder	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
<b>Die-Cut Solutions</b>																					
Die-cut	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Tear notch	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Eurohole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hole punch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Double scissors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laser cut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Round edges	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
<b>Coding Systems</b>																					
Laser	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Inkjet	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Thermo transfer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emboss code	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
<b>Hygienic Solutions</b>																					
Gas flush	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Laminar flow	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
UV lamp	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
Washdown	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒

# Vertical MSPH Series

## MODELS MSPH600, MSPH300

### The Mespack smallest vertical stick-pack machine focused on the pharmaceutical industry

#### Packaging Formats



#### Filling Section:

Liquids · Granules · Powders



#### Smart Functions



\* Optional

MSPH Series is the vertical form fill, and seal machine for pharmaceutical products in stick packs. This machine is specially designed for the pharmaceutical industry, able to produce up to 840 sticks per minute with MSPH600. It complies with regulations such as GMP, GAMP5, FDA, and 21 CFR Part 11.

#### Optionals

MSPH600 4	MSPH600 6	MSPH600 8	MSPH600 10	MSPH600 12	MSPH600 14	MSPH300 2	MSPH300 3	MSPH300 4
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#### Products

Liquid / pasty	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Pieces	-	-	-	-	-	-	-	-
Powder	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Granules	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖

#### Closing Pouch Systems

Zipper	-	-	-	-	-	-	-	-
Corner spout	-	-	-	-	-	-	-	-
Top spout	-	-	-	-	-	-	-	-
Frontal spout	-	-	-	-	-	-	-	-
Straw applicator	-	-	-	-	-	-	-	-

#### Automations and User Friendly

Automatic changeover	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Quick changeover	-	-	-	-	-	-	-	-
Autosplice unwinder	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖

#### Die-Cut Solutions

Die-cut	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Tear notch	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Hole punch	-	-	-	-	-	-	-	-
Double scissors	-	-	-	-	-	-	-	-
Laser cut	-	-	-	-	-	-	-	-
Round edges	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖

#### Coding Systems

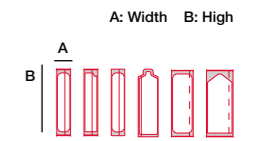
Laser	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Inkjet	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Thermo transfer	-	-	-	-	-	-	-	-
Emboss code	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖

#### Hygienic Solutions

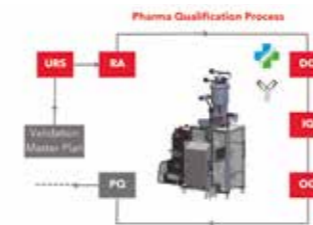
Gas flush	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Laminar flow	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
UV lamp	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖
Washdown	⊖	⊖	⊖	⊖	⊖	⊖	⊖	⊖

#### Technical Specifications

MACHINE	WIDTH MIN (mm)	WIDTH MAX (mm)	OUTPUT (p.p.m.)	REEL WIDTH MAX (mm)
MSPH600 4	17x50	60x160	280	620
MSPH600 6	17x50	45x160	360	620
MSPH600 8	17x50	35x160	480	620
MSPH600 10	17x50	25x160	600	620
MSPH600 12	17x50	20x160	720	620
MSPH600 14	17x50	17x160	840	620
MSPH300 2	17x50	60x160	140	320
MSPH300 3	17x50	45x160	210	320
MSPH300 4	17x50	35x160	280	320



#### Protocol DQ/IQ/OQ/PQ



Regarding the documentation focused on pharmacy, we offer the execution of DQ, IQ, OQ, RA, the redaction of PQ, and any other type of documentation upon the customer's requirement.

#### Artificial Vision Cameras



OCR/OCV technology is used to read and check expedition dates, batches, QR codes, and pharmacode.

#### Individual Exit Chute



Our vertical machine focused on pharmacy has the individual exit chute with a reject possibility. It makes us save material waste.

#### Full Servo and Stainless-Steel Machine



This machine is made of stainless steel in order to operate with pharmaceutical products. The full servo motorized system is also implemented into it, this gives you more coordinating control of the equipment movements.

#### Main Standard Features

- High performance, precision, and reliability
- Up to 14 lanes and 840 sticks per minute
- Compliance with GMP, GAMP5, FDA, and 21 CFR Part 11
- Full servo version
- Athena enabled (HMI and IIoT)



**New Controls: Athena**



**Adapted to Work with Sustainable Materials**



MSPH300



MSPH600

# Vertical ML Series

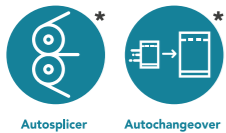
**MODELS**  
**ML1200, ML1000**

**This vertical multilane solution is the result of continuous design evolutions and innovations of our packaging lines**

There are two models of the ML Series: the ML1000 and the ML1200. A maximum of 14 lanes is available (depending on the model). The ML Series is especially suited for a multitude of products, granules, powders, and liquids. It is widely used in pharmaceutical, food, as well as the home and personal

care sectors. Additionally, we offer automatic downstream equipment, such as conveyors, pick and place robots, as well as cartooning facilities. The machines of the ML Series have the most recent motion technology with integrated PLC functions, which sequences seven brushless motors.

## Smart Functions



## Filling Section:

Liquids · Solids · Granules · Powders



## Packaging Formats



### Forming Section:

- Vertical sealing
- Horizontal sealing



### Exit Section:

- Systems: ramp, conveyor belt or pick and place
- Grouping and string options



### Unwinder Section:

- Servo driven unwinder



### Reject Section:

- Individual reject available

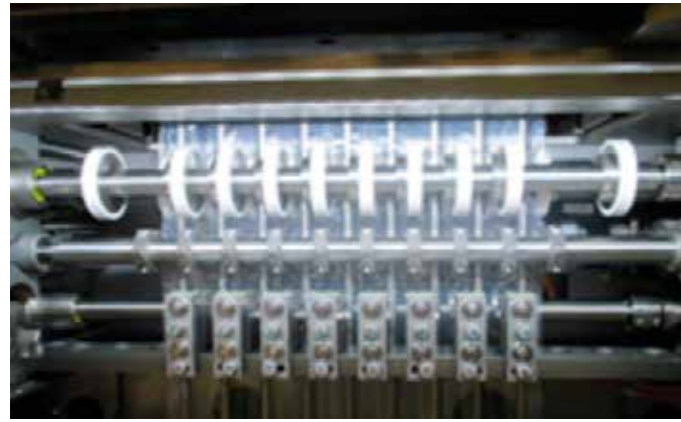


ML1000



ML1200

## Servo Motorized Drag Unit



Servo motor is integrated into the film transport system in order to control and correct its position. This system has more operational precision, and gives you more coordinating control of the equipment's movements.

## Clean In Place System



The Clean In Place process allows you to clean the filling circuit with disassembling the filler system, it is based on flushing hot water and chemical solutions through the equipment pipes that have direct contact with the products. its physical, chemical and bacterial action removes dirt and neutralizes surface microorganisms.

## Sealing Jaw Easy Opening

To archive a Total Productive Maintenance design, our sealing system can be opened easily to carry out a cleaning operation. Moreover, all driving units are inside frame to avoid product contamination.

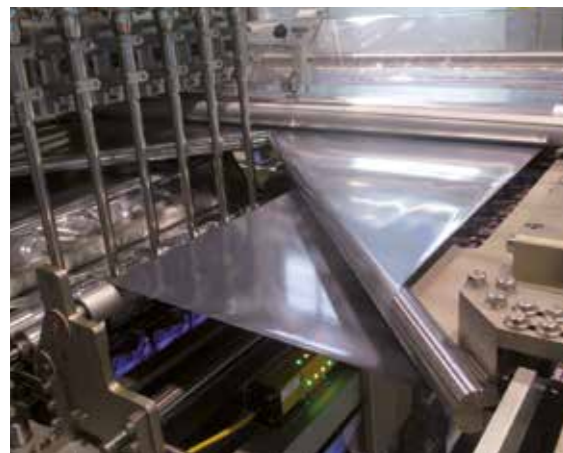


## New Controls: Athena

In harmony with its easy usability, this Series of machines continues to use the Athena platform, with which the operator can monitor, simultaneously, the OEE ratio as well as the ratio of rejected pouches, among others.



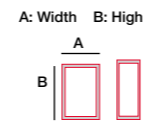
## Forming Area



The forming area of our ML Series allows to make easily the format changeovers, as a result of support design. Furthermore, the triangle position, such as the eyemark sensor, is controlled directly by HMI.

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	OUTPUT (p.p.m.)	MAX REEL WIDTH (mm)
ML1200 4	40x60	130x200	240-280	1.200
ML1200 5	40x60	120x200	300-350	1.200
ML1200 6	40x60	100x200	360-420	1.200
ML1200 7	40x60	80x200	420-490	1.200
ML1200 8	40x60	70x200	480-560	1.200
ML1200 9	40x60	65x200	540-630	1.200
ML1200 10	40x60	60x200	600-700	1.200
ML1200 12	40x60	50x200	720-840	1.200
ML1200 14	40x60	40x200	840-980	1.200
ML1000 4	40x60	120x200	240-280	1.000
ML1000 5	40x60	100x200	300-350	1.000
ML1000 6	40x60	80x200	360-420	1.000
ML1000 7	40x60	70x200	420-490	1.000
ML1000 8	40x60	60x200	480-560	1.000
ML1000 9	40x60	55x200	540-630	1.000
ML1000 10	40x60	50x200	600-700	1.000
ML1000 12	40x60	40x200	720-840	1.000



## Main Standard Features

- One brushless motor for the main film drive system and vertical cutting knives
- Two brushless motors for unwinder
- Two brushless motors for the vertical seal bars
- One brushless motor for horizontal cutting knives
- One brushless motor for horizontal seal bars
- Mono block tubular steel frame
- Integrated electric cabinet
- Micro switch protected polycarbonate guardings
- 18.5" color touch screen
- Free access to the entire machine
- PLC controlled temperatures in each seal bar
- PLC controlled auto lubrication
- Splice table in unwinder for quick reel change
- Auger cleaning management system
- Automatic reel edge aligner in unwinder
- TPM features
- CIP facilities
- Compliance with the primary manufacturing standards
- Laser coders and scorers (optional)
- ATEX compliance (optional)
- Film sterilization system (optional)
- Laminar flow (optional)

## Optionals

	ML1200 4	ML1200 5	ML1200 6	ML1200 7	ML1200 8	ML1200 9	ML1200 10	ML1200 12	ML1200 14	ML1000 4	ML1000 5	ML1000 6	ML1000 7	ML1000 8	ML1000 9	ML1000 10	ML1000 12
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### Products

Liquid / pasty	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Pieces	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Powder	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Granules	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

### Automations and User Friendly

Automatic changeover	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Quick changeover	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Autosplice unwinder	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

### Die-Cut Solutions

Die-cut	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Tear notch	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Eurohole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hole punch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Double scissors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laser cut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Round edges	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

### Coding Systems

Laser	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Inkjet	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Thermo transfer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emboss code	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

### Hygienic Solutions

Gas flush	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Laminar flow	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
UV lamp	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕
Washdown	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕

# Vertical MLC Series

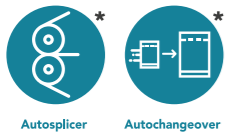
**MODELS**  
**MLC1200, MLC1000**

## High-speed vertical multi-lane solution for a bigger format produced in a continuous sealing system

The MLC Series offer two machine models: the MLC1000 and the MLC1200. A maximum of 14 lanes is available (depending on the model). Both machines are specially suited for a multitude of products such as solids, granules, powders and liquids. These type of models are not only widely used in pharmaceutical, and food, but also the home and personal care sector.

Additionally, we offer automatic downstream equipment, such as conveyors, pick and place robots, as well as cartoning facilities. The machines of MLC Series have the most recent technology with integrated PLC functions, which sequences arranges the brushless motors.

### Smart Functions

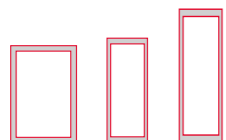


### Filling Section:

Liquids · Solids · Granules · Powders



### Packaging Formats



### Forming Section:

- Vertical sealing
- Horizontal sealing

### Exit Section:

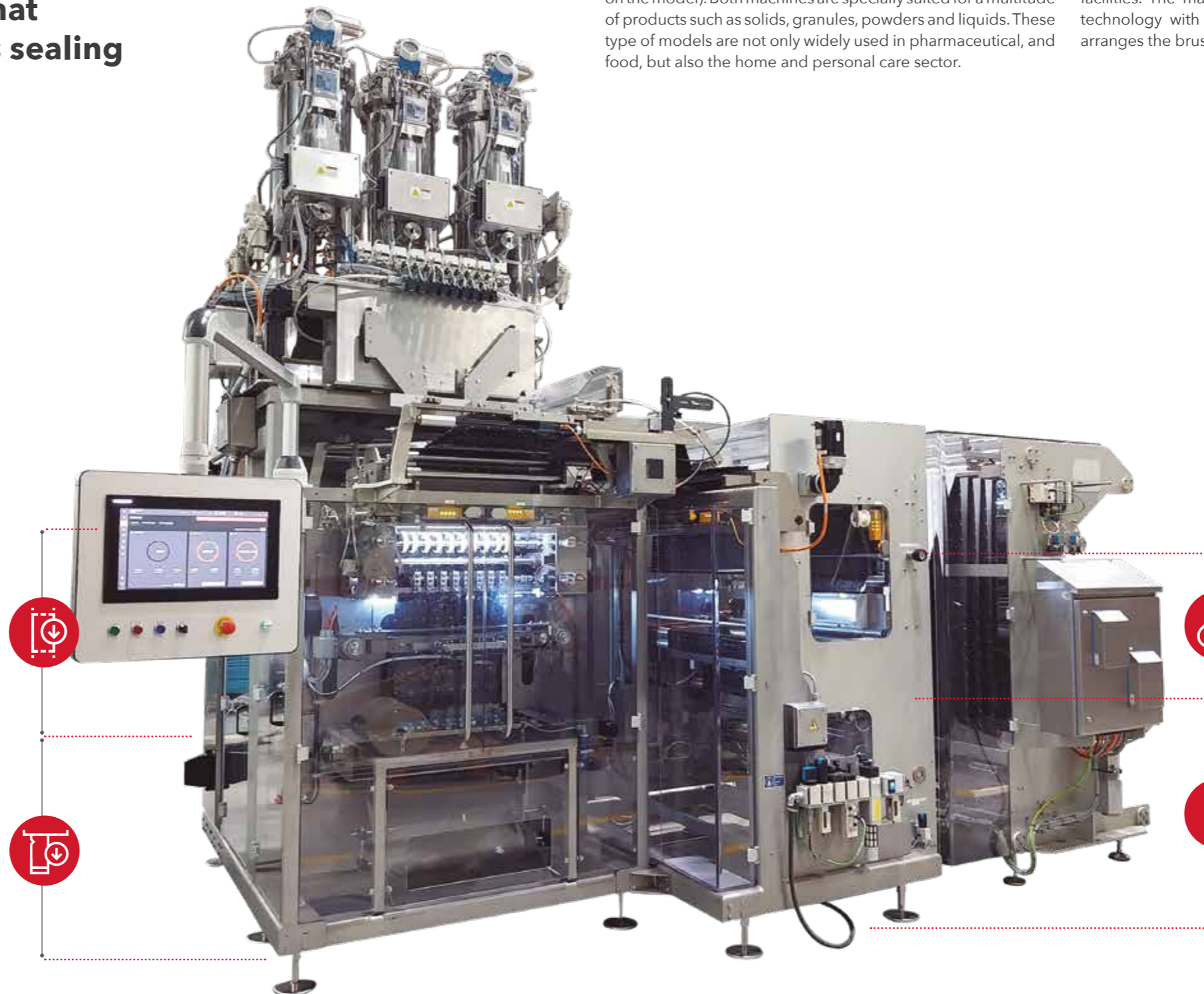
- Systems: ramp, conveyor belt or pick and place
- Grouping and string options

### Unwinder Section:

- Servo driven unwinder

### Reject Section:

- Individual reject available



MLC1000



MLC1200

# Vertical MLC Series

## Forming Area



The forming area of the MLC Series easily formats changeovers, as a result of its mobile support design. Furthermore, the triangle position, such as the eyemark sensor, is directly controlled by HMI.

## Quick Changeover (optional)



Up to five filling stations are available to increase the flexibility of the solution; this is dependent on the height of the pouch and space availability.

## Servo Motorized Drag Unit

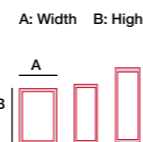


The servo motor is integrated into the film transport system in order to control and correct its position. This system has better operational precision and allows for a more coordinating control of the equipment's movements.

## Technical Specifications

MACHINE	AxB MIN (mm)	AxB MAX (mm)	OUTPUT (p.p.m.)*	MAX REEL WIDTH (mm)
MLC1200 4	40x60	130x120-80	400-600	1.200
MLC1200 5	40x60	120x120-80	500-750	1.200
MLC1200 6	40x60	100x120-80	600-900	1.200
MLC1200 7	40x60	80x120-80	700-1050	1.200
MLC1200 8	40x60	70x120-80	800-1200	1.200
MLC1200 9	40x60	65x120-80	900-1350	1.200
MLC1200 10	40x60	60x120-80	1000-1500	1.200
MLC1200 12	40x60	50x120-80	1200-1800	1.200
MLC1200 14	40x60	40x120-80	1400-2100	1.200
MLC1000 4	40x60	120x120-80	400-600	1.000
MLC1000 5	40x60	100x120-80	500-750	1.000
MLC1000 6	40x60	80x120-80	600-900	1.000
MLC1000 7	40x60	70x120-80	700-1050	1.000
MLC1000 8	40x60	60x120-80	800-1200	1.000
MLC1000 9	40x60	55x120-80	900-1350	1.000
MLC1000 10	40x60	50x120-80	1000-1500	1.000
MLC1000 12	40x60	40x120-80	1200-1800	1.000

\*Production reference values based on sachet lengths of 120-80. The smaller sachet length, the faster the production speed.



## Continuous Sealing Unit

The forming area includes a continuous sealing station that allows for the production of longer pouches with larger quantities of the product inside.



## New Controls: Athena

In harmony with its easy usability, this Series of machines continues to use the Athena platform, with which the operator can monitor, simultaneously, the OEE ratio as well as the ratio of rejected pouches, among others.



## Main Standard Features

- One brushless motor for the main film drive system and vertical cutting knives
- Two brushless motors for unwinder
- Two brushless motors for the vertical seal bars
- One brushless motor for horizontal cutting knives
- One brushless motor for horizontal seal bars
- Mono block tubular steel frame
- Integrated electric cabinet
- Micro switch protected polycarbonate guardings
- 18.5" color touch screen
- Free access to the entire machine
- PLC controlled temperatures in each seal bar
- PLC controlled auto lubrication
- Splice table in unwinder for quick reel change
- Auger cleaning management system
- Automatic reel edge aligner in unwinder
- TPM features
- CIP facilities
- Compliance with the primary manufacturing standards
- Laser coders and scorers (optional)
- ATEX compliance (optional)
- Film sterilization system (optional)
- Laminar flow (optional)

## Optionals

	MLC1200 4	MLC1200 5	MLC1200 6	MLC1200 7	MLC1200 8	MLC1200 9	MLC1200 10	MLC1200 12	MLC1200 14	MLC1000 4	MLC1000 5	MLC1000 6	MLC1000 7	MLC1000 8	MLC1000 9	MLC1000 10	MLC1000 12
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### Products

Liquid / pasty	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Pieces	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Powder	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Granules	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

### Automations and User Friendly

Automatic changeover	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Quick changeover	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Autosplice unwinder	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

### Die-Cut Solutions

Die-cut	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Tear notch	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Eurohole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hole punch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Double scissors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laser cut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

### Coding Systems

Laser	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Inkjet	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Thermo transfer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

### Hygienic Solutions

Gas flush	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Laminar flow	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
UV lamp	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
Washdown	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

Water soluble Pods

# HYDROFORMA Series

**MODELS**

**HYDROFORMA 660 DS, HYDROFORMA 660,  
HYDROFORMA 330, HYDROFORMA 165**

**The Mespac Cloud Hydroforma product line includes fast changeover time, less machine footprint, and a speed up to 2400 ppm**

Pods are the fastest growing packaging format in the home care sector. They currently account for 11% of the laundry detergent market. Water soluble pods are one of the trendiest and fastest growing Consumer Packaged Goods (CPG)/Fast-moving Consumer Goods (FMCG) categories. This innovative format was pioneered by Mespac and our revolutionary Hydroforma line, which is comprised of high speed water soluble pod machines. With speeds up to 2,400 pods per minute, the Hydroforma is the industry performance leader. The Hydroforma line is relevant in reference to raw material speed. The Mespac Hydroforma line is also the leader in sustainability; it produces less waste than other

leading competitors and operates at substantially faster speeds than competing machines. Water soluble pods are the fastest growing category in CPG/FMCG. Mespac, a soluble pioneer, dominates this category with unrivaled performance, speed, efficiency and format flexibility. Laundry detergent is only one of the categories being reshaped by this innovative packaging change. More global, national and regional brands are moving toward this format as well. Strong consumer preference, driven by convenience, consistency, waste reduction, and perception of quality, suggest that this format will continue to expand. The Hydroforma double its speed in liquid, and it has less footprint.



### Smart Functions



Autosplicer Recyclable Ready Advanced Maintenance

\* Optional \*\* Optional 660 and 660DS

### Packaging Formats



Hydroforma  
660 DS



Hydroforma  
660



Hydroforma  
330



Hydroforma  
165

# Water Soluble Pods HYDROFORMA Series

## Precision Filling System for Liquids & Powders



The Hydroforma can simultaneously load powders and/or liquids. The high precision, servo-driven product management features give an accurate assurance of your desired product amount.

## Pouch Detector System minimizes Clean-Ups



Our unique pouch detector vision system checks for proper film forming in drum cavities. If there is no detected film, no fill takes place. This feature saves you valuable time, by preventing unnecessary clean-ups.

## Patented Gentle Handling Protects Pouches



The Hydroforma Series maintains careful pouch control during and after the cutting process, preventing damage at every stage.

## Purging trough Speed Changeovers



Eliminate the wasting valuable film. Quick changeover purging trough quickly slides into place to purge old product, and prime the new.

## Autosplicer



Our autosplicer system for the water soluble pods equipments allows you to make a reel quick changeover without downtime.

## Mespack's Unique Forming Drum



The unique Hydroforma forming drum is customized to each customer's application. This Series supports up to 18 lanes for maximum speed and low conversion cost, our exclusive vacuum system holds films in place as it is thermoformed to cavity depth. Afterwards, it creates a no-leak bond between film layers.

## Technical Specifications

MACHINE	A MAX (mm)	B MAX (mm)	PROD PODS/MIN (POWDER)	PROD PODS/MIN (LIQUID)
<b>HYDROFORMA 660 DS</b>	152.4	152.4	2400	1400
<b>HYDROFORMA 660</b>	152.4	152.4	2400	900
<b>HYDROFORMA 330</b>	152.4	152.4	1200	450
<b>HYDROFORMA 165</b>	152.4	152.4	-	180



## Main Standard Features

- Full servo version
- Computer backed HMI
- Accurate doses
- End-user convenience
- Enhancement of user safety features
- Precision filling system for liquids & powders

## Minimize Changeover Time

The Hydroforma Series is designed with the best quick-change technology, giving it an extremely efficient production time. Furthermore, this series provides maximum versatility.

## Precision filling system for liquids and/or powders

We use Siemens or Allen-Bradley controls for reliability and the highest possible precision for all equipment functions. This includes all functions along the web path, thermoforming, product filling, pouch sealing and integration with all downstream packaging and secondary packaging functions.

## Pouch detector system minimizes clean-ups

Our unique Pouch Detector vision system checks for proper film forming in drum cavities. If there is no detected film, no fill takes place. This feature saves you valuable time, by preventing unnecessary clean-ups.

## Purging trough speed changeovers

No more wasting valuable film! Mespack Cloud's quick changeover Purging Trough quickly slides into place to purge old product, and prime the new.

## Patented gentle handling protects pouches

The Hydroforma Series maintains careful pouch control during and after the cutting process, preventing damage at every stage.

## Reduced Footprint

A compact frame design to reduce machine footprint, while retaining all features and improvements.

## Optionals

**HYDROFORMA 660 DS**  
**HYDROFORMA 660**  
**HYDROFORMA 330**  
**HYDROFORMA 165**

### Products

Liquid / pasty	☺	☺	☺	☺
Pieces	-	-	-	-
Powder	☺	☺	☺	☺
Granules	☺	☺	☺	☺

### Feed Systems

Servo pump (liquid)	☺	☺	☺	☺
Pneumatic pump (liquid)	☺	☺	☺	☺
Auger (powder)	☺	☺	-	-
Feed belt (powder)	☺	☺	☺	☺
Combination units (powder & liquid)	☺	☺	☺	☺

### Pod Design Capability

Monodose (single chamber)	☺	☺	☺	☺
Dual chamber	☺	☺	☺	☺
Triple chamber	☺	☺	☺	☺
5 Chamber designs	☺	☺	-	-
Powder & liquid combinations	☺	☺	☺	☺
Dual Shot Nozzle	☺	-	-	-

### Control Platforms

Allen bradley	☺	☺	☺	☺
Siemens (SIMOTION)	☺	☺	☺	☺

### Product Development

Pod design	☺	☺	☺	☺
Static testing (hand samples)	☺	☺	☺	☺
Dynamic testing (speed testing)	☺	☺	☺	☺
Pod regulatory compliance	☺	☺	☺	☺

### Efficient Design

Liquid purge tank	☺	☺	☺	☺
Sliding nozzle bar	☺	☺	☺	☺
E-Z Depth drum adjustments	☺	☺	☺	☺
Autosplicing	☺	☺	-	-

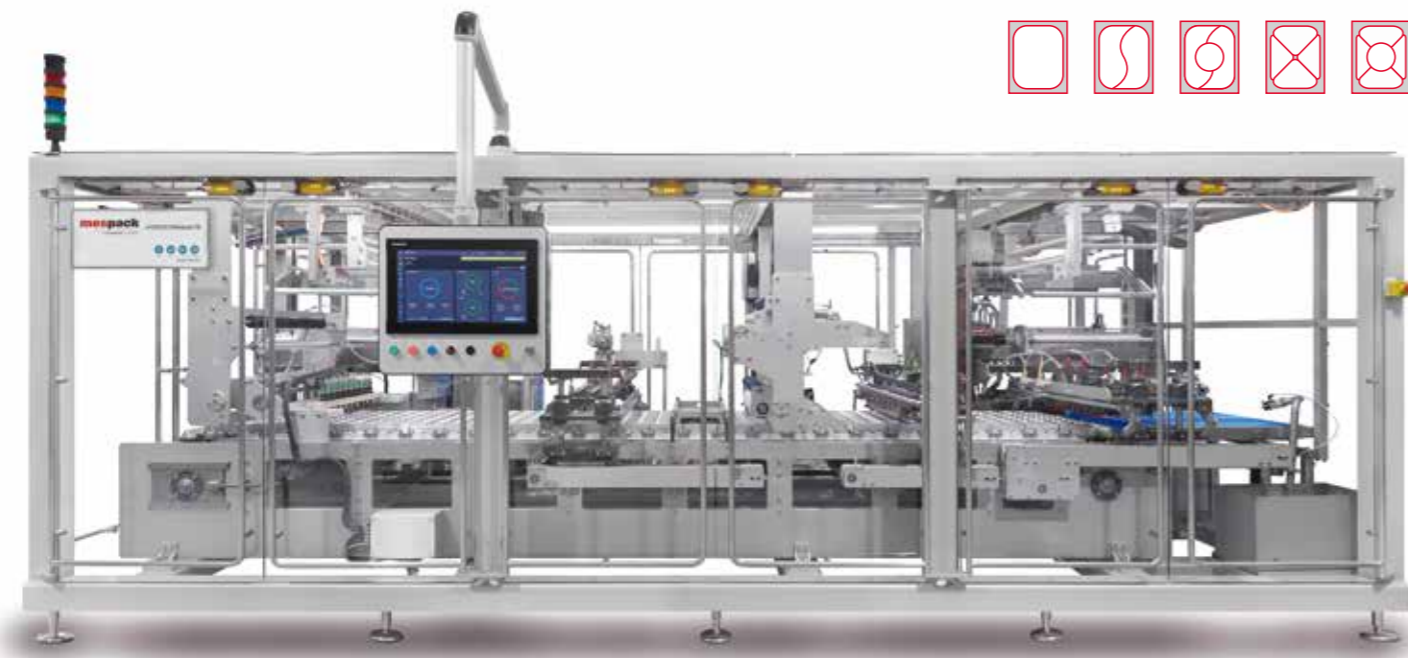
# Water soluble Pods HYDROFORMA FB Series

## MODELS HYDROFORMA 660 FB

### The most advanced and reduced-footprint water-soluble pod packaging solution for high production requirements

The Hydroforma 660 FB machine has been created by combining the know-how of the HFFS machines and the technology of the water-soluble film machines. It has a flexible and compact design, which was developed to guarantee high production speed. The Hydroforma 660 FB has the capacity to produce between 7 and 20 lines of pods, the largest pod capacity is 90 mm wide. Depending on the design, the machine can reach speeds of up to 2000 PPM (Pods Per Minute), this is 122% faster than Hydroforma 660 rotary machines in liquid dosing.

#### Packaging Formats

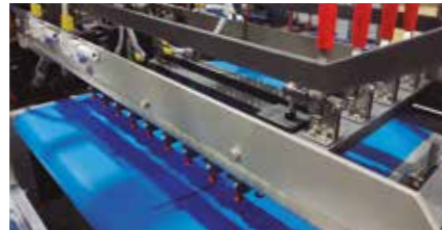


#### Pod Slitting Blades



The blades are pneumatically operated. Furthermore, they allow for quick and easy assemblies to maximize handling safety.

#### Transfer to Conveyor Belt



The pods are transferred to a conveyor belt by individually controlled vacuum suction cups. The film trimmings waste is removed by a suction system that is located on both sides of the conveyor belt.

#### Preheated Blade Group

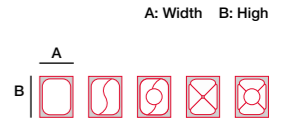


It is a servo-driven unit with blades that move up and down. This makes them a safe cutting system and facilitates the separation of the strings into individual pods.

### Technical Specifications

MACHINE	MAX WIDTH (mm)	MAX HEIGHT (mm)	PROD PODS/MIN
HYDROFORMA 660 FB	90	90	2400*

\*Output estimated for a liquid 3-cavity capsule, 50 x 50 mm, alongside a certain product viscosity.



### Smart Functions



\* Optional

### Cavity Detector System



Our unique cavity detector with an ultrasonic system monitors proper film formation in cavities. Hence, if the film is not detected, the performance of fill does not take place. This feature saves you valuable time, by preventing unnecessary clean-ups.

### Precision Filling System for Liquids or Powder



The Hydroforma can simultaneously load powders and/or liquids. The high precision, servo-driven product management features give an accurate assurance of your desired product amount.



New Controls: Athena

In harmony with its easy usability, this Series of machines continues to use the Athena platform, with which the operator can monitor, simultaneously, the OEE ratio as well as the ratio of rejected pouches, among others.



Working with biodegradable material (PVOH)

Polyvinyl Alcohol (PVOH) is used to produce pods. According to *American Cleaning Institute*, at least 60% of the film biodegrades within 28 days, and 100% of the film is biodegraded in 90 days or less.

### Optionals

HYDROFORMA 660 FB

#### Products

Liquid / pasty	<input checked="" type="checkbox"/>
Pieces	<input type="checkbox"/>
Powder	<input checked="" type="checkbox"/>
Granules	<input checked="" type="checkbox"/>

#### Feed Systems

Servo pump (liquid)	<input checked="" type="checkbox"/>
Pneumatic pump (liquid)	<input checked="" type="checkbox"/>
Volumetric (powder)	<input checked="" type="checkbox"/>
Combination units (powder & liquid)	<input checked="" type="checkbox"/>

#### Pod Design Capability

Monodose (single chamber)	<input checked="" type="checkbox"/>
Dual chamber	<input checked="" type="checkbox"/>
Triple chamber	<input checked="" type="checkbox"/>
4 Chamber designs	<input checked="" type="checkbox"/>
5 Chamber designs	<input checked="" type="checkbox"/>
Powder & liquid combinations	<input checked="" type="checkbox"/>

#### Control Platforms

Allen bradley	<input checked="" type="checkbox"/>
Omron	<input checked="" type="checkbox"/>
Siemens (SIMOTION)	<input checked="" type="checkbox"/>

#### Efficient Design

Liquid purge tank	<input checked="" type="checkbox"/>
Sliding nozzle bar	<input checked="" type="checkbox"/>
Autosplicing	<input checked="" type="checkbox"/>





# Secondary packaging

## The importance of secondary packaging

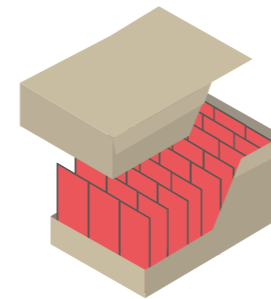
We offer integrated solutions for your end-of-line production requirements. From cans, bottles, capsules, and solid products to flexible packaging, our end-of-line solutions have the ability to provide you a complete Turnkey Project.



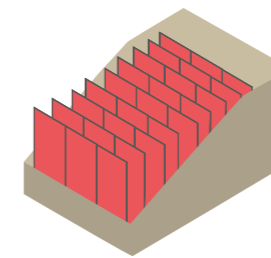
Secondary packaging plays an important role regarding the diverse facets of a product, the most important being the protection given to the product and primary packaging during transportation. Other important aspects include those in reference to display, distribution, and branding.



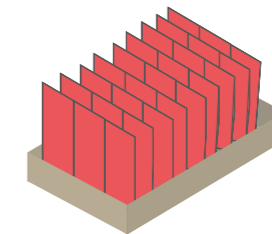
In regard to our available secondary packaging solutions, at Mespac, we focus on those which are the most sustainable, particularly cardboard based solutions.



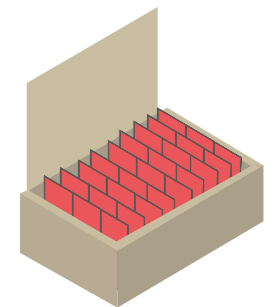
Lid and Tray



Display

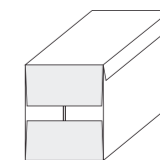


Tray

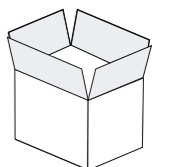


Wrap-Around

Discover the Mespac solutions that best meet your needs: The Wrap-Around and the American Box



Wrap-Around



RSC/American Box

Besides primary and secondary packaging, we develop tailored-made palletizing solutions

Secondary Packaging

# WRAP - AROUND - W Series

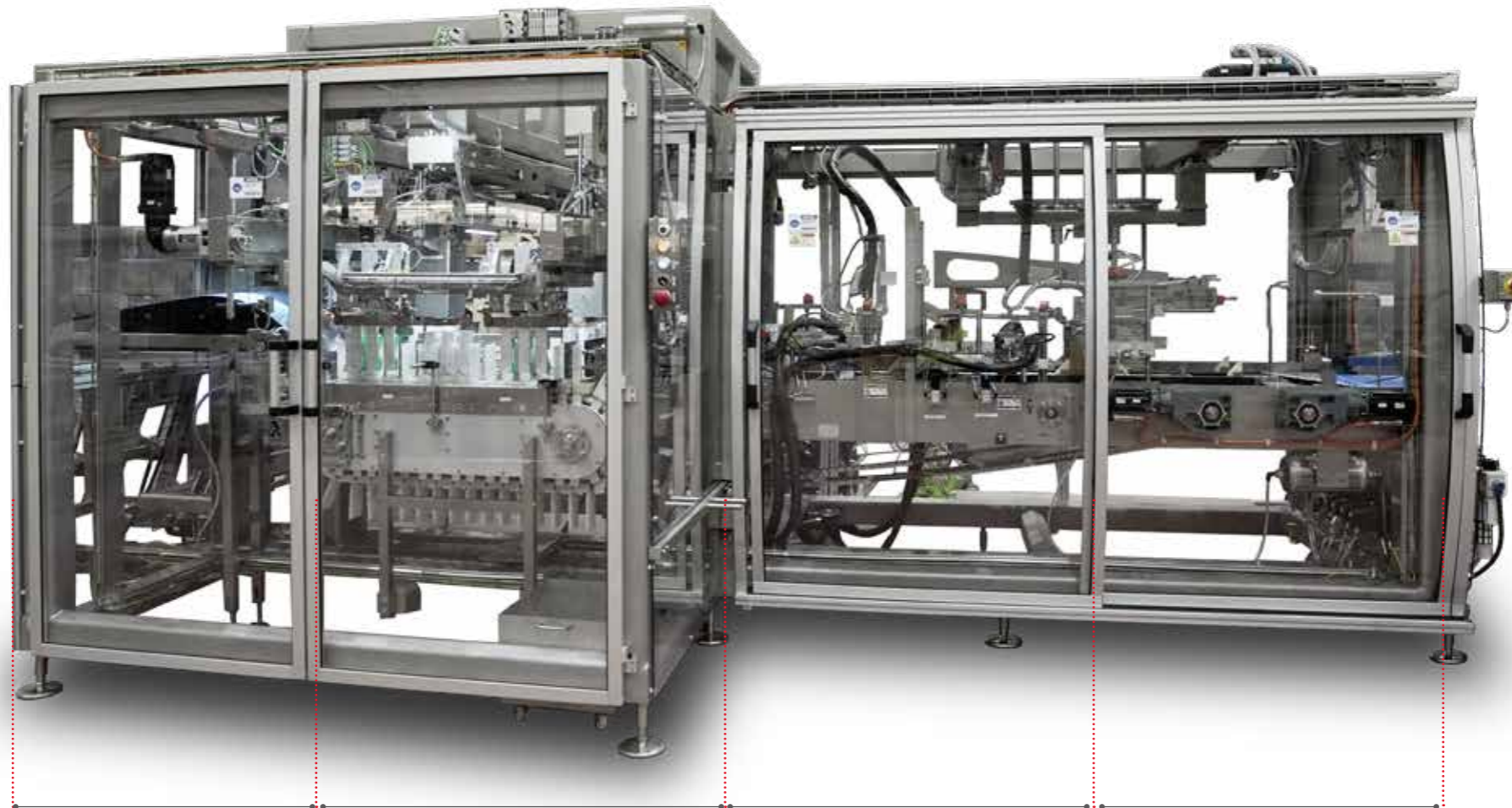
MODELS

W8600, W8401, W8400,  
W7301, W7001, W7000

**High production capacity for small spaces  
and low operator maintenance time**

The wrap-around packaging system requires only one machine which uses a flat cardboard blank that is wrapped around the product and sealed with jets of hot glue. As a result of this system, a single machine can reach high production speeds, consequently reducing space and lowering maintenance costs.

A single operator is able to cover two wrap-around machines in the same room without any assistance. We offer equipment adapted to intermittent and continuous cycles, depending on the wrap-around model and the requirements of the product to be packed.



**Primary Packs infeed Section:**

- Flat or standup pouches and/or doypacks
- Cartons
- Pillow Bags
- Flow packs
- Blisters
- Rigid containers
- Shrink wrapped packs

**Case or Tray Performing Section:**

- Run uneven or even flaps
- Lid Module
- Carton separator

**Single or Twin Case Filling Section:**

- Stacker belt
- Robots
- Pushers
- Pick and Place

**Case forming Section:**

- Folding
- Flaps
- Gluing
- Squaring
- Compacting

**M/C Exit Section:**

- Closed flaps inspection
- Case turning
- Exit
- Conveyor
- Boxes check weigher

**Smart Functions**



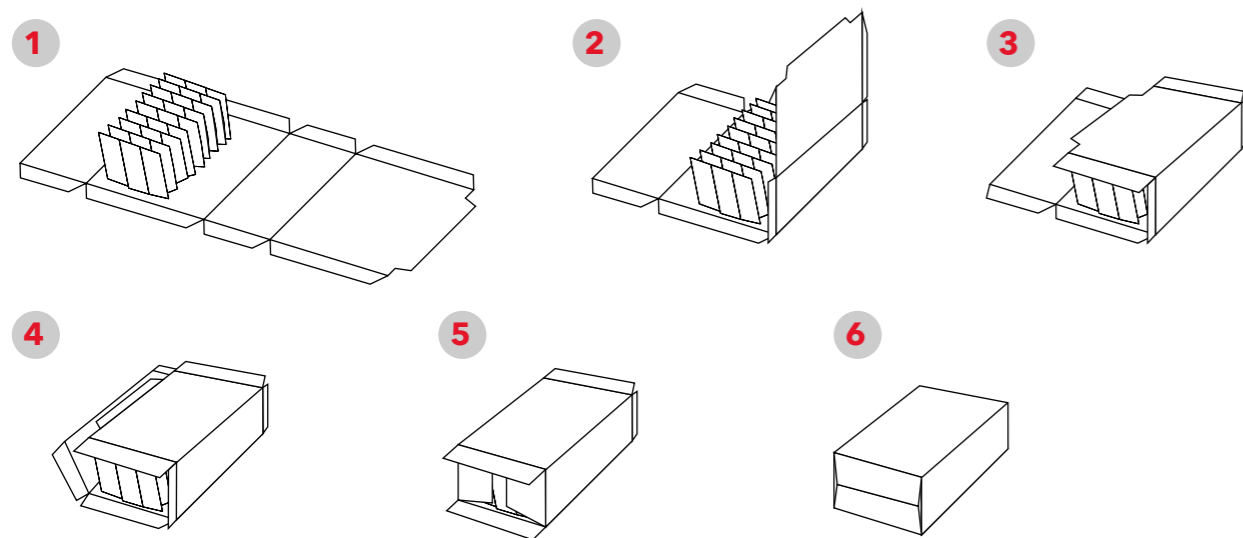
Autochangeover Recyclable Ready Connectivity Athena Inside Advanced Maintenance

\* Optional



# Secondary Packaging WRAP-AROUND-W SERIES

## How a Wrap-Around box is assembled in a continuous machine



## W Series forms and seals the case automatically around the product

The W Series stands for versatility. This series of equipment offers versions that are adapted to all types of packaging as well as a wide range of formats, box sizes, and trays, including display trays up to 600x400 mm and boxes with independent lids, which are also created by the machine itself.



The use of sustainable materials is not the sole objective. The W Series allows for significant saving in packaging material, due to the type of boxes produced. The higher the production, the greater the cardboard savings.

**Mespack Wrap-Around Technology offers higher production capacity in a smaller space and low maintenance downtime.**

A single operator is able to cover two wrap-around machines in the same room without any assistance.

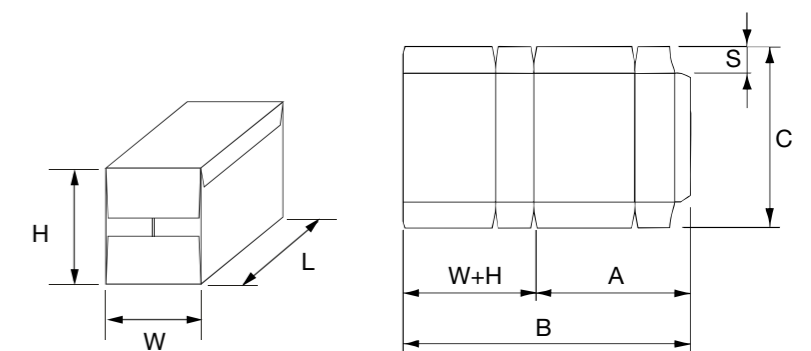
We offer equipment that is adapted to intermittent cycles and continuous cycles, depending on the wrap-around model and the requirements of the product to be packed.

In regard to intermittent equipment, we have the W7200 and W700 PRO models, which are capable of packing 10 to 20 boxes per minute. In reference to the W8400, W8500 and W8600 models, we have continuous cycle equipment which pack up to 42 boxes per minute.

## Cardboard material optimization can pack all kind of containers

### Main Standard Features

- Boxes filled by a robot, arms, pushers or pick and place devices according to the product and packaging configuration
- Capacity to handle trays
- Open flaps detection
- Automatic hotmelt feeder (optional)\*
- Case weight check (optional)
- Full automatic changeover (optional)
- Extended blanks magazine
- Electronic synchronization (one servo motor for every device)
- Specific speed program for each format



### Technical Specifications

INTERMITTENT & CONTINUOUS MOTION	L (mm)	W (mm)	H (mm)	W+H	S	A	B	C	OUTPUT CASES / MINUTE (cpm)
<b>W8600</b>	450 max 185 min	390 max 120 min	385 max 110 min	660 max 300 min	160 max 40 min	710 max 350 min	1370 max 650 min	700 max 270 min	Up to 42 cpm
<b>W8400</b> <b>W8401</b>	500 max 190 min	350 max 120 min	400 max 105 min	600 max 310 min	140 max 40 min	750 max 250 min	1450 max 500 min	700 max 270 min	Up to 25 cpm
<b>W7000</b>	600 max 220 min	400 max 100 min	400 max 60 min	700 max 160 min	150 max 50 min	750 max 190 min	1450 max 350 min	900 max 220 min	Up to 18 cpm
<b>W7001</b>	600 max 220 min	400 max 100 min	400 max 100 min	700 max 160 min	150 max 50 min	750 max 190 min	1450 max 350 min	900 max 220 min	Up to 18 cpm
<b>W7301</b>	600 max 220 min	300 max 100 min	320 max 100 min	600 max 200 min	150 max 50 min	630 max 230 min	1300 max 350 min	900 max 220 min	Up to 20 cpm

# Secondary Packaging

# AMERICAN BOX - EF Series

(Regular Slotted Containers)

**MODELS**  
**EF100**

## Automatic american box machine to provide turnkey solutions for the flexible packaging market

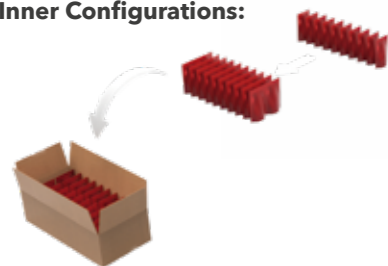
At Mespac, we provide turnkey projects of flexible packaging to the market. One of our solutions is the American box packing module EF100, which consists of three equipments connected in one: case erector, picking, and case sealer. The flexible pouches can be grouped horizontally or vertically inside the boxes, and the maximum speed is up to 20 cases per minute.

 **New Controls: Athena**

 **Adapted to Work with Sustainable Materials**



**Inner Configurations:**



Vertical

**Product:**



Flow packs

Stand-up Pouches

**Smart Functions**



Autochangeover Recyclable Ready Connectivity Athena Inside Advanced Maintenance

\* Optional

### Technical Specifications

MACHINE	OUTPUT (Cases/min)	FORMAT MAX LxWxH (mm)	FORMAT MIN LxWxH (mm)	SEALING SYSTEM
<b>EF100</b>	20	600x400x600	240x120x160	Tape, Hot Melt

Final speed will depend on product and film characteristics

### Acceleration Belt



This belt speeds up to change the distance between two pouches from the previous station in order to be adapted to the picking speed.

### Indexing System



This system allows pouches or other containers to be properly aligned for the next packaging step.

### Picking System



This system works with different patterns, it is specially designed to pick pouches from the indexing system and place them in the correct position in order to be introduced.

### Pouches Introduction



After the grouping and picking process, all the pouches are introduced into the box at once.

### Case Assembly Process

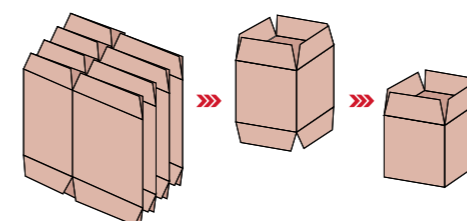
**CASE ERECTOR**  
F Series



**PICK & PLACE MODULE**  
Includes grouping and transfer system



**CASE SEALER**  
T Series  
C Series



American Box  
EF100

# Secondary Packaging AMERICAN BOX - MCP Series

(Regular Slotted Containers)

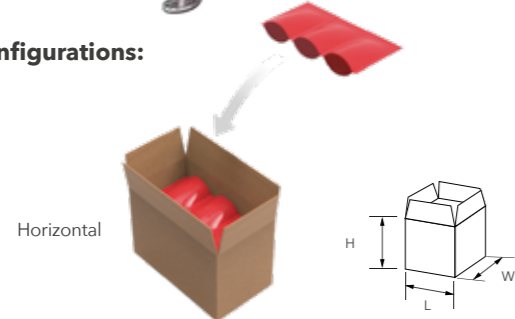
**MODELS**  
MCP4, MCP3, MCP2, MCP1

## Automatic american box machines with robotic picking system integrated for the flexible packaging market

MCP Series is our new picking equipment for secondary packaging in order to provide turnkey solutions in the RSC market. The MCP Series machines have the latest technology integrated such as Delta Robot and full servo equipped. Thanks to its versatility, up to 4 picking modules are available in order to increase the production speed.



### Inner Configurations:



### Product:



### Smart Functions



### Technical Specifications

MACHINE	OUTPUT * (Cases/min)	MAX. INFEED (p.p.m.)	FORMAT MIN LxWxH (mm)	FORMAT MAX LxWxH (mm)
<b>MCP 4</b>	40	200	200x150x150	500x325x520
<b>MCP 3</b>	30	150	200x150x150	500x325x520
<b>MCP 2</b>	20	100	200x150x150	500x325x520
<b>MCP 1</b>	10	50	200x150x150	500x325x520

\* Final speed may change depending on the project. The speeds are calculated based on: a 500ml pouch (120x220x60mm), an entry speed of 120ppm, cases inner configuration of 3x1x4 (up to 6kg) with full layer transfer.

### Vision System



The vision system is integrated into the machine entry. It is used to detect pouch position in order to transmit it to the picking robot.

### Picking System



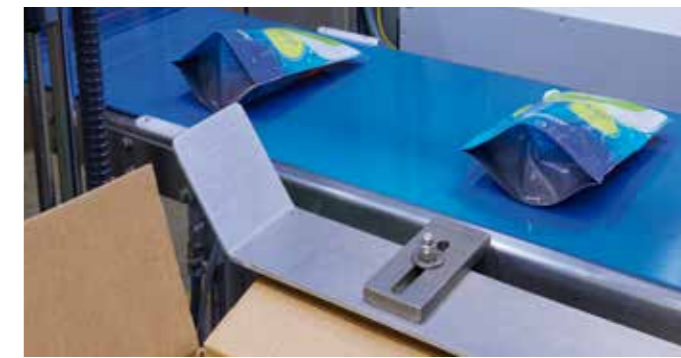
A delta robot is used to pick pouches and place them inside of american box in a horizontal position. Up to 160 picks per minute are possible with a model MCP4.

### Automatic Changeover Belt



This belt is able to do an american box format changeover through HMI in less than the 30s thanks to its full servo characteristic.

### Flap Control Guides



These guides are responsible to keep the flaps always in open position.

### Case Assembly Process



**New Controls: Athena**



**Adapted to Work with Sustainable Materials**



Delta Robot



American Box EF100

# Turnkey Solutions

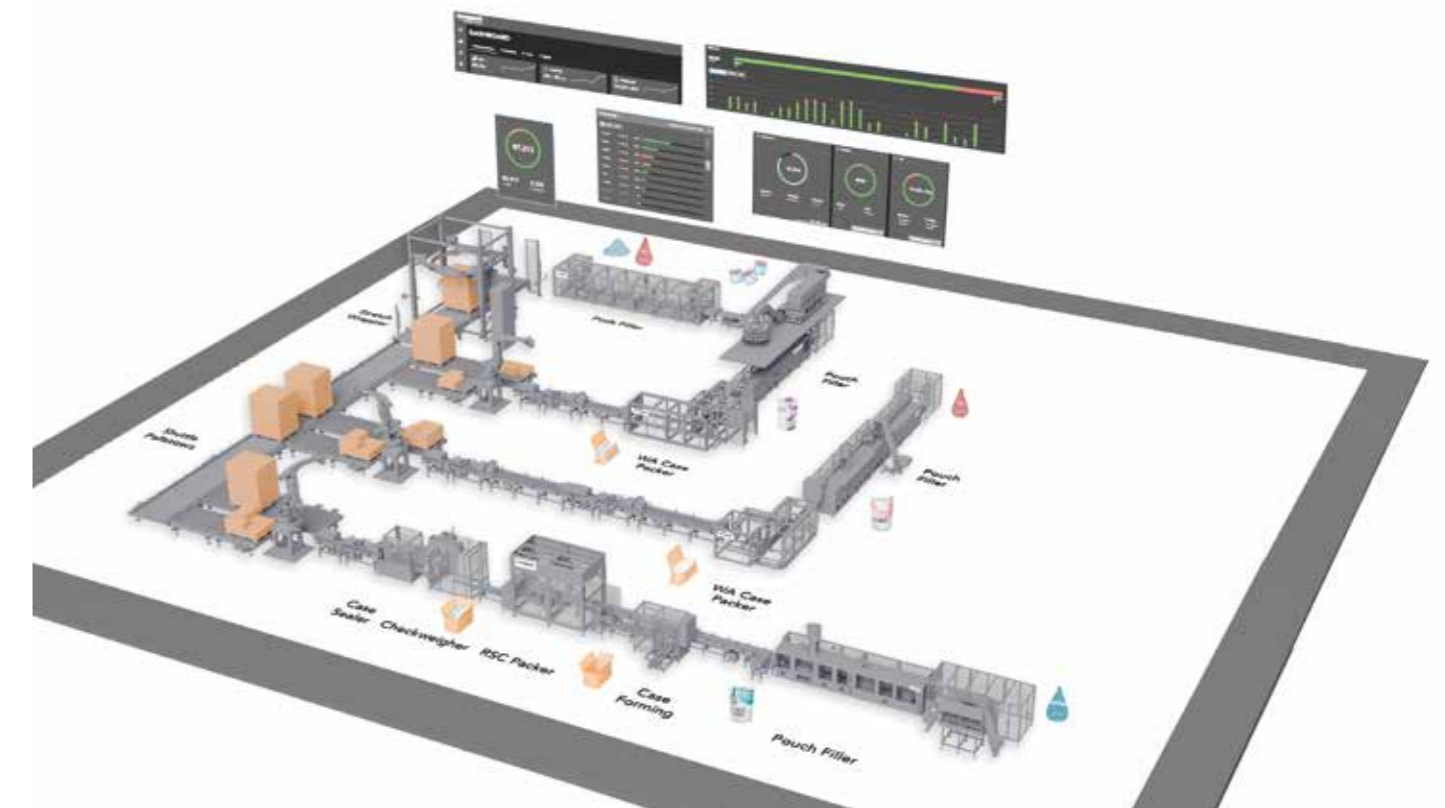
## Simplify Your Packaging Projects

### How to Maximize Results by Reducing Risks with One Single Partner

Our comprehensive **turnkey solutions** are our standout offering in the industry. They provide a fully integrated approach that covers every aspect of your packaging production plant: from initial design to final installation of primary, secondary, end-of-the-line or palletizing packaging. Beginning on day one, we deliver a complete and ready-to-run solution.

In addition to providing a fully equipped production plant, we ensure **seamless connectivity between all machines within the line**. This interconnected system enables real-time data exchange and coordinated operation, thus allowing you to **produce more efficiently, maximize productivity, minimize downtime, and maintain consistent high-quality results**.

We do not offer standard solutions. Alternatively, we analyze your product, current production setup, and business goals in order to design a fully customized system that is designed tailored to meet both your current and future needs.



#### How Mespac Delivers a Turnkey Project



Consultation  
& Design



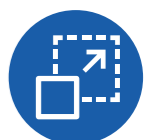
Manufacturing  
& Integration



Installation  
& Training

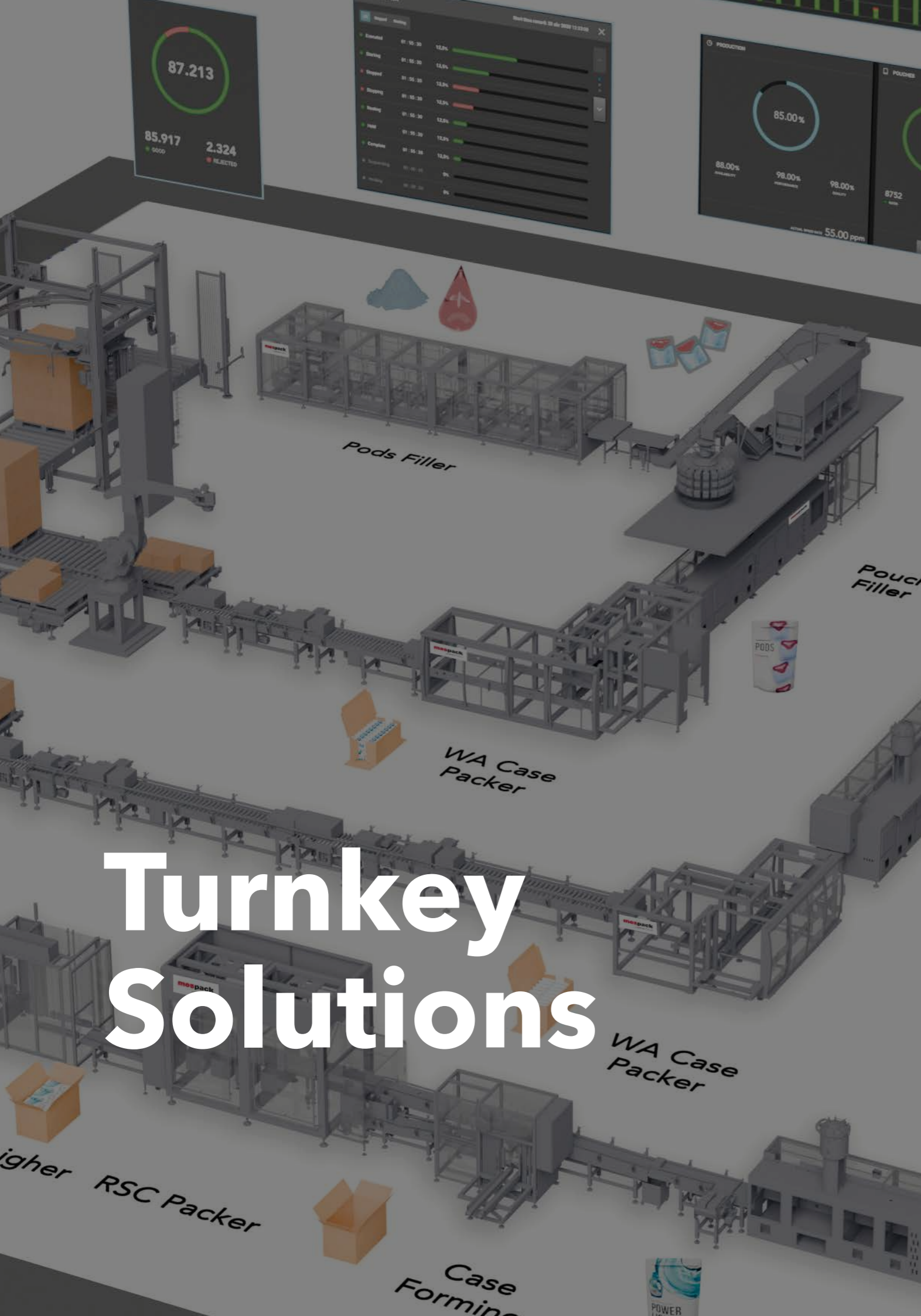


Ongoing  
support



Customized  
Solutions &  
Scalability

# Turnkey Solutions



# Turnkey Solutions: Simplify Your Packaging Projects

## Notes

### The Benefits of Implementing a Turnkey Project with Mespac



**One unique supplier that is for the entire project**, including equipment and services. Having a single point of contact reduces risks and streamlines communication for seamless project execution.



**Complete project vision** with the ability to customize machines and conveyors systems, as well as provide full solution service, which optimal footprint layout. Our turnkey lines are designed for scalability and rapid reconfiguration, hence enabling adjustments in speed, formats, materials, and automation without downtime.



**One Dedicated Project Manager.** We oversee all suppliers, processes, and timelines to ensure on-time and on-budget delivery. As a result, by centralizing project management, our customers' customers minimize time dedication and associated cost.



**Proven Technical Solutions.** The complete line will be tested at Mespac facilities during FAT.



**Profound Knowledge** of flexible packaging solutions, beginning with primary packaging through the complete end of line. Our multidisciplinary team provides end-to-end support, from consultation to startup and ongoing training, to ensure optimal performance and rapid issue resolution.



**Continuous Innovation and Digitalization.** We integrate Industry 4.0 technologies and real-time analytics into our solutions, thus enabling predictive maintenance and enhanced operational efficiency. This ensures that your packaging line remains adaptable and competitive with evolving technological advances.



**Commitment to Sustainability and Energy Efficiency.** Our solutions not only ensure compliance with regulations, but also support your sustainability objectives.



Designing a customized turnkey solution



Manufacturing and integrating the complete line



Final machine commissioning as part of the SAT



**Discover how our turnkey solutions can transform your packaging process and take your production to the next level**

Contact us for a personalized consultation; take the first step toward a more efficient, flexible, and profitable operation.



## Mespack Headquarters

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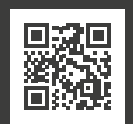
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