

Mespack promise

applications, turning our labour into a true co-creation,

thus positioning us at the forefront of innovation.

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:





preserve the environment and assist our customers

in the pursuit of their goals.

Live the journey of excellence with us

Nearly 30 years ago, Mespack 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 Mespack, 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, Mespack 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, Mespack 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. Mespack serves the food and beverage, pharmaceutical, chemical, pet food, confectionery, cosmetic, and personal care markets.

We have more than 17.700m2 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, Malaysia, Argentina, Brazil, Colombia, and Guatemala.



With the use of a laboratory environment, our Mespack 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.



Food



Pharmaceutical



Pet Food



Beverage



Home Care

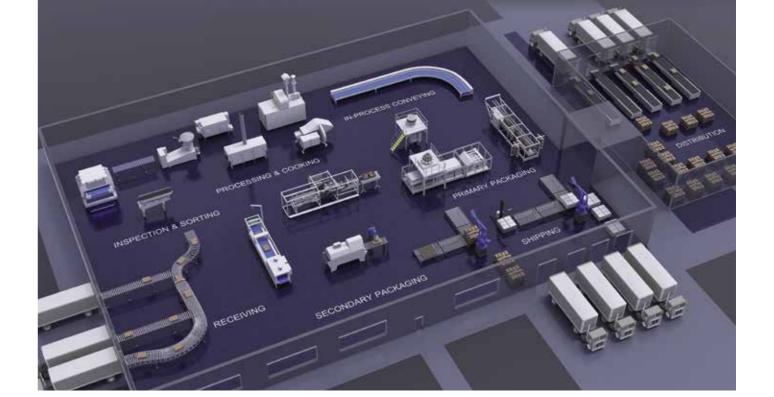












Delivering global solutions in food processing, packaging and material handling



Mespack 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.

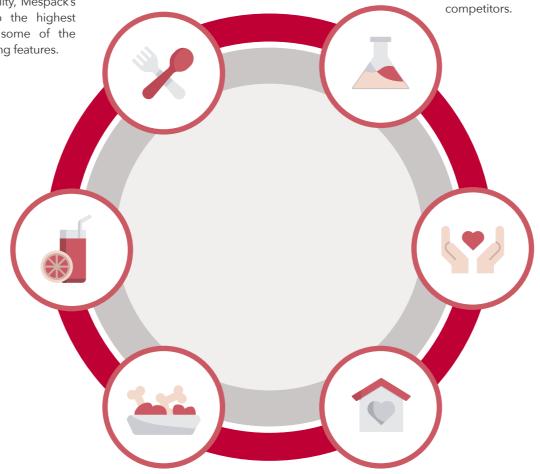
Pharmaceuticals

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.



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.



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.



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



REDUCING

the usage of packaging materialsper packed unit



REPLACING

traditionals 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 technologyfor new materials and higher OEE



REUSING

to avoid single useplastic packaging

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.

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.

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

RETROFITTING

installation base with technology for new materials and higher OEE

With over 3,000 machines on the market, we have designed an extended number of retrofits to adapt Mespack 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

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 PLA
- PHB
- Paper

REUSING

to avoid single-useplastic packaging

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











Innovative packaging for our future world

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

Innovation is part of Mespack'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 Mespack 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 Mespack is present, it is physically and visibly represented at our Mespack 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.







Mespack Innovation Centre

The Mespack 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.





































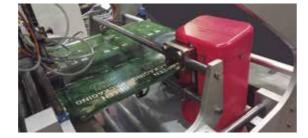
The new era of Smart Machines

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 is Mespack'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 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





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.



Recyclable Ready Mespack 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.



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.



Athena is a digital platform aimed to give our clients the power to maximize the value of their production data, due to its ability to perform a variety of tasks from machine control to data analytics.



Two solutions for data storage On-Premise/On-Cloud

On-premise consists of an industrial computer placed in the machine cabinet where all the data is stored and analyzed by Athena It can be accessed through either a wire or wireless connection. No internet access is required. Whereas On-Cloud option, an edge computer, placed in the machine cabinet, is responsible for collecting and sending data to the cloud through an internet con-



Data analist 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.

Benefits

- State of the art hardware
- User friendly UX/ UI interface
- Reduces the operator learning curve
- 85% screen functionalities in a single click or less
- Operator's empowerment
- Follows ISA 101 (visual comfort, ergonomics and UX)
- Same look and feel for all our machines portfolio



Savings and productivity improvement

- Increase throughput up to 4%
- Up to 3% increase of uptime
- Up to 1.5% improvement in quality
- Production cost improvement of up to
- Reduces scrap of up to 3%
- Reduction of maintenance costs by up to 200 hours per year



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









mespack

Your needs, our goals

The primary focus of the Mespack service team is to diligently attend and give support to our customers with an absolute sense of urgency, thus being reliable and efficient.

We have 30 years of expertise in and knowledge of the flexible packaging industry, qualifying us as highly trained technical service personnel and who are committed to meeting the demanding business needs required by our customers. Furthermore, having a presence in more than 90 countries, benefits our clients, as our experienced local field technicians are capable of swiftly responding. The sense of urgency is one of our values, thus we committedly work to offer the fastest spare parts service.

The Overall Solution for Your Company



Retrofits and Upgrades







Athena Inside Update





Production Support



Retrofits and Upgrades

Our dedicated Internal Project Team will support every single project with a customized upgrade or retrofitting solution with OEE focus. We emphasize the integration of sustainable materials with our equipment, thus offering retrofits and upgrades to our installed machines and enabling them to function with both recyclable, recycled or biodegradable laminates.



Maintenance Service Programs

In order to optimise productivity and reduce downtime, our Preventive Maintenance Program offers the most optimal service, ensuring that equipment is ready to work with maximum efficiency in order to meet the production plan. Consequently, delays and interruptions are minimized, while the life expectancy of your equipment is increased.



Spare Parts

Securing a dependable inventory of key spare parts for your equipment is crucial to the life of your business. At Mespack, we are extremely knowledgeable regarding the numerous lists of accessories, and are able to guarantee rapid and efficient management to reduce downtime. Furthermore, we ensure OEE, extend machine lifespan, and reduce TCO.



Athena Inside Update

To support the digital transformation that many industries are experiencing, we have developed Athena, a control suite platform that performs a variety of tasks, from machine control to data analytics. Our service team is eager and prepared to upgrade your machines, currently in use, with this platform, which will improve the efficiency of your equipment, as a result of analyzing the generated data.



Consultancy Services

Our field engineering team will run an onsite audit of your equipment, in order to offer you an optimization that is adapted to your production needs and decreases your overall costs, while increasing the efficiency of your equipment.



Production Support

Our field technical service engineers are able to support you not only by arranging the equipment commission, but also by auditing your equipment and ensuring that you maintain the equipment on its highest production levels.



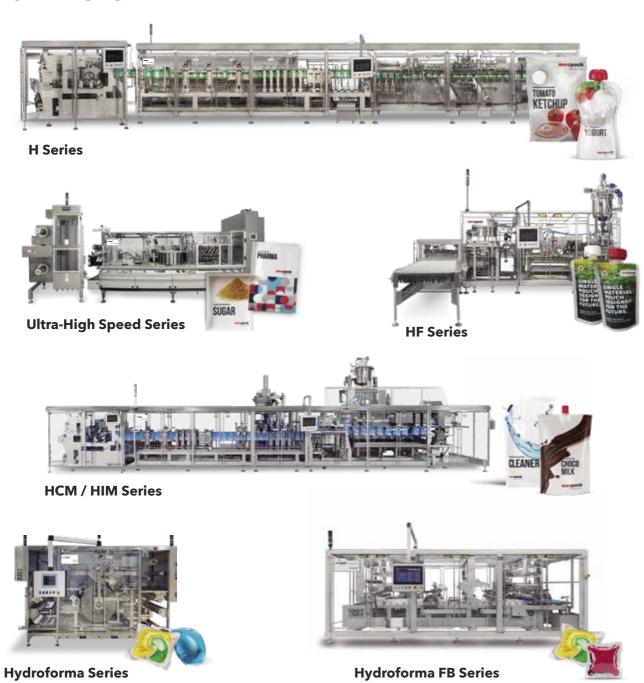




Your partner for the largest and most innovative portfolio

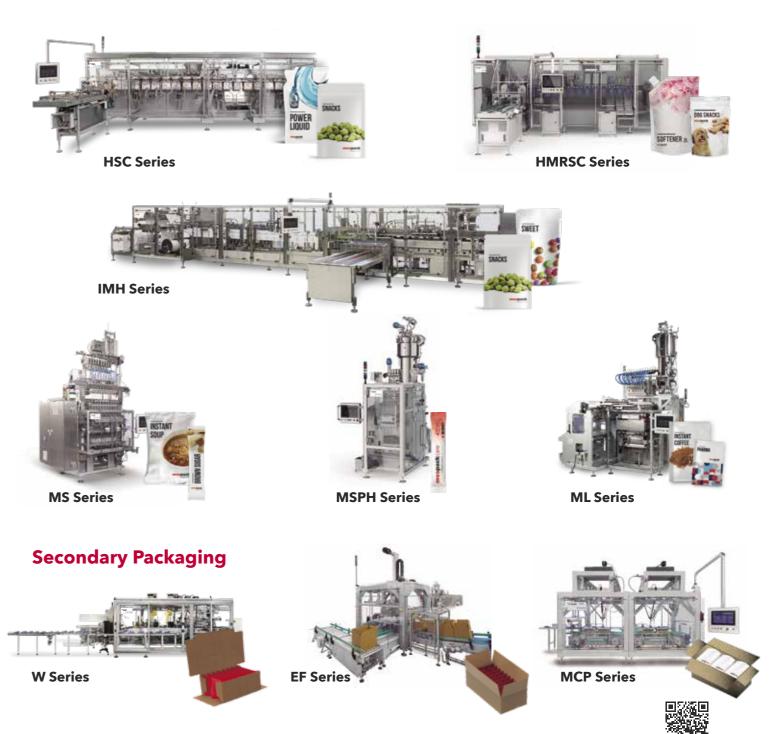
At Mespack, we have the most talented and experienced engineering team to design and provide customized integrated solutions, from the primary and secondary packaging to end-of-line. Furthermore, as a result of our knowledge and years of experience, we offer the best machines that suit the project requirements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

Primary Packaging



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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, Mespack 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.

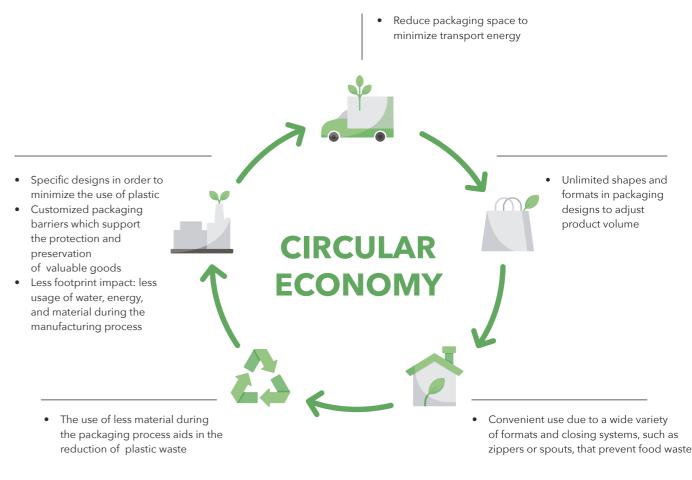




Primary and seconda packaging

Advantages of sustainable flexible packaging

At Mespack 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. Mespack 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

H640, H570, H540, H440, H420, H380, H360, H330, H320, H280, H260, H220, H180, H170, H150, H145, H140, H130, H100

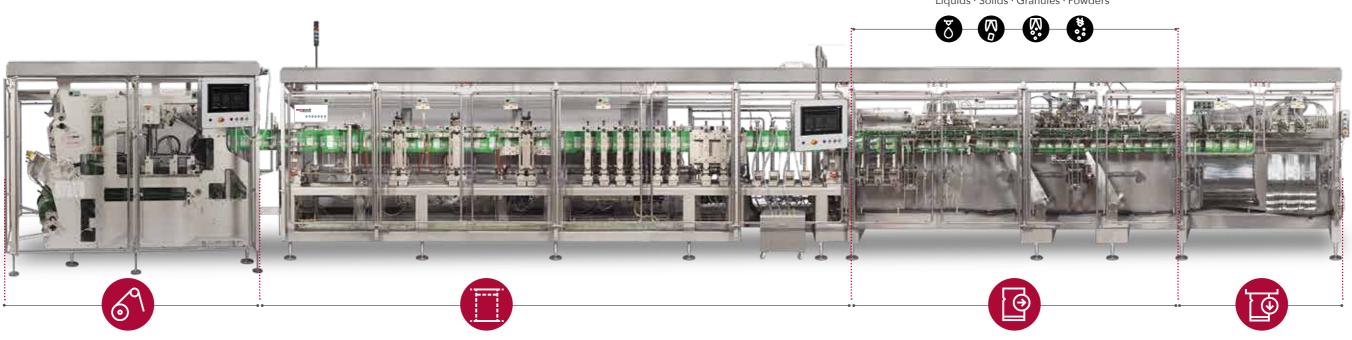
The H Series is remarkable for its modularity and flexibility, and it is capable of producing different shapes and presentations

The H Series is composed of 19 different HFFS machines with multiple versions, which enables the Mespack 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.

Filling Station:

Liquids · 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

Transport Section:

· Opening, streching, pulling

Smart Functions

- Top sealing jaw
- Ultrasonic sealing jaw

Pouch Exit Section:

- Systems: ramp, conveyor belt or pick and place
- · Cameras to control the pouch aspect

Packaging Formats

Closures Applications







Тор сар





















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.

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.

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 Mespack 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.

Servo Driven Index



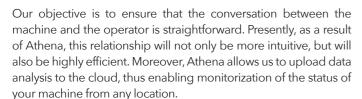
The length and speed of the film drag is controlled by servo drives in order to increase precision, which can be directly controlled through the PLC.

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





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.

Main Standard Features

- \rightarrow 18.5" color touch screen
- ightarrow 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)
- ightarrow 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	POUCH SIZE MIN (mm)	POUCH SIZE MAX (mm)	GUSSET MIN-MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING STATION	MACHINE	POUCH SIZE MIN (mm)	POUCH SIZE MAX (mm)	GUSSET MIN-MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING STATIO
H640 3	120x150	210x400		2500	165	1-2	H320 FE	120x150	320x300	40-120	3000	60-65	3
H640 4	120x150	160x400		1500	220	1-2	H320 FED	80x100	160x300	40-120	1000	120-130	3
H640 FET	120x150	210x400	50-100	3000	150	1-2	H320 FET	80x100	105x300	40-70	750	180-195	3
H640 FEQ	120x150	160x400	50-100	1800	200	1-2	H320 FEQ	70x100	80x300	40-50	250	240-260	3
H570 D	150x200	285x400		4000	120-140	1-2	H320 3	50x50	105x240		200	240	1
H570 3	120x150	190x400		2000	180-210	1-2	H320 4	50x50	80x240		100	320	1
H570 FED	150x200	285x400	40-150	5500	100-120	1-2	H280 FE	60x100	280x300	40-120	800	140	3
H570 FET	120x150	190x400	40-150	2500	150-180	1-2	H280 FED	60x100	140x300	40-120	800	140	3
H540 FE6	80x50	90x240	40-50	200	300	1	H260 S	80x100	270x300		2000	75-80	5
H440 FET	80x100	145x300	40-70	850	180	3	H260 D	60x100	130x300		750	150-160	5
H440 FEQ	80x100	110x300	40-50	400	240	3	H260 FE	80x100	270x300	40-120	2500	65-70	5
H440 3	80x100	145x300		350	180	3	H260 FED	70x100	130x300	40-120	750	130-140	5
H440 4	80x100	110x300		300	240	3	H260 4	60x100	65x240		150	280	2
H440 FED	80x100	220x300	40-70	1000	120	3	H220 S	80x100	220x300		1000	75-80	3
H420 S	120x150	420x400		5000	55-60	3	H220 D	60x100	110x300		500	150-160	3
H420 D	120x150	210x400		1500	110-120	3	H220 FE	80x100	220x300	40-120	2000	65-70	3
H420 FE	120x150	420x400	40-150	10000	55-60	3	H220 FED	70x100	110x300	40-120	500	130-140	3
H420 FED	120x150	210x400	40-150	2500	110-120	3	H180 S	70x100	190x300		1000	80-90	4
H420 FET	120x150	140x400	40-150	1500	150	3	H180 D	60x100	90x300		200	160-180	4
H420 FEQ	105x150	105x400	40-150	1000	200	3	H180 FE	70x100	190x300	40-120	1500	65-70	4
H380 3	80x100	125x300		700	210	3	H150 S	60x80	160x300		450	80-90	4
H380 4	70x100	95x300		400	280	3	H150 D	50x100	75x300		150	160-180	4
H360 S	120x150	360x300		2000	70	3	H150 FE	80x100	160x300	40-90	900	65-70	4
H360 D	90x100	180x300		1000	140	3	H145 FE	80x100	145x240	40-90	500	65-70	4
H360 FE	120x150	360x300	40-120	3000	60-65	3	H145 S	60x80	150x240		350	80	4
H360 FED	90x100	180x300	40-120	1500	120-130	3	H145 D	60x80	75x240		100	160	4
H360 FET	80x100	120x300	40-70	750	180-195	3	H170 S	60x60	170x200		600	100	2
H360 FEQ	70x100	90x300	40-50	350	240-260	3	H170 D	50x60	85x200		125	200	2
H360 3	50x50	120x240		300	240	2	H170 FE	70x100	170x240	40-90	800	65-70	2
H360 4	50x50	90x240		250	320	2	H140 S	70x100	140x200		250	100	2
H330 6	50x50	65x240		40	340	1	H140 FE	70x100	140x240	40-90	600	65-70	2
H330 3	50x50	110x240		600	165	1	H130 S	30x30	130x130		60	110	1
H320 S	120x150	320x300		2000	70	3	H130 D	30x30	65x130		20	220	1
H320 D	90x100	160x300		750	140	3	H100 S	30x30	100x130		50	100	1

FE: Stand-up pouch simplex FED: Stand-up pouch duplex FET: Stand-up pouch triplex FEQ: Stand-up pouch 4-up FE6: Stand-up pouch 6-up S: Flat pouch simplex D: Flat pouch duplex 3: Flat pouch triplex 4: Flat pouch 4-up 6: Flat pouch 6-up



Optionals

	H640 3	H640 4	H640 FET	H640 FEQ	H570 D	H5703	H570 FED	H570 FET	H540 FE6	H440 FET	H440 FEQ	H440 3	H440 4	H440 FED	H420 S	H420 D	H420 FE	H420 FED	H420 FET	H420 FEQ	H380 3	H380 4	S 09EH	H360 D	H360 FE	H360 FED	H360 FET	H360 FEQ	H360 3	H360 4	H330 6	H330 3
Products																																
Liquid / pasty	©	(a)	©	(a)	©	©	©	©	©	(2)	(a)	(2)	©	©	(2)	(2)	©	©	(2)	(3)	(2)	(a)	(a)	(a)	(a)	(a)	(2)	(a)	(a)	(2)	(a)	(
Pieces	©	(2)	(2)	©	©	©	©	©	-	(2)	(2)	(2)	©	©	(2)	©	(2)	(2)	(2)	(2)	©	-	_									
Powder	©	-	(2)	(2)	(2)	©	©	(2)	(2)	©	©	(2)	(2)	(2)	(2)	(2)	©	©	(2)	(2)	(2)	(2)	(2)	-	_							
Granules	©	©	©	(2)	©	©	©	©	-	©	©	(3)	©	(2)	(2)	(2)	(2)	©	©	©	(2)	©	-									
Closing Pouch Systems		•	•	•						•	•	•			•	•			•		•			•	•							
Zipper	©	©	©	©	©	©	©	©		©	©	©	©	©	(**)	©	©		_													
Corner spout	©	©	©	©	©	©	(2)	(2)	-	©	(2)	(2)	(2)	-	_																	
Top spout	©	(2)	(2)	(2)	©	(2)	©	©	(2)	©	(2)	(2)	(2)	©	(2)	©	©	©	©	©	©	(2)	(2)	(2)	©	(2)	(2)	(2)	(2)	(2)	(2)	6
Frontal spout	©	-	(2)	(2)	(2)	©	©	(2)	(2)	(2)	-	_																				
Straw applicator	©	-	©	(2)	©	(2)	(2)	©	©	©	(2)	©	-	_																		
Automations and User Friendly																																
Automatic changeover	(2)	-	(2)	(a)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	-	-																			
Quick changeover	©	©	©	©	(2)	©	(2)	(2)	(2)	(2)	6																					
Autosplice unwinder	©	©	(2)	©	©	©	(2)	(2)	(2)	(2)	(2)	(2)	©	©	(2)	(2)	©	(a)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(a)	(a)	(2)	(2)	(a)	6

Die-Cut Solutions

Die-cut	©	©	(2)	(2)	(2)	(2)	©	(2)	©	(3)	(2)	(a)	(2)	(2)	(2)	(2)	©	(2)	(2)	(2)	(2)	©	(a)	(2)	(2)	(2)	(3)	(2)		(2)		(a)
Tear notch	©	(2)	(2)	©	(2)	©																										
Eurohole	©	(2)																														
Hole punch	©	(2)																														
Double scissors	(2)																															
Laser cut	©	(2)																														
Round edges	©	(2)	©	(2)	(3)	(2)	(3)	(2)	(2)																							

Coding Systems

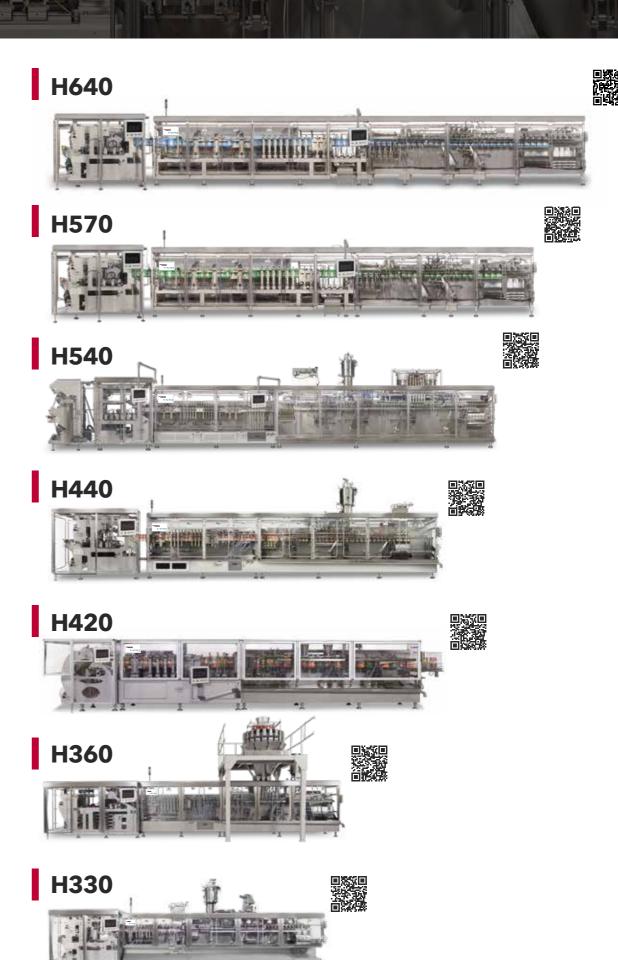
Laser	(2)	(a)							
Inkjet	(2)								
Thermo transfer	(2)								
Emboss code	(a)	(2)	(2)	(2)	©	(2)	©	(2)	(a)

Hygienic Solutions

Gas flush	(2)			
Laminar flow	©	(2)		
UV lamp	©	(2)		
Washdown	©	(2)	©	(2)

FE: Stand-up pouch simplex FED: Stand-up pouch duplex FET: Stand-up pouch triplex FEQ: Stand-up pouch 4-up FE6: Stand-up pouch 6-up S: Flat pouch simplex D: Flat pouch duplex 3: Flat pouch triplex 4: Flat pouch 4-up 6: Flat pouch 6-up





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Optionals

	H320 S	H320 D	H320 F	H320 F	H320 F	H320 F	H320 3	H320 4	H280 F	H280 F	H260 S	H260 D	H260 F	H260 F	H260 4	H220 S	H220 D	H220 F	H220 F	H180 S	H180 D	H180 F	H170 S	H170 D	H170 F	H150 S	H150 D	H150 F	H145 F	H145 S	H145 D	H140 S	H140 F	H130 S	H130 D	H100 S
Products																																				
Liquid / pasty	©	(3)	(2)	(2)	(2)	(3)	(3)	(2)	(a)	(2)	(3)	(a)	(2)	(2)	(2)	(2)	(2)	(3)	©	(2)	(a)	(2)	©	©	(a)	(2)	(a)	(a)	(3)	(a)	(a)	(2)	(3)	(a)	(2)	(a)
Pieces	©	©	©	(2)	©	©	©	©	(2)	(2)	(2)	(2)	(2)	(2)	©	(2)	(2)	(2)	©	(2)	©	(2)	(2)	(2)	(a)											
Powder	©	©	©	(2)	©	©	©	©	(2)																											
Granules	©	©	(2)	©	(2)	©	©	©	(2)	©	©	(2)	©	(2)	©	©	©	©	©	©	(2)	©	©	©	(2)	©	(2)	©	(2)	(2)	©	(2)	©	(2)	©	(2)
Closing Pouch Systems																																				
Zipper	(2)	(2)	(2)	(2)	(2)	(2)	©	©	(2)	(a)	(2)	(2)	(2)	(a)	(2)	(a)	-	-	(a)	(2)	(a)	(2)	(2)	(2)	(a)	-	(2)	-	-	-						

Automations and User Friendly

Corner spout Top spout Frontal spout Straw applicator

Osci i ilclialy																																				
Automatic changeover	9	(2)	-	-	-	(2)	(2)	(2)	-	-	-	-	-	-	-	-																				
Quick changeover	3	(2)	-	-	-	(2)	(2)	(2)	-	-	-	-	-	-	-	-																				
Autosplice unwinder	3	(2)	(2)	©	(2)	(2)	(2)	©	(2)	(2)	©	(2)	-	-	-	(2)	(2)	(2)	-	-	-	-	-	-	-	-										

Die-Cut Solutions

Die-cut	(2)	(2)	(3)	(2)	(2)	(3)	(2)	©	(3)	(2)	©	(a)	(2)	©	(2)	©	(2)	(2)	(2)	(3)	(2)	(2)	-	-	-	(2)	©	(3)	-	-	-	-	-	-	-	-
Tear notch	©	(2)	(2)	(2)	(2)	(2)	(2)	©	(2)	(2)	(2)	(2)	(2)	©	(2)																					
Eurohole	©	(2)	(a)	(2)	(2)																															
Hole punch	(2)																																			
Double scissors	©	(2)	(a)	(2)	(2)																															
Laser cut	©	(2)	-	-	-	(2)	(2)	(2)	(2)	(2)	(2)	-	-	-	-	-																				
Round edges	©	©	(2)	(2)	©	©	(2)																													

Coding Systems

Laser) 😩
Inkjet	0 0) 😩
Thermo transfer) 😩
Emboss code) <u>@</u>

Hygienic Solutions

Gas flush	(2)																																			
Laminar flow	(2)	-	-	-	(2)	(2)	(2)	(2)	(2)	(2)	-	-	-	-	-																					
UV lamp	(2)																																			
Washdown	(2)	(2)	(2)	©	(2)	©	©	©	(2)	(2)	(2)	©	©	(2)	©	©	©	(2)	(2)	(2)	(2)	(2)	-	-	(2)	(2)	(a)	(2)	(a)	(2)	(2)	-	(2)	-	-	-

FE: Stand-up pouch simplex FED: Stand-up pouch duplex FET: Stand-up pouch triplex FEQ: Stand-up pouch 4-up FE6: Stand-up pouch 6-up S: Flat pouch simplex D: Flat pouch duplex 3: Flat pouch triplex 4: Flat pouch 4-up 6: Flat pouch 6-up



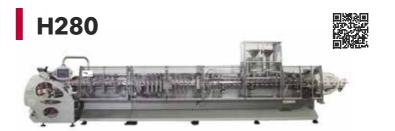












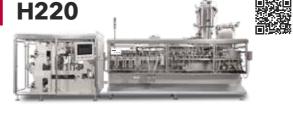






















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Horizontal HCRM640, HCM420 **HCM Series**

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.



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 strech
- Continuous motion top seal
- Static top sealing cooling

Pouch Exit Section:

• Pouch reject

Packaging Formats



Closures Applications



Corner cap

Smart Functions















* Optional

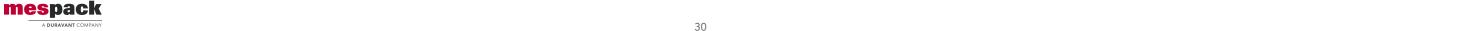




HCRM640



HCM420





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:

 $\mathsf{Solids} \cdot \mathsf{Granules}$







Packaging Formats



Smart Functions











* Optional

Closures Applications









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	POUCH SIZE MIN (mm)	POUCH SIZE MAX (mm)	GUSSET MIN-MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING STATION
CMR1500	101,6x152,4	304,8x381	0-127	5.000	100	Traveling funnels
CMR1250	101,6x152,4	241,3x381	0-127	3.000	140	Traveling funnels
CMRII	101,6x152,4	304,8x381	0-127	5.000	140	Traveling funnels
HCRM640 FEQ	120x150	160x300	40 - 150	1.000	280	3
HCM420 FED	120x150	210x400	40 - 150	2.000	120	3

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
- ightarrow Roller servo driven stroke indexing system
- → Ultraclean versions (optional)
- ightarrow 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	HCRM640 F	HCM420 FE

Products

Liquid / pasty	-	-	-	(2)	(2)
Pieces	©	(2)	©	-	-
Powder	-	-	-	-	-
Granules	<u> </u>	@	<u>@</u>	_	_

Closing Pouch Systems

Zipper		((-	
Corner spout	-	-	-	(2)	(
Top spout	-	-	-	-	
Frontal spout	-	-	-	-	
Straw applicator	-	-	-	-	

Automations and User Friendly

Automatic changeover	-	-	(2)	(2)	@
Quick changeover	-	-	(2)	(2)	@
Autosplice unwinder	(a)	©	©	(2)	@

Die-Cut Solutions

Die-cut

				_	_
ear notch	©	(2)	(2)	(2)	(2)
urohole	©	©	(2)	(2)	@
lole punch	©	(2)	(2)	(2)	(2)
ouble scissors	-	-	-	(2)	(2)
aser cut	-	-	-	(2)	(2)
ound edges	-	-	-	(2)	(2)

Coding Systems

Laser	©	(2)	(3)	(2)	6
Inkjet	©	©	©	©	6
Thermo transfer	©	(2)	©	©	6
Emboss code	-	-	-	©	6

Hygienic Solutions

Gas flush

Laminar flow	-	-	-	-	-
UV lamp	-	-	-	©	@
Washdown	©	(2)	(2)	©	@

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



Horizontal HIM Series 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:

 $\mathsf{Solids} \cdot \mathsf{Granules} \cdot \mathsf{Powders}$









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 strech
- Intermittent motion top seal
- Static top sealing cooling

Pouch Exit Section:

Pouch reject

Packaging Formats



Closures Applications





per Corner cap

Smart Functions















* Optional





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Mespack Grippers Management System



The gripper width for all sealing jaws is adjustable from the HMI via the Mespack Grippers Management System (MGMS). Autopositioning 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 continous 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 Actuations



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	POUCH SIZE MIN (mm)	POUCH SIZE MAX (mm)	GUSSET MIN-MAX (mm)	MAX VOLUME (cc)	OUTPUT (p.p.m.)	FILLING STATION
HIM570 FED	152x217	254x406	40 - 150	4.000	100	1
HIM570 FET	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)
- $\rightarrow \quad \mathsf{ATEX} \ \mathsf{compliance} \ \mathsf{(optional)}$
- → Film sterilization system (optional)
- → Laminar flow (optional)
- ightarrow M.A.P. (Modified Atmosphere Packaging)
- $\rightarrow \quad \text{Ultrasonic sealing (optional)}$

Optionals

IM570 FED

Products

Liquid / pasty	-	-
Pieces	©	©
Powder	©	(2)
Granules	©	©

Closing Pouch Systems

Zipper		6
Corner spout	©	(
Top spout	-	-
Frontal spout	-	_
Straw applicator	_	_

Automations and User Friendly

Automatic changeover	©	(2)
Quick changeover	©	(a)
Autosplice unwinder	<u> </u>	<u></u>

Die-Cut Solutions

Die-cut

	_	_
Tear notch	©	@
Eurohole	©	@
Hole punch	©	@
Double scissors	©	@
Laser cut	©	@
Round edges	©	@

Coding Systems

Laser	(2)	6
Inkjet	©	6
Thermo transfer	©	(
Emboss code	©	(

Hygienic Solutions

Gas flush	©	(2)
Laminar flow	-	-
UV lamp	©	(2)
Washdown	©	©

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





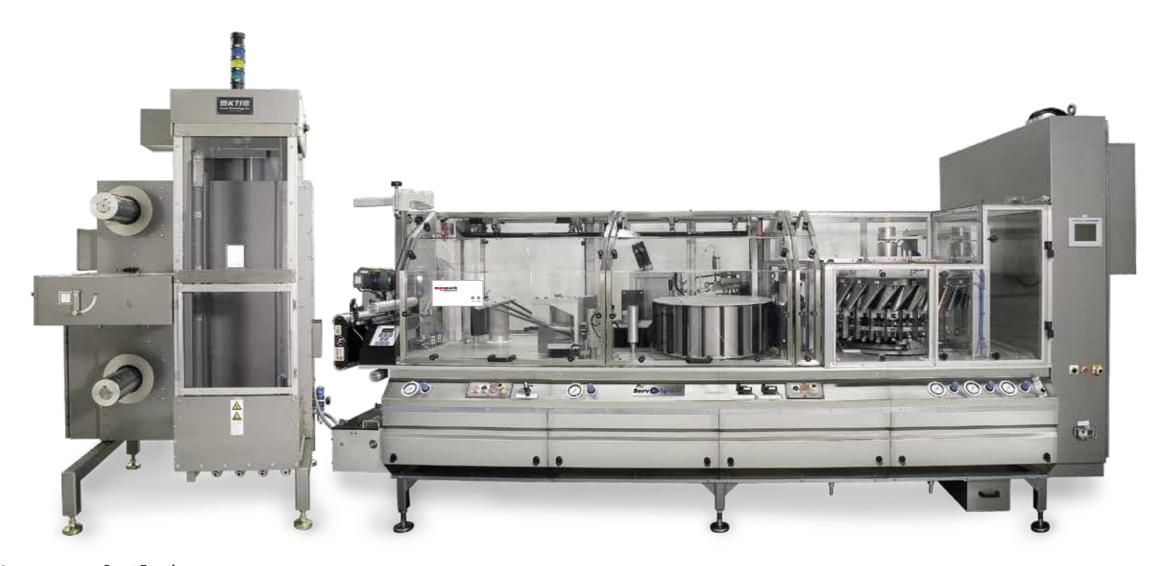
The market fastest continuous motion solution for flat pouch

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









* Optional



47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 21 36 25 Horizontal Ultra-High Speed Series Performa, Performa SP



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.











Ultra-High Speed Series

Up to 98% Efficient



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

Autosplice Unwinder

47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 23 27 15 25 25



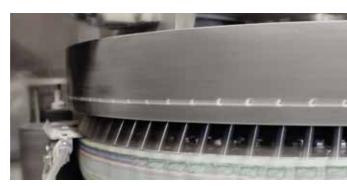
An auto-splicer allows the operator to expeditiously splice film, thus minimizing scrap and downtime.

UHS Rotary Cutting System



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

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.

Second Feed Drive



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

UHS Top Sealer



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

Technical Specifications

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

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

	PERFORM	PERFORM	SERVORI
Products	_	_	
iquid / pasty	-	-	-
Pieces	©	©	(2)
Powder	©	©	(2)
Granules	(2)	(2)	(2)

Automations and User Friendly

Automatic changeover	-	-	-
Quick changeover	-	-	-
Autosplice unwinder	©	(2)	(2)

Die-Cut Solutions

Die-cut	-	-	-
Tear notch	©	©	(2)
Eurohole	-	-	-
Hole punch	-	-	-
Double scissors	-	-	-
Laser cut	-	-	-
Round edges	-	-	-

Coding Systems

Laser	©		@
Inkjet	©	©	@
Thermo transfer	-	-	-
Emboss code	-	-	-

Hygienic Solutions

Gas flush	©	(2)	@
Laminar flow	-	-	-
UV lamp	-	-	-
Washdown	-	-	-

mespack

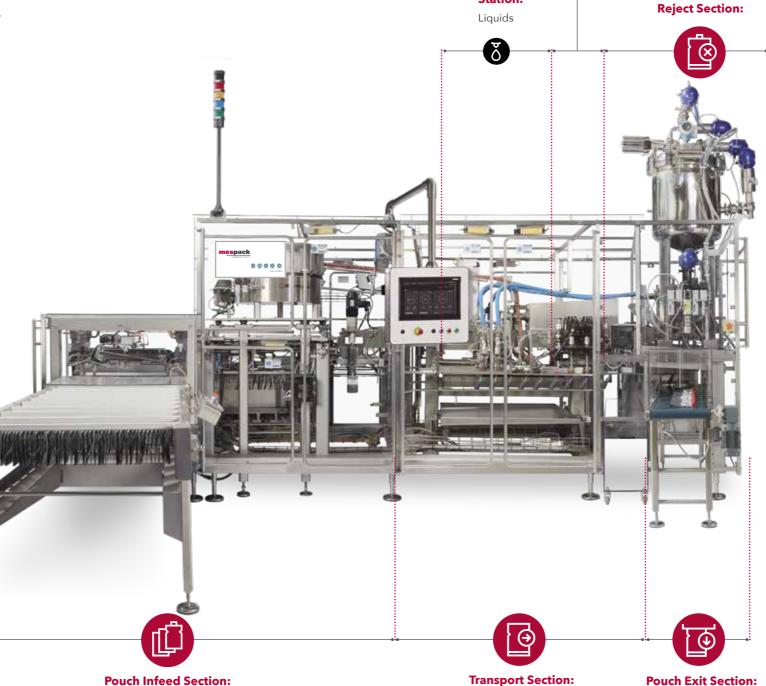
Horizontal Pre-Made Pouches HF4800, HF2400, HF1200 **HF Series**

The HF Series fills through the spout with high versatility

The new HF Series works with top and edge spouted premade 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 and HF4800 can be configured to simultaneously package a variety of products and formats.



Pouch Infeed Section:

- Rail buffer
- Intelligent line diverter
- Code printer
- Pouch check camera

Transport Section:

• Filling system

Filling

Station:

- Spout cleaning
- Cap applicator

Capping Head Section:



Smart Functions











* Optional

Packaging Formats



Closures Applications



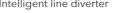


Top cap

Corner cap



HF Series



• Systems: ramp, conveyor belt or

• Cameras to control the pouch aspect

Pouch Infeed Buffer



This buffer is a customized solution, specially designed to have enough room for growth. Futhermore, 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.

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.

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Technical Specifications

MACHINE	POUCH SIZE MIN (mm)	POUCH SIZE MAX (mm)	OUTPUT (p.p.m.)	MAX VOLUME (c.c.)	POUCH TYPE	FILLING STATION
HF4800	70x100	160x300	320	1.000	Pre-made	-
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
- ightarrow Compact and hygienic design

Optionals

•			
	HF4800	HF2400	HF1200
Products			
Liquid / pasty	©	(2)	(a)
Pieces	-	-	-
Powder	-	-	-
Granules	-	-	-
Closing Pouch Systems			
Zipper	-	-	-
Corner spout	©	(2)	(2)
Top spout	©	(2)	(2)
Frontal spout	-	-	-
Straw applicator	-	-	-
Coding Systems			
Laser	©	(2)	(2)
Inkjet	©	©	©
Thermo transfer	-	-	-
Emboss code	-	-	-
Hygienic Solutions			
Gas flush	©	(2)	(2)
Laminar flow	©	©	(2)

Gas flush	(2)	(2)	(2)
Laminar flow	(2)	©	(2)
JV lamp	(2)	(2)	(2)
Vashdown	(2)	©	(2)



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 fitments, 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.

Filling Station:

Liquids · Solids · Granules · Powders

Reject Section



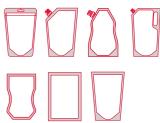






* Optional

Packaging Formats





Closures Applications



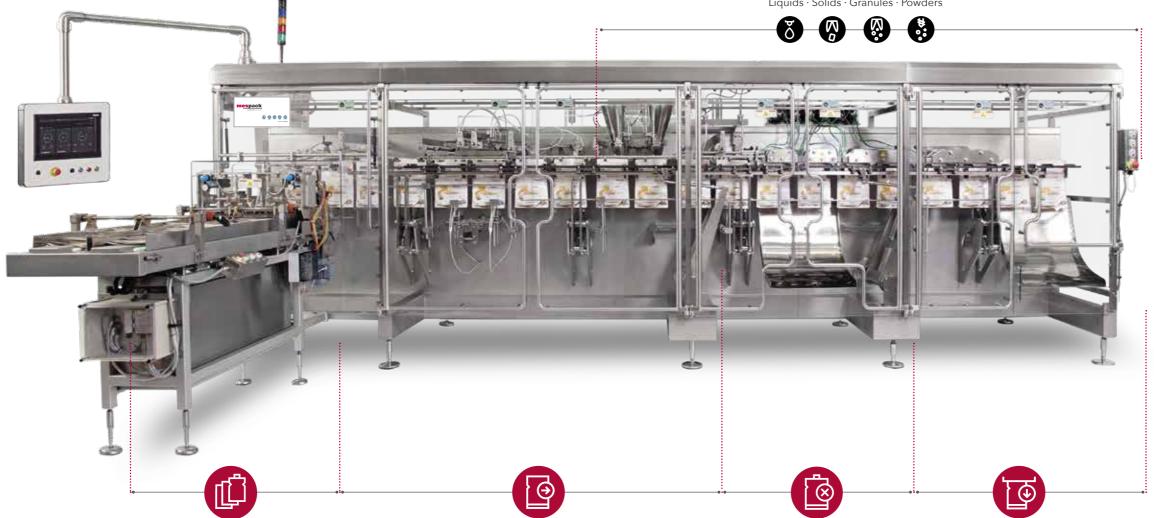


Corner cap



Top cap

51



Pouch Infeed Section

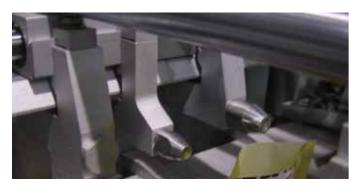
Transport Section:

- Opening, stretching, pulling
- Top sealing jaw
- Ultrasonic sealing jaw

Pouch Exit Section:

- Systems: ramp, conveyor belt or pick and place
- Cameras to control the pouch

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 Mespack, we are following the lastest 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	POUCH SIZE MIN (mm)	POUCH SIZE MAX (mm)	OUTPUT (p.p.m.)	MAX VOLUME (c.c.)	POUCH TYPE	FILLING STATION
H570 SCD	140x150	285x350	80	3000	Pre-made duplex	3
H570 SCT	140x150	190x350	150	1600	Pre-made triplex	3
H440 SC	100x120	440x350	50	3000	Pre-made simplex	3
H440 SCD	100x120	220x350	100	2000	Pre-made duplex	3
H440 SCT	100x120	145x350	150	1000	Pre-made triplex	3
H440 SCQ	100x120	110x350	200	750	Pre-made quadruplex	3
H320 SC	90x120	320x350	50	3000	Pre-made simplex	3
H320 SCD	90x120	160x350	100	1000	Pre-made duplex	3
H260 SC	80x120	260x300	50	2500	Pre-made simplex	3
H260 SCD	80x120	130x300	100	800	Pre-made duplex	3
H180 SC	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: monomaterial, 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

	H5.	H5	Ŧ	Ŧ	Ŧ	<u>T</u>	Ŧ	Ŧ	H2	H28	Ĩ
Products											
Liquid / pasty	©	(a)	(a)	(2)	(2)	(a)	(a)	(a)	(a)	(2)	@
Pieces	©	©	©	©	©	©	©	©	©	©	@
Powder	©	©	©	©	©	©	©	©	©	©	@
Granulas	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	6

Closing Pouch Systems

Zipper	©	(2)	©								
Corner spout	©	(2)	(2)	©	©	©	(2)	(2)	(2)	©	©
Top spout	©	(2)	©								
Frontal spout	-	-	-	-	-	-	-	-	-	-	-
Straw applicator		_	_	_	_	_	_	_	_	_	_

Coding Systems

aser	(2)	(2)	(2)	(2)				(2)	(2)	(2)	(2)
nkjet	©	©	©	(2)	©						
hermo transfer	(2)										
Emboss code	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)

Hygienic Solutions

Gas flush	(2)										
Laminar flow	©	(2)	(2)	(2)	©	©	©	(2)	(2)	(2)	©
UV lamp	©	©	(2)	(2)	(2)	©	©	(2)	(2)	©	©
Washdown	(2)										

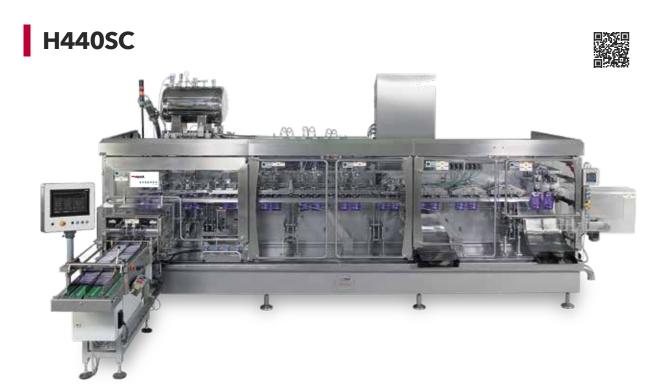
SC: Flat pouch simplex SCD: Flat pouch duplex SCT: Flat pouch Triplex SCQ: Flat pouch Quadruplex



Horizontal Pre-Made Pouches HSC Series













The HMRSC Series is a new carrousel 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 Mespack'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.



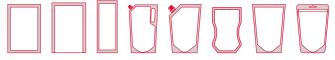
Smart Functions







Packaging Formats



Closures Applications





Corner cap





mespack

Horizontal Pre-Made Pouches HMRSC Series

Quick Changeovers



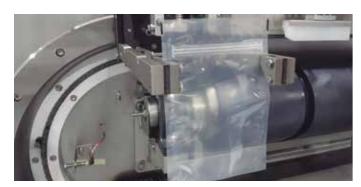
The Mespack HMRSC Series allows you to make format quick changeovers in less than 5 minutes

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.

Mespack Grippers Management System with Automatic Quick Changeover in Carrousel



The grippers width of all Mespack 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 Mespack 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 Mespack transfer is specially designed in order to increase production speed by up to 30%.

Only one operator is required to perform



Technical Specifications

MACHINE	POUCH SIZE MIN (mm)	POUCH SIZE MAX (mm)	OUTPUT (p.p.m.)	MAX VOLUME (c.c.)	POUCH TYPE	FILLING STATION
HMR305 SCD	140x140	305x400	150	5000	Flat, Stand-up, Box Pouch	2-5
HMR305 SCQ	140x140	305x400	260	5000	Flat, Stand-up, Box Pouch	2-5
HMR180 SCD	100x140	180x300	150	1500	Flat, Stand-up, Box Pouch	2-5
HMR180 SCQ	100x140	180x300	280	1500	Flat, Stand-up, Box Pouch	2-5

D: Flat pouch duplex Q: Flat pouch quadruplex

Main Standard Features

- → 18,5" color touch screen
- 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

HMR305 SCD	HMR305 SCQ	HMR180 SCD	

Products

Liquid / pasty	©	(2)	(2)	(2)
Pieces	©	(2)	©	©
Powder	©	©	©	©
Granules	©	©	©	@

Closing Pouch Systems

Zipper	(2)	(2)	(2)	(2)
Corner spout	©	(2)	©	(2)
Top spout	-	-	-	-
Straw applicator	_	_	_	_

Coding Systems

Laser	©	(2)	(2)	(2)
Inkjet	©	(2)	(2)	(2)
Thermo transfer	©	(2)	©	(2)
Emboss code	©	(2)	(2)	(2)

Hygienic Solutions

Gas flush	©	(2)	©	6
Laminar flow	©	©	©	6
UV lamp	©	©	©	6
Washdown	(2)	(2)	(2)	6





New Controls: Athena



Adapted to Work with **Sustainable Materials**

mespack



The most flexible and reliable pre-made pouch solutions



Mespack 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









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.

Tool-Less Funnel and Baffle Changeover



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

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 tranfer into the machine occurs.

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.

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.

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	POUCH SIZE MIN (mm)	POUCH SIZE 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

- ightarrow Servo motion for key operating areas
- → Variety of control/servo combinations
- ightarrow Tool-less funnel and baffle changeover
- $\rightarrow \quad \text{Mechanical pouch opening system which increases efficiencies}$
- → 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.

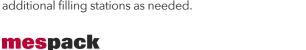
A suitable filling system fills the timing hopper.

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

	IMP1750
Products	
Liquid / pasty	-
Pieces	©
Powder	©
Granules	©
Closing Pouch Systems	
Zipper	©
Corner spout	-
Top spout	-
Frontal spout	-
Straw applicator	-
Straw applicator Automations and User Friendly Automatic changeover	-
Automations and User Friendly	- - ©
Automations and User Friendly Automatic changeover	- ©
Automations and User Friendly Automatic changeover Quick changeover	- ©
Automations and User Friendly Automatic changeover Quick changeover Autosplice unwinder	- © -
Automations and User Friendly Automatic changeover Quick changeover Autosplice unwinder Coding Systems	-
Automations and User Friendly Automatic changeover Quick changeover Autosplice unwinder Coding Systems Laser	- - ©
Automations and User Friendly Automatic changeover Quick changeover Autosplice unwinder Coding Systems Laser Inkjet	- © ©
Automations and User Friendly Automatic changeover Quick changeover Autosplice unwinder Coding Systems Laser Inkjet Thermo transfer	- © ©
Automations and User Friendly Automatic changeover Quick changeover Autosplice unwinder Coding Systems Laser Inkjet Thermo transfer Emboss code	- © ©
Automations and User Friendly Automatic changeover Quick changeover Autosplice unwinder Coding Systems Laser Inkjet Thermo transfer Emboss code Hygienic Solutions	- - - - - -
Automations and User Friendly Automatic changeover Quick changeover Autosplice unwinder Coding Systems Laser Inkjet Thermo transfer Emboss code Hygienic Solutions Gas flush	- - - - - -





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







* Optional





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.

Tool-less Funnel and Baffle Changeover



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

Infeed Conveyor



secure the position when tranfer into the machine occurs.

Pouch Opening System



Our infeed conveyor system includes a 3-phase motor for The pouch opening system includes Pneumatic actuators and destacker and flapper wheels and three photoelectric sensors to vacuum cups to ensure a good aperture before the filling station.

Flexibility



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

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	POUCH SIZE MIN (mm)	POUCH SIZE 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

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

Liquid / pasty	-
Pieces	©
Powder	©
Granules	©

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	-
Pound addes	

Coding Systems

Laser	
Inkjet	©
Thermo transfer	©
Emboss code	-

Hygienic Solutions

Gas flush	©
UV lamp	-
Washdown	(2)



Vertical **MS Series**

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



Unwinder Section:

• Servo driven unwinder



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



This machine is widely used for food or diet products, home and personal care, confectionary, pharmaceutical, among many others. The MS can be equipped with multiple dosing system configurations as well as special motorized systems for easy cleaning. Furthermore, it offers choices which can be installed in the machine upon request, including full-servo machines, ATEX compliance, laminar flow, a film sterilization system, laser coders, scorers, among others. Our objective is to continue being a leading market supplier of outstanding machines that are used for a multitude of products that require high speed and reliable production. A wide variety of stick packs in your single-serve packaging. Stick packs are a succesful format for single-serving packaging. A wide range of stick packs are available, depending on the demands of the customer: bottle shapped stick pack, stick pack containing two or more products, and twin stick packs.

Reject Section:

 Individual reject avaiable

Exit Section:

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



MS350







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.

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.

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.

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%.

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.

Individual Exit Chute



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

Technical Specifications



New Controls: Athena



Adapted to Work with Sustainable Materials

MACHINE	MIN STICK WIDTH (mm)	MAX STICK WIDTH (mm)	MIN STICK LENGHT (mm)	MAX STICK LENGHT (mm)	OUTPUT (p.p.m.)	TYPE
MS1200 4	17	115	50	190	240-280	Stick pack
MS1200 6	17	90	50	190	360-420	Stick pack
MS1200 8	17	70	50	190	480-560	Stick pack
MS1200 10	17	50	50	190	600-700	Stick pack
MS1200 12	17	45	50	190	720-840	Stick pack
MS1200 14	17	35	50	190	840-1050	Stick pack
MS1200 16	17	30	50	190	960-1200	Stick pack
MS1200 18	17	28	50	190	1080-1350	Stick pack
MS1000 4	17	115	50	190	240-280	Stick pack
MS1000 6	17	70	50	190	360-420	Stick pack
MS1000 8	17	55	50	190	480-560	Stick pack

MACHINE	MIN STICK WIDTH (mm)	MAX STICK WIDTH (mm)	MIN STICK LENGHT (mm)	MAX STICK LENGHT (mm)	OUTPUT (p.p.m.)	TYPE
MS1000 10	17	45	50	190	600-750	Stick pack
MS1000 12	17	35	50	190	720-900	Stick pack
MS1000 14	17	30	50	190	840-1050	Stick pack
MS1000 16	17	25	50	190	960-1200	Stick pack
MS600 4	17	70	30	160	200	Stick pack
MS600 6	17	45	30	160	250	Stick pack
MS600 8	17	32	30	160	300	Stick pack
MS350 2	17	45	30	160	100	Stick pack
MS350 3	17	45	30	160	150	Stick pack
MS350 4	17	35	30	160	200	Stick pack

Main Standard Features

- → Independent servo driven film unwind system
- → Pneumatical film brake system with proportional unwind speed
- → Servo driven main film drive system
- → Servo driven horizontal seal jaws
- → Pneumatical expandible reel shaft
- → Adjustable horizontal cutting knives (flat or zig-zag)
- → Motor driven circular knives

Optionals

- → PLC independent temperature control seal bars
- → PLC auto-controlled lubrication

- \rightarrow Free operation access to side of the machine
- → Micro-switch protected transparent polycarbonate guardings
- $\rightarrow \quad \text{Integrated electrical cabinet (optional)}$
- → Full servo version available
- \rightarrow Laser coders and scorers (optional)
- → ATEX compliance (optional)
- 7 ATEX compliance (optional)
- → Film sterilization system (optional)
- \rightarrow Laminar flow (optional)
- → Integrated film splice system in the unwinder (optional)

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Optionals	MS1200,	MS1200	MS1000	MS600 4	MS600 6	MS600 6	MS6008	MS350 2	MS3503	MS3504												
Products																						
Liquid / pasty	©	(2)	(a)	(2)	(2)	(2)	(2)	(2)	(a)	(2)	(2)	(2)	(2)	(2)	(a)	(2)	(2)	©	(2)	(2)	(2)	(2)
Pieces	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©
Powder	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©
Granules	©	(2)	©	(2)	(2)	©	(2)	©	©	(2)	(2)	©	©	©	©	©	©	©	©	©	©	©
Closing Pouch Systems																						
Zipper	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corner spout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Top spout	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frontal spout	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	-	-	-	-	-	-	-
Straw applicator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Automations and User Friendly																						
Automatic changeover	©	(2)	©	(2)	©	(2)	(3)	©	©													
Quick changeover	-								-	-	-	-	-	-	-	-	-	-	-	-	-	-
Autosplice unwinder	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	-	-	-	-	-	-	-
Die-Cut Solutions																						
Die-cut	©	(2)	(a)	(a)	(a)	(2)	(a)	©	(a)	(a)	(2)	(2)	©	(a)	(a)	(2)	©	©	(a)	-	-	-
Tear notch	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©
Eurohole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hole punch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Double scissors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Laser cut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Round edges	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	-	-	-	-	-	-	-
Coding Systems																						
Laser	©	(2)	-	-	-	-	-	-	-													
Inkjet	©	©	©	©	(a)	©	©	©	©	©	©											
Thermo transfer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emboss code	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©
Hygienic Solutions																						
Gas flush	©	(2)	(a)	(a)	(a)	(2)	(a)	©	(a)	(a)	(2)	(2)	©	(a)	(a)	(2)	©	©	(a)	(3)	(2)	©
Laminar flow	©	©	©	©	©	(2)	©	-	-	-	-	-	-	-								
UV lamp	©	(2)	©	©	(2)	(a)	©	(a)	©	©	©	©	(2)	(a)	©	(a)	©	©	©	(a)	©	©
Washdown	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	-	-	-	-	-	-	-



Vertical MSPH Series

MSPH600, MSPH300

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



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

Liquid / pasty

Products	N N	MS	MS	ž	MS	MS	MS	MS	Ž
	SPH600	эрн600	эрнеоо	SРН600	эрнеоо	зрн600	зрн300	зрн300	SPH300
•	4	9	œ	2	7	4	8	က	4

Powder	(2)	(2)	(2)	(2)	(2)	0
Granules	(2)	(2)	©	(2)	(2)	(2)

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

Automations and User Friendly

Closing Pouch Systems

Automatic changeover	(2)	(2)	(2)		(2)	(2)	(2)		(2)
Quick changeover	-	-	-	-	-	-	-	-	-
Autosplice unwinder	(2)	(2)	(2)	(2)	(2)	(2)			

Die-Cut Solutions

Die-cut									
Tear notch	©	(2)	(2)	(a)	(2)	(2)	(2)	(2)	(2)
Hole punch	-	-	-	-	-	-	-	-	-
Double scissors	-	-	-	-	-	-	-	-	-
Laser cut	-	-	-	-	-	-	-	-	-
Round edges	(2)	(a)	(2)	(2)	(a)	(2)	(2)	(a)	(2)

Coding Systems

Laser	(a)	(2)							
Inkjet	©	(2)							
Thermo transfer	-	-	-	-	-	-	-	-	-
Emboss code	<u></u>								

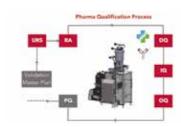
Hygienic Solutions

Gas flush			(2)					(a)	(3)
Laminar flow	©	(2)							
UV lamp	©	(2)	(2)	(2)	(a)	(2)	(2)	(a)	(2)
Washdown	(a)	(2)	(2)	(a)	(2)	(a)	(a)	(2)	(2)

Technical Specifications

MACHINE	WIDTH MIN (mm)	WIDTH MAX (mm)	LENGTH MIN (mm)	LENGTH MAX (mm)	OUTPUT (p.p.m.)	REEL WIDTH MAX (mm)	POUCH TYPE
MSPH600 4	17	60	50	160	280	620	Stick pack
MSPH600 6	17	45	50	160	360	620	Stick pack
MSPH600 8	17	35	50	160	480	620	Stick pack
MSPH600 10	17	25	50	160	600	620	Stick pack
MSPH600 12	17	20	50	160	720	620	Stick pack
MSPH600 14	17	17	50	160	840	620	Stick pack
MSPH300 2	17	60	50	160	140	320	Stick pack
MSPH300 3	17	45	50	160	210	320	Stick pack
MSPH300 4	17	35	50	160	280	320	Stick pack

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



mespack 72



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

Smart Functions









Filling Section:

Liquids · Solids · Granules · Powders









Packaging Formats

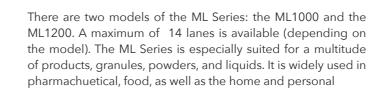


Forming Section:

- Vertical sealing
- Horizontal sealing

Exit Section:

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



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.

Unwinder Section:





 Individual reject avaiable





ML1000



Servo Motorized Drag Unit



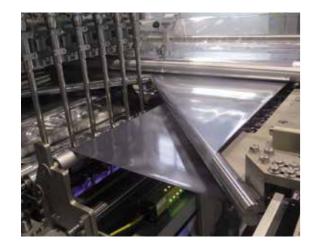
Servo motor is integrated into the film transport system in order to control and correct its position. This system has more operational precision, and gives you more coordinating control of the equipment's movements.

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.

Forming Area



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

Technical Specifications

MACHINE	MIN SACHET WIDTH (mm)	MAX SACHET WIDTH (mm)	MIN SACHET LENGHT (mm)	MAX SACHET LENGHT (mm)	OUTPUT (p.p.m.)	MAX REEL WIDTH (mm)	TYPE
ML1200 4	40	130	60	200	240-280	1.200	Flat: 4 seal
ML1200 5	40	120	60	200	300-350	1.200	Flat: 4 seal
ML1200 6	40	100	60	200	360-420	1.200	Flat: 4 seal
ML1200 7	40	80	60	200	420-490	1.200	Flat: 4 seal
ML1200 8	40	70	60	200	480-560	1.200	Flat: 4 seal
ML1200 9	40	65	60	200	540-630	1.200	Flat: 4 seal
ML1200 10	40	60	60	200	600-700	1.200	Flat: 4 seal
ML1200 12	40	50	60	200	720-840	1.200	Flat: 4 seal
ML1200 14	40	40	60	200	840-980	1.200	Flat: 4 seal
ML1000 4	40	120	60	200	240-280	1.000	Flat: 4 seal
ML1000 5	40	100	60	200	300-350	1.000	Flat: 4 seal
ML1000 6	40	80	60	200	360-420	1.000	Flat: 4 seal
ML1000 7	40	70	60	200	420-490	1.000	Flat: 4 seal
ML1000 8	40	60	60	200	480-560	1.000	Flat: 4 seal
ML1000 9	40	55	60	200	540-630	1.000	Flat: 4 seal
ML1000 10	40	50	60	200	600-700	1.000	Flat: 4 seal
ML1000 12	40	40	60	200	720-840	1.000	Flat: 4 seal

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.



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
- \rightarrow 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

Optionals																	
	ML1200 4	ML1200 5	ML1200 6	ML1200 7	ML12008	ML12009	ML1200 10	ML1200 12	ML1200 14	ML1000 4	ML1000 5	ML1000 6	ML1000 7	ML10008	ML1000 9	ML1000 10	ML1000 12
Products																	
Liquid / pasty	(2)	(a)	(a)	(a)	(a)	(a)	(a)	(2)	(2)	(2)	(2)	(a)	(a)	(a)	(a)	(2)	(2)
Pieces	©																
Powder	©																
Granules	©	©	©	©	(2)	©	(2)	©	©	©	©	(2)	©	©	©	©	©
Automations and User Friendly																	
Automatic changeover	(2)																
Quick changeover	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Die-Cut Solutions

Autosplice unwinder

Die-cut	(2)		(2)		(2)												
Tear notch, eurohole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hole punch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Double scissors	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
_aser cut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Round edges	<u>_</u>	<u>_</u>	<u></u>	<u>@</u>	<u>_</u>	<u>_</u>	<u>_</u>	<u></u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>_</u>	<u>@</u>	<u>@</u>	<u>@</u>	<u>@</u>	@

Coding Systems

aser	(2)																
nkjet	(2)																
hermo transfer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Emboss code	(2)	(2)	©	©	(2)	(2)	(2)	©	©	(2)	(2)	©	©	(2)	(2)	(2)	(2)

Hygienic Solutions

Gas flush		(2)	(2)	(2)	(2)	(2)	(2)	(3)	(2)	(2)	(2)	(2)	(2)	(2)	(3)	(2)	@
Laminar flow	©	(2)	©	(2)	(2)	(2)	©	©	(2)	(2)	©	©	©	(2)	©	©	@
UV lamp	©	(2)	©	(2)	@												
Washdown	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	©	@



Water soluble Pods HYDROFORMA Series

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

The Mespack 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 Mespack 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 Mespack 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. Mespack, 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.





* Optional ** Optional 660 and 660DS

Packaging Formats























78

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.

Patented Gentle Handling Protects Pouches



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

Autosplicer



Our autosplicer system for the water soluble pods equipments allows you to make a reel quick changeover wihout downtime.

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



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

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	MAX WIDTH (mm)	MAX HEIGHT (mm)	PRODUCTS	PROD PODS/MIN (POWDER)	PROD PODS/MIN (LIQUID)	TYPE	FILLING STATION
HYDROFORMA 660 DS	152.4	152.4	Liquid / Pasty, Powder	2400	1400	Pod	-
HYDROFORMA 660	152.4	152.4	Liquid / Pasty, Powder	2400	900	Pod	-
HYDROFORMA 330	152.4	152.4	Liquid / Pasty, Powder	1200	450	Pod	-
HYDROFORMA 165	152.4	152.4	Liquid / Pasty, Powder	600	180	Pod	-

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.

)	p	ti	0	n	a	ls	,

HYDROFORMA 660 DS HYDROFORMA 660 HYDROFORMA 330

000

Products Liquid / past

Liquid / pasty	(2)			©
Pieces	-	-	-	-
Powder	©	©	©	@
Granules	©	(2)	(2)	@

Feed Systems

Servo pump (liquid)	©	(2)	(2)	@
Pneumatic pump (liquid)	©	©	©	@
Auger (powder)	©	©	-	-
Feed belt (powder)	©	©	©	@
Combination units (powder & liquid)	@	<u>@</u>	@	@

Pod Design Capability

Monodose (single chamber)		(2)	(2)	(
Dual chamber	©	©	©	(
Triple chamber	©	©	©	(
5 Chamber designs	©	©	-	
Powder & liquid combinations	©	©	©	(
Dual Shot Nozzle	<u> </u>	_	_	

Control Platforms

Allen bradley	(2)	(2)	(2)	(
Siemens (SIMOTION)	©	©	©	(

Product Development

Pod design	(2)		(2)	6
Static testing (hand samples)	©	©	(2)	6
Dynamic testing (speed testing)	©	(2)	(2)	6
Pod regulatory compliance	©	(2)	(2)	6

Efficient Design

Liquid purge tarik				(
Sliding nozzle bar	©	(2)	(2)	@
E-Z Depth drum adjustments	©	(2)	(2)	@
Autosplicing	©	©	-	-



Water soluble Pods HYDROFORMA FB Series

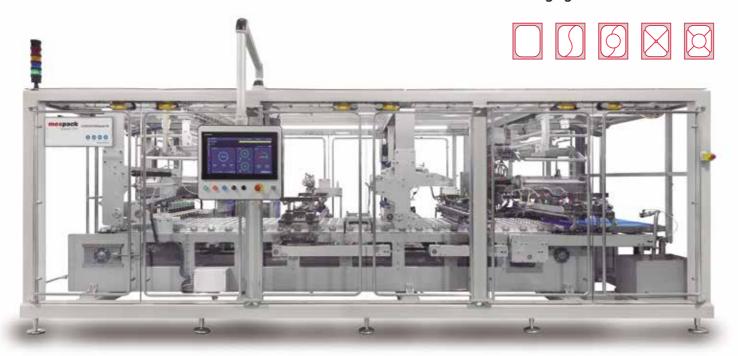
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HYDROFORMA 660 FB

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)	POUCH DEPTH (mm)	PROD PODS/MIN (POWDER)	PROD PODS/MIN (LIQUID)	TYPE
HYDROFORMA 660 FB	90	90	up to 18	2000	2000	Pod

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.



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.

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.

> 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

Products Liquid / pasty **Feed Systems**

Servo pump (liquid)	(
Pneumatic pump (liquid)	6
Volumetric (powder)	6
Combination units (powder & liquid)	6

Pod Design Capability

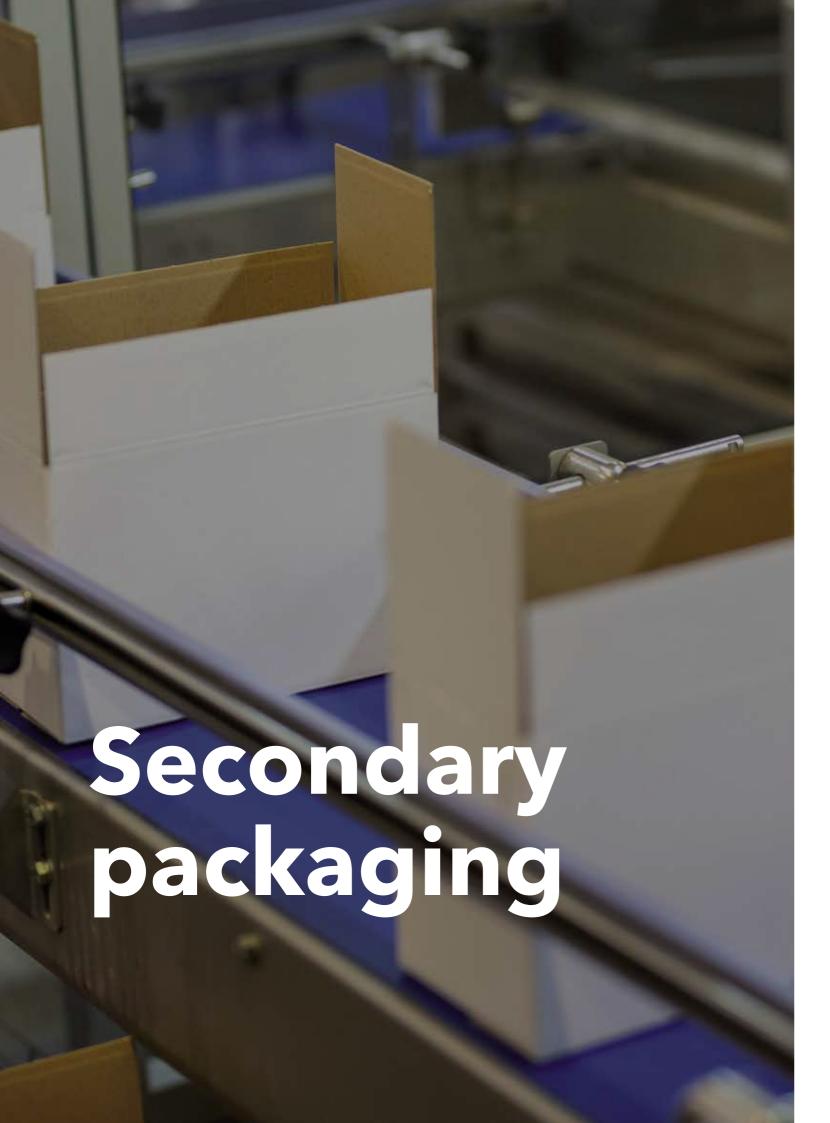
Monodose (single chamber)	(2)
Dual chamber	©
Triple chamber	©
4 Chamber designs	@
5 Chamber designs	©
Powder & liquid combinations	©

Control Platforms

Allen bradley	@
Omron	@
Siemens (SIMOTION)	©
Efficient Design	
Liquid purge tank	@

Liquid purge tank	©
Sliding nozzle bar	©
Autosplicing	©





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 introduce various formats in secondary packaging



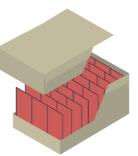




Secondary packaging plays an important role regarding the diverse facets of a product, the most important being the protection given to the product and primary packaging during transportation. Other important aspects include those in reference to display, distribution, and branding.



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









Lid and Tray

Display

Tray

Wrap-Around

Discover the Mespack 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

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
- Cartoons
- Cluster packs
- Blisters
- Rigid containers
- Shrink wrapped packs

Containers Accumulation Area and **Grouping Devices Section:**

(in accordance with containers type)

Blank Sheets Magazine Section:

- Cases
- Trays

Case or Tray Performing Section:

 Run uneven or even flaps

Single or Twin Case Filling Section:

- Robots
- Pushers
- Pick and Place

Case forming Section:

- Folding
- Flaps
- Gluing
- Squaring
- Compacting

M/C Exit Section:

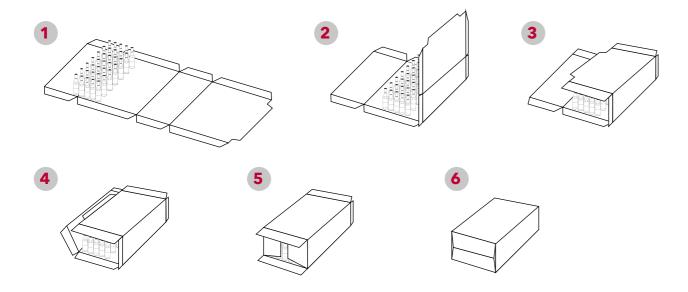
- Closed flaps inspection
- Case turning
- Exit
- Conveyor





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.

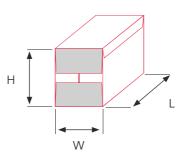
We offer equipment that is adapted to intermittent cycles and continuous cycles, depending on the wrap-around model and the requirements of the product to be packed.

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

WRAP-AROUND NTERMITTENT MOTION	L (mm)	W (mm)	H (mm)	OUTPUT CASES / MINUTE (cpm)
/8600	450 max 185 min	390 max 120 min	385 max 110 min	Up to 42 cpm
V8500	510 max 185 min	380 max 120 min	400 max 105 min	Up to 35 cpm
V8400	500 max 185 min	380 max 120 min	400 max 110 min	Up to 25 cpm
W7000 PRO	600 max 185 min	400 max 100 min	400 max 60 min	Up to 18 cpm
W7200	600 max 220 min	400 max 100 min	375 max 120 min	Up to 15 cpm

^{*} Depending on containers type



AMERICAN BOX - EF Series

EF100

(Regular Slotted Containers)

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

At Mespack, 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.







ow packs Stand-up Pouc

Technical Specifications

MACHINE	OUTPUT (Cases/min)	FORMAT MAX LxWxH (mm)	FORMAT MIN LxWxH (mm)	SEALING SYSTEM
EF100	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

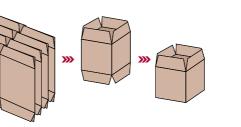


PICK & PLACE MODULEIncludes grouping and transfer system



CASE SEALER

T Series C Series









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A DIRAYAN COMPANY

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* Optional

Secondary Packaging

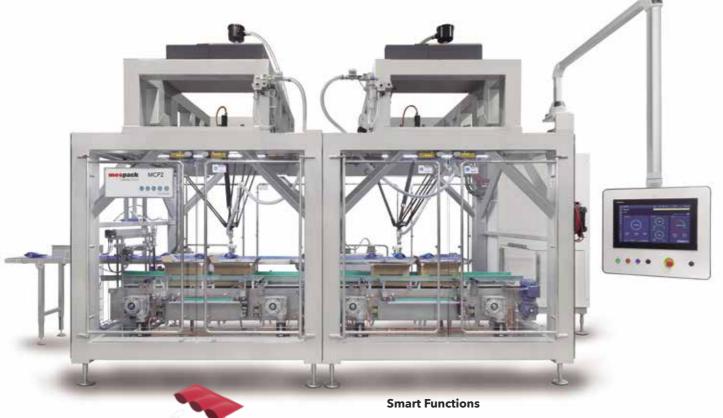
AMERICAN BOX - MCP Series

MCP4, MCP3, MCP2, MCP1

(Regular Slotted Containers)

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:



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Technical Specifications

MACHINE	OUTPUT * (Cases/min)	MAX. INFEED (p.p.m.)	FORMAT MAX LxWxH (mm)	FORMAT MIN LxWxH (mm)
MCP 4	40	250	400x350x220	200x190x120
MCP 3	30	200	400x350x220	200x190x120
MCP 2	20	150	400x350x220	200x190x120
MCP 1	10	100	400x350x220	200x190x120

* 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



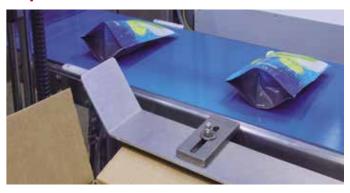
A delta robot is used to pick pouches and place them inside of american box in a horizontal position. Up to 160 picks per minute are possible with a model MCP4.

Automatic Changeover Belt



This belt is able to do an american box format change over 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.



New Controls:



Adapted to Work with **Sustainable Materials**

CASE ERECTOR PICK & PLACE MODULE



Case Assembly Process

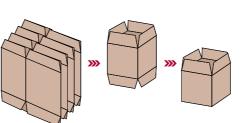


Includes grouping and transfer system



CASE SEALER

T Series C Series















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