

Comav's history

Since 1980 COMAV Srl has been a reference point in the supply of pneumatic conveyor parts, automatic and semi-automatic bag emptying solutions, Big Bags, Octabins, containers and related engineering solutions.

To ensure an increasingly rapid response to the needs and demands of the market, COMAV Srl is now part of a widely acclaimed international group that supplies complete sales and technical support to major global markets.

In 1980, PROMEC, founded by Antonio Pirani and Giovanni Poggi, established COMAV Srl, introducing two new partners, engineer Paolo Ercolani and Loredano Bergonzoni, opening their first factory in Pieve di Cento (BO), Italy.

A few years later, COMAV Srl moved to Sant'Agostino (FE), where it remained until the early 90s.

As the company became increasingly well-known nationwide, the need for new in-house production machinery and staff led the owner to purchase land and buildings at its present-day headquarters in Terre del Reno (FE).

In 2014, the company's gradual emergence on global markets made it necessary to expand the production plant. This led to the purchase of two more industrial buildings and high-tech machinery, such as laser cutting machines, lathes and an automatic 5-axis milling machine.



In 2021, the holding company MIX srl purchased 100% of COMAV Srl's shares.

COMAV Srl is now part of a group of companies that leads the way in their respective fields of manufacturing, setting their sights on a common goal of a strongly international nature.

The desire to promote Italian enterprise as a group of companies working together adds a new element to the company's entrepreneurial DNA, responding to the need to provide all-round solutions for the bulk handling sector.

**DESIGNED AND MANUFACTURED
IN CONFORMITY WITH:**



*Your safety
on our
EXpertise*

Comav's certifications

Comav offers a wide range of certified products. Below are just a few of the most used certificates.

As well as European certification, COMAV can support or supply specific certificates involving complex bureaucratic procedures, such as EAC and SASO, including bespoke design of electrical components in compliance with national regulations, such as UL508 and IECEx, with the subsequent issuing of the corresponding certification.

COMAV parts can be:

- Machinery accompanied by an EC declaration of conformity.
- Partly completed machinery, accompanied by a declaration of incorporation

The compliance of our diverter and rotary valves for pneumatic conveyors is covered by the following certificates:

- TÜV CY 19 ATEX 0206207 X

- TÜV CY 19 ATEX 0206197 X
- BVS 19 ATEX ZQS/H059
- RU 01992345
- EAC N RU D-IT CI28B.05849/19
- EAC N RU D-IT CI28B.05853/19

All our valves and machines can be designed in compliance with European Union (EU) legislation:

- Regulation (EC) no. 1935/2004
- Regulation (EC) no. 2023/2006
- Regulation (EU) no. 10/2011

On request, our bag emptying machines can be designed and supplied for ATEX classification up to level II 1/3D. Octabin unloaders, Big Bag unloaders, mechanical conveyers and other parts are normally designed according to level II 3D, but they can also be provided to comply with stricter directives when necessary.

As well as the listed certification, COMAV has registered specific patents for some of its more high-tech machines.

Big Bag Discharger



Rotary Valve



Big Bag Loader



Bag emptying machines material management

SVR COMPACT stems from the need to provide a model for plastic granule management with low maintenance impact that ensures the highest levels of safety at the loading points and an automatic plant management.

A patented gripping technology allows to minimize bag lifting stress thanks to a "layer by layer" emptying concept.



Bag emptying coefficients increase with an emptying mechanism through rotating blades and mixers. Subsequently, a gravimetric fall ensures the separation of most of the material from the bag, released by a counter comb. The pallet loading takes place through a forklift. After the emptying cycle is done, the empty pallet is removed by the forklift. Greater automation can be achieved by integrating an empty pallet stacker and a full pallet accumulator.

The SVR COMPACT ELITE and SVR COMPACT DELUXE versions integrate these possibilities.

The SVR COMPACT ELITE is equipped with a fully electric and non-hydraulic roller shutter warehouse, i.e., a system that allows you to manage all types of pallets regardless of the status and configuration, protecting any blind spot that could become a risk for the operator.

In addition to the empty pallet management technology, COMPACT DELUXE is supplied with conveyors to feed pallets with bags.

Internally, the machine is free of any gaps that could possibly risk contamination between products, however, it's equipped with one or more inspection doors to facilitate cleaning, additionally, nozzles can be integrated for the input of compressed air.

Any escaped residues are retained by a protective grid placed in the collection hopper, easy to clean thanks to an inspection door. This can become particularly useful when the material of the bag isn't high quality, defective, or if the pallet has been stored outside for many months.

If the bag is deteriorated it will be automatically cleaned, as described in the various accessories of the machine.

The management of the empty bag is also important and our orientation towards a "Green Thinking" policy has challenged us to transform waste, in our case empty bags, into productive value.

In addition to the save money technology, a Hydraulic Press or a Compact Auger complete the solutions for the management of the empty bags.

When handling granular products, we recommend using our SVR Compact machines, whereas when handling powder or very compact materials, we suggest using our SVR DEPA. All our bag emptying machines have many accessories that can be integrated according to specific needs.

The main ones are Video Control Camera, 3D vision, Integrated Pneumatic Transport Management, Product Traceability Management, Contamination Zero Concept.



COMAV
YOUR PARTNER IN BULK MATERIAL HANDLING



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COMAV'S Rotary valve with detachable rotor system

The supply of rotary valves with a detachable rotor system has always represented a critical point in the installation of a pneumatic conveying.

Recently, one of our customers has commissioned an important order for several rotary valves to be applied in the recovery system for green coffee peels coming from the roasting process. The peculiarity of such installation is a working temperature over 200°C, which COMAV can face by an application of a special high-temperature paint, certified EC1935/2004, and specific components suitable for high temperatures.

Furthermore, the detachable rotary valve finds its employment in an environment of difficult access.

Thanks to our special detachable solution, self-alignment between the axis of rotor and housing and rotor's self-centering, the operator has no difficulty with cleaning and replacement, even if the work environment is limited and cramped.

The rotary valves supplied must guarantee a throughput until 60.000 m³/h, 24hours a day. The valves are supplied in accordance with ATEX II 1/3D Area and with parts in contact with the product in accordance with EC1935/2004.

Further models of our rotary valves are available with the same criteria for both dosing and pneumatic conveying.

Tradition towards the Future

Comav, as said before, designs and manufactures bag emptying machines, star valves and diverters, compacting presses, air conveyors and solutions for filling / emptying Big Bags, OCTABIN and Containers. Having become part of the MIX&Co Group, an aggregate of leading companies in their respective production segments, including Mix of Cavezzo and Eurofim of Terre del Reno, it begins a path of strongly international prospects aimed at promoting Italian companies at the service of the food, plastic, chemical and pharmaceutical industries. A new entrepreneurial DNA explains Ing. Cosimo Vitale, General Manager of the Group, can meet the needs of complete supply for solutions in the world of bulk handling according to the logic of innovation, eco-sustainable development and efficiency of production processes. Comav has developed special SWs with traditional or remote management, which, through the integration of vertical and horizontal data, allow you to produce with greater flexibility, react quickly and make the process more efficient by reducing resource consumption.





Paolo Pancaldi - Technical Dept. Director

So far, we've talked about how COMAV manufactures and designs its products. The real COMAV, however, identifies itself in its employees. It's thanks to them, in fact, that COMAV has been and still is successful. There is one employee, in particular, who has been working within this company almost since its foundation: it's Paolo Pancaldi, today's company Technical Department Director.

He says that, when he started, in 1985, the company consisted exclusively of five people, himself, three owners and a colleague. He thanks the first owners for COMAV's growth and development: *"I think it was a real fortune to have Antonio Pirani, Giovanni Poggi and Ing. Paolo Ercolani as our company owners. They were able to invest correctly in the future of the company, leaving aside personal interests and working exclusively for the good of COMAV and its employees. I still think COMAV is really lucky because the current leadership, despite various changes, has been able to keep alive the philosophy for which the company was born"*.

Paolo had the opportunity to grow with the company and to adapt to new technologies and regulations. At the beginning, he says, he drew on a drafting machine, by hand, and there were much fewer technical standards, while nowadays everything is digital and the machinery that is produced must comply with certain regulations, the most used are: ATEX, MOCA and CE.

His work today, in addition to being a technical designer, also includes several responsibilities: *"As the Director of the Technical department, I deal with all the phases related to the development and implementation of a contract that include interacting with the customer, to understand the solution suitable for his needs, directing the technical office, to make sure that the team carries out the project as required in a reasonably short time, and making sure that, the machines placed on the market, comply with all current regulations"*.

The most satisfying part of his job is knowing that the effort made gives the expected results. Paolo says: *"Customer satisfaction is very important for us, which does not concern only and exclusively the product, but the execution of the entire project, from its design to its construction. It's certainly nice to hear that our team is professional and highly competitive with other companies, and when staff are praised for their work, I personally make sure that everyone who worked on the project is aware of the positive feedback received from customers."*

But his job also presents difficulties, in fact Paolo claims that the most difficult part is to be able to pass on his knowledge to his colleagues. *"Spreading your knowledge, and consequently your experience, is not easy, especially when in the department we're so numerous."*

Despite this, I always try to engage everyone even when it comes to something new, and I always make myself available for any clarifications or doubts".

Finally, to the question *"is there a project that you've been more passionate about than others?"* Paolo replied: *"From the first to the last because there's no project that I favor or preferred more than the others. They are all different from each other and this makes them all interesting and unique. In fact, I'd say that it's not a singular project at all that I enjoy, but my job and everything that it entails"*.

In conclusion, it can certainly be said that teamwork helps the development and growth of the company by including everyone, regardless of the role and task that one has.



Comav's Services

COMAV's services vary from commissioning, training, electrical panels implemented in the machines, and real-time monitoring of company production.

The technical service consists of an expert staff able to respond to customer needs. Continuous training courses are established to provide clearer and more exhaustive answers, finding a high appreciation from our customers. The high reliability of our automatic machines and special plants comes from constant Research and Development in the synergies between the mechanical and electronic automation areas. COMAV provides the implementation of its machines with electrical panels and integrated management systems to optimize reliability and maximize machine performance in the production process. Lastly, our machines are equipped with interfaces for continuous and complete communication between machine and person, whose software is designed with reference to the customer's needs and production cycle.

Reduction of Marine Litter

"Marine Litter" means the dispersion into the environment of dust, granules and flakes generated during the production, transport, and transformation of plastic materials. The commitment that the member companies of PLASTIC EUROPE have signed is a program called "Operation Clean Sweep" which aims to achieve the "Zero Pellet Loss" which includes about 1800 companies, establishments, and associations.



Operational from February 2023, the program will define harmonized processes and procedures for the control and documentation of raw material losses along the entire plastics supply chain. At COMAV we've always been aware of a machine design that complies with the strictest safety regulations, without ever neglecting the optimization of the economic impact of the investment towards criteria of waste reduction and efficiency of the bag emptying cycle.

Precursors of a "Green Thinking" policy, for years our bag emptying machines have been equipped with special recovery hoppers, positioned in points where a bag, damaged during the unloading phase, could release raw materials into the environment which, in addition to an economic loss, renders the work area dangerous.

A clean cut with a special configuration of the cutting blades avoids bag/material contamination, not making the purchase of scrap interception components necessary most of the time and decreasing overall energy consumption.

An internal design of the machine body guarantees the non-retention of the material, which is combined with special quick cleaning KITS. Lately we have gone further, designing a system capable of converting waste like an empty bag into a productive value.

The "Save Money" Technology can be adopted and integrated into our more than 40 models and versions of bag trays. Such an extensive range guarantees the end user the best solution for his specific need.

All our projects are highly customized for optimal machine/plant integration.

From us to you

"A Bulk of News!" was born from the idea of wanting to broadcast information and curiosities, in a unique and fun way, to our customers and employees.

Communication, for us, is a fundamental element of our jobs, a tool that helps us grow and broaden our horizons every day. For this reason, we have decided not to address only the Italian or European market, but the market worldwide.

This company periodical will be published intermittently, on a date yet to be determined, and will contain topics ranging from company news to news from the Bulk Handling world, to interviews with our staff, to events and fairs in which COMAV participates, an ideal place to exchange ideas, expectations, and opinions.

STAY TUNED

COMAV's 2023 Fairs



Comav's 2023 Fairs

- SIGEP - Rimini -> 21-25 Jan.
- CFIA - Rennes -> 14-16 March
- PLASTPOL - Kielce -> 21-24 May
- EQUIPLAST - Barcelona -> 30th of May - 2nd of June
- SOLIDS - Parma -> 14-15 June
- PLAST 2023 - Milano -> 5-8 Sept.
- POWTECH - Germania -> 26-28 Sept.
- CIPEU - Saragozza -> 27-28 Sept.
- SOLIDS - Rotterdam -> 4-5 Oct.
- VRAC TECH - Douai -> 28-30 Nov.

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