

# COSTER

 **COSTER**



# Group Overview

Coster Group is a leading multinational provider of spray and dispensing packaging components and filling machines, with annual revenues of approximately Euro 175 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 years have seen increasing use of aerosol packaging components to enhance brand identity and differentiation, and 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.



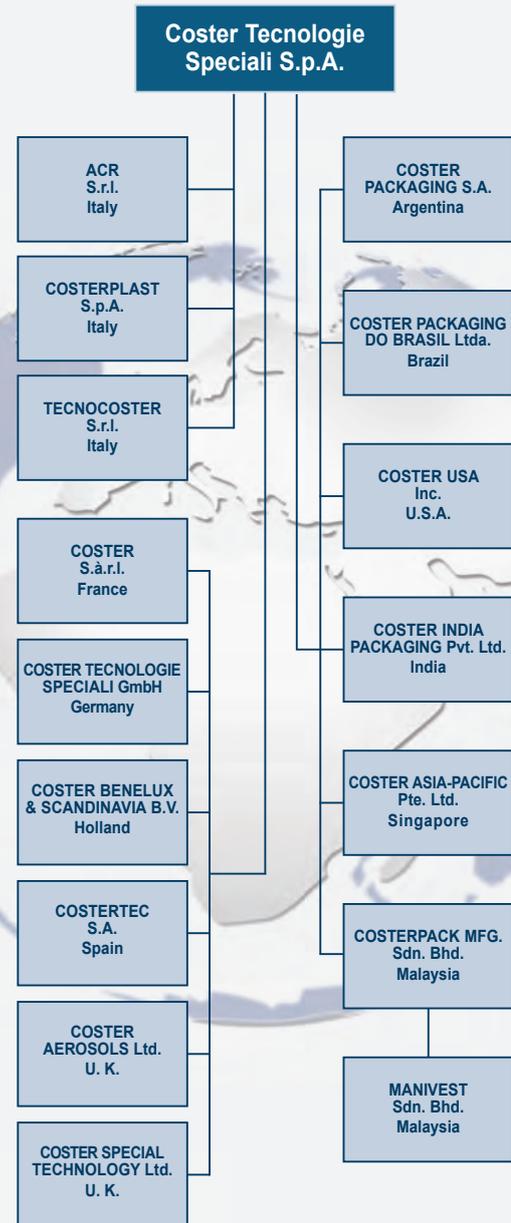
Coster Group directs worldwide operations from its Headquarters in Milan.

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 Industry



# 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.

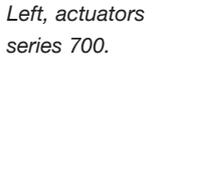


Right, BOV 3;  
bottom right,  
female BOV;  
bottom left,  
20mm BOV.

*Coster production covers a complete range of aerosol valves that can meet any market requirement.*



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



Left, actuators series 700.

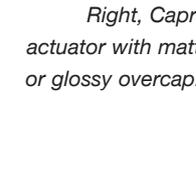


Above, Crystal translucent spray actuator.

Left, Rotor locking actuator.



Above, Twist locking actuator.



Right, Capri actuator with matt or glossy overcap.



Left, actuators for foam, for upside-down use and for whipped cream.

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 customers, working in partnership with them on the engineering of the graphic design.

These actuators have become an integral part of the finished product, due to their ease of use and aesthetic appeal.

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



Left, Sfera Coster standard spray cap, available in two versions: for foam and for gel. Both versions are equipped with a protective overcap.



Above and right, Orbit Coster standard spray cap, in spray, gel and foam versions.



Above, Hydra standard spray cap for household products and insecticides.

Below, finished products with bespoke actuators and spray caps manufactured by Coster; bottom, a selection of finished products with Coster spray caps.

Above V17.24 spray cap for necked-in tin plate cans.

Below, V17.70 Coster spray cap.



## Customized and Standard Aerosol Solutions

# Spray Pumps & Dispensers

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.



Above, selection of spray pumps. A wide choice of actuators is available for different applications, i.e. nasal sprays.



Left, selection of perfumery pumps. Pre-compressed and non pre-compressed versions available, for crimping or screwing onto bottles as well as snap-fit closures.

Right, a selection of dispenser pumps. A wide choice of actuators and dose sizes is available.



Below, examples of finished products with Coster pumps.



A Complete Range of Pumps and Actuators

Coster is the sole company worldwide providing integrated aerosol & spray packaging solutions: actuators, valves, pumps and filling machines. Its reliable technology meets the Pharmaceutical Industry's stringent quality standards and product safety features.

Coster R&D Center offers formulation and re-formulation services for selected aerosol and spray OTC products. Customized aerosol courses can be hosted in-house or on the spot.



*Coster produces different packaging components for inhaled, nasal, oral and topical products.*

*Coster manufactures filling machines for inhaled, nasal, oral and topical products: from Lab table top machines to fully automated lines.*

*Right, detail of an MDI filling automated line; below, view of a semiautomatic MDI filling machine.*



*MDI pharmaceutical production line close-ups.*

Comprehensive Packaging Solutions for Pharma Products

Pharma Applications

# Filling Machines & Lines



Left, Tosvar aerosol filling Line.  
Above, some close-ups

Coster is the world's only supplier of both aerosol valves and filling machinery. With more than 50 years experience in the design and manufacture of machines, Coster is a leading provider of equipment to pharmaceutical, household, technical products, perfumery and cosmetics industries. Coster Machinery Division offers innovative services and products designed to fulfill customers' most demanding quality and performance expectations.

Production includes:

- Semi-automatic machines and laboratory equipment;
- Automatic filling lines (from 10 to 300 cpm), suitable both for Bag-On-Valve and standard aerosol valves, complete or with ancillary equipment included;
- 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.



Left, semiautomatic machine for UTC (under the cup) crimping and check of pressure of propellant outside the bag



Left, semiautomatic machine for filling product into the bag of BOV valves



Right: filling machine for Pharmaceutical products (topic aerosols). Above, close-ups of filling machine



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



Left, 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.

Excellence from Experience  
in Packaging Components

# Manufacturing Organization



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



*Coster factories worldwide: above, Spain, Holland and the USA; left, the two plants in the UK. Below, Malaysia, Argentina and India.*



[www.coster.com](http://www.coster.com)

Coster Tecnologie Speciali S.p.A.

Corso Como 15, Milano - Phone +39 02 63 61 61 - [sales@coster.com](mailto:sales@coster.com)