

# Coster Group



Coster Group is a leading multinational provider of spray and dispensing packaging components and filling machines, with annual revenues of approximately Euro 150 million.

The company addresses all segments of the market with a complete range of standard aerosol valves and actuators, special actuators, spray caps, spray pumps and dispensers, offering substantial manufacturing and distribution capabilities.

In addition, Coster makes available significant design resources to its customers, many of whom are multinational firms operating in diverse consumer markets with a range of well-known brands.

The past fifteen years have seen increasing use of aerosol packaging components to enhance brand identity and differentiation, and many customers rely on Coster for assistance in the design and manufacture of custom components.

Today, Coster Group designers and production engineers routinely work with customers to develop actuators and spray caps that combine precise engineering and manufacturing specifications with marketing-led packaging and design requirements.



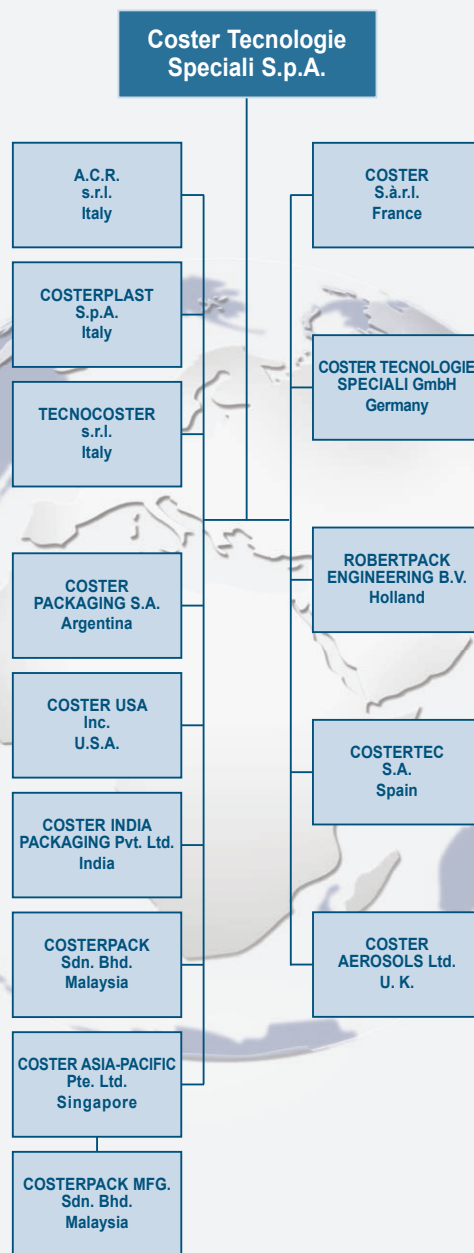
These sector-specific design and production capabilities have enabled Coster Group to develop a marked competitive advantage, reflected today in the Group's dominant share of the worldwide market for special actuators and spray caps.

Coster Group directs worldwide operations from its Headquarters in Milan.

A significant portion of the Group's global production capacity is located near Trento, in Northern Italy; additional factories are located in Holland, Spain, the United Kingdom, Argentina, India, Malaysia and the U.S.A. French and German customers are directly served by distribution centers in Paris and Karlsruhe.

Research and Development, Custom Design and production machinery capabilities are within close reach of the Trentino factories, while aerosol filling lines are designed and manufactured in Milan. Coster Group products are also manufactured and distributed through licensee firms in Iran and Turkey.

Coster Group has established a solid reputation for the consistently high quality of its products and the high level of service. The company has long recognised the value of quality management and has committed considerable resources to ensure that industry standards are upheld across the Group. Quality extends to all processes and products that bear the Coster name, and is equally evident in the company's commitment to a modern, healthy working environment.



## Global Player in the Aerosol Sector

# Aerosol Valves & Accessories

Coster manufactures a complete range of aerosol valves and standard and custom actuators for sprays, foams and gels, to meet all market requirements, from common uses to special functions.

Application sectors vary from personal and hair care to pharmaceutical, food, technical and household products, insecticides. Actuators can be manufactured in a large variety of colours, in order to obtain a high degree of customisation of the standard production.



Above, high delivery rate tilt-action valves are used for special applications, such as polyurethane foams.

Below, Twist valve-cover actuator incorporates the twist-lock closure system, which prevents accidental spraying.



Series 1800 standard actuators (above and left) are available in spray, foam and gel versions.



Left, the wide range of Coster BOVs (Bag-On-Valve) dual-compartment system: the propellant, liquid gas or compressed gas (nitrogen, air), is contained inside the can, outside the bag. BOV is suitable for use with spray, gel and foam actuators in the cosmetic, pharmaceutical and technical industry.

Top left : BOV 2;  
top right, BOV 3;  
bottom right, female BOV;  
bottom left, 20 mm BOV.



Above, a selection of pharmaceutical, sunscreen, deodorant and food products that use Coster BOVs.

Below, products using a popular Coster standard actuator for foam.



Above, a new food application (beer), using a special high flow-rate valve.

Below left, 2-piece asthma inhaler for pulmonary applications, suitable for metered dose valves.



Above right, Coster 20DR MDI valve for inverted use, suitable for HFA & CFC propelled formulations. Available dosages: 50, 65, 75, 100 µl.

Left, the new Crystal translucent spray actuator.



A Complete Range of Products  
For all Market Segments



# Spray Caps & Special Actuators

Coster has a matchless experience in the design and the manufacturing of special actuators and spray caps, standard or manufactured exclusively for its multinational customers, working in partnership with them on the engineering of the graphic design.

The use of these actuators is fast increasing, thanks also to their easy use and their aesthetic appeal.

In this sector Coster is the world market leader, with a production of several hundred million pieces each year.



*In this page, a selection of standard and custom-made spray caps and special actuators highlighting Coster's renowned capability in design and manufacturing.*

*Left, Gillette 3X deodorant exclusive spray cap for Procter & Gamble.*



*Examples of Coster standard spray caps: left and above, Orbit; right, Sfera and Vertical.*



*Customised Coster spray caps for various applications.*



*Above, L'Oreal's Garnier Deo Mineral exclusive spray cap.*

*Left, Hydra standard spray cap for household products and insecticides.*

*Right, the popular Unilever's Axe men deodorant and antiperspirant spray exclusive actuator.*



World Leader of Customised and Standard Solutions

# Spray Pumps & Dispensers



Fragrances equipped with Coster perfumery pumps: MHPR for Chevignon, Lulu Castagnette, Jacques Fath, Ferragamo Incanto Charms; MHP for Caudalie Fleur de Vigne; CPS for Nike Fission, Aqua Mat, Vanderbilt.



Coster perfumery pumps: left, CPR; right, MHPR; below, MPE.



Right, a selection of products equipped with Coster pumps for sprays and creams.

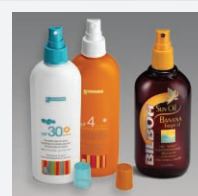


Pumps are finger-actuated mechanisms for the metered dispensing of products either in spray form (spray pumps) or in fluid form (dispensers) from non-pressurized containers.

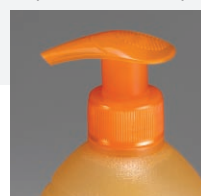
Coster offers a complete range of standard pumps for the main application sectors: cosmetic, perfumery, pharmaceutical food, household and industrial products. As for spray caps and special actuators, Coster manufactures customised pumps for its high volume customers.



Spray pumps for pharmaceutical applications (above), for hair products (left), for solar applications (right).



Left, standard dispensers for cream. Right and below, customised dispensers for soap.



Above, left and right standard dispensers for soap.



A Complete Range of Pumps and Actuators



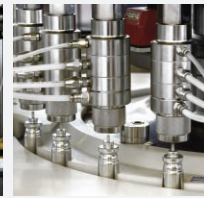
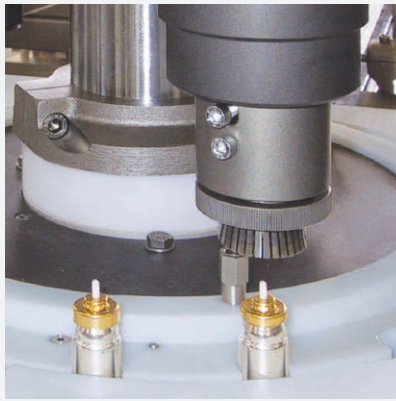
Coster is the world's only supplier of both aerosol valves and filling machinery. With 45 years experience in the design and manufacture of machines, Coster is a world leader in the provision of equipment to pharmaceutical, household, technical products, perfumery and cosmetics industries.

Coster Machinery Division offers innovative services and products designed to fulfil customers' most demanding quality and performance expectations.

Production includes:

- Semi-automatic machines and laboratory equipment
- Automatic filling lines (from 10 to 250 cpm), suitable both for Bag-On-Valve and standard aerosol valves
- Cap, seal, actuator inserting machines
- Can pressure/leak testing machines
- Pharma machines, AISI 316L execution
- MDI filling machines
- Safety gas filling room

All machines, manufactured and tested using HFA 134A as standard, are 100% suitable for all current aerosol propellants.



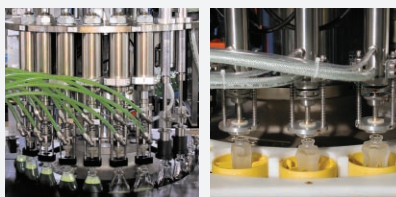
MDI pharmaceutical production line and control machine (below) and close-ups.



*Below, a MIG: the only filling machine that does not need to be placed inside a gas filling room. It is a gas house itself, featuring all possible active and passive protection systems normally found in traditional gas cabinets.*



*Left, filling machine for BOV. It performs insertion onto the cans, insertion checking, under the cup pressurisation and crimping, outside the bag propellant pressure checking, filling of product into the bag, stem flushing. Below, close-ups.*



*Above, close-ups of a filling machine for perfumery applications.*

*Coster offers a wide range of ancillary machines: right, accumulation/feeding tables are available in both circular and linear versions.*



Excellence from Experience  
in Packaging Components

Filling Machines & Lines





*Coster factories in Italy: above, Coster 1 plant and R&D headquarters, Coster 2 plant, Coster 3 & Coster 4 complex; right, Costerplast and Tecnocoster plants.*



*Coster factories worldwide: above, the UK, Spain, Holland; left, Malaysia and the USA. below, Argentina and India.*

*Below, images showing the high degree of automation in Coster facilities.*



Verticalisation, Automation,  
Ergonomics, Quality

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