

# ALFA

*Vertical multilane stick-pack machines*



POWDERS



GRANULES



PASTES



LIQUIDS



TABLETS



**since 1965**

 **MADE IN ITALY**



# ALFA Stick-Pack Machines



## AUTOMATIC MULTI-LANE STICK MACHINES ALFA

For food, pharmaceutical, chemical and cosmetic sectors

Universal Pack's **ALFA** range are vertical, intermittent-motion packaging machines for single portion stick-packs or shaped sticks. They can be equipped with any dosing system and can accommodate a large range of stick sizes. The machine's output is based on the

number of lanes and cycle speed. The maximum number of lanes is determined by the stick dimensions whilst the cycle speed depends on the product, film, dose, stick format and many other factors.

### BASCULATING STICK MACHINES

Suitable for granules and free-flowing products such as sugar, salt, sweetener, pepper, black tea, creamer, instant coffee, instant tea, yeast, pharmaceutical granules and so on.



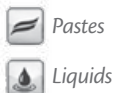
### AUGER STICK MACHINES

Suitable for non free-flowing products containing fat that makes them lumpy, and non free-flowing powders such as coffee, 3-in-1 mixes, cocoa, chocolate powder, milk powder, dry sauce mixes, spices, baking powder, yeast, pharmaceutical powders and so on.



### PISTON PUMP STICK MACHINES

Suitable for high viscosity liquids such as ketchup, tomato paste, sauces, mayonnaise, mustard, seasoning, shampoos, toothpaste, cosmetic creams, syrups, ointments, pharmaceutical preparations in gel and so on.



### GRAVIMETRIC STICK MACHINES

Suitable for low viscosity liquids such as juices, ice-pop liquids, vinegar, detergent, medicinal liquids and so on.



## DOSING SYSTEMS

**BASCULATING**  
For free flowing products

**AUGER**  
For powders, free and non free flowing products

**PISTON PUMP**  
For pasty products

**GRAVIMETRIC**  
For liquid products

**ALIGNER DISPENSER**  
For tablets and similar products

## TYPE OF STICK-PACK

**STICK-PACK**

**PILLOW STICK**

**DOUBLE STICK**

**SHAPED STICK**

**SIDE-FIN STICK**

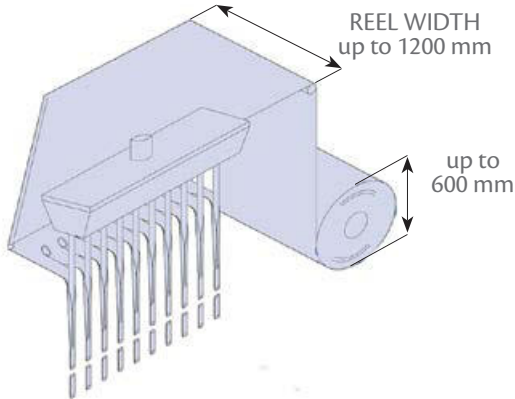
## LAYOUTS / TECHNICAL DATA & CHARACTERISTICS / OPTIONS

STICK		Min.	Max
Width	[mm]	10	140
Length	[mm]	30	200
Dose	[cm³]	0,1	300

PRODUCTIVITY	
Output	up to 2400 stick/min
Lanes	from 2 to 24

REEL	
Max width	[mm] 1200
External Ø	[mm] 600

	Width [mm]	Length [mm]	Max sealing width [mm]
Version P	2200	2500	400
Version S	2200	2500	640
Version M	2400	2760	900
Version G	2760	3060	1200



- Ergonomic design and space optimization
- Synchronised Brushless servomotors
- Component codification
- Colour touch screen monitor HMI
- Quick reel splicing in an easily accessible position
- Film tension control and automatic reel alignment
- Ink jet, thermal transfer, embossing and laser printing
- Inline stick-pack check-weighing with trend control feed-back
- Remote factory assistance



## ALFA FOR SIDE FIN STICK-PACKS



ALFA Universal stick-pack machine design is optimized to produce side fin stick-packs. Side-fin sealing increase printable area on the

stick-pack or customer's artwork. This stick-pack permits an easy open for any kind of products.

## ALFA MODULAR LINE FOR EASY AND FAST SIZE CHANGE



ALFA Universal Pack stick-pack machines, can be equipped with systems to produce different stick sizes. The size change is fast with

rapid disassembly so as production can be rapidly started with the new size.

## ALFA PILLOW STICK-PACKS



ALFA Universal Pack pillow stick-pack machines are designed to meet customer requirements to produce large size stick-packs. The

increased volume inside the stick-pack allows a large quantity of product to be packed.

## SYNTHESIS ALFA LINE FOR SHAPED STICKS



ALFA Universal Pack stick-pack machines can produce shaped sticks with a unique design, and can be optimized to comply with any

customer's requirements. Design is important for any customer, and Universal Pack machines are the answer to that.



# Wide range of devices and facilities

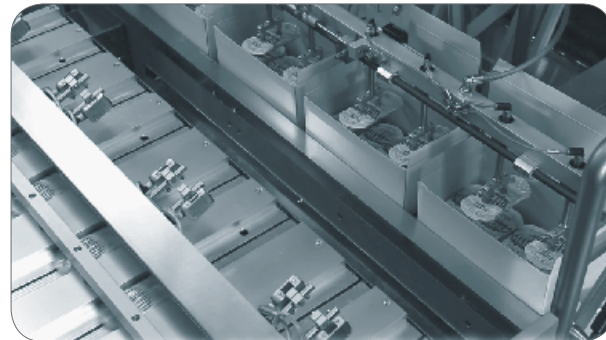


## IN-LINE CHECK-WEIGHING



Check weigher for inline check-weighing of produced stick-packs with automatic dose regulation (trend control feedback) and rejection of out of range stick-packs, designed and developed by Universal Pack R&D team and constructed in-house.

## PICK AND PLACE SYSTEMS



Pick and place systems for positive stick-packs transfer into cartons, designed and developed by Universal Pack's R&D team and constructed in-house.

## WINDOWS PC PANEL



Innovative, compact and ergonomic monitor with a stylish design. Integrated teleassistance software enables to remotely access the machines. User, maintenance and spare parts manual and drawings integrated into LCD monitor. A 3D software allows to inspect each machine's component, in order to simplify component code research.

## MULTILANES MACHINES



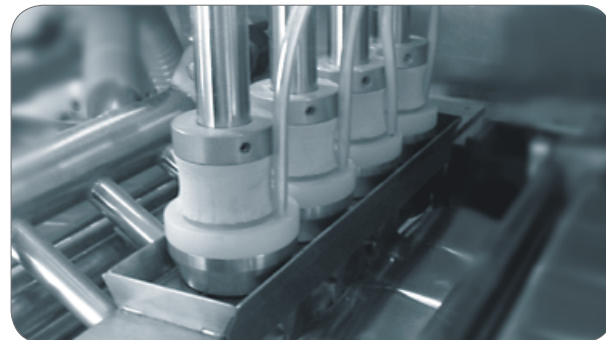
Universal Pack are high speed production machines, working on multilanes but with the flexibility that every customer might need. Change over and cleaning of all components is easy due to the accessible ergonomic design of our stick-pack machines.

## CIP SYSTEMS



Clean-in-place (CIP) is a system of cleaning the inner surface of nozzles, cylinders, pistons, all pipes and manifolds in the circuit, without disassembly developed by Universal Pack R&D department in accordance with EHEDG Guidelines and 3-A Sanitary standards.

## MODIFIED ATMOSPHERE PACKAGING



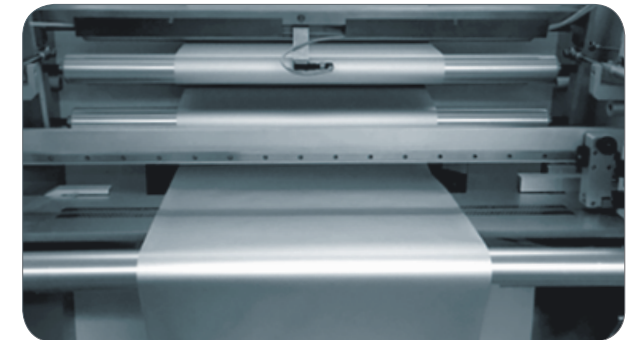
In order to improve product shelf life Universal Pack offers inline modified atmosphere packaging systems, commonly for food packaging, drugs, etc... The modification process is aimed at lowering the residual oxygen in stick-packs below 1%, in order to slow down the growth of aerobic organisms and the oxidation process.

## DISASSEMBLY WITH NO TOOLS



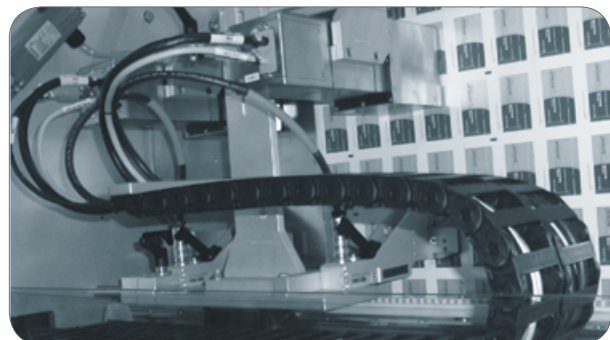
Disassembly and reassembly require a great deal of patience, care and, above all time. Most of the parts in direct contact with the product are quickly and smoothly removable without tools, conforming to cGMP criteria (easy format change and ease of cleaning and maintenance).

## REEL SPLICING



Besides the possibility to place on the machines both reels without shafts and double reels, Universal Pack has developed a new system for quick reel splicing in an easily accessible position. Thanks to these improvements reel change is faster, more user-friendly and film wastage is reduced.

## INK JET PRINTING & VISUAL CONTROL



Advanced technologies for printing systems, for inline printing of text, images, etc. on each stick-pack. The camera checks for continuous printing in order to minimize errors during machine running.

## OPENING GROUPS



The main groups on Universal Pack's machines can be easily opened and accessed; this simplifies and speeds-up the cleaning process. In addition, with only a few steps and no tools, groups can be disassembled and reassembled.

## PC NETWORK & SUPERVISOR



Universal pack machines can be connected to a network by an Ethernet connection. Using a supervisor PC panel it's possible to obtain statistics related to machine production.

## SEALING PRESSURE CHECK



Universal Pack's machines can be equipped with a pressure sealing sensor to check in continuous the sealing pressure applied on film during stick formation. This system checks that each stick it's fully sealed to minimize imperfection on produced stick-packs.

*Meticulous attention to detail and quality*

*Innovation, research and high degree of customization*



# Synthesis ALFA Complete Automatic Lines



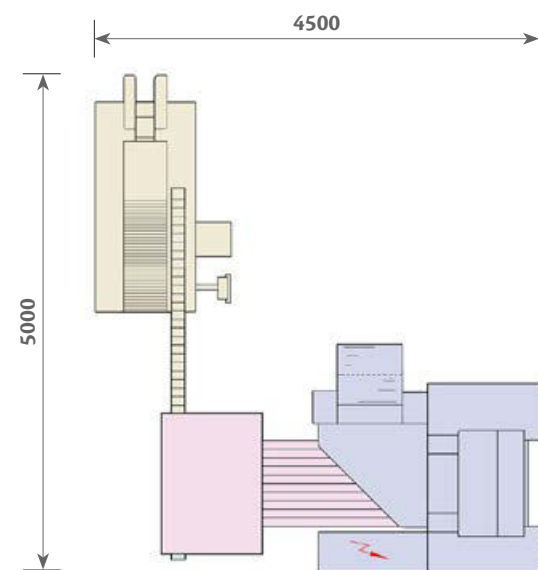
## USING PRE-GLUED FOLDED CARTONS

Complete automatic stick-pack lines entirely designed and constructed by Universal Pack composed of ALFA stick-pack machines, counting & stacking groups and horizontal cartoning

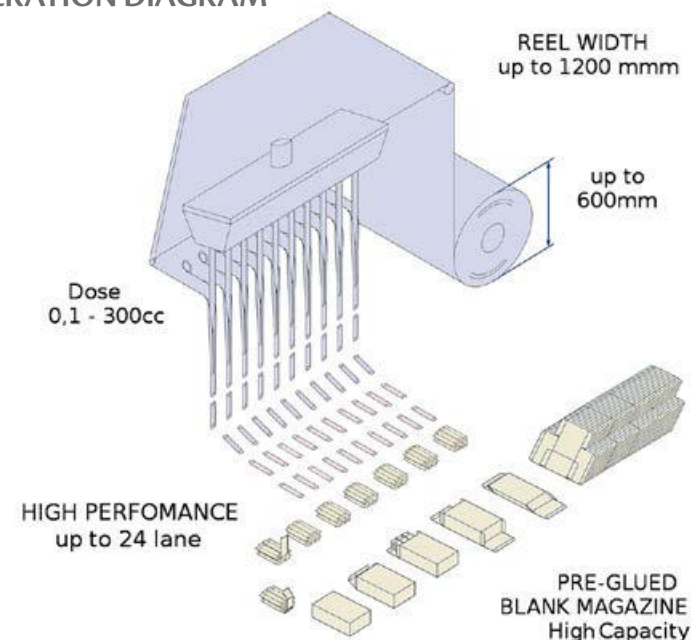
machines equipped with suitable dosing systems for the packaging of powders, granules, liquids, tablets in stick-packs and subsequent automatic introduction into pre-glued cartons.



### LAYOUT



### OPERATION DIAGRAM



### KEY TO COLOURS

ALFA STICK-PACK MACHINE    COUNTING & STACKING GROUP    CARTON FORMING MACHINE

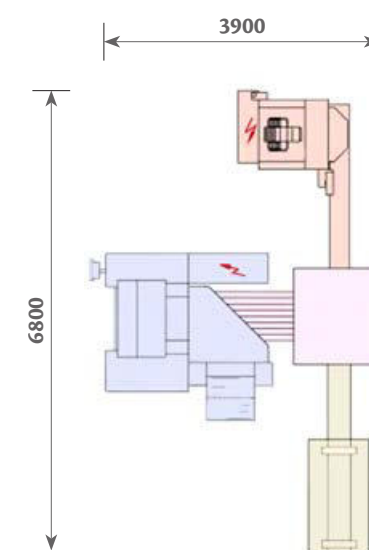
## USING FLAT BLANK CARTONS

Complete automatic stick lines entirely designed and constructed by Universal Pack composed of ALFA stick-pack machines,

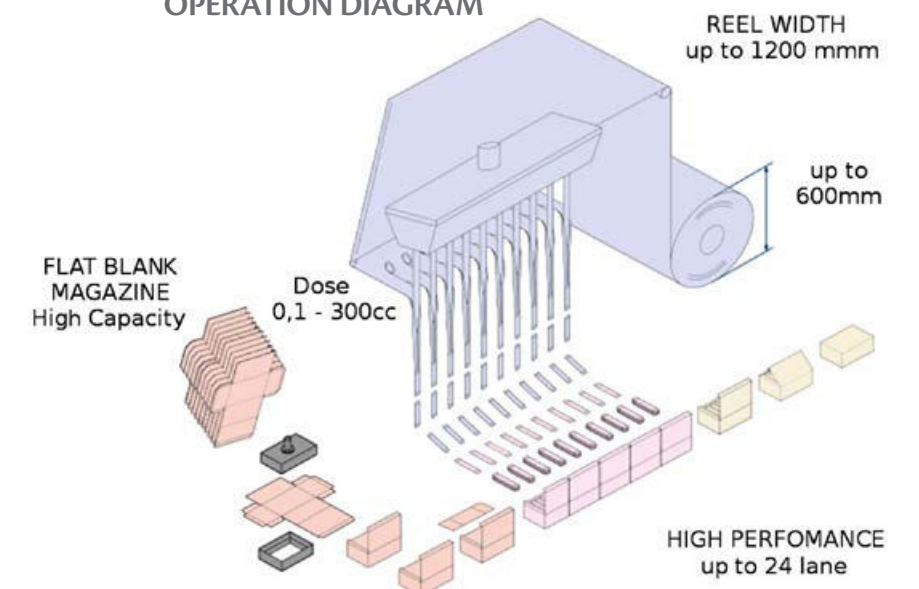
counting & stacking groups carton forming and carton closing machines.



### LAYOUT



### OPERATION DIAGRAM



### KEY TO COLOURS

CARTON ERECTING MACHINE    ALFA STICK-PACK MACHINE    COUNTING & STACKING GROUP    CARTON CLOSING MACHINE

*High efficiency, flexibility plus user-friendly design*

*Quality is not an optional, it is our daily pursuit*

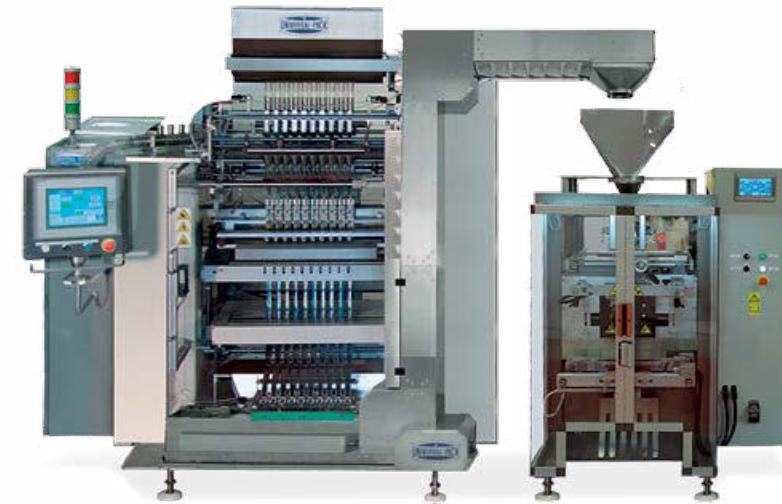


## SYNTHESIS ALFA WITH “LIFT GROUP” AND CARTONING MACHINE



**ALFA** Stick-pack line configuration starting from pre-glued cartons for filling stick-packs in boxes.  
The machine can be equipped with a special “Elevator”, to lift the stick-packs for linking with a secondary line.

## SYNTHESIS ALFA WITH POUCH MACHINE



**ALFA** Stick-pack line configuration with pouch machinery.  
Universal Pack machines can be connected to the most established worldwide pouch machinery, thereby satisfying every customer needs.

## SYNTHESIS ALFA COMPLETE LINE WITH “BOMB-BAY” DISCHARGE



**ALFA** Stick-pack line, with “Bomb Bay” solution, combines the high productivity of Universal Pack’s **ALFA** machines with carton erecting machines, check weighers and carton closing machines.

## SYNTHESIS ALFA WITH CONTINUOUS MOTION CARTONING MACHINE



**ALFA** Stick-pack machines can be connected to intermittent or continuous motion cartoning machines, to satisfy all kind of customer’s requirements.





Sachet machine from Universal-Pack photographic's archive: year 1965



Founded in 1965, the factory has specialized in designing and constructing top-quality vertical multilane packaging machines and complete lines with respective cartoning systems. The company is recognized world-wide as a packaging leader operating in the food, chemical, pharmaceutical, and cosmetic industries.

Universal pack also prides itself on customizing machinery specifically to the customer's demands. All these machines and complete lines are designed, manufactured and assembled in-house in the factory in Italy, which means Universal Pack is responsible to ensure the complete line is fully functional. The 500 mq warehouse currently houses over 60.000 individually coded spare parts.

Universal Pack has quick and efficient access to an extensive and comprehensive computerized inventory of every single spare part, which allows for quick delivery times to customers. Universal Pack achieved ISO 9001:2008 certification by TÜV in 2001; as a result, all relevant information is stored and easily accessible

when required. Universal Pack has the most sophisticated state-of-the-art tooling machinery, with which over 80% of our machines parts are produced. In this way not only the quality is controlled, but also the availability of the parts required either for new machine construction or spare parts.



QUALITY MANAGEMENT  
CERTIFICATION  
UNI EN ISO 9001:2008  
n° 50 100 1592



INDUSTRIAL SAFETY  
CERTIFICATION  
n° 50 100 12341/BS  
OHSAS 18001:2007

With complete control and understanding over the entire manufacturing process, Universal Pack manufactures extremely high-precision parts, quickly, effectively, with machine design innovation.

Universal Pack is located in San Giovanni in Marignano, on the Adriatic coast, 30 minutes from Rimini and 1 hour from Bologna, the packaging capital of Italy also known as "Packaging Valley". The nearest airports are Bologna and Ancona, while the biggest and easiest to get to are in Milan and Rome.



AIRPORT	distance
RIMINI	20 km
ANCONA	80 km
BOLOGNA	120 km
MILAN	350 km
ROME	350 km

### PEOPLE & PLANET

Lighting the way towards a sustainable future

We want to have a positive impact on people and the planet. Being a responsible company, operating more sustainably has always been part of our philosophy. We are strongly committed to invest in renewable energy and 'energy-efficient' technology to help tackle climate change. Furthermore we are constructing sachet machines and lines running with sustainable biocompostable laminates which break down naturally into organic components in 12 weeks thus reducing the impact of the wrapping materials on the environment.



Project Design Department



Parts Workshop



CNC tooling machinery



Assembly Department



Warehouse



Quality Control Room



# Universal Pack's mission



**Universal Pack** presents itself as a designer and constructor of highly efficient, flexible and user-friendly stick machinery and complete lines, totally client-oriented.

## WE PRIDE OURSELVES ON:

### EXPERIENCE

Thanks to almost 50 years of experience, we have accumulated extensive knowledge about the packaging industry and its rigorous demands, we have worked with thousands different products and laminates in all markets: food, pharmaceutical, chemicals, cosmetics.

### BESPOKE SOLUTIONS

Though the basic structure of our machine is the same, almost each one we construct is unique in some way, specifically tailored to the customer's stick size, number of lanes, dosing system, down-line, end-of-line packaging and a wide variety of options.

### HIGH-TECH & HIGH-QUALITY SOLUTIONS

Our strength lies in constructing high-speed, high-precision and high-output solutions for particularly demanding customers. We can reach production of 2400 stick-packs per minute on a multi-lane machines. Furthermore, we can achieve very small doses up to 0,1g.

### ROBUST & COMPACT MACHINERY

Once our machines are properly set up, they are capable of operating at the same speed for many years. Furthermore, they all feature a compact footprint and ergonomic design.

### CUSTOMER SERVICE

Our main strength is our exceptional pre-sales consultation and after-sales follow up. Ongoing support, friendly assistance and courteous timely service are one of the main reasons most customer keep choosing us. Customer satisfaction is our mission and business priority.

### TRAINING

In order to improve productivity, increase reliability, maximize the operational efficiency and reduce time loss, we support our customers with appropriate instruction and training programs, so that can quickly learn what and how to do.

### TPM

We provide customers a wide range of tools aimed at improving machine capability through a better utilization of maintenance by following the philosophy of TPM "Total productivity maintenance".

### EXCELLENCE

Our success is achieved through meticulous attention to detail and quality.



Sachet & stick-pack solutions  
supplied worldwide  
for all market sectors



*Entirely made in Italy with state-of-the-art technology*

*A pioneer and consolidated leader in the world of packaging*



[www.universalpack.it](http://www.universalpack.it)



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