

**Omnia
Technologies**
Enabling Evolution

BROCHURE

Life Sciences



Life Sciences





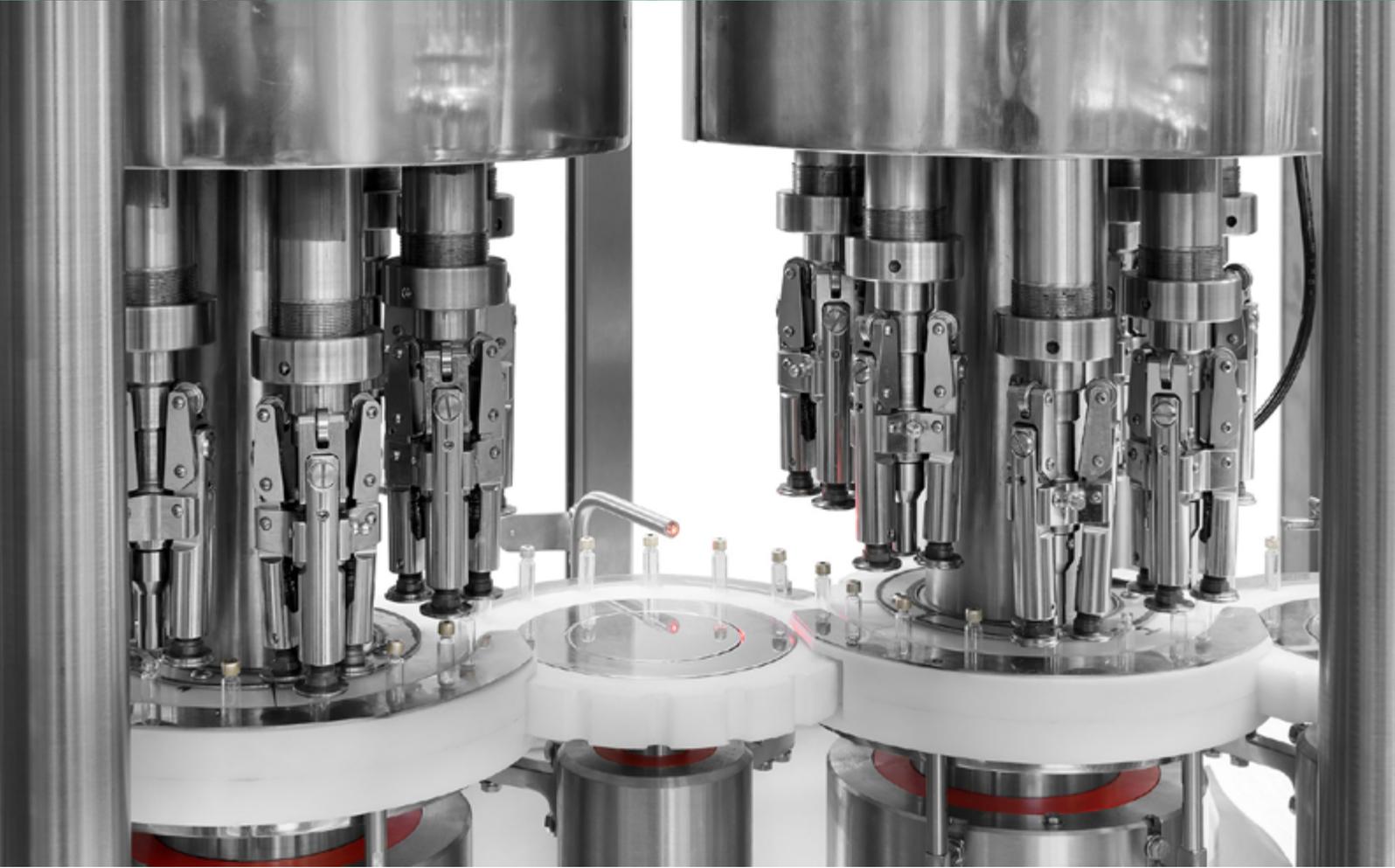
WHO WE ARE

Leading Group in the design, manufacture and services of machinery for the wine, spirits, beer, beverage, dairy, fats and proteins industries, it is also developing solutions for the pharmaceutical and medical sectors.

WHAT WE DO

We provide to our customers:

1. **End-to-end integrated solutions**, from process to final packaging. We are a single partner providing customers turnkey solutions and sustainable automation lines.
2. **Tailor-made solutions**, with a high degree of machinery customization, designed around a set of industrialized based modules.
3. **Technical Support**, we are committed to support our customers through 180 people dedicated to the service team, located all over the world.



THE GROUP'S PRESENCE IN THE WORLD



A global company with a strong sales and after-sales presence. Close to those who produce, anywhere in the world.

THE GROUP'S NUMBERS

28

PRODUCTIVE UNITS

10

COMMERCIAL & SERVICE OFFICES

90

COUNTRIES

30.000

INSTALLATIONS

+200

R&D & ENGINEERS

+1.400

PEOPLE

THE GROUP'S APPLICATIONS



Wine



Spirits



Beer



Beverages



Plant based beverages



Dairy



Fats, gelatines, cocoa butter



Life Sciences

TOWARDS THE FUTURE

Our vision and values to enable evolution

Our Vision

We want to be a leader in technologies for the food, beverage and pharma, inspired by the great Italian tradition as well as by our innovative vocation for sustainability, always serving our customers, our people and our communities.

Our Values

01. Technology

Innovation

With more than 200 engineers and technical specialists, we design and develop the most advanced and sustainable automation technologies.

02. Sustainability

Respect

Our purpose is to integrate sustainability into every aspect, contributing to the achievement of the global goals of the 2030 Agenda. The strategic plan is based on 4 basic pillars - Corporate, People, Impact Reduction, and Innovation - that expand into 20 macro goals, currently implemented by 90 initiatives.

03. Service

Accessibility

We are committed to providing and supporting our customers with 180 people in the service team mobilized around the world.

We are committed to being active promoters of a sustainable growth model, starting by valuing people, territory and the communities of which we are a part, and promoting the development of our partners and clients.

70

PATENTS

20

ESG MACRO TARGETS

180

PEOPLE IN THE
SERVICE TEAM



Scan the qrcode, discover our
[Sustainability Report 2022](#).

Our Service offer

- **Technical Support**

We are committed to supporting our customers with 180 people in the service team mobilized around the world.

- **Spare parts**

We offer a wide range of original spare parts and a team dedicated to repair services.

- **Machinery upgrade**

We know that technological progress is constantly evolving, and we want our customers to benefit from it.

- **Training**

We believe that knowledge is the key to success, which is why we offer tailored technical training courses.



Pharmaceutical



We specialize in designing and manufacturing machinery for filling and capping a variety of pharmaceutical liquid and powder products. Our range includes solutions for containers such as single-dose ampoule strips, cartridges, vials, nasal sprays, oral sprays, and oral syrup bottles.

Meticulously engineered to deliver consistent accuracy and proven reliability, our cutting-edge technology ensures precise dosing and secure sealing, meeting the stringent quality and safety standards required in the pharmaceutical industry.

With extensive experience and ongoing research and development, we offer customized solutions to meet specific customer needs. Emphasizing operational efficiency and user-friendliness, these machines enhance productivity while minimizing material waste and time.

Renowned for excellence in the industry, we are the ideal partner for pharmaceutical companies seeking reliable and high-quality filling solutions.



STRIPS

CARTRIDGES

VIALS

NASAL SPRAYS

SYRUPS

EYE DROPS

DRY SYRUPS

1

STRIPFILL


 **COMAS**
 [Discover more](#)


Stripfill is an automatic machine for filling and sealing of **single-dose flexible** ampoule strips. Featured by a very **reduced dimension**, thanks to an innovative “u” arrangement. The main innovation concerns the sealing of the bottle right after the filling phase thru a special design of the clamps and localized heating technology.

- + Space - saving design
- + Ability to be equipped with different dosing systems
- + Available with different barrier technologies
- + CIP and SIP integrated skid available on request

Technical Data

- **Max mechanical speed** 30 pcs/min
- **Filling Range (ml)** 0.33 - 10

2

ORAFILL


 **COMAS**
 [Discover more](#)


Orafill is a continuous-motion filling and capping machine that can reach high production speeds for **oral liquid products**. High speeds in large volume is achieved thru a continuous motion during the filling while maintaining **dosing precision**.

- + High production speed
- + Mass flow meter - syringes – or peristaltic pump systems
- + Integrated CIP
- + It can be equipped with different capping technologies

Technical Data

- **Max mechanical speed** 250 pcs/min
- **Filling Range (ml)** 10-125
- **Max. bottle diam. (mm)** 50

3

FD120

 **COMAS**

[→ Discover more](#)



The FD120 model is a versatile, indexing machine, designed to fill and close **most pharmaceutical containers**. Its robust design and traditional alternate motion ensures ideal flexibility and **easy of use** for both operators and maintenance technicians.

- + Chance to handle all kind of pharma and non-pharma packaging
- + Available with O-RABs technology
- + Filling by mass flow meter – rotary pumps – time pressure – peristaltic pumps – piston pump with heated hopper
- + Wide range of formats
- + Also available equipped with Auger Powder dosing technology

Technical Data

- **Max mechanical speed** 120 pcs/min
- **Filling Range (ml)** 10-1000
- **Max. bottle diam. (mm)** 80

4

CARPULFILL

 **COMAS**

[→ Discover more](#)



The Carpulfill model is a continuous-motion filling and capping machine for **dental cartridges** that can reach **high production speeds**. It has been designed to process injectable products in Grade B rooms assuring Grade A conditions within the machine volume.

- + High production speed
- + It can be supplied in line with washer and depyrogenation tunnel
- + Compact footprint
- + Open RABs or C-RABs technology available

Technical Data

- **Max mechanical speed** 200 pcs/min
- **Filling range (ml)** 1-3

5

OMNIFILL


[Discover more](#)


Clean design and the best ratio between **speed** and **footprint** thanks to the combined motion system. This platform is able to handle several kind of packaging including **aseptic ophthalmics**.

- + Extremely compact footprint
- + Ready for any kind of barrier technology including RABs and Isolators
- + Different filling technologies available
- + CIP/SIP skid available

Technical Data

- **Max mechanical speed** 300 pcs/min
- **Filling Range (ml)** from 0,5 to 300 ml
- **Max. bottle diam. (mm)** 48

6

PICCOLA


[Discover more](#)


A Plug-&-Play machine for small batch processing of **injectable vials** in **liquid or powder** and **ophthalmic** product. Its versatility in switching between injectables and ophthalmic represents a perfect option for **clinical trials** and **R&D centers**.

- + Ability to be integrated within RABs technology or Isolators
- + Different filling technologies available
- + Compact footprint

Technical Data

- **Max mechanical speed** 30 pcs/min
- **Filling Range (ml)** 5-30
- **Max. bottle diam. (mm)** 40

7

MICROFILL



TECNO TREND

[→ Discover more](#)

Continuous motion **filling machine** for **liquid or powder** products equipped with a needle dosing technology able to treat the widest range of powders, into **glass or plastic vials** and subsequent stoppering. Suitable to dose sterile antibiotic injectable powders.

- + Highest production capacity with powder filling technology in needle
- + Ability to handle all the kinds of powder
- + MicroPura dosing technology integrated in a high speed filling machine
- + Ease of handling for all the product contact parts
- + Open RABs or C-RABs technology available

Technical Data

- **Max mechanical speed** from 100 to 400 pcs/min
- **Dosing Range** from 100 mg to 1,5 gr with a single dosage
- **Dosage accuracy** +/- 1% volume

8

DISKFILL



TECNO TREND

[→ Discover more](#)

Vacuum Pressure Disk Powder Dosing technology for **Micro dosing** injectable powders and **Macro dosing** for **oral dry syrups**. A reliable and effective solution for **antibiotics** fill finishing.

- + Available with O-RABs and C-RABs technology
- + Precise and Stable Dispensing
- + Simple to be operated

Technical Data

- **Max mechanical speed** 300 pcs/min
- **Dosing Range** from 0,02 cc to 100 cc
- **Dosage accuracy** +/- 2% volume

9

CAPFILL



TECNO TREND

[→ Discover more](#)

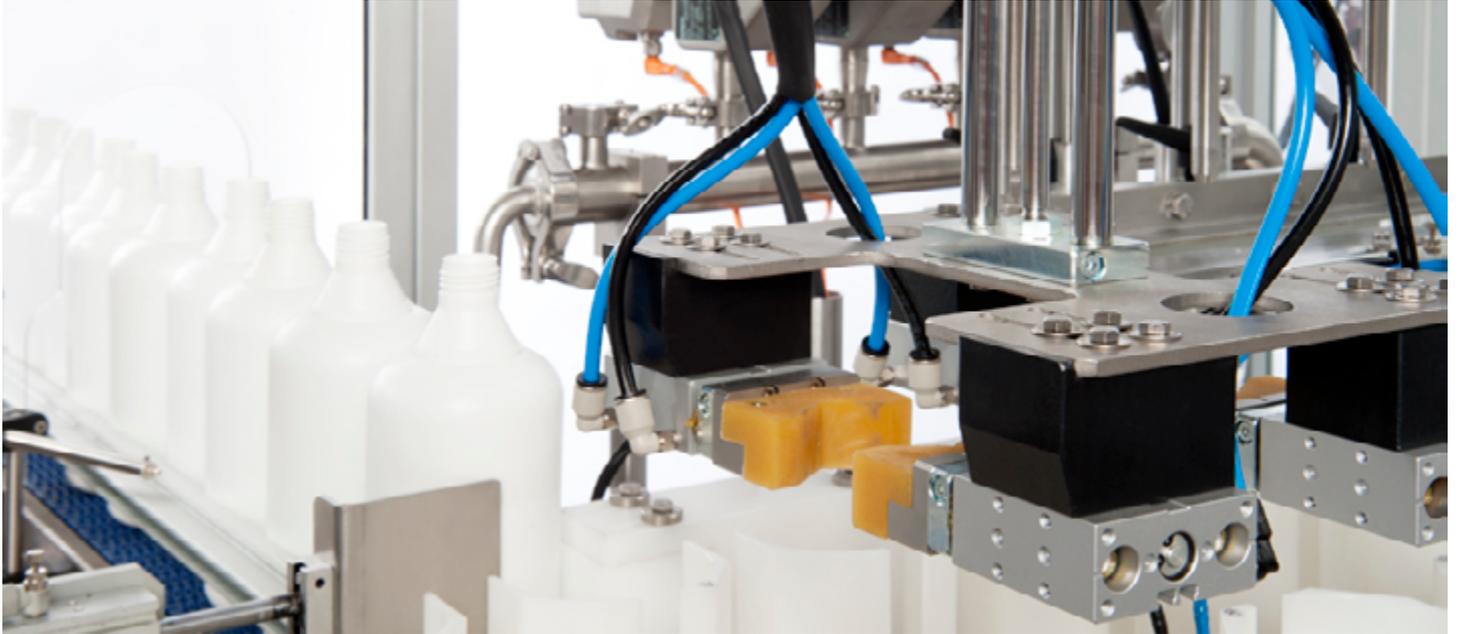
The Capfill is the most compact and fast filling machine for **extemporaneous caps**. A blockbuster in the portfolio of Tecnotrend, established on the proprietary developed dosing technology permits the handling of this special kind of caps for **high capacity needs**.

- + Full automatic continuous motion dosing machine
- + Powder system: dosing needles with powder compression
- + Piston goes down compressing the powder inside the needle on the tank bottom so to create a compact powder slug

Technical Data

- **Max mechanical speed** 500 pcs/min
- **Dosing Range** from 0,02 cc to 0,75 cc

Cosmetic



Our offering in the cosmetic field is dedicated to the manufacturing environments seeking flexible solutions which can enable fast format change between different products. Our range includes solutions for various containers such as soap bars, shampoo bottles, cream jars, deodorant sticks, and more.

Our state-of-the-art technology enables precise dosing and secure sealing, meeting the strict quality standards in handling specifically designed containers. Leveraging our extensive experience and continuous research and

development, we provide customized solutions to fulfill the unique needs of each customer.

In addition to technical excellence, we prioritize operational efficiency and user-friendliness in our machinery, thereby enhancing productivity and reducing material waste and time consumption. With a proven track record of excellence in the industry, we are the preferred partner for cosmetic companies seeking dependable and premium packaging solutions.



PERFUME

DROPPER

CREAM

SOAP

SHOWER GEL

DETERGENT

NAIL POLISH

1

COSMOFILL

 **COMAS**
 [Discover more](#)


An answer to manufacturers that need a **highly flexible machine** and to process unstable bottles or bottles with shapes that are difficult to process on traditional transport technologies.

- + Wide range of filling and format range
- + Different dosing systems to fill all kind of cosmetic products
- + Quick and easy change formats thanks to the new design of adjustable pucks

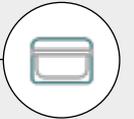
LIQUID AND SEMI-DENSE

- **Max mechanical speed** 50 pcs/min
- **Filling Range(ml)** 30-5000



HIGH VISCOSITY

- **Max mechanical speed** 40 pcs/min
- **Filling Range(ml)** 2-250



Diagnostic



We specialize in designing and manufacturing machinery for filling and capping diagnostic liquids. Our range includes solutions for various containers such as test tubes, sample vials, and blood collection tubes used in laboratory tests and blood diagnostics. Our machinery is meticulously engineered to ensure unparalleled accuracy and reliability in the diagnostic packaging process.

Equipped with cutting-edge technology, our machines enable precise dosing and secure sealing, meeting the rigorous quality and safety standards required in the

diagnostic industry. With our wealth of experience and continuous research and development efforts, we offer tailored solutions to meet the specific requirements of our clients.

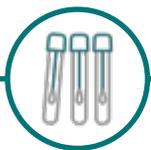
In addition to technical prowess, we prioritize operational efficiency and user-friendliness in our machinery, thus optimizing productivity and minimizing material wastage and processing time. With a solid reputation for excellence in the field, we are the preferred partner for diagnostic companies seeking robust and high-quality packaging solutions.



TEST TUBES



BLOOD SAMPLES



SWAB TUBES

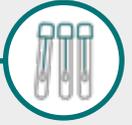
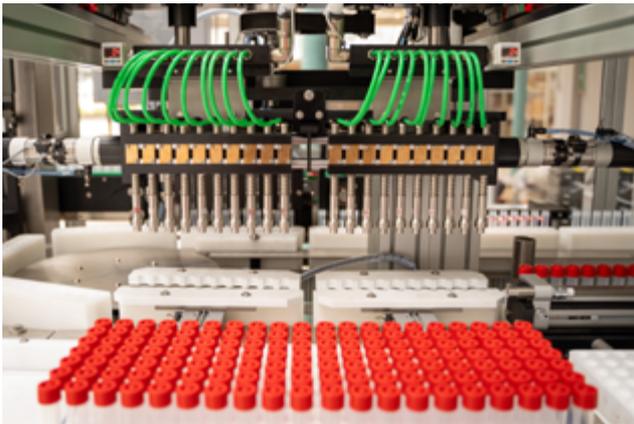


MICRO TUBES

SAFE LOOK
TUBESCUSTOM
APPLICATIONS

1

TESTUBE FILL


[Discover more](#)


Automatic filling and capping machine for **test tubes**.

- + High speed machine
- + It can be supplied the entire automatic line from the single container to the blister
- + It can be equipped with electronic control torque
- + All machine steps are controlled by camera vision systems

 Technical Data

- **Max mechanical speed** 240 pcs/min
- **Max diam (mm)** 16

2

CLOSED TESTUBE FILL


[Discover more](#)


Continuous motion **test tubes** line to be used for preparation swab **nasopharyngeal tests** and **testing viruses**.

- + Continuous filling unit
- + Suitable to handle closed test tube with / without swab
- + It can be supplied with laf
- + Integrated labelling machine
- + Camera vision system to check the entire process
- + Electronic control torque

 Technical Data

- **Max mechanical speed** 180 pcs/min
- **Max diam (mm)** 16

3

MICRO TESTUBE FILL



 **COMAS**

 [Discover more](#)



Automatic filling & capping machines
for micro test tubes.

- + Fully automatic line up to 300 tube per minute
- + Integrated labelling machine
- + Electronic control torque
- + It can be equipped with laf
- + Space -saving design
- + Continuous filling unit
- + Camera vision system to check the entire process

Technical Data

- **Max mechanical speed** 300 pcs/min
- **Filling Range(ml)*** 0.3-1

Assembly Automation



INDEXING ASSEMBLY MACHINE

- Adaptable to various product configuration
- Output 50-250 ppm depending on number of products handled at each station
- Up to 6 components



CONTINUOUS ASSEMBLING MACHINES

- Highest production speed up from 200 to 1200 ppm, depending on number of heads and kind of assembly



SPECIAL ASSEMBLING MACHINES

- This family of machines is dedicated to cover the highly customized application which special device requires in terms of assembly complexity and related controls
- Machine capacity is usually in a range between 50 at single track to 200ppm at multiple tracks

Auxiliary Technologies



In this section, we present a comprehensive range of auxiliary technologies developed by the esteemed companies within the Omnia Technologies Group, specifically tailored for our Life Sciences division.

Our portfolio includes both standard off-the-shelf technologies and bespoke, custom-designed solutions. Each technology undergoes a stringent Design Review process conducted by our dedicated Quality Assurance (QA) department. This process guarantees that every product not only meets but exceeds the qualification and validation procedures expected in the Life Sciences industry.

Furthermore, our QA team ensures that all supporting documentation is meticulously prepared and aligned with regulatory standards.

By integrating these auxiliary technologies, we aim to enhance the customer experience. Explore the following sections to discover the diverse range of auxiliary technologies that form an integral part of the Omnia Life Sciences offerings, each designed to uphold our legacy of quality, innovation, and customer satisfaction.



CIP | SIP

FEEDING
TECHNOLOGIES

LABELLING



PACKAGING

WATER
TREATMENT

1

CIP | SIP Skid



Sized on the application need, a vast variety of CIP/ SIP Skid are available as stand alone machine as well as integrated in our equipment as part of the Omnia Technologies Life Sciences offerings.

- + Conductivity meter
- + Peroxide dosing
- + Simultaneous operation with double or triple feeding line

2

FEEDING TECHNOLOGIES



Unscramblers, Vibrating Bowl, Gravity feeders, anything needed to feed primary containers, parts or caps is what constitutes Alfa3 technologies.

With a dedicated portfolio and specification for the Life Sciences industry we are able to assist in standard solutions as well as ad-hoc systems targeting the project need.



3

LABELLING



Zitalia

Linear or rotary labellers to serve pharma, cosmetic or diagnostics applications. Solutions include standalone machines as well as labelling heads integrated in line with the filler.

- + **Comby** or **Modular** version
- + Multiple labelling systems on same carousel



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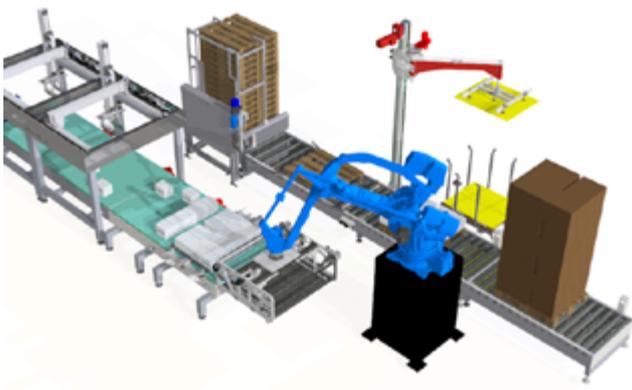
PACKAGING



APE
packaging & palletizing

Packaging - Top Loader Case Packing.

- + **Monoblock** machines
- + **Secondary packaging, depalletizers and palletizers**
- + **Modular** or **robotic** solutions
- + Various bottle formats
- + Solutions for lying bottles, cluster, baskets



5

WATER TREATMENT

**DELLA TOFFOLA**

- + Disinfection (Chlorine / Ozone)
- + Sand / Charcoal filtration
- + Resin softening
- + **Chemical / physical treatments**
- + **Aerobic biological treatments**
- + **Anaerobic biological treatments**
- + Sludge dewatering



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