

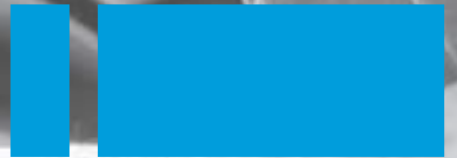


SHAPING IDEAS SINCE 1994



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INDUSTRY AND IDEAS



PACKAGING MACHINES

ICA INSIGHT

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THE LATEST SOLUTIONS AT THE HIGHEST SPEED



CSV40 N



CSV40 NTS



CSV40 NFR



CSV40 N MAXI



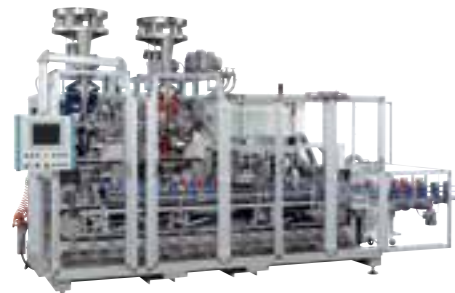
CSV160



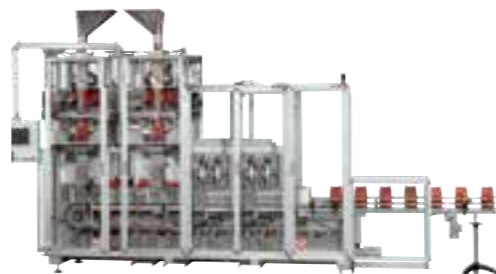
CSV300



CSV40 PAKET



CSV40 PAKET TWIN TUBE



CSV40 PAKET HT



CSV40 PAKET TIN-TIE



VACUUMPACK



HIVAC50



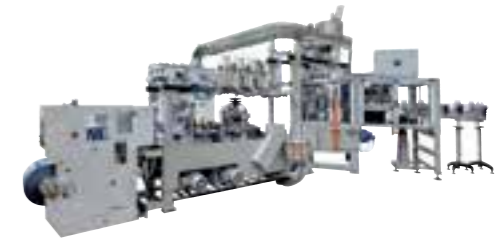
HIVAC90



AROMAPACK RS20



AROMAPACK PAPER



AROMAPACK RS20 10 STATIONS



AROMAPACK RS20/60



HF100 C/G



HF100 C/P



HF120



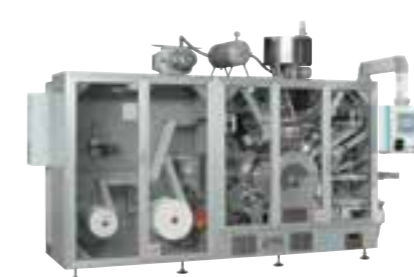
FLOURPACK SUGARPACK



PC 400



PRONTOWASH



AROMACUP



STANDPACK SP60-SP120

CSV40 VERTICAL SERIES

- Standard: CSV40 N
- Other versions: CSV40 NTS bags with 4 sealed edges
CSV40 NFR high-speed version
CSV40 N MAXI version for bags up to 15 liters
CSV160 pod version
CSV300 continuous version

AVAILABLE ON ALL OUR V/F/F/S MACHINES:

- Easy-open and re-closing systems;
- Wide range of date coding/marketing/labeling devices;
- Wide range of automatic weighing units/volumetric fillers;
- Gas-flushing;
- Integrated type-approved checkweigher;
- Lateral outfeed to reduce overall dimensions and facilitate the operator
- Degassing valve fitting unit;
- Motion Control with machine logic and integrated temperature control;
- Industrial PC supervision and touch screen;
- Integrated remote assistance via internet.
- Edge sealing for more stable and highly aesthetic bags, thanks to the ICA solution that allows to move the longitudinal seam to one of the edges, increasing the possibility of customizing the bag with promotional labels.



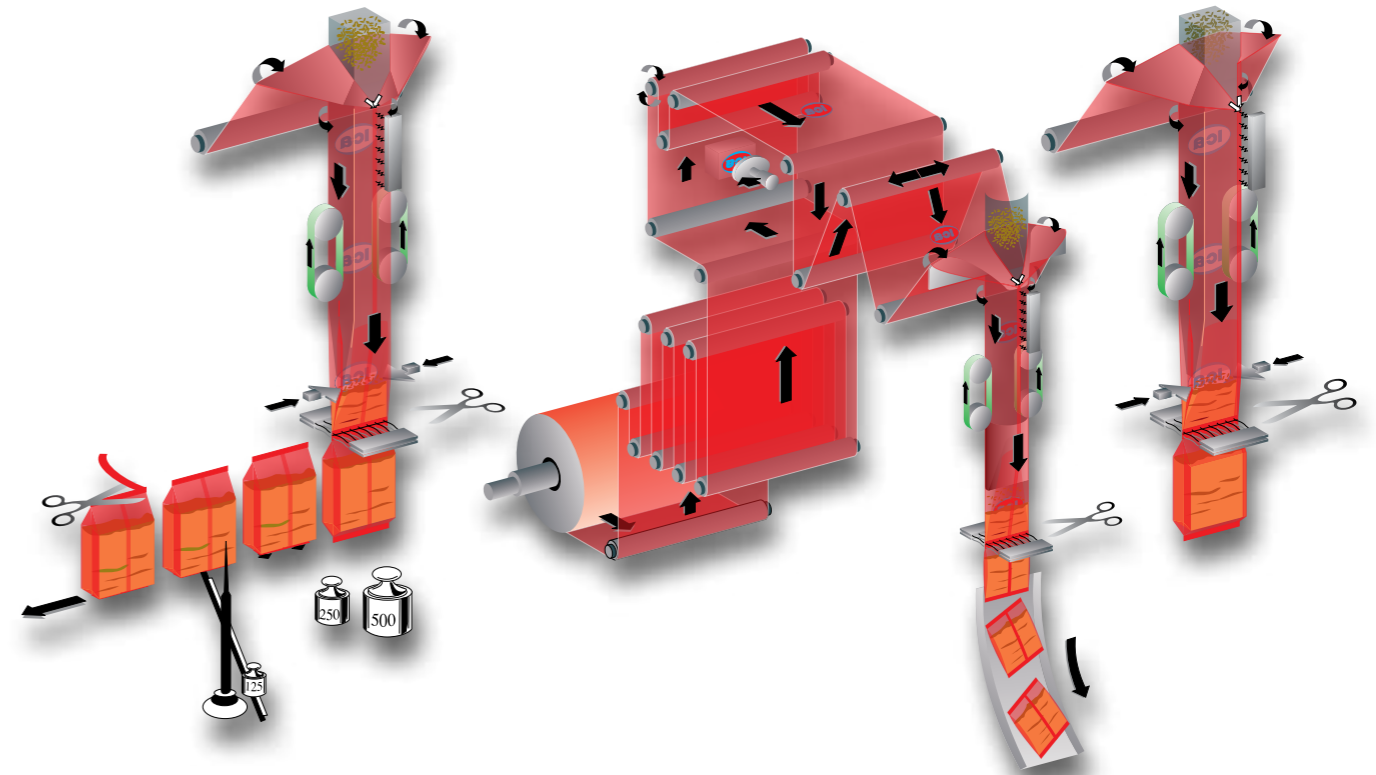
60 bags/minute depending on the weight and the type of product



FLAT BOTTOM BAG
AND/OR SIDE SEALING
(RECTANGULAR FORMING TUBE)



PILLOW-SHAPE BAGS
(CIRCULAR FORMING TUBE)



AVAILABLE IN
TWIN TUBE CONFIGURATION!

The **CSV40N** is the result of the great experience that ICA S.p.A. has gained in the designing and manufacturing of vertical packaging machines for the production of pillow-shaped, side-gusseted and squared bottom bags.

The unique patented movement of the jaws, which guarantees a perfectly square bottom, the built-in check-weigher, homologated and equipped with filler trend feedback, the side outfeed, the high output, are

all features that make the CSV40 packaging machine an absolutely interesting product for the most varied applications.

The CSV40N is equipped with a dosing system for ground and whole bean coffee with Aroma System degassing valve and gas flushing to obtain a residual oxygen level inferior to 1%.

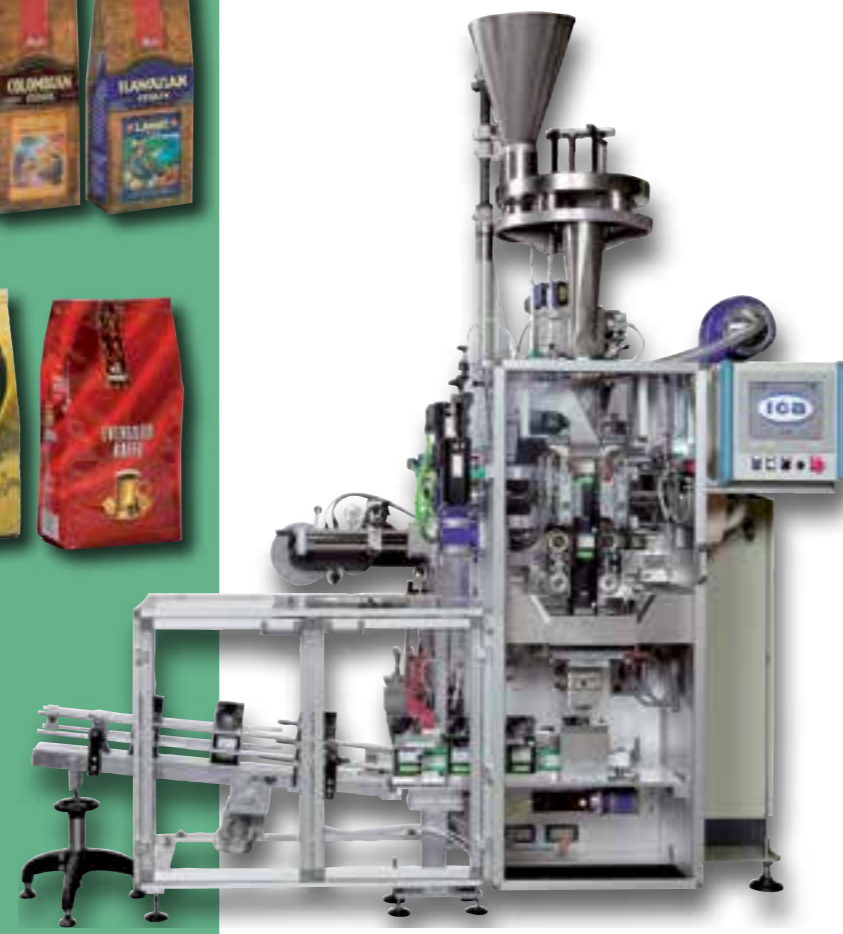
The CSV40 is totally versatile: the entire range of optional fittings may be installed also when the machine is already operating at the customer's site!

CSV40 NTS



It is possible to wrap strips of marked cardboard around the bag for a flexible customization without changing the packaging material and more product visibility on the shelf.

60 bags/minute depending on the weight and the type of product



In order to meet the needs of a market in constant evolution, the line CSV40N expands by adopting the system for sealing the 4 bag edges, available since 1996 on the horizontal forming AROMAPACK® lines, for making flat bottom and gable top or paket-shape bags.

CSV40NTS enables to offset the longitudinal seam near the edge, sealing either inside with outside or inside with inside, without

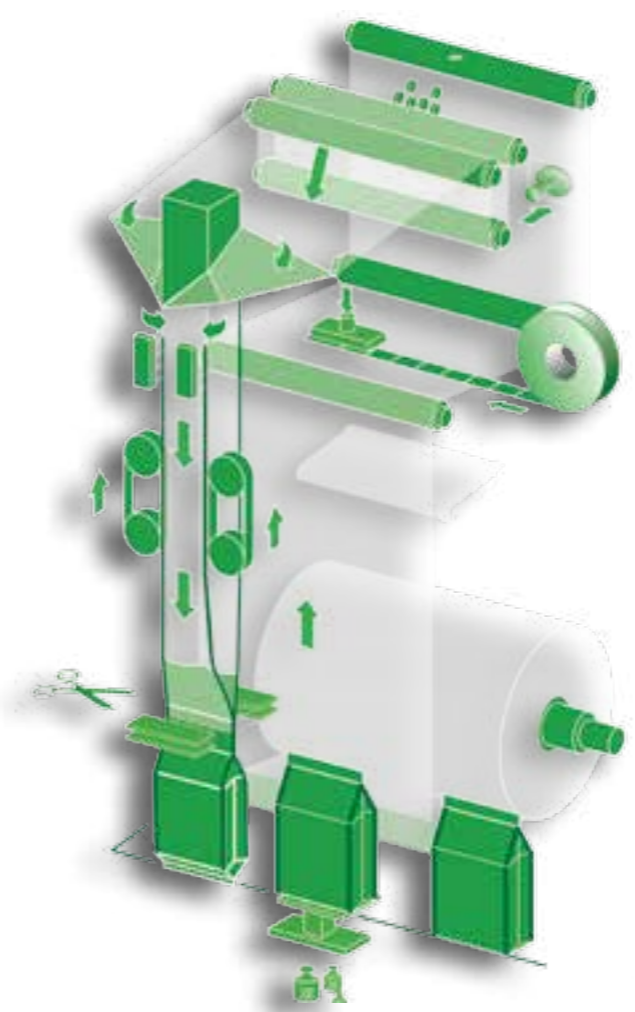
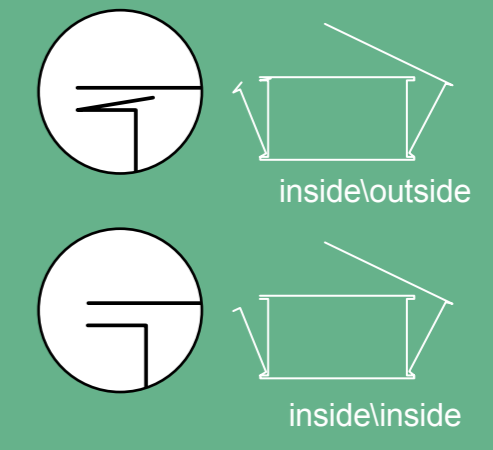
modifying or fitting any part and, in particular, without performing the trimming operation, thus avoiding useless film waste and enabling the use of both mono and bi-sealing films.

CSV40NTS enhances the well-known esthetical and functional features of the bag, by making it even more rigid, also when using thinner films.

The bottom flap is always perfectly folded, flattened and, with bi-sealing films, fixed to the bag bottom, also on an empty bag!

CSV40 NTS

4 SIDED SEAL BAGS AND NO TRIMMING!



CSV40 NFR



140 bags/minute for 50 grs of rice in pillow-shaped bag

FILM DRIFTING CONTROL

CSV40 NFR, high-speed vertical packaging machine, unique in its kind for performances, efficiency and quality/price ratio.

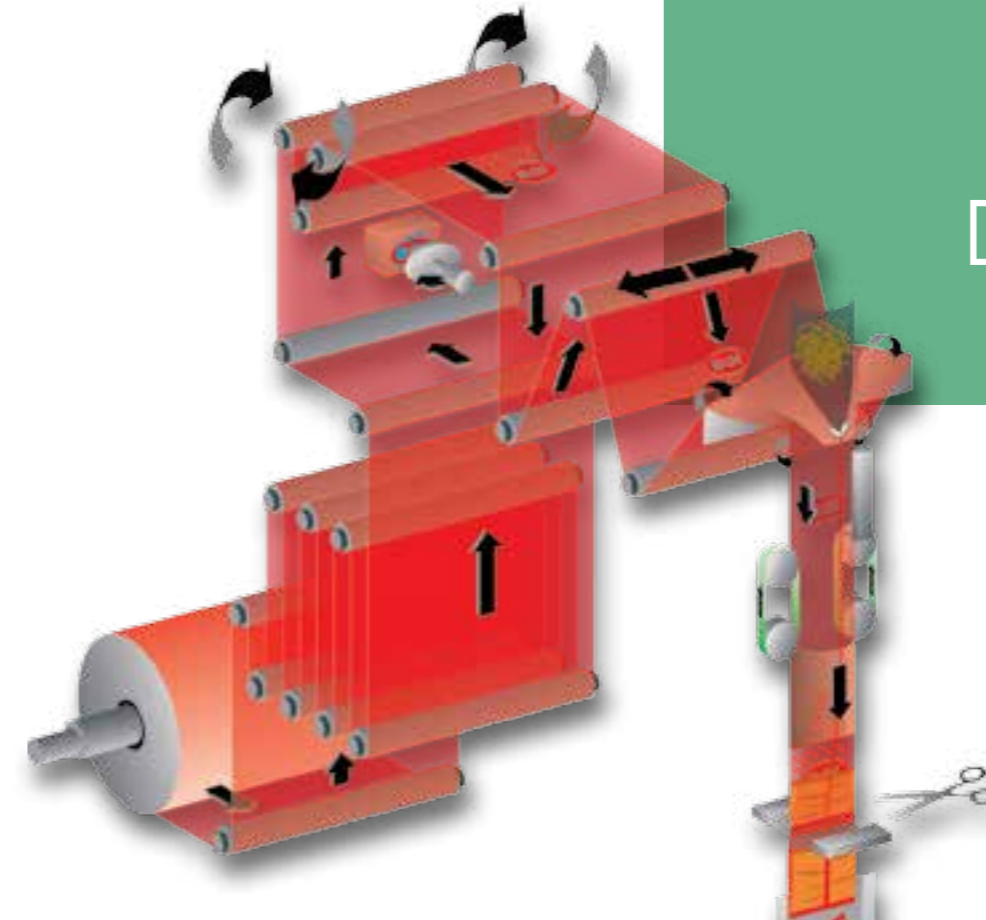
The CSV40 NFR is able to produce pillow-shaped, side-gusseted and perfectly squared bottom bags at more than 100 bags/minute.

The servo-driven mechanics and the upgraded electronics, together with the possibility of using the most common filling and labelling/coding systems, make the CSV40 NFR one of the most fast, flexible and versatile vertical packaging machines now present on the market.

HIGH-SPEED VERTICAL PACKAGING MACHINE

CSV40 NFR

DOUBLE FILM DRIVING DEVICE



ASSOCIATIVE WEIGHERS WITH 8,10,12,14,16 HEADS 2,3 BASKETS



CSV40 N MAXI



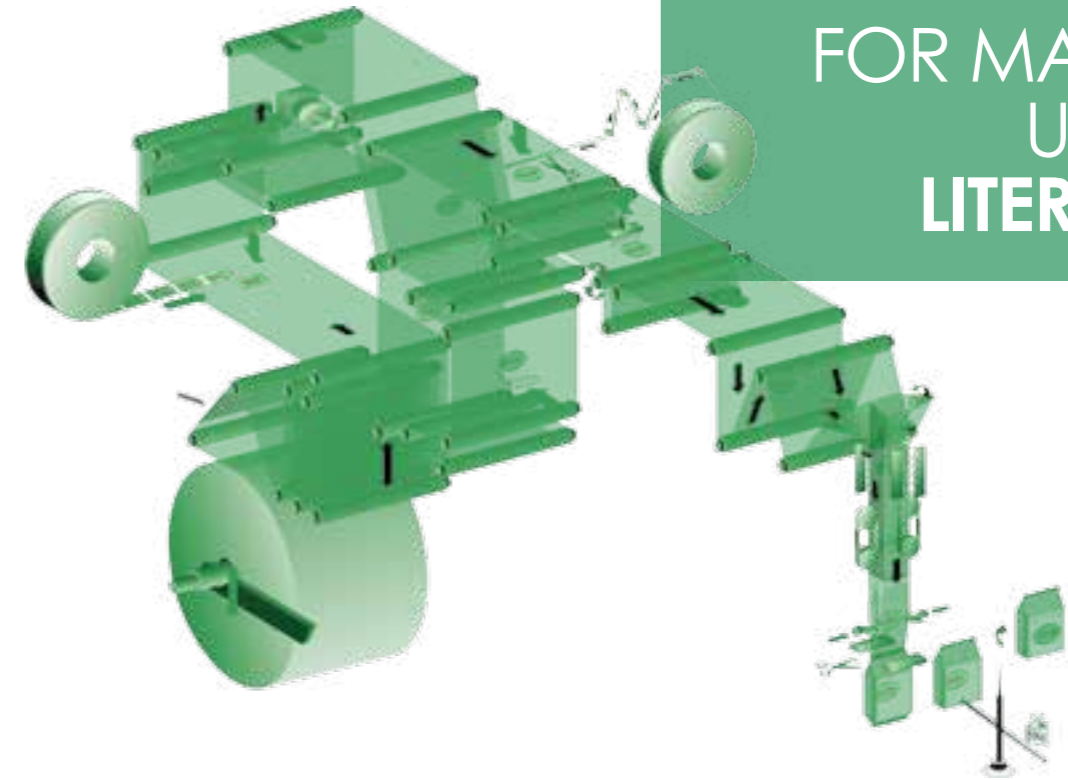
CSV40N MAXI 2 PV2M WEIGHER
FRONTAL EXIT



Now the CSV40 N is turning into a megawide **CSV40 N MAXI** to pack up to 5 Kg. of coffee beans.
Max bag dimensions up to 200x100mm with side sealing, 220x130 mm with central sealing 580mm cut-off length.

CSV40 N MAXI

FOR MAXI SIZES
UP TO 15
LITERS BAGS



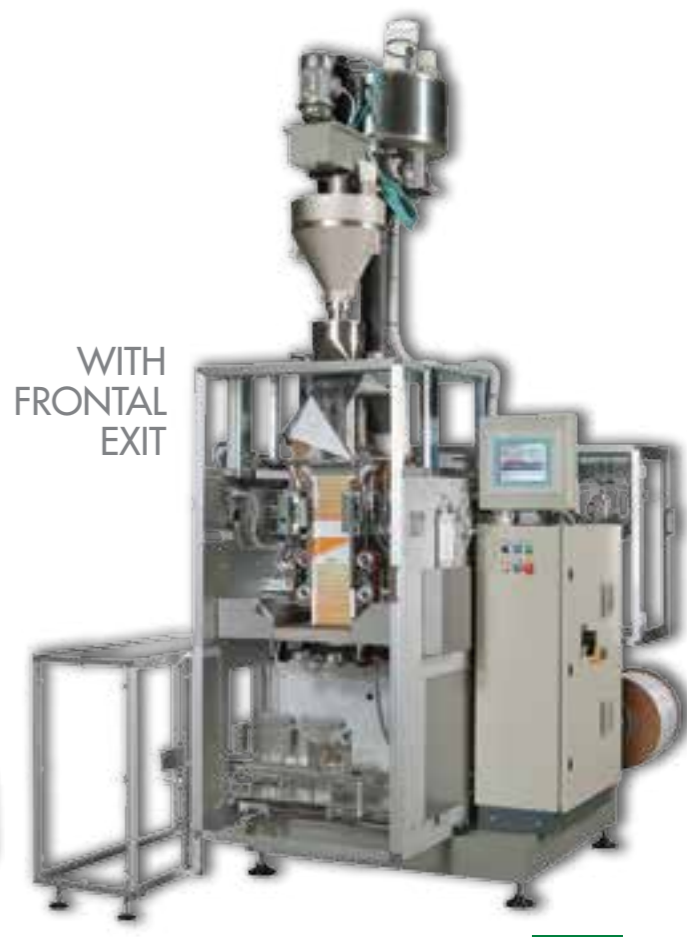
10 bags/minute for 3 kg
of coffee beans

40 bags/minute for 500
grs of coffee beans

CSV40N MAXI
2PV2 WEIGHER
SIDE EXIT



WITH
FRONTAL
EXIT



CSV160 CSV300 C

CSV160

Alternate-motion machine for high-speed packaging of pods in pillow-shape bags or bags with three edges sealed.

- Bags in modified atmosphere.

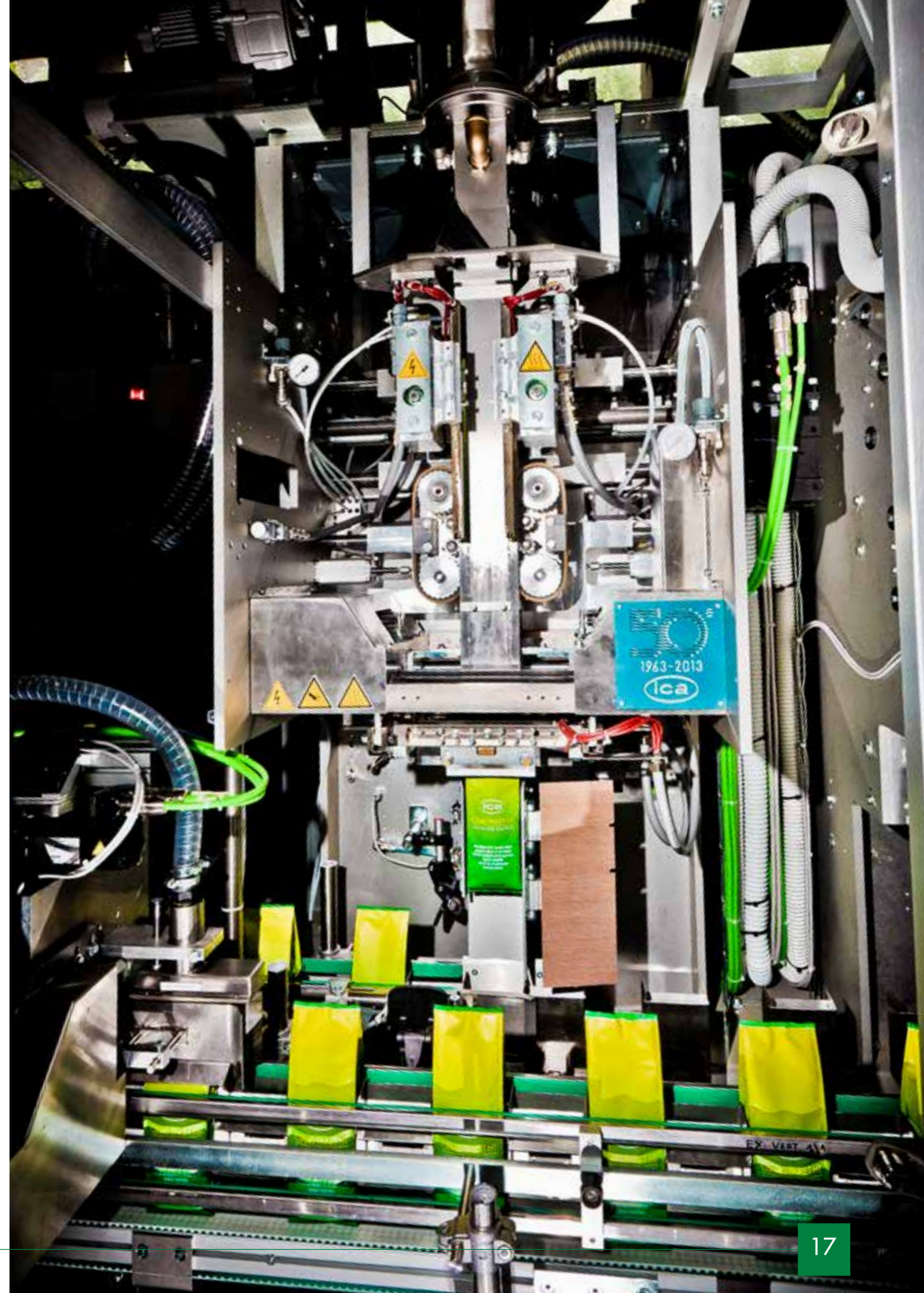
CSV300 C

Continuous-motion machine for super high-speed packaging of pods or capsules in pillow-shape bags or bags with three edges sealed.

- Bags in modified atmosphere.

160 bags/minute

300 bags/minute



CSV40 PAKET SERIES

Flexible and customizable packaging machines for meeting every customer's needs.

Vertical f/f/s machine starting from a reel of heat-sealing material, combining the features of the classic CSV40 line with the possibility of making square bottom and top bags.

- Standard: **CSV40 PAKET**
All the features and optional fittings of the CSV40 series
 - Bag top single or double folding;
 - Possibility of off-set longitudinal seam;
 - Bag top closing by means of hot-melt glue;
 - Label on bag front or back;
 - Possibility of packaging in modified atmosphere
- Other versions: **CSV40 PAKET TWIN TUBE**
Two vertical forming units connected by only one chain operating at a speed of 70 bags/minute with 1 kg of coffee beans with 4 sealed edges.
- CSV40 PAKET HT**
innovative system that connects two vertical forming machines to two separate lanes controlled by only one chain. Output of 140 bags/minute with 500g of pasta.
- CSV40 PAKET TIN-TIE**
packaging machine that fits a tin-tie on the bag top for easy bag re-closing.



CSV40 PAKET

70 bags/minute for 1.000 grs of rice



LOGISTIC
LIGHT
VACUUM
THROUGH THE
DEGASSING
VALVE FOR
FIRMER BAGS



FRONT OR REAR LABELING



CSV40 PAKET



The ever increasing and demanding market has brought to light new needs which the packaging industry cannot avoid to cope with. Nowadays in fact the stress is particularly laid on working output and automation, as well as high flexibility and possibility to react quickly to the various market requirements and new trends.

The reaction of ICA is the **CSV40 PAKET**: high quality, complete automation, extreme flexibility, full tested efficiency, modular structure and speed up to 70 ppm (500 grs of short pasta in a paket-shape bag) are the main ingredients of this packaging machine.

On top of all this, possibility to choose among various optional fittings like labelling and tin-tie fitting units, coding devices, degassing valve, integrated check-weighers and even more.

The result is a perfectly squared bag "filled with product", with simple or double top folding, that may be treated by simple and economical end-of-the-line solutions (bundles, trays etc.), in order to emphasize the quality of its content with no compromise.

To protect coffee we gas flush the feeding system, the filling system and the end of the forming tube, reaching a residual oxygen under 1%.

CSV40 PAKET TWIN TUBE



70 bags per minute with 500g of leaf tea

70 bags per minute with 1000g of coffee beans



CSV40 PAKET TWIN TUBE, the higher output version of the Paket line combines two vertical forming units.

For a good performance, also when packaging products with difficult flowing features and machineability.

Output: 1 Kg of coffee beans inside a sealed-edges bag with degassing valve at 70 bags/minute.



"TWO-IN-ONE" SOLUTION!

140 bags/minute depending on the weight and the type of product

IDEAL FOR PASTA, RICE AND GRANULAR PRODUCTS

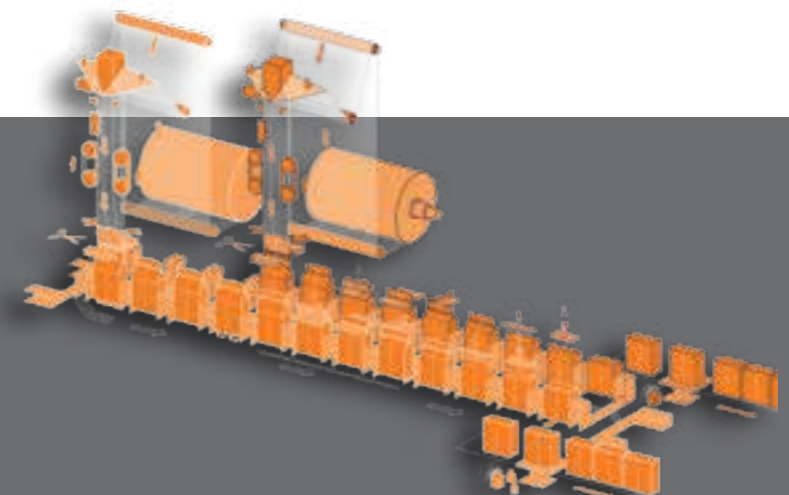
CSV40 PAKET HT



CSV40 PAKET HT, the revolutionary high-output packaging machine for flat top and square bottom bags.

Thanks to its innovative system which connects two vertical forming units to two separate lanes, driven by only one chain, the "two into one" solution doubles the output with the same space requirements and only one operator.

Output: 0,5 Kg of rice at 75 bags/minute – 1 Kg of rice at 140 bags/minute .



CSV40 PAKET TIN-TIE



CSV40 PAKET TIN-TIE is one of the most complete and flexible packaging lines available on the market for producing soft or partial-vacuum bags.

In addition to all the features of the standard CSV40 PAKET, this model allows the fitting of the tin-tie re-closing system.

The tin-tie is an excellent mechanical re-closing system, consisting of a plastic strip reinforced with two inner metal wires.

It is used in those cases in which the product must be preserved and re-used. Generally, the line produces soft bags but, if necessary, it may be equipped with a partial vacuum device, enabling only one line to carry out all the operations.

It is also possible to fit Aroma System one-way degassing valves for reducing the transfer time from the storage silos since the coffee may degas inside the bag and the excess gas exits without damaging the bag.

CSV40 PAKET TIN-TIE

*tin-tie re-closing system
now available also in the twin configuration*



It also allows the packaging of freshly ground coffee and the preservation of its aroma until consumption.

This machine uses many types of glossy or mat finish heat-sealing compounds, such as paper-based laminated films: we are available for material trials and tests.

Most of the movements are servo-actuated by a Shneider electric, controlled by a PC with color touchscreen, built-in printer, USB

ports and Ethernet for data exchange and remote assistance.

The line may be supplied with a single or a double tube for increasing the operational speed from 45-50 bags per minute to 65-70.

VACUUM SERIES

The three under vacuum ICA packaging solutions for a longer product life.

VACUUMPACK

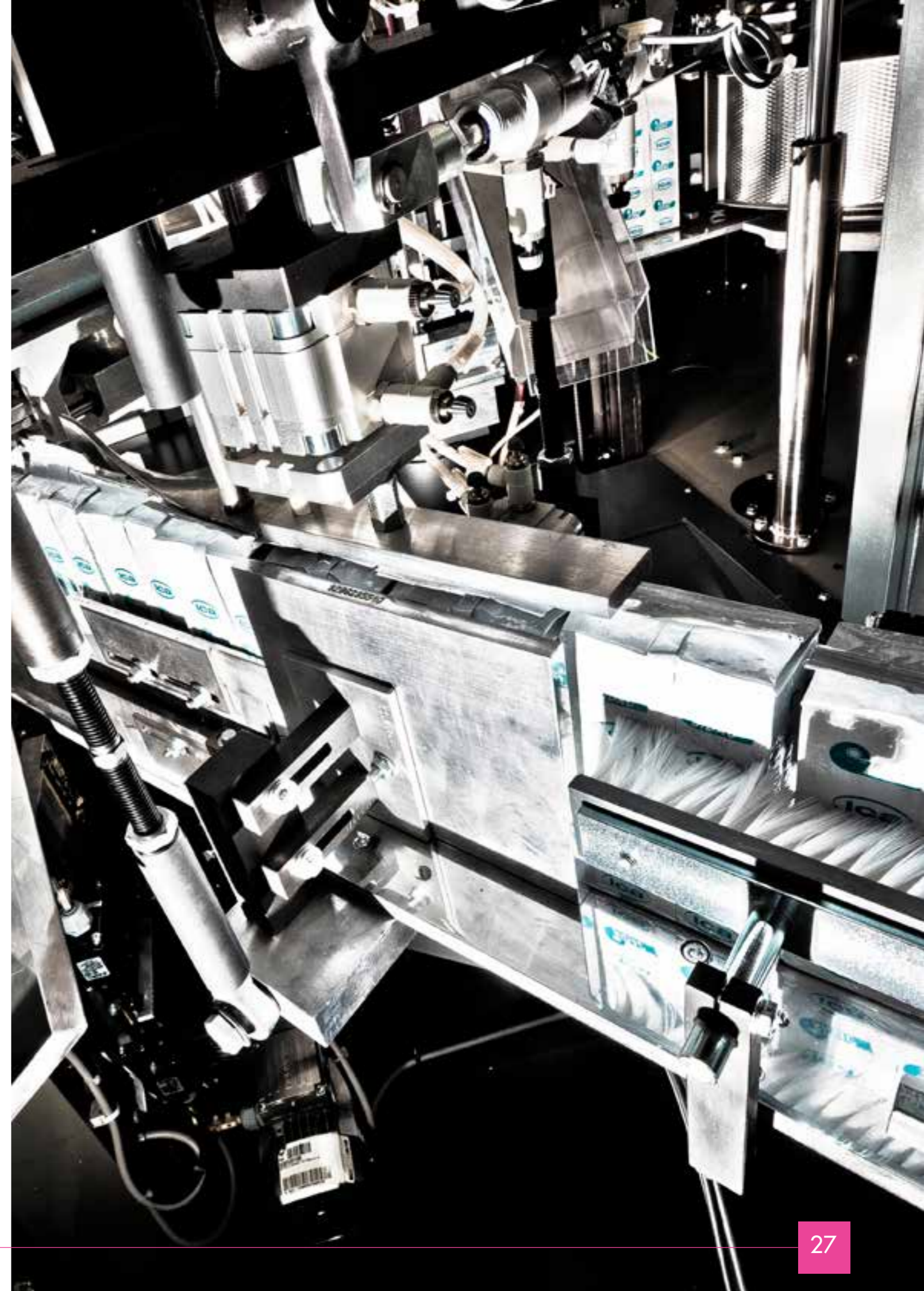
On the market for more than 30 years, this horizontal line was designed for packaging under vacuum or modified atmosphere bags containing a wide variety of products.

HIVAC 50

Compact, simple and practical line for high-vacuum packaging with reduced size changeover time.

HIVAC 90

Mandrel-type line for high-speed under vacuum packaging.



VACUUMPACK



45 bags/minute for 250 grs of coffee

VACUUMPACK



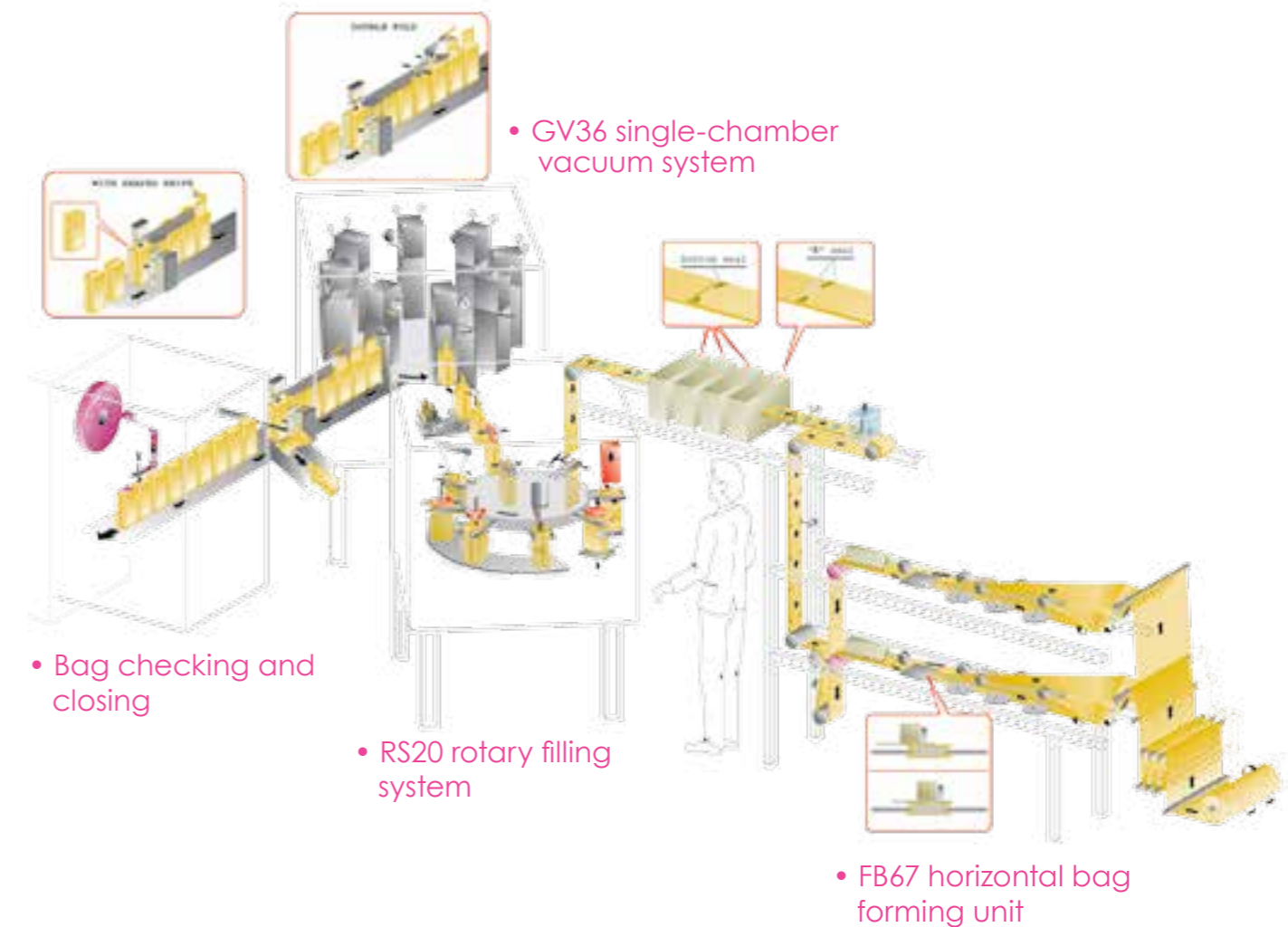
VACUUMPACK® is a reel-fed modular line for packaging a wide variety of products under vacuum or in modified atmosphere with gas flushing, at an operational speed of 40-45 ppm.

A truly multi-size machine, ideal for making hard or soft packet shape bags, with or without Aroma System degassing valve. Its unique bag forming unit guarantees perfect tightness without any leaks: an excellent solution for packaging products that require

a high degree of protection like coffee, yeast or baby food, without decreasing the high quality of the bag's presentation.

Like all ICA machines, the bag top may be treated in various ways: simple or double fold, "half moon" profile for easy opening, reclosing adhesive tape or labels, tin-tie and Aroma System degassing valve.

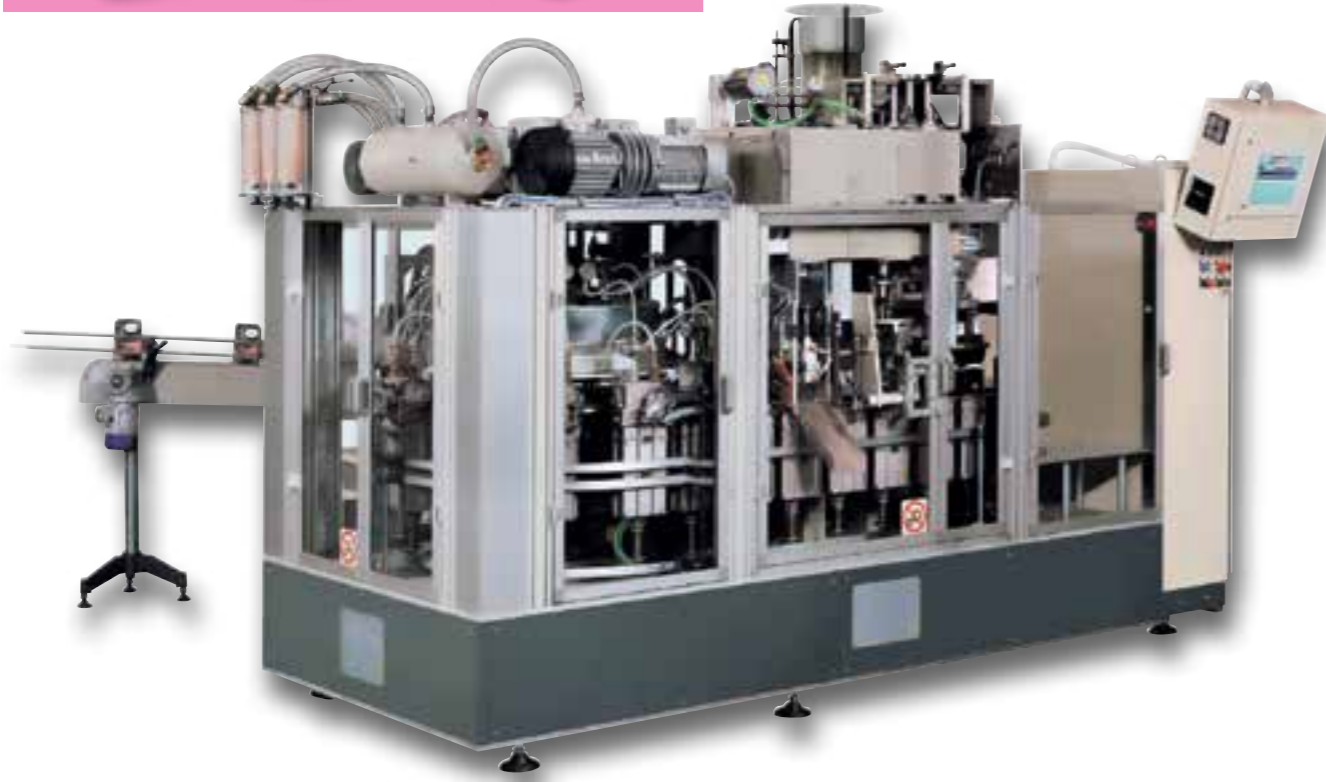
The packaging machine can be synchronised with the most modern filling systems and controlled by an advanced electronic system and PLC.





IDEAL FOR COFFEE AND GRANULAR PRODUCTS

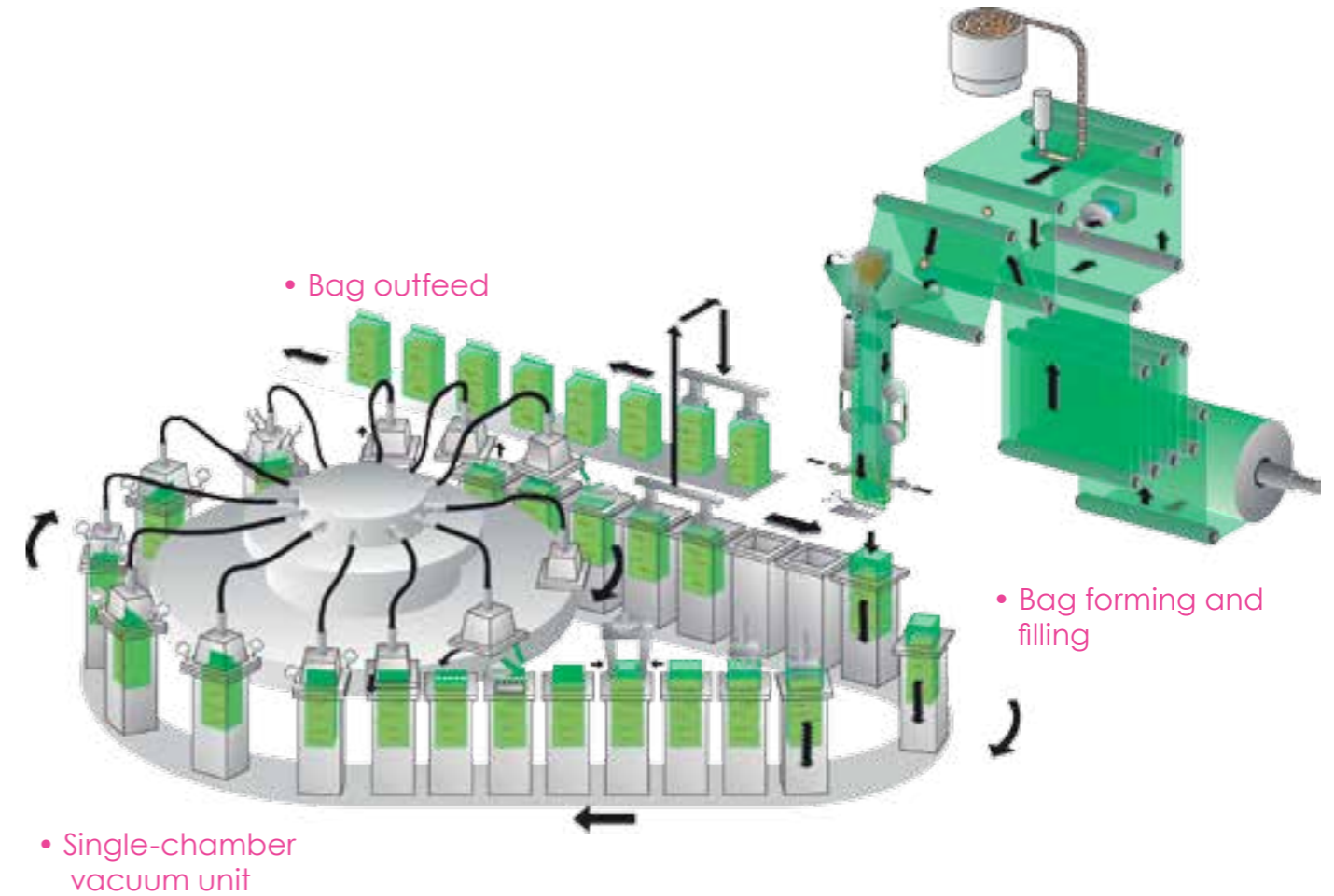
40 bags/minute depending on the weight and the type of product



HIVAC50, line for under vacuum/modified atmosphere packaging, born from ICA's great experience in this field. This line combines the most modern electronics with the well-known, tested and patented "vacuum" system typical of our bigger mandrel packaging machines.

Excellent bags aesthetics, easy and quick size changeover, several possibilities of bag top treatment, possibility of fitting the

degassing valve and other optional fittings are the main features of the HIVAC50. Together with its particularly reduced overall dimensions and its very good packaging output (45 bags per minute for 250 grs of ground coffee and 35 bags per minute for 1000 grs of coffee beans), this machine is an interesting investment for its very good quality/price/performance ratio.

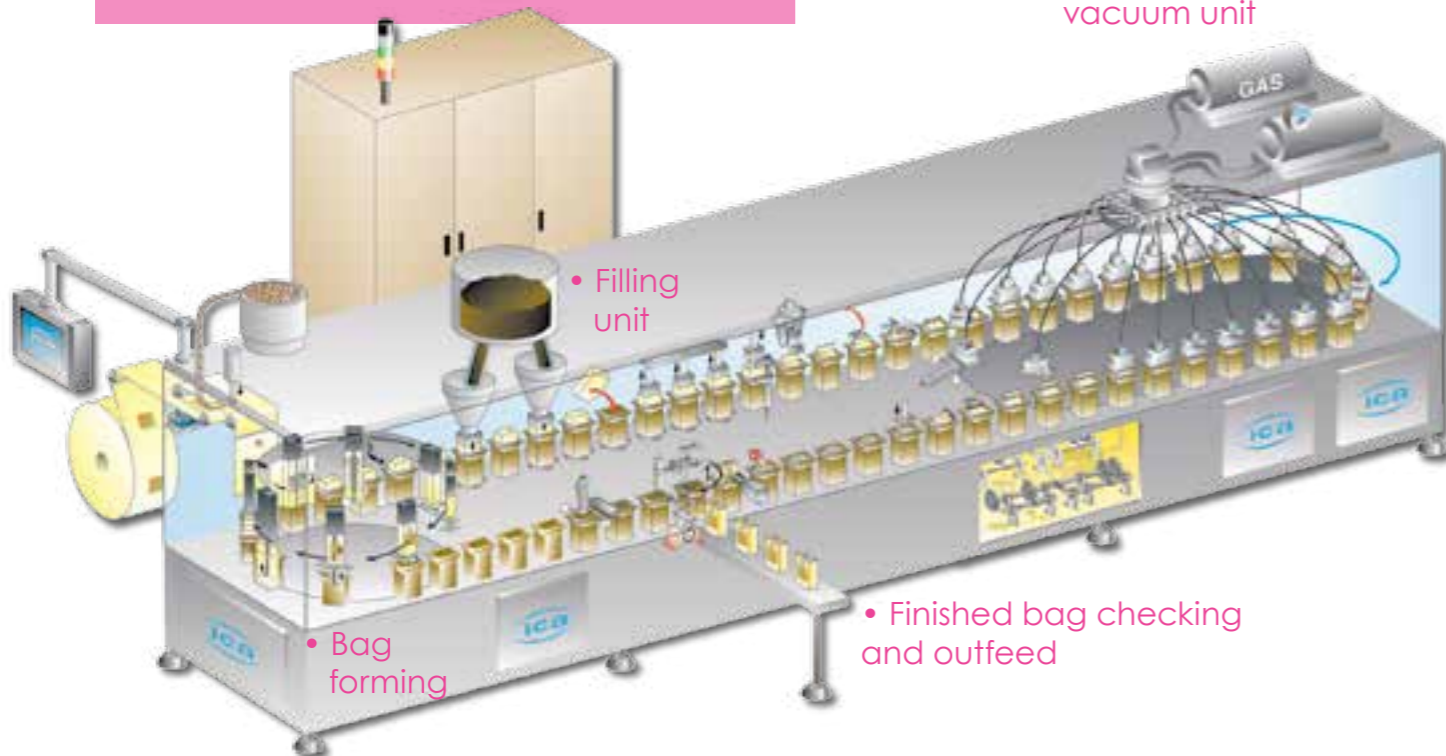


UP TO 1 KG OF COFFEE BEANS



80 bags/minute for 250 grs of coffee

- Single-chamber vacuum unit



• Filling unit

• Bag forming

• Finished bag checking and outfeed

HIVAC90 is a high speed line for under vacuum packaging belonging to the family of vertical mandrel automatic machines.

It makes paket shape or gable top bags with a high degree of vacuum or in modified atmosphere with gas flushing, in order to guarantee always the best preservation of the product from oxygen, light and moisture.

A wide variety of possibilities for the bag top treatment are available: simple or double fold, "half moon" profile for easy opening, reclosing adhesive tape or labels and tinfoil. Upon request the machine may fit the Aroma System one-way degassing valve.

This compact packaging line, which integrates perfectly sturdy mechanics with the most advanced electronic motion technology, reaches normally an operational speed of 80 ppm.



Since 1988 AROMA SYSTEM S.r.l. manufactures one-way degassing valves capable of restoring the correct pressure inside sealed flexible bags, when the product packed is recently roasted coffee.

The valve may be fitted by means of specific devices in any ICA line, on bags containing coffee beans – mod. ASV10 – and ground coffee – mod. ASF15 and mod. ASTC. The thickness of the ASTC valve is what makes it different from the ASV10-ASF15 valves and enables to use it also with other fitting devices. The significant feature of all these valves is that they operate one-way and therefore when the pressure inside the bag, containing recently roasted coffee, becomes excessive the valve allows the gas to exit but inhibits the air from entering inside the bag.

There are three different systems:

AV57:

for lines already installed and without the pre-arrangement for the installation of the Aromasystem valve fitting device

AV67:

for lines already installed, but pre-arranged for the installation of the Aromasystem valve fitting device

AVM:

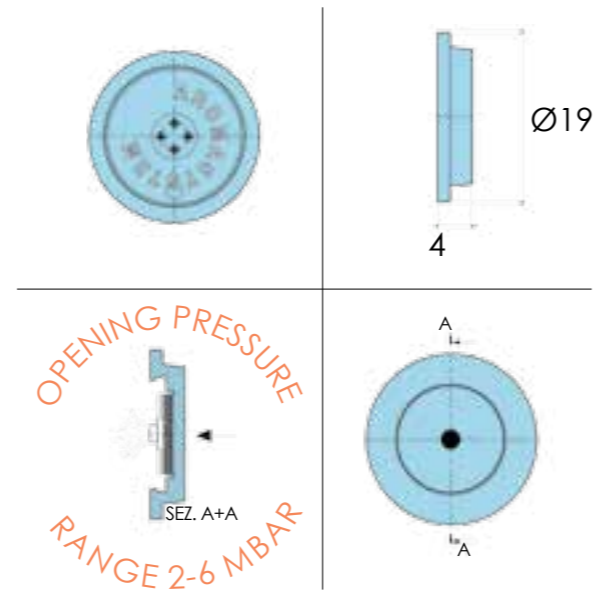
for the manual fitting of valves on pre-made bags.

In the AV57 and AV67 systems the valves are heat-sealed automatically

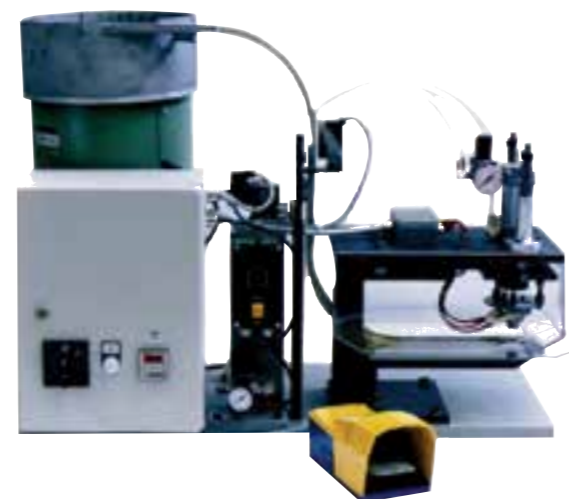
In the AVM system the person who operates the system must place the open bag by hand exactly where the valve has to be sealed, the switch is pressed by feet and the valve is heat-sealed automatically on the film with the proper preset pressure, temperature and time.

The operational speed of the application depends of the operator's ability.

Valve fitting devices may be installed and set up on every ICA line, plus the valve feeding system may be controlled directly by your packaging line.



AV67



AVM

CERTIFICATION

AROMA SYSTEM has reorganized and renovated its plants according to the safety hygienic-sanitary regulations described in ISO 22000, in pursuit of the following requirements:

- planning a self-controlled HACCP system
- planning a product traceability system
- controlling the ISO 9001 and 22000-related non-conformities
- improving the food safety management system
- monitoring the hygienic-sanitary conditions and bacteriological measurement performed both in the environment and on the product
- planning an internal and external auditing system
- implementing a QA system capable of verifying, by means of an optical scanner, that the product features coincide with the ones mentioned on the Technical Sheet.

AROMA SYSTEM S.r.l. has confirmed and expanded the certification ISO 9001:2000 of its Quality Management System and ISO 22000 of the Food Safety management system.



FOR BAGS &
PRODUCT
ALWAYS
IN A
PERFECT
SHAPE

AROMAPACK SERIES

Modular packaging line comprising horizontal bag forming unit and a bag filling and closing carousel.

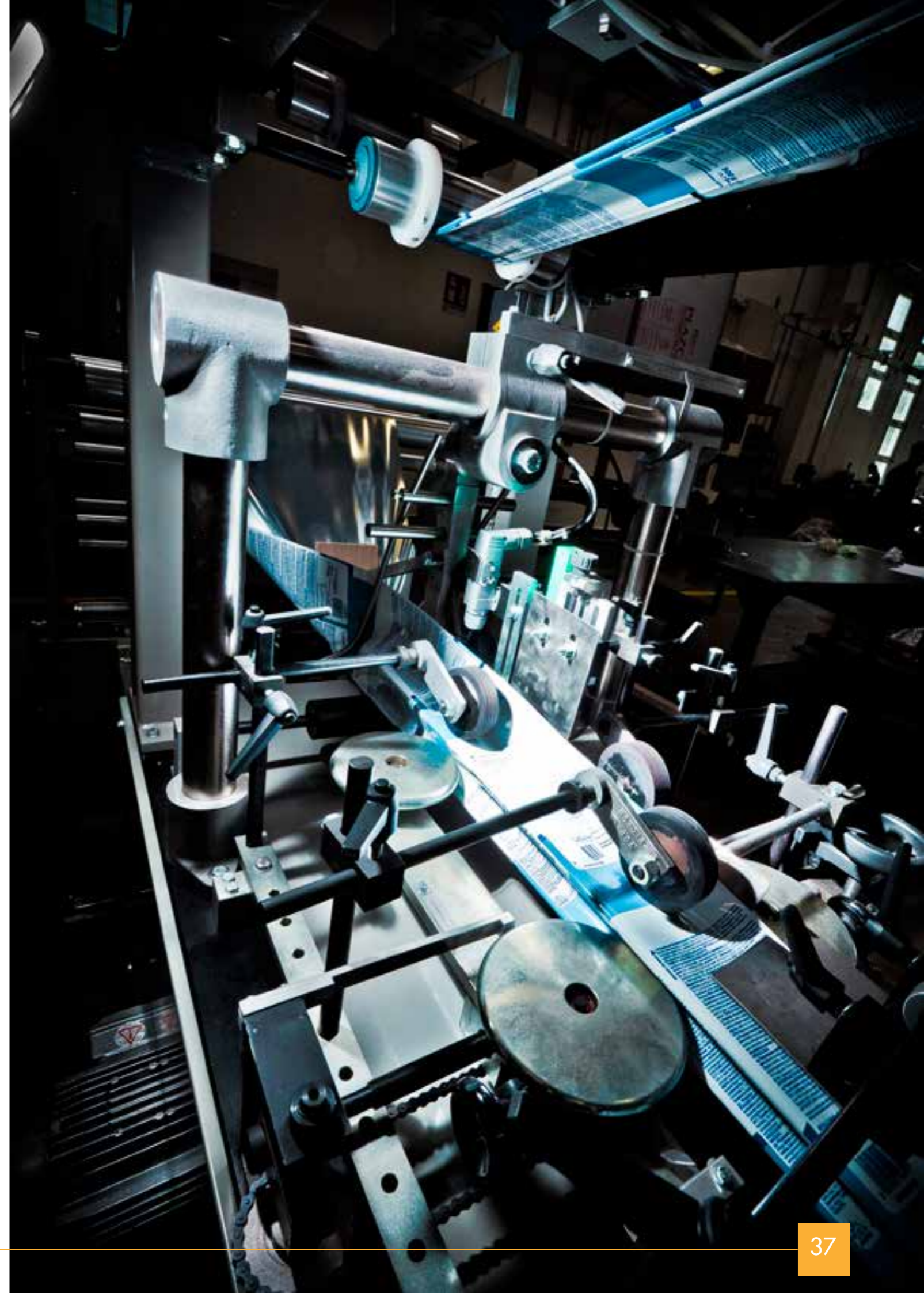
Ideal for products that do not flow freely and require a significant settling and for fragile products, like all kinds of cookies packed in the typical «Italian style» gable top bag.

AROMAPACK RS20

AROMAPACK PAPER

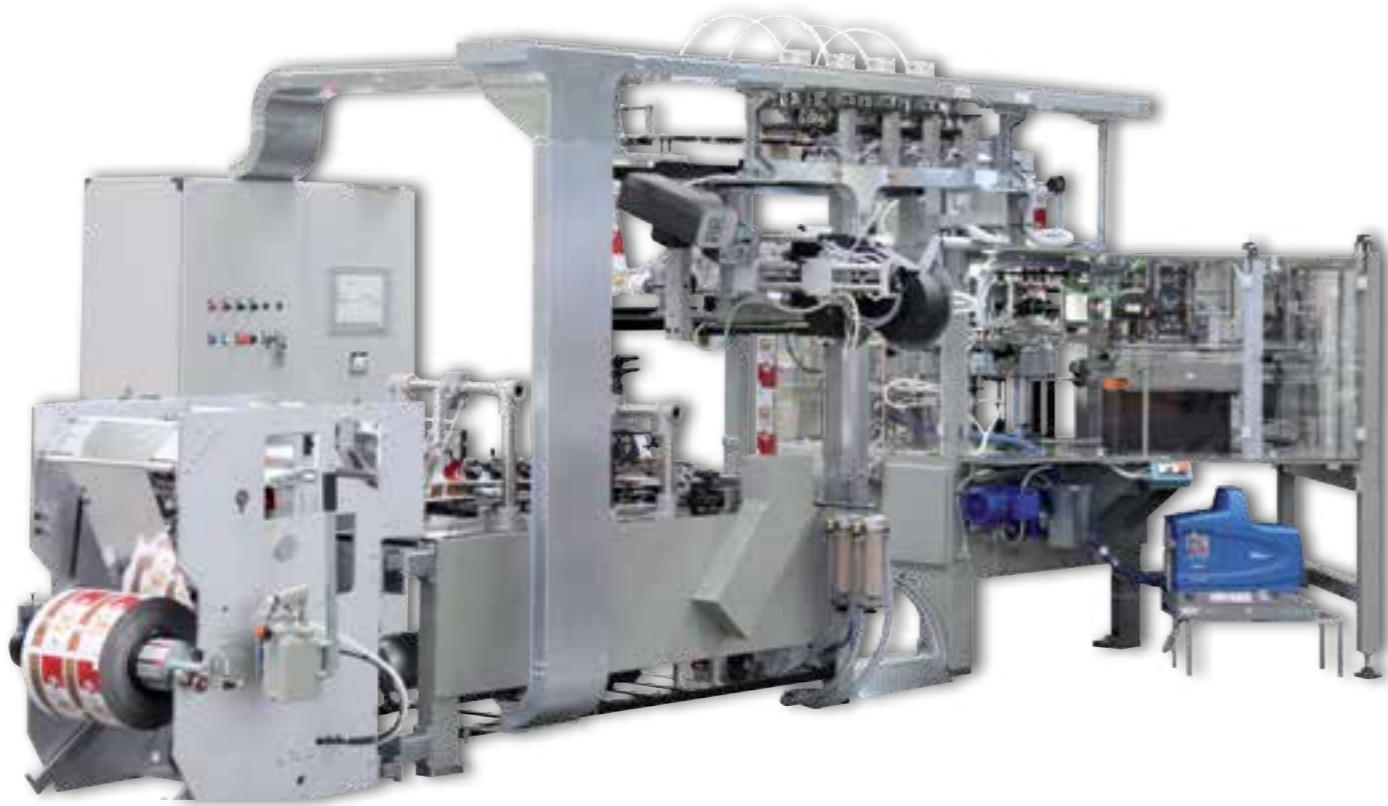
AROMAPACK RS20 10 STATION

AROMAPACK RS20/60



AROMAPACK RS20

50 bags per minute with
1000 g of sugar



AROMAPACK® is a reel-fed modular packaging machine, which integrate a horizontal bag forming unit and a rotating filling and closing unit. It makes perfectly squared high quality bags at an operational speed of 50-60 ppm.

Starting from a film reel, it makes perfectly stable packet shape or gable top bags, with the option of marking the edges for enhancing the bag's presentation.

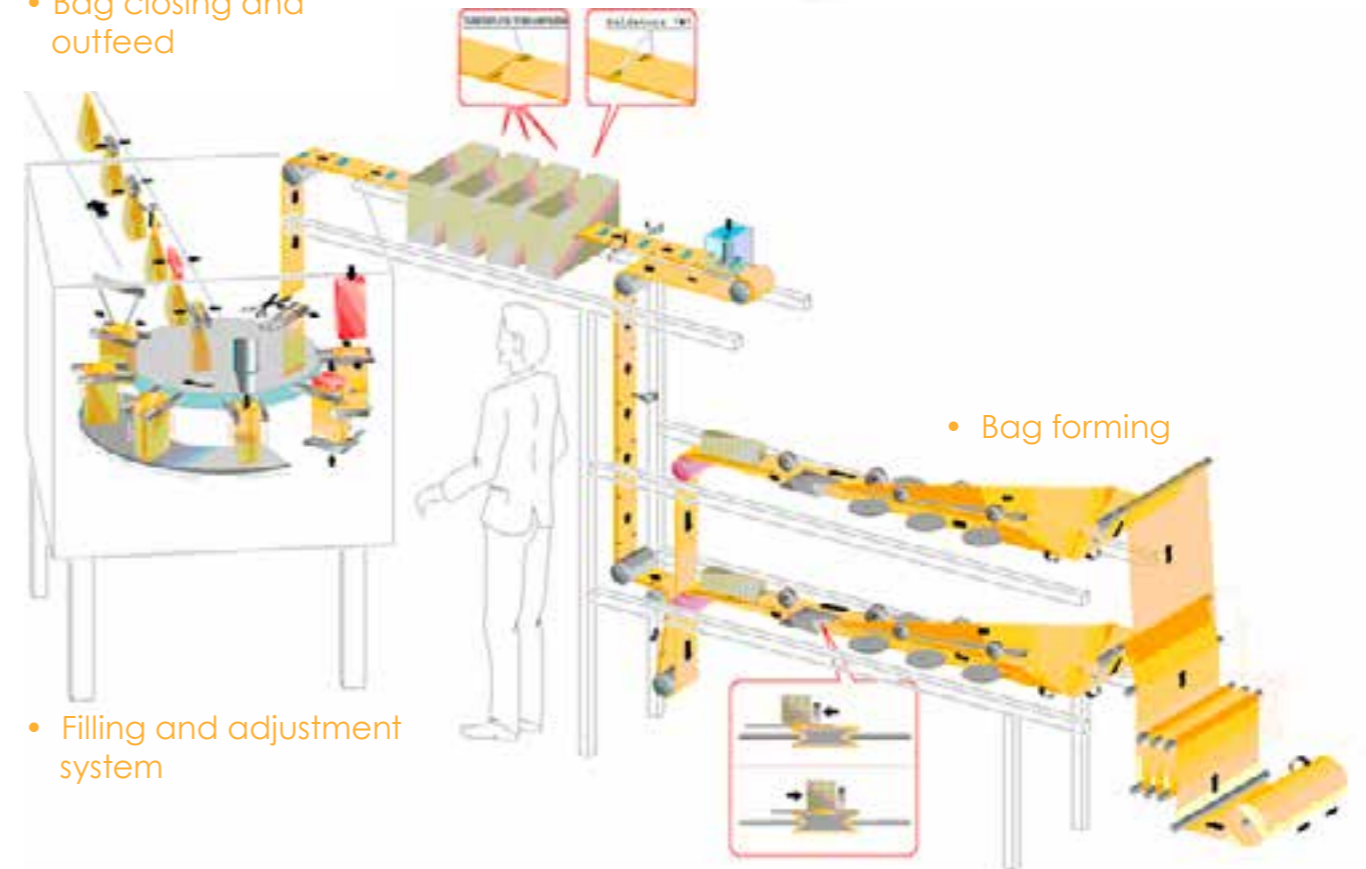
It packages all kinds of powders and granular products and it was designed expressly for those fragile products that need a special care.

RELIABILITY, FLEXIBILITY
AND PRODUCTIVITY

AROMAPACK RS20



• Bag closing and
outfeed



• Filling and adjustment
system

• Bag forming

AROMAPACK® CLASSIC

8 STATIONS:

Ideal for films that are not easily machineable or highly dusty products, requiring air tight sealing. Perfect aesthetic results and long lasting productivity.

AROMAPACK PAPER



50 bags per minute,
depending on the weight
and the type of product

INNOVATIVE
ONE-OF-A-KIND
SOLUTION: THE
SAME MACHINE
CAN WORK WITH
BOTH KRAFT PAPER
AND HEAT-SEALING
MATERIAL!



AROMAPACK® PAPER offers a unique and effective solution: with innovative solutions, starting from a reel of kraft paper and plastic material, it makes bags with the bottom fixed with hot-melt glue.

Easy size changeover, quad-seal bag system, tin-tie application.

THE EVOLUTION OF KRAFT PAPER!

AROMAPACK PAPER



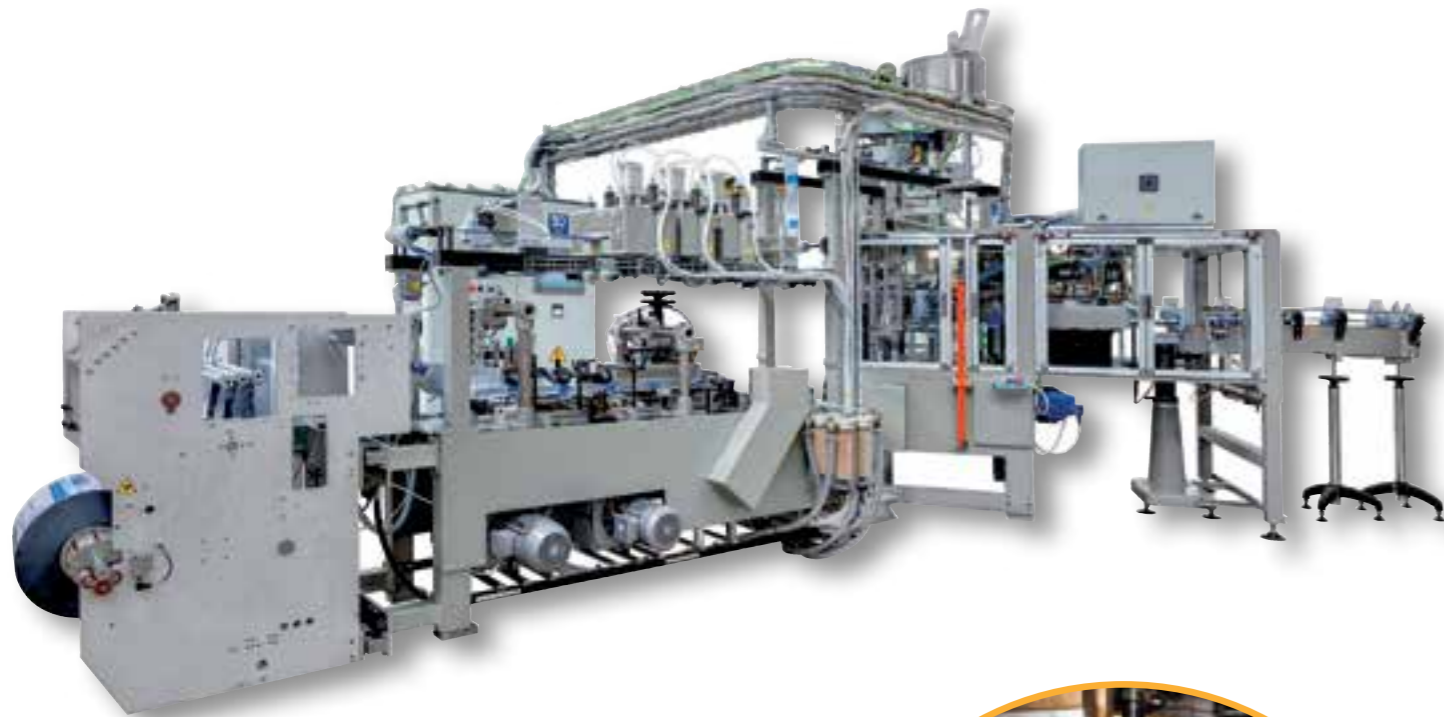
**UNIQUE SYSTEM FOR APPLYING A HEAT-SEAL COATING:
WITH ICA KRAFT PAPER EVOLVES AND BECOMES HEAT-SEALING**



AROMAPACK RS20 10 STATION



50 bags per minute with
1000g of flour



Line developed especially for difficult pow-
dery products.

Thanks to the additional vibrating stations,
product settling is optimized and ensures
impeccable packaging also of difficult prod-
ucts such as flour.

Available also in paper version.



AROMAPACK RS20 10 STATION



AROMAPACK RS20/60



60 bags per minute with
400g of shortbread
cookies



AROMAPACK® RS20/60

8 STATIONS:

Perfect balance between mechanics and delicacy: a constant reference point for all fragile oven-baked products. The baked product slides from one belt to the next inside a formed bag. High output.



AROMAPACK RS20/60



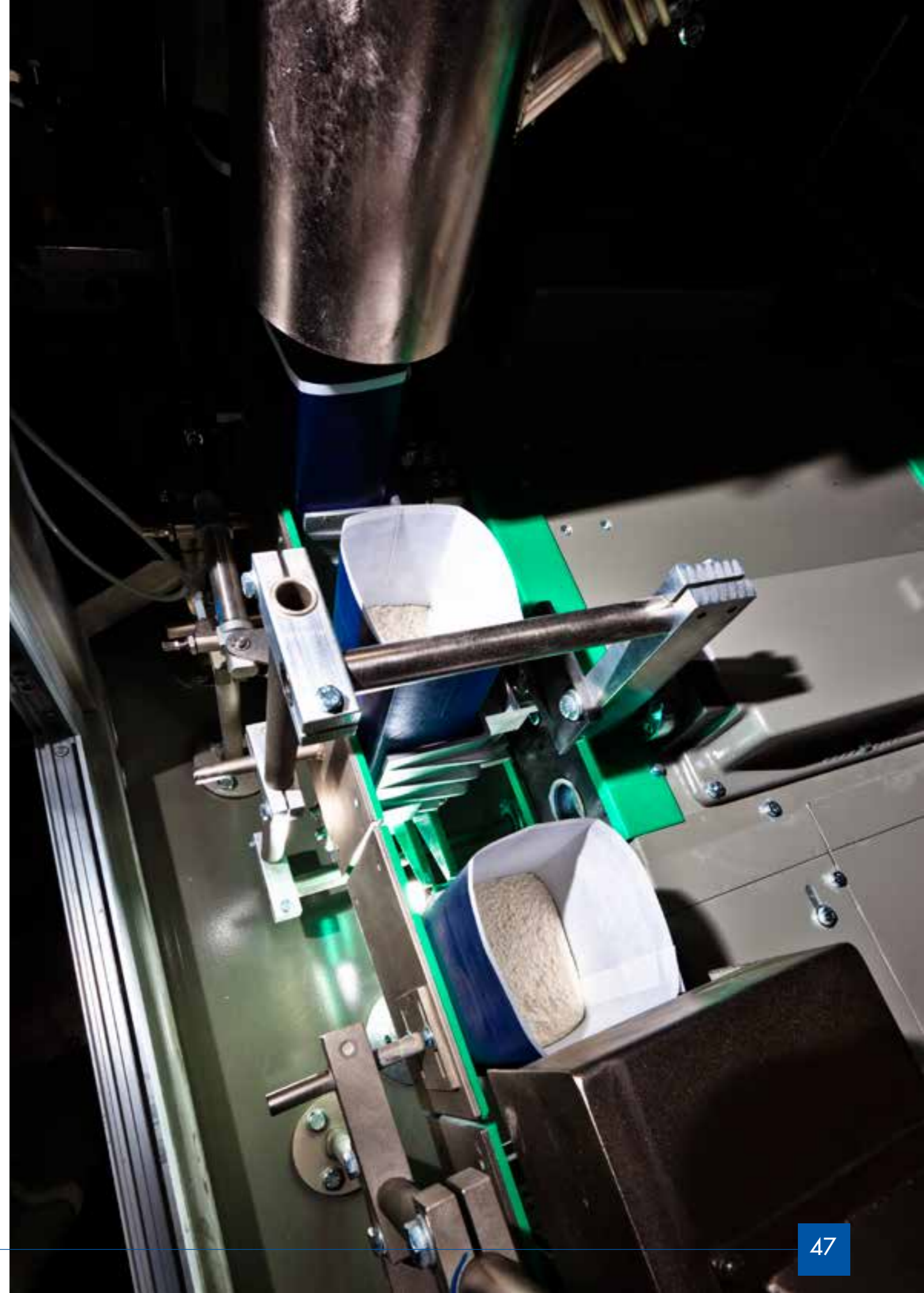
HF SERIES

One-size mandrel-type line, starting from a reel of kraft paper, ideal for high-speed packaging.

HF100 C/G for easy flowing granular products

HF00 C/P for fine and/or powdery products

HF120 maximum speed solution



HF100 C/G



100 bags/minute for 1000 grs of sugar



The **HF100 C** line, starting from a reel of kraft paper, makes well squared sugar or flour bags, using kraft paper of reduced thickness, as low as 75/80 grs/mq: among the lowest in this industry.

The basic concept of this line, worldwide patented, is simple and innovative: bag formation on vertical mandrels and conveyance to the coaxial turntable with precise and safe mechanical movements.

HF100 C/P



90 bags/minute for 1000 grs of flour



With the latest mechanical and electronical upgrades the HF100C has reached the highest level of reliability.

The final result is a more functional and faster packaging machine: one of the best solutions available on the market, both in terms of quality/price and efficiency/production capacity.

COMPATIBLE WITH MOST OF THE REELS AVAILABLE ON THE MARKET



The new **HF120** is an innovative mandrel-type model designed to satisfy the demand for even higher outputs: 110 bags/minute for free flowing products, such as sugar, and 100 bags/minute for powders like flour.

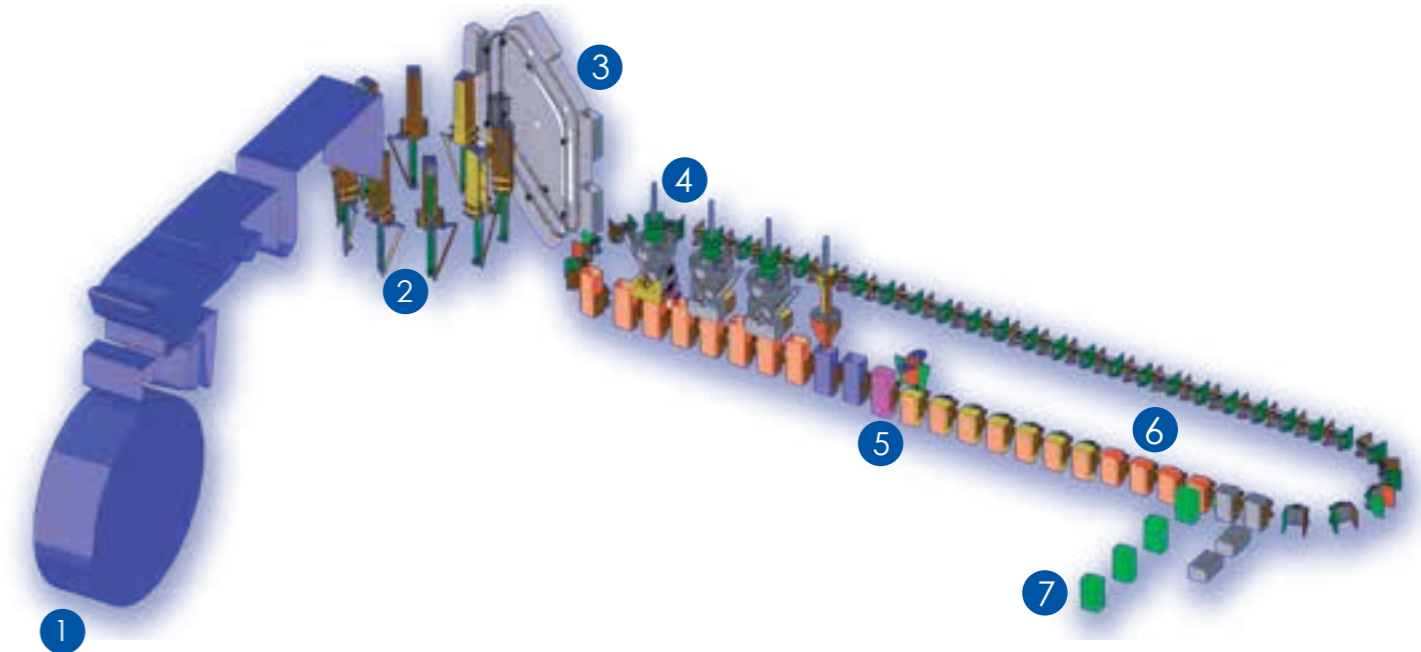
This new machine integrates the latest technical solutions available in the industry and introduces on the market an excellent, competitive alternative to other European suppliers.

100 bags/minute for 1000 grs of flour

110 bags/minute for 1000 grs of sugar



KRAFT PAPER PACKAGING



OPERATING DIAGRAM:

1. Reel-holder;
2. Vertical mandrel carousel;
3. Unit for extracting the bag from the mandrel, upturning and introducing it into the chain;
4. Dosing unit;
5. Bag top treatment unit;
6. Built-in check weigher;
7. Finished bag outfeed



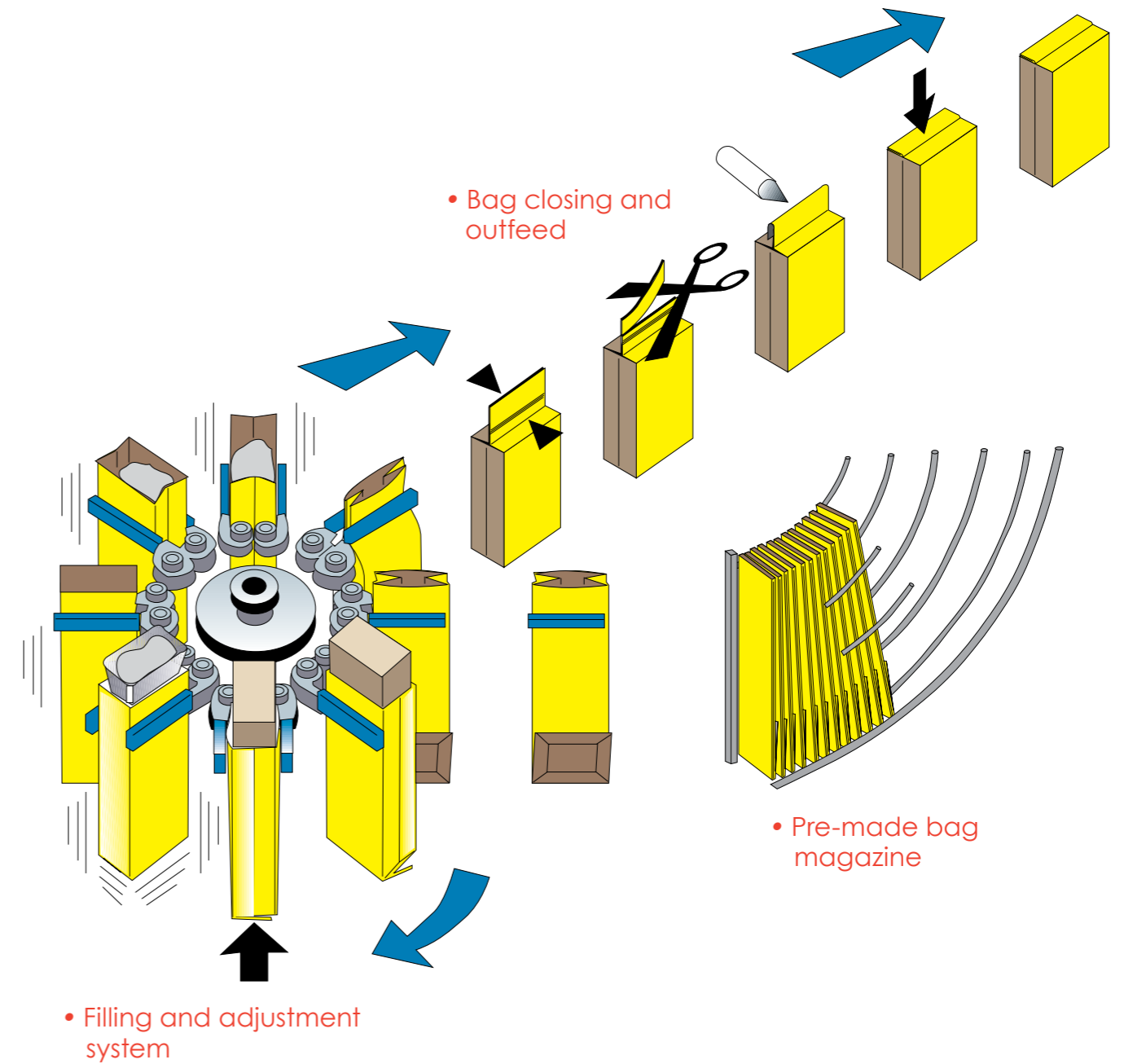
FLOURPACK



42 bags/min. for 1.000 grs of flour

50 bags/min. for 1.000 grs of sugar

FROM PREMADE BAGS



FLOURPACK®/SUGARPACK® is an automatic packaging machine starting from paper or paper-based pre-made bags. It fills and closes paket shape bags: 42-50 ppm for 1.000 grs of flour, sugar or similar products.

Very economic and efficient line, ideal for making high quality bags at a very good quality/price relation. Easy size change-over!



PRONTO COFFEE SERIES

Single-use packaging solutions, using heat-sealing filter paper reels:

- soft pads for American coffee
- hard pods for Espresso coffee

- Versions:
- PC400 + CSV160 for packaging 150 pods/minute
 - PC400 + 2 CSV160 for packaging 300 pods/minute
 - PC400 + CSV300 for packaging 250 pods/minute
 - PC400 + CSV40NTS for packaging 420 pods/minute

SINGLE-USE POD PACKAGING IN PILLOW-SHAPED BAGS WITH CSV160 OR CSV300



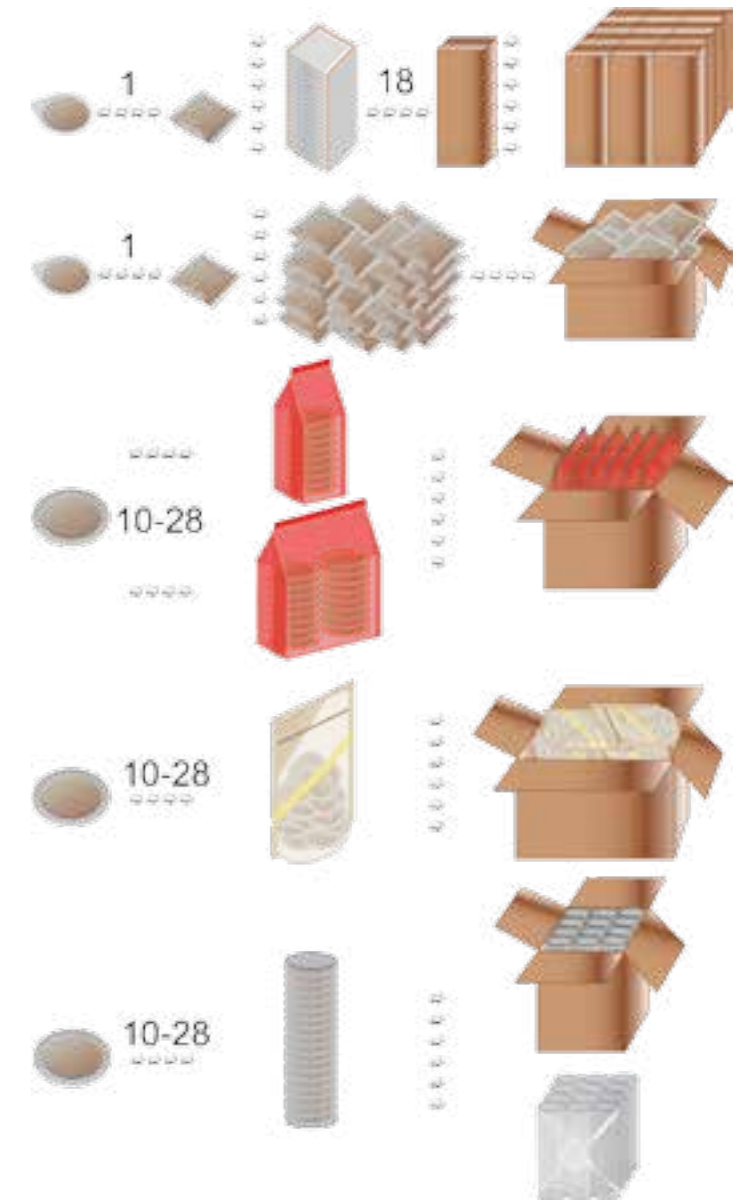
MULTIPLE POD PACKAGING IN 4-SEALED EDGES BAGS WITH CSV40NTS



UP TO 420 COFFEE PODS PER MINUTE



CUSTOMIZED FINAL PACKAGING



Pad/pod making machine for producing soft/hard round pads/pods, starting from two reels of filter paper.

Extremely compact and high-performance machine, with a patented intermittent drum. Possibility of size changeover or production of pods of various shapes. Fully servo-driven movements and controlled by advanced technology.



PRONTOWASH

360 bags for minute



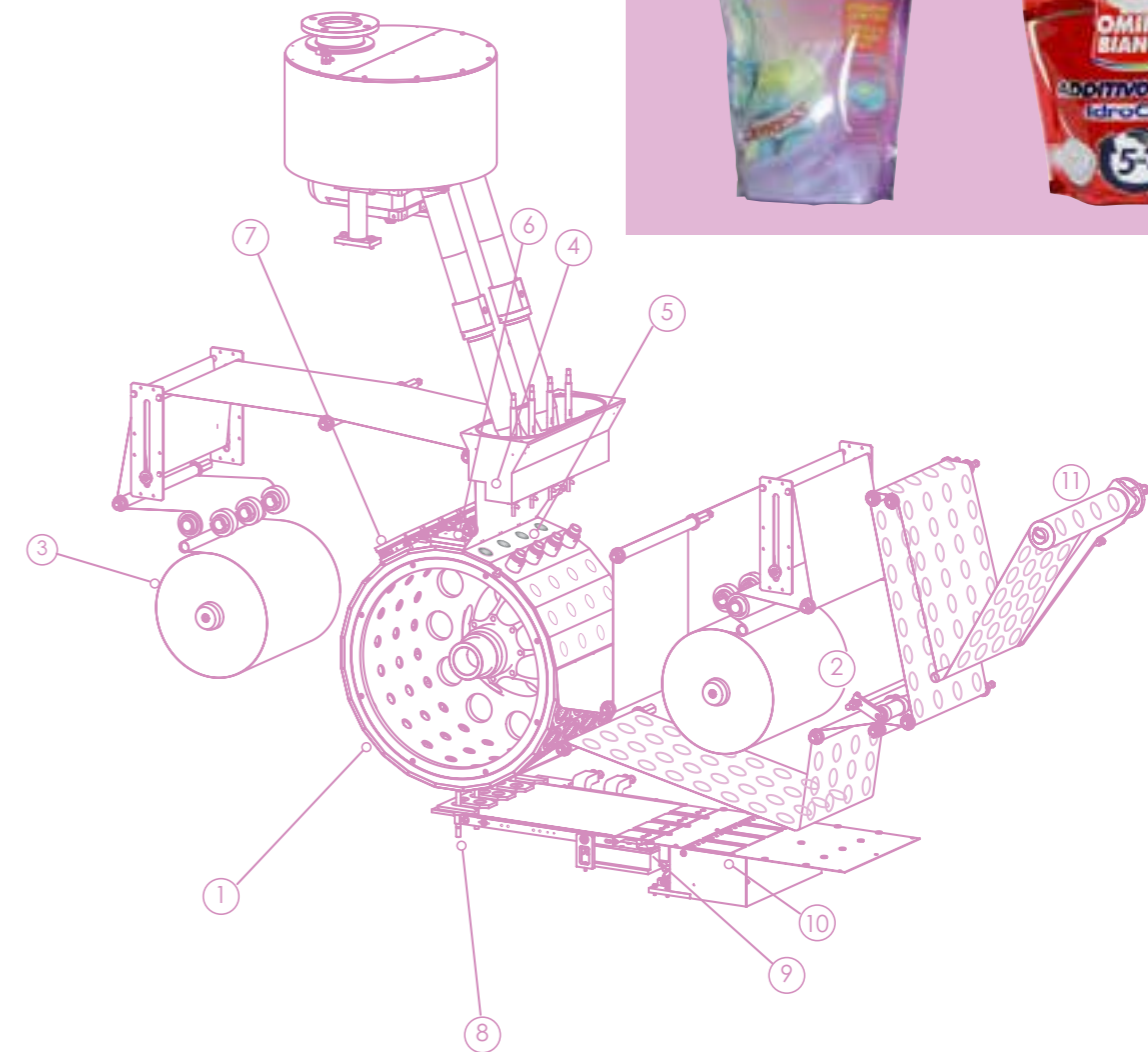
TODAY'S CONSUMER IS CAPTURED BY ITS CLEANING PROPERTIES AND **EASINESS** TO USE



PRONTOWASH



NEW PACKAGING POSSIBILITY



PRONTOWASH® is an automatic multilane horizontal-axis drum line designed for shaping detergent tablets by pressing the powder between water soluble film sheets.

It is ideal for the single-dose packaging of those products that are used dissolved in water and whose handling is dangerous for the end user, if they are used loose or packed in non-water soluble materials.

OPERATIONAL DIAGRAM:

- | | | | |
|----|----------------------------|-----|------------------------------------|
| 1. | horizontal axis drum | 7. | cutting |
| 2. | lower film reel | 8. | dose removal from drum |
| 3. | upper film reel | 9. | check-weigher with trend feed-back |
| 4. | product dosing/compressing | 10. | non compliant capsule container |
| 5. | drum cleaning | 11. | off-cuts reel |
| 6. | sealing | | |

AROMACUP SERIES

Our experience in the coffee sector expresses itself in a new solid, resistant and practical solution, in line with modern lifestyle: the capsule. The solution for coffee, tea and infusions, rich in aroma and well balanced. This is the single-serving capable, more than any other, of optimizing the extraction process: from the traditional moka to the espresso.

AromaCup® presents an original, modular and compact design for producing capsules in protected atmosphere. The innovation we offer regards material consumption, both in terms of filter paper and of the final packaging. From the roasting to the espresso the quality and the aroma are preserved and protected in order to have always the best cup of coffee.

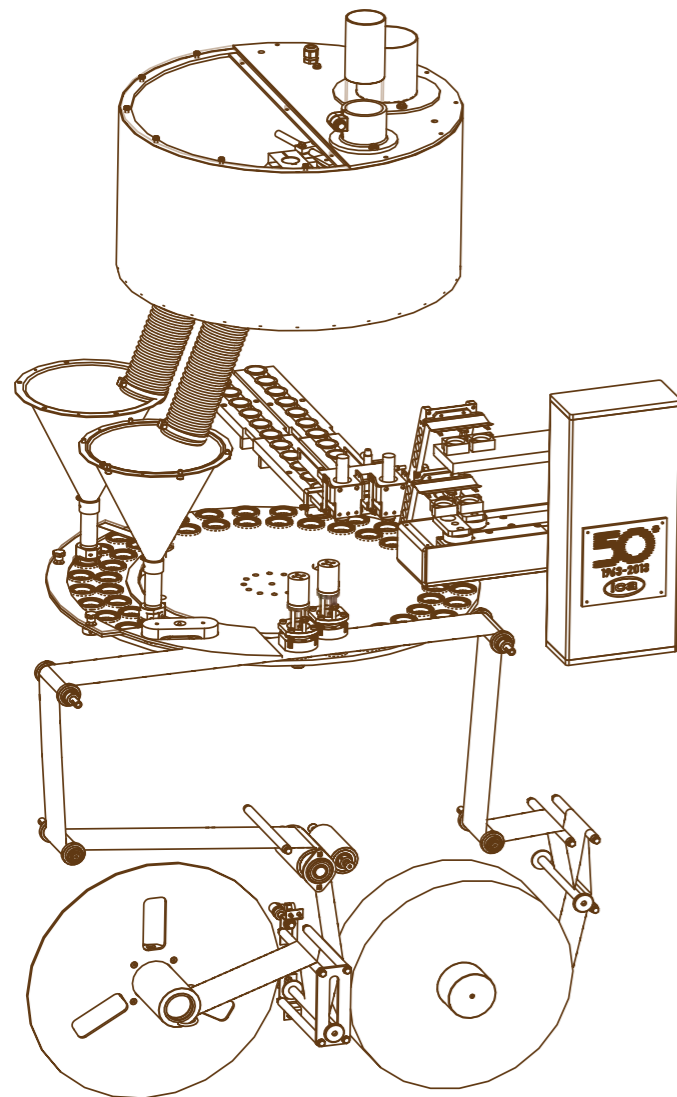
RC100	+NTS
RC300	+CSV300
RC600	+ CASE
TRC600	+ CSV40 PAKET TIN-TIE
TRC600D	



RC100

UP TO **120** caps per minute

2 VERSION LANES



OPERATING PROCESS:

- Product feed hopper;
- Caps feed unit ;
- Caps introduction unit;
- Filling unit (independent, one per lane);
- Cleaning suction unit;
- Gas-flushing unit;
- Caps closing unit;
- Checkweighers with feed-back;
- Caps extraction unit;
- Closing film reel;
- Film closing trimming recovery reel

REDUCED CLOSING FILM TRIMMING

VERTICAL-AXIS TWO-LANE CARROUSEL MACHINE

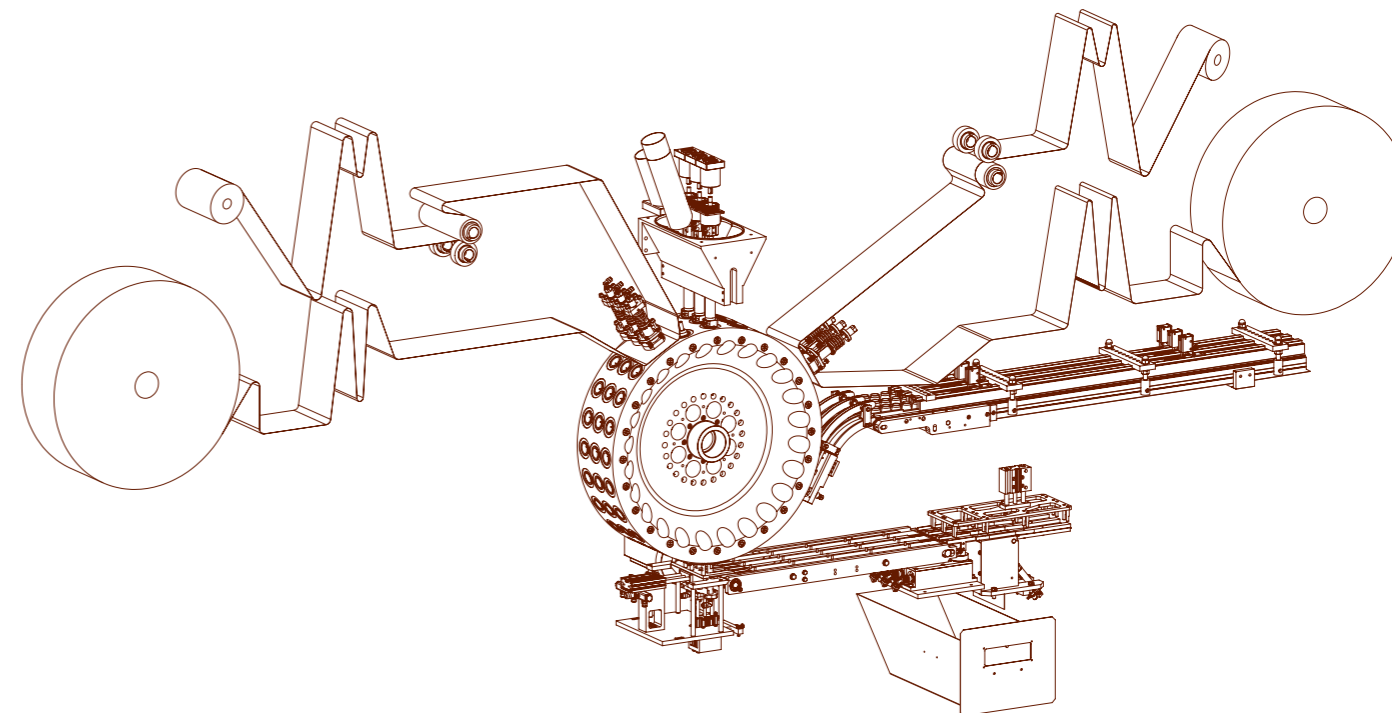
Line characterized by a compact structure, easy to use, for filling various kinds of caps. It may pack caps both inside individual pillow-shape bags and bags with sealed edges.

IDEAL OF VARIOUS TYPES OF CAPS

3 VERSION LANES

OPERATING PROCESS:

- Caps feed unit;
- Capsule introduction inside drum unit;
- Unit caps bottom filter cutting/sealing;
- Unit product dosing/compressing inside caps;
- Unit drum aspiration cleaning;
- Unit cutting/sealing caps upper closing film;
- Caps print centering /closing photocell;



RC300

UP TO **280** caps per minute

- Caps extraction caps from the drum;
- Check of the extraction caps from the drum;
- Unit check-weigher with feedback;
- Unit capsule packaging lines conveyor;
- Unit waste recovery reel;

- Structure: monoblock frame in compound steel;
- Operational movements: assistance and controlling servo-pneumatic mechanical movements;
- Parts in contact with product: In stainless steel or treated with Niploy process;

- conditioned electrical panel built-in the machine structure;
- Operator panel inserted in mobile console for setting/adjustment machine control parameters.

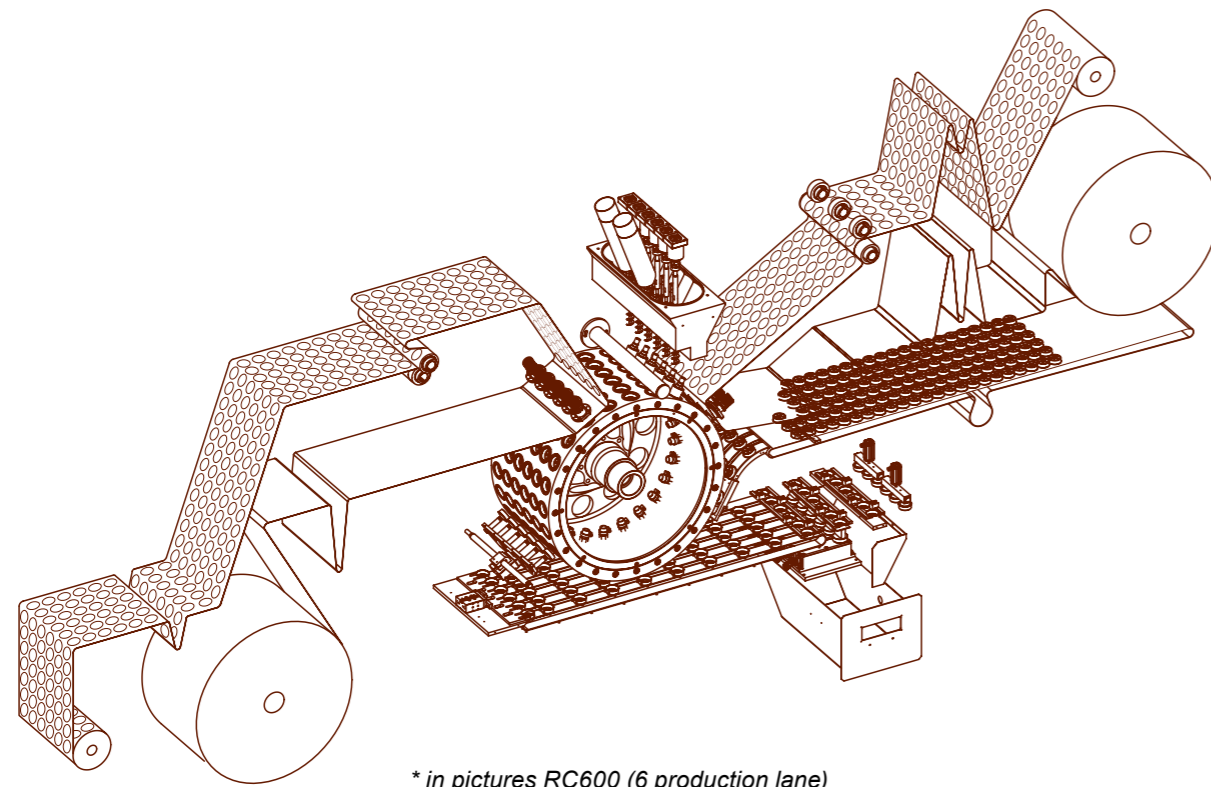
RC600

6 VERSION LANES

UP TO **400** caps per minute

OPERATIONAL PROCESS:

- Empty capsules bowl-feed;
- Capsule introduction inside drum;
- Bottom filter cutting/sealing;
- Product dosing/compressing;
- Cleaning;
- Upper filter cutting/sealing;
- Capsule removal/rotation;
- Check weigher with trend feed-back;
- Capsule packaging lines conveyor

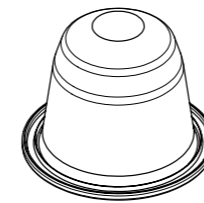
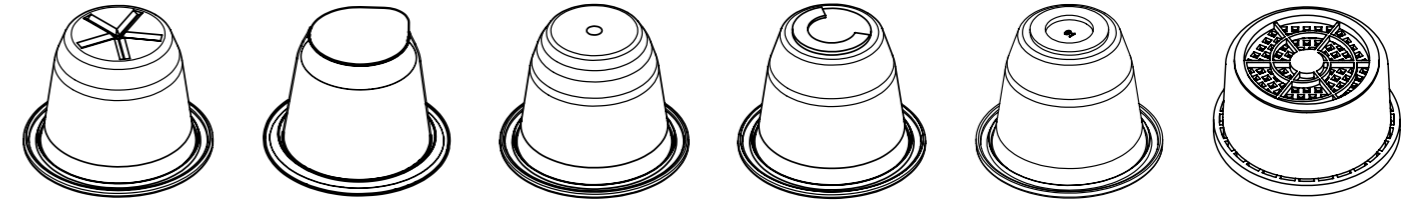


* in pictures RC600 (6 production lane)

OPERATING FEATURES:

- exchangeable molds for adapting to different kinds of capsules;
- high-precision filling guaranteed by a trend feed-back check weigher;
- high output on multi production lanes;
- simple and safe maintenance due to very accessible and removable units;
- low consumption of filter paper due to reduced center-to-centre and servo-controlled dragging devices;
- final package under vacuum or modified atmosphere.

COMPATIBLE CAPS

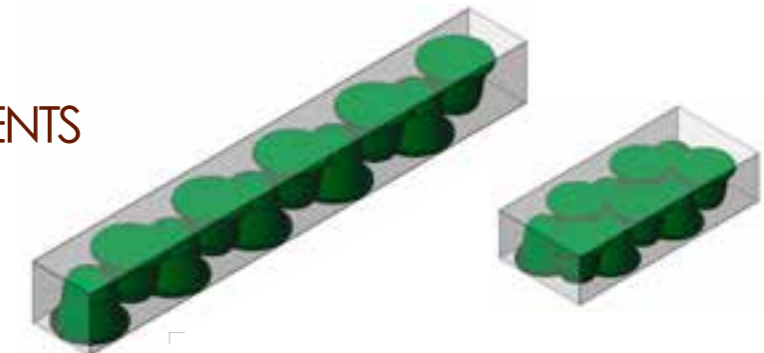


100% COMPOSTABLE CAPSULES
CERTIFIED BY VINCOTTE®

IT IS POSSIBLE **CUSTOMIZE** THE FINAL PACKAGING



CASES WITH **DIFFERENT** POSSIBLE ARRANGEMENTS



TRC 600

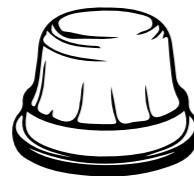
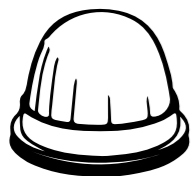
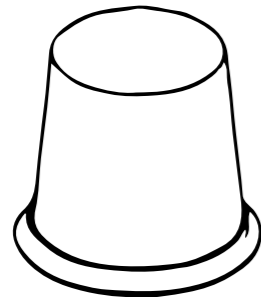
UP TO **300** caps per minute

COMPATIBLE
WITH THE MOST
COMMON SINGLE-
USE SYSTEMS IN
NORTH AMERICA



Six-lane drum machine for filling and closing caps with a wide range of final packaging solutions.

IDEAL FOR HOT BEVERAGE SINGLE-USE CAPS
(coffee, tea, herbal teas, chocolate, etc.)



TRC 600D
HARD OR SOFT
CAPS

Innovative caps under vacuum for reducing the oxygen level and improving product life.



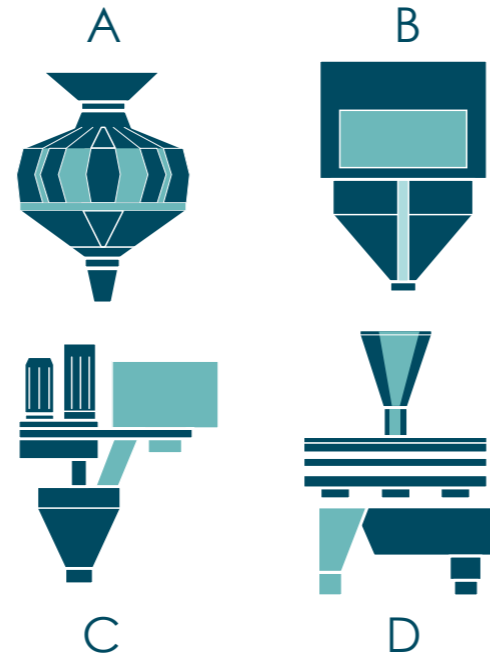
STANDPACK SP60-120



MULTIPLE FILLING SYSTEM

- (A) weighing system ASSO
- (B) linear weighing system PV
- (C) volumetric auger filler EM64BS
- (D) telescopic cup-type filler TR

120 bags per minute,
depending on the weight
and the type of product



STANDPACK-SP60, forming and filling machine for stand up bags, using reel-fed material and/or pre-made bag for the packaging of all kinds of powdery or granular product, in normal or modified atmosphere. SP60 is the standard version with a single-pouch working cycle.

Featuring the same technical solutions of the standard version, **SP120** comes with a twin pouch working cycle: double output up to 120-140 bags/minute.

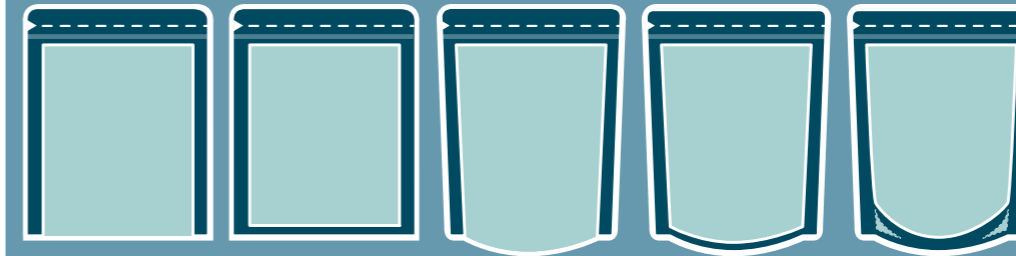
Limited overall dimensions, with the exception of the premade bag feeder.

Ideal for maximizing the output and reducing the packaging costs.

STANDPACK SP60-120

FORMING AND FILLING MACHINE FOR STAND UP BAGS

TYPE OF BAG:



- (A) Pouch (B) Bottom-sealed pouch (C) Stand-Up pouch
- (D) Bottom-sealed stand-up pouch (E) Bottom&corner-sealed stand-up pouch

TREATMENT
WITH INERT GAS
AND RESIDUAL
OXYGEN
INSIDE THE
FINISHED BAG
LESS THAN 1%

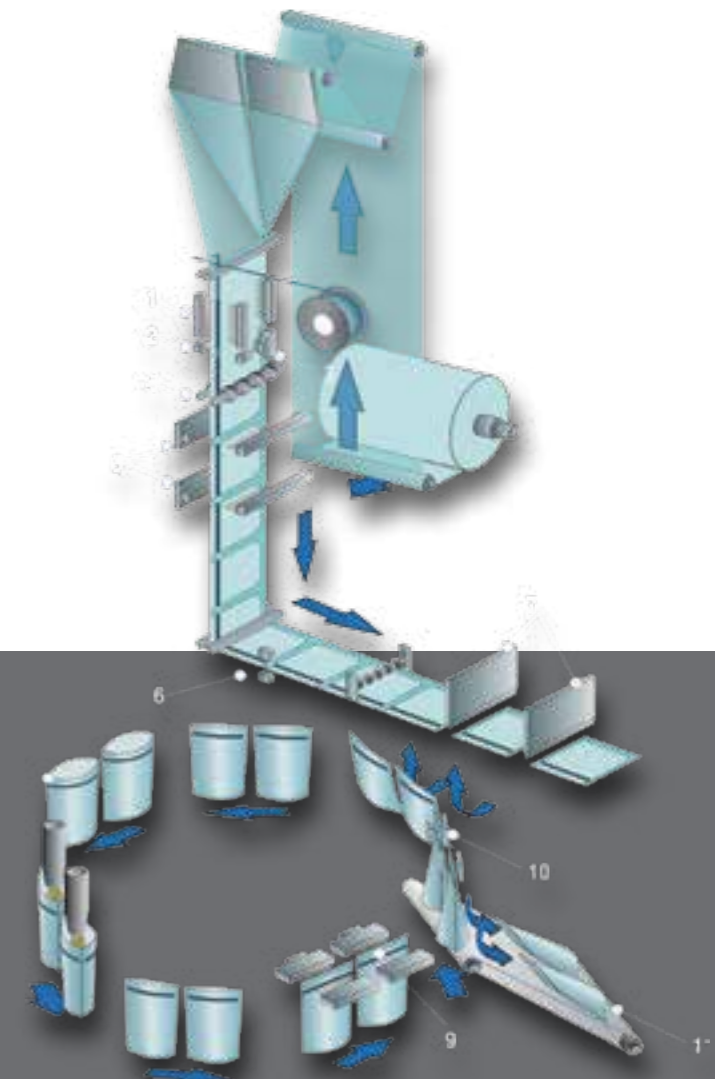
OPTIONALS:



- (A) Flat sealing (B) Standard sealing (C) Euro-slot (D) Tear notches for easy opening (E) Reclosing zipper

TEAR NOTCHES
FOR EASY
OPENING
+ RECLOSING
ZIPPER
+ EURO-SLOT

COMPACT,
VERSATILE,
MODULAR,
STANDPACK
REPRESENTS
A NEW LANDMARK
IN PACKAGING!



OPERATING DIAGRAM:

1. Zipper sealing
2. Jaws for pressing the zipper edges
3. Jaws for stand-up bottom treatment
4. Film pulling device
5. Side sealing
6. Tear notches for easy opening
7. Separator knife
8. Filling
9. Bag top-sealing
10. Euro-slot
11. Bags exit chute

STANDBAG SB5

20 bags per minute,

ESPECIALLY
FOR
PETFOOD

LARGE
FORMAT
BAGS



ICA cares about our customers, and the legendary Italian passion for design and innovative solutions has led us to develop the model SB5. This machine is based on a robust format where the finished stand up bag is made from a reel of film. The step by step bag making process allows for a separation of filling and sealing, enabling great looking bags with minimal seal contamination.

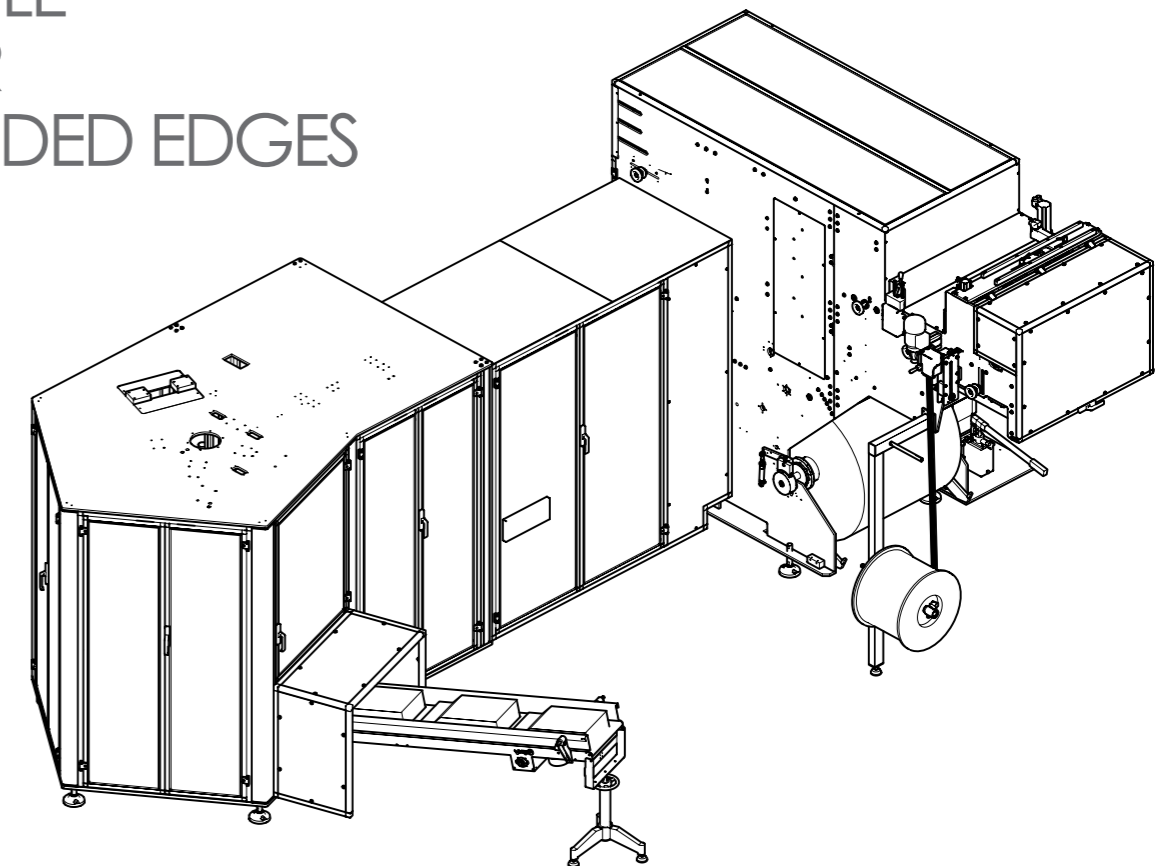
The bag is strengthened by sealing of the 4 corners and stabilized by glueing the bottom fold with hot melt.

Customer requested features include a front zipper, allowing for re-closure and enhancing product freshness. Also included is a handle for easy bag carrying. ICA has over 50 years of experience in the manufacturing process and a great reputation for quality.

STANDBAG SB5



HANDLE
ZIPPER
ROUNDED EDGES



BAG FEATURES

	WIDTH	DEPTH	ALTEZZA	VOLUME
minimum dimension:	175 mm	80 mm	270 mm	2,2 Lt
maximal dimension:	300 mm	120 mm	680 mm	20 Lt

With frontal zip, handle, 4 corners sealing, bottom fold fixed by hot-melt.

ELEVATORS

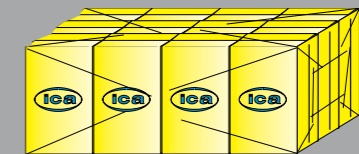
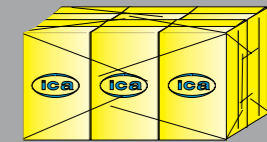
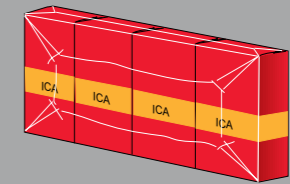


BUNDLING MACHINES



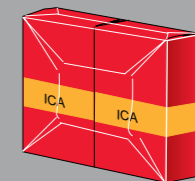
FA 70/6-12 AUTOMATIC BUNDLING MACHINE

for packing square-shaped products in shrink-wrapping polyethylene, with single or double feeding unit.



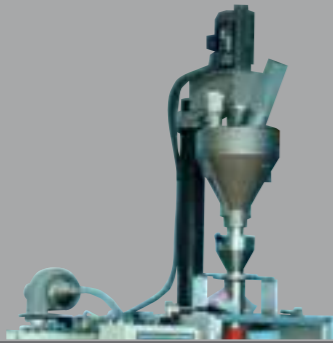
RT/CS AUTOMATIC WRAPPING MACHINE

for overwrapping 1-2-4 bags placed side by side



FILLING SYSTEM

VOLUMETRIC AUGER FILLER WITH BOTTOM PLATE



VOLUMETRIC FILLER WITH TELESCOPIC CUPS



DOUBLE VOLUMETRIC FILLER



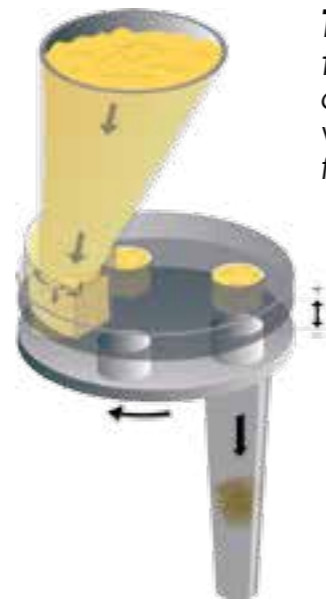
MULTI-HEAD ASSOCIATIVE WEIGHERS



MULTI-HEAD WEIGHERS



FILLING SYSTEM

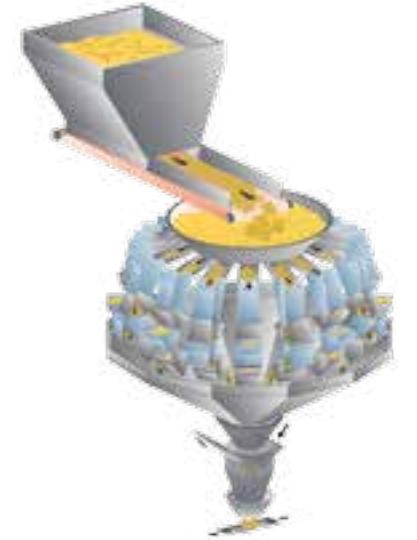


TR25,
telescopic
cup-type
volumetric
filler

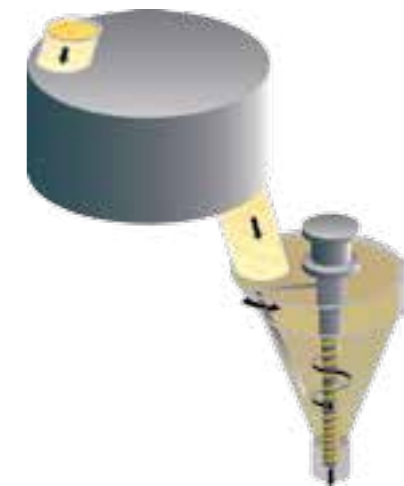
3 PV3
automatic
weighing
system



ASSO 2000
weighing unit with
8-10-12-14
weighing heads
& 2-3 basket levels



EM64BS
volumetric auger filler with
Brushless motor
(servodrive)
independent mixer
with inverter-adjustable speed



2 PV2
automatic
weighing
system



DOUBLE
volumetric
filler

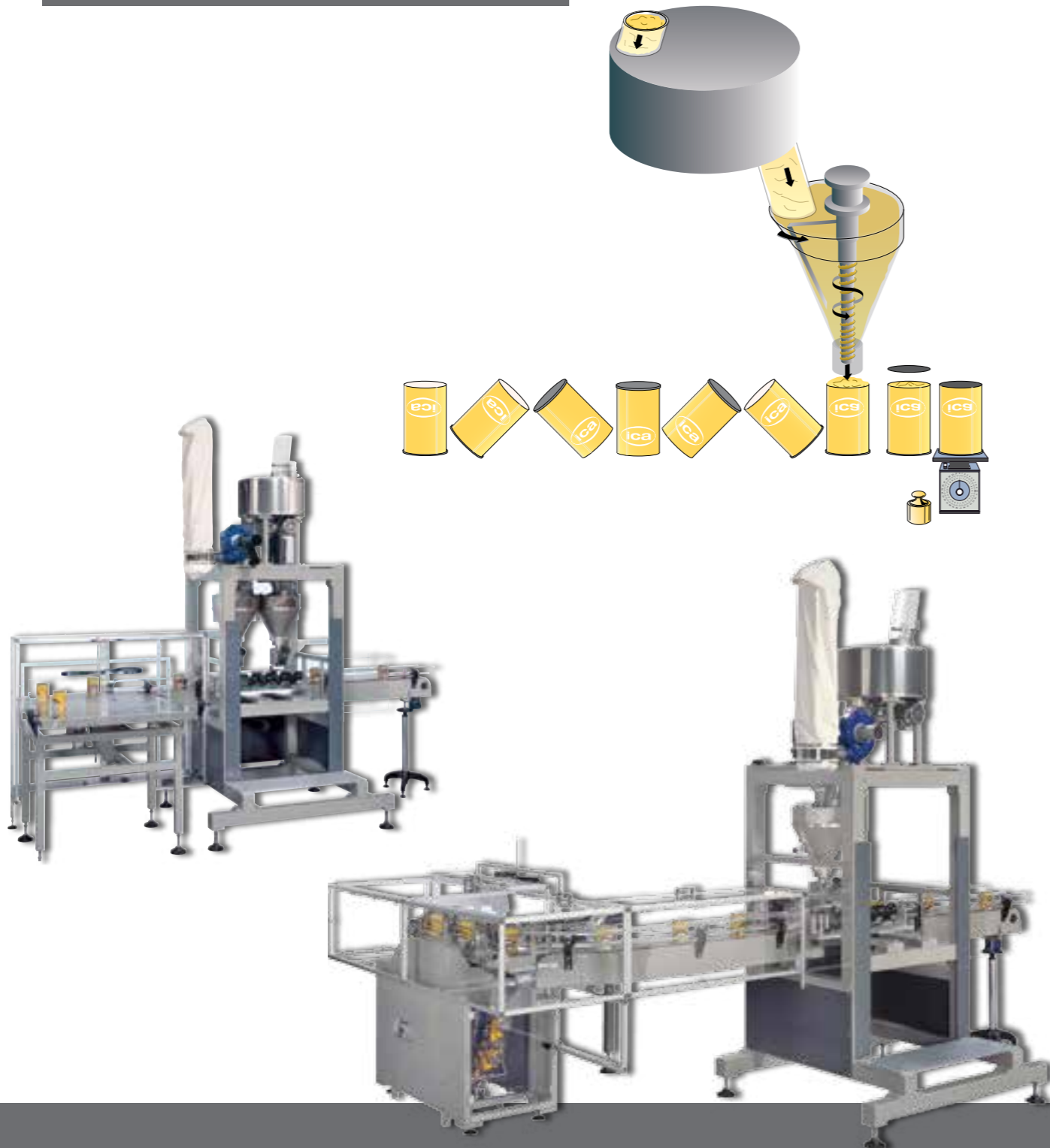
CANS AND TINS FILLING

NEW MODERN ESPRESSO MACHINE

BENÉSSUM

ICA SOLUTION FOR YOUR FAVOURITE COFFEE

EASY TO USE!



BENÉSSUM[®]

RL05 the new version of a historic packaging line for filling tins and cans in bulk, whose first version dates back more than 30 years ago. The cans are turned over and cleaned up, then filled by one of the various ICA systems: volumetric cup or auger fillers; individual or multi-head weighing systems; linear or radial combination weighing systems.

At the end of the packaging cycle a check weigher controls the perfect operation of the packaging line.

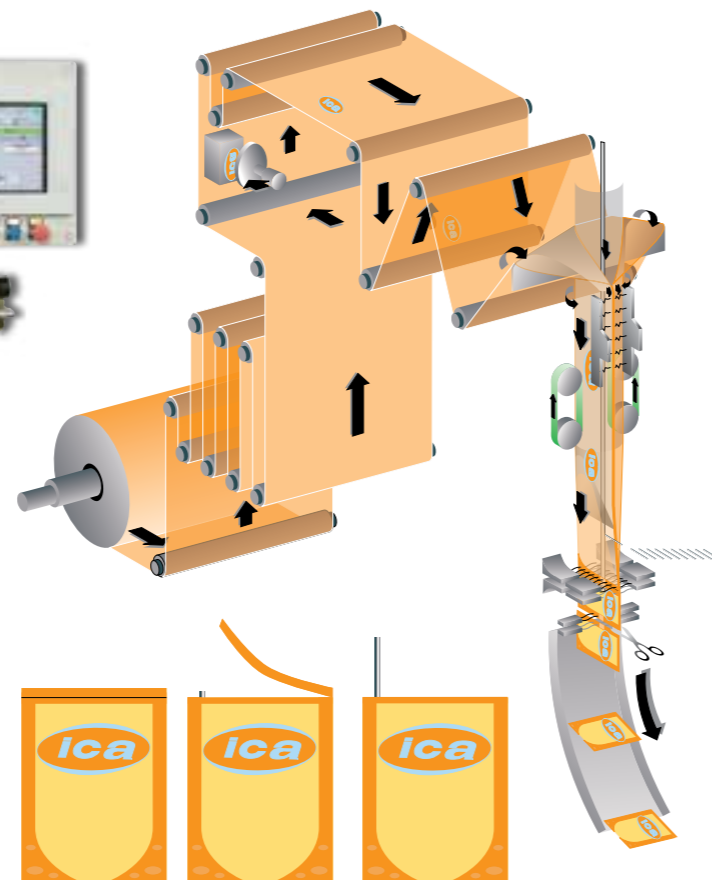
unique extraction technology, a must for making a creamy espresso and a full-bodied infusion:

- Built-in dispensing temperature control;
- Dispensing time control;
- Different dispensers for adapting easily to various kinds of caps and pods

LIQUIDPACK



60 200 ml bags/minute



LIQUIDPACK® LP200 vertical f/f/s packaging line produces bags sealed on three sides, with the possibility of inserting a straw. This is a patented solution, where advanced electronics marry a modern conception of packaging liquids by using flexible materials.

Its special structure guarantees the absence of oxygen inside the bag, thus a longer preservation of the liquid's organoleptic properties: ideal for fruit juices with high levels of pulp and sugar, for tomato juice and the like.

An additional patent includes the possibility of using the straw, packed inside the bag, without touching it and without it being contaminated by external agents.

OPERATOR-MACHINE INTERFACE IC@WIN®

Regarding line motion control, ICA packaging machines employ the most advanced technology currently available on the automation market, without underestimating the importance of preferring user-friendly systems.

The predominant use of brushless motors on our lines and their axis-control system eliminate almost entirely mechanical constraints, thus ensuring both extreme flexibility and high performance, which are necessary conditions in modern production processes.

ICA lines are also equipped with efficient temperature control systems, check weighers which have been type approved in many countries, as well as excellent filling systems for every kind of product: all of this may be controlled by just one controller, capable of governing every aspect of the production process and ensuring the best results. For example, the filling system can modify automatically and accurately its parameters in order to adapt them to the data acquired by the check weigher while inspecting the finished product. Any production fault is handled at best by controlling the parameters of the entire process. Every alarm and command is processed by only one interface, thus facilitating considerably the job of the operator.

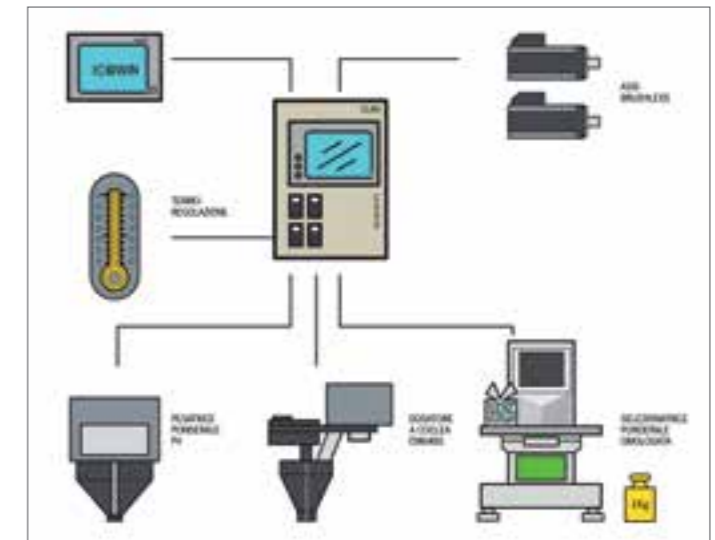
One of the main tasks of the Ic@Win® HMI is providing the most simple and intuitive access to the functions and the information necessary for any user. This is possible also through the hierarchical structure of the passwords and the pages.

There is a password hierarchy that grants access to additional data as compared to the lower ones.

The point is providing the operators with certain levels that hide the information that is not necessary for their job, thus reducing the risk of confusion and mistakes. Only the personnel in charge of the line's maintenance and ICA engineers know the passwords for accessing more critical data.

Every line unit is represented with a specific icon on a push button, always present on the screen, which takes the user to the main page of said unit. This enables the operator to know at all times to which part of the

ic@win



production process the data displayed refer.

Another essential job of Ic@Win® is providing all the necessary information for operating and maintaining the line, in addition to the ones legally requested for approving the production batches (when a type-approved check weigher is installed). Accurate statistics are available, independently or linked to programmable shifts, concerning production and time data, alarm stop lists, expected efficiency.

All this information may be saved on USB memories or unloaded directly from the machine via LAN, as the customer prefers.

Moreover the line is equipped with a thorough hardware diagnostic system, capable of providing the operator with every information necessary for understanding the cause of faults or stops: every error message identifies clearly the axis or the unit causing it.



THE COMPANY:

established in 1963 in the heart of the packaging valley, ICA has flourished in the packaging industry thanks to the natural talent of its founders and to their capacity to involve and motivate others in working for the same objective, of designing and manufacturing excellent automatic packaging machines. With its 150 employees, an annual turnover of approx. 20 million euro and several associated companies, ICA is determined to continue in doing what it does best: turn ideas into machines!

THE MACHINES:

sturdy and reliable mechanical movements with automatic central lubrication systems governed by the most advanced PLC control systems.

The trouble-free operation of our machines is guaranteed by more than 45 years of successful installations in difficult working environments like the sugar and chemical industry.

ICA's R&D Dpt. dedicates as much effort to designing new machines as to updating the existing ones, because good ideas last.

AUTOMATION:

Fully automatic lines, that is from the storage silos to the finished shipping bundle without manual intervention: the best hygienic and functional conditions. ICA supplies complete packaging lines since it manufactures also filling systems (various kinds of fillers and weighers), check-weighers and shrink-wrap bundling machines. Perfect synchronization with any other kind of end-of-line equipment.

WHAT IS PACKED:

a wide range of products in powders, granules and pieces, especially foodstuffs like coffee, tea, flour, sugar, rice, cookies, biscuits, candies, pasta, grated cheese, etc., but also detergent powders and chemical/pharmaceutical products.

THE PACK SIZES:

in addition to covering a wide range of weights, most of our machines feature easy and quick size changeovers and ICA offers also the possibility of having at least another size already installed, adjusted and ready to use on the same machine (FB67 Duplex).

THE PACKS:

a great variety of bags and packs made of flexible packaging materials: pillow-shape, with side-gussets, flat bottom, packet (flat top and bottom), under vacuum, stand-up with 3 sides sealed, bags with sealed edges, off-set longitudinal sealing, etc. And now, Prontocoffee® for coffee pods inside single-serving pouches, Aroma cup® for single-serving capsules and Prontowash® for detergent tablets in water soluble film sheets.

THE PACKAGING MATERIALS USED:

almost every kind of material on the market, in most cases from reel, but some machines work from pre-made bags. From simple, low-cost and ecological kraft paper to the most complex ones made up of 3 or 4 layers for the best protection. ICA makes machines that work well with the packaging materials available in the country of destination so as to guarantee low running costs and trouble-free operation.

UNDER VACUUM:

since coffee packaging is our field of expertise, vacuum packaging (also with gas-flushing) is another one of those things we know how to do at every operational speed; for a longer shelf-life and better product preservation.

DEGASSING VALVES:

coffee packaging (but not only) requires also degassing valves, so all ICA machines can fit the Aroma System® degassing valve

**EASY-OPENING
AND RECLOSING DEVICES:**

making consumer-friendly packs is our concern, so we have designed a whole range of devices, from traditional adhesive tape and labels, to tin-tie, peel-off, tear-off, zippers and many more.

QUALITY:

Every day all over the world our machines attest our quality confirmed by the UNI EN ISO 9001:2008 and OHSAS BS 18001:2007 certifications obtained by ICA and UNI EN ISO 9001&ISO 22000 obtained by Aroma System.

SAFETY:

last but not least, full compliance with the most stringent Directives in terms of operator, product and machine safety.

PATENTS:

ICA innovative technology and originality of its solutions are proven by more than 200 patents all over the world and by the official recognition of the WIPO INVENTOR AWARD "Excellent inventor for the entrepreneurial activity and innovation in the industrial packaging industry" awarded by the World Intellectual Property Organization (Rome, 4th October, 2010).

STURDY AND RELIABLE MECHANICS

2&3D DESIGNING SYSTEMS

SIMPLE AND FUNCTIONAL ELECTRONICS

MORE THAN 5000 LINES INSTALLED

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NOTES

NOTES



ICA S.p.A.
AUTOMATIC PACKAGING MACHINES

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ICA and Aromasystem are not responsible for technical or publishing errors or any omission contained in this document. The innovative technology of the machines displayed is protected by international patents.

ENGLISH



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YOU MAKE IT, WE SHAPE IT

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