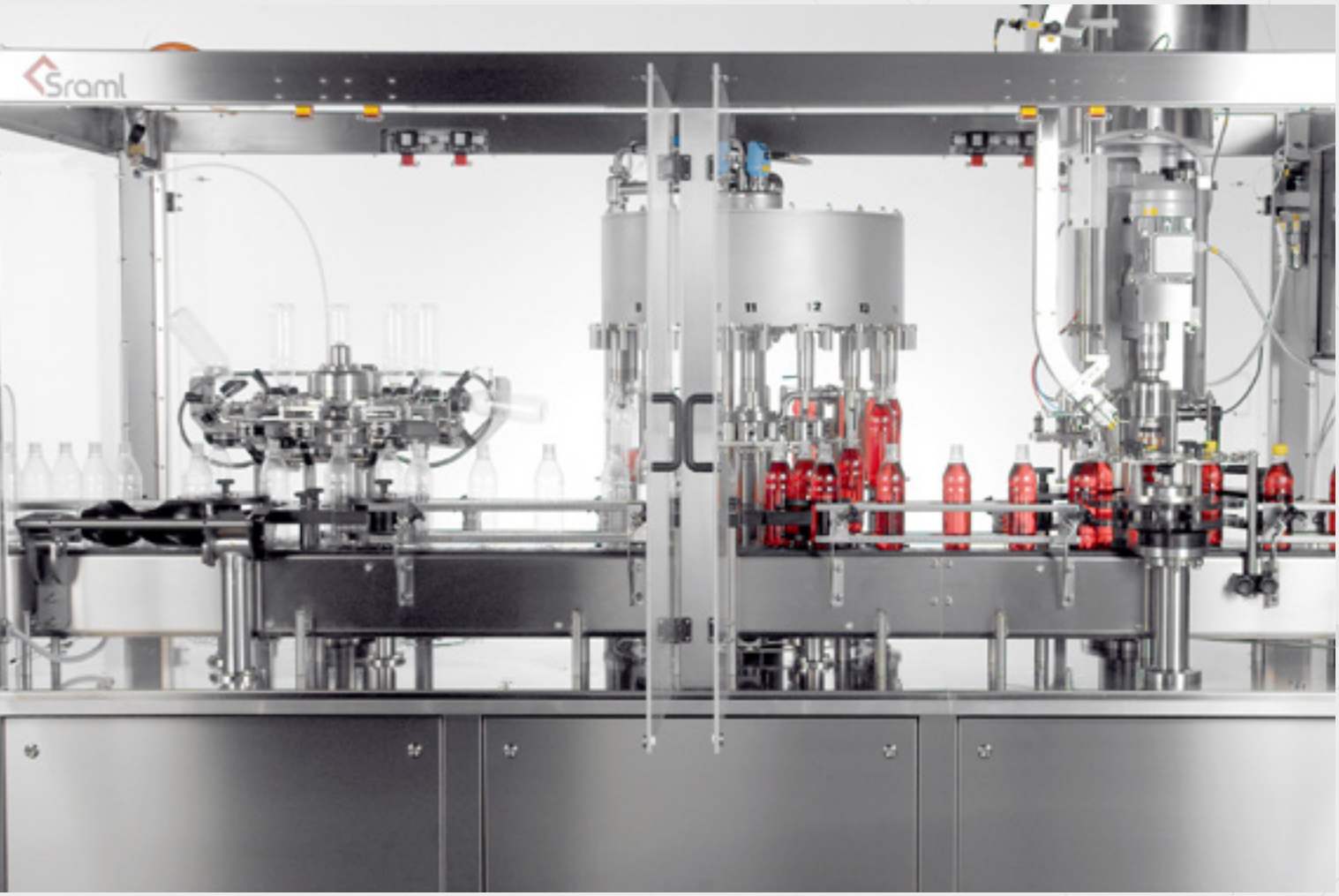
# SRAML BOTTLING
# MONOBLOCKS SYSTEMS

**SRAML bottling monoblock is a winning set of automated machines combined in one unit to perform optimal rinsing, filling and capping, whether you are handling glass, plastic bottles or aluminium cans.**




**Designed to execute different tasks in the bottling process while forming part of the same block, a monoblock system has several advantages compared to individual, stand-alone machines connected by conveyor belts since it requires less space and personnel, optimises energy consumption, and enables perfect synchronization between units.**

With a variety of customization options and upgrades available, SRAML monoblocks features quick and easy bottle format changeover and high flexibility, even when working with different bottle shapes or closure types. They take the filling of liquid products such as wine, water, fruit juices and nectars, milk, spirits, beer, cider, oils and yoghurt into different containers to the next level.

**The integral CIP** system allows fast and thorough cleaning afterwards to comply with the highest food-safety standards. The work process is managed automatically, by means of advanced software, which is displayed and controlled on a touchscreen panel with user-friendly interface. Remote access can be included with the PLC. Programmer can remotely access to the software, in case of troubleshooting or updates.

# SRAML Food Processing Equipment Specialists

**WHAT MAKES US DIFFERENT?**
25 years of dedication have enabled us to deliver cutting edge fruit & vegetable processing equipment, ranging from winemaking equipment and juice machinery to automatic filling and bottling lines, for your products to achieve premium excellence. Our in-house design & development expert team are highly innovative and flexible which enables us to develop customized solutions in the service of your specific needs and requirements.

End-to-end integrated solutions. SRAML fully comprehensive solutions cover the entire wine, juice, and cider production process — from the produce being harvested all the way to its bottling.

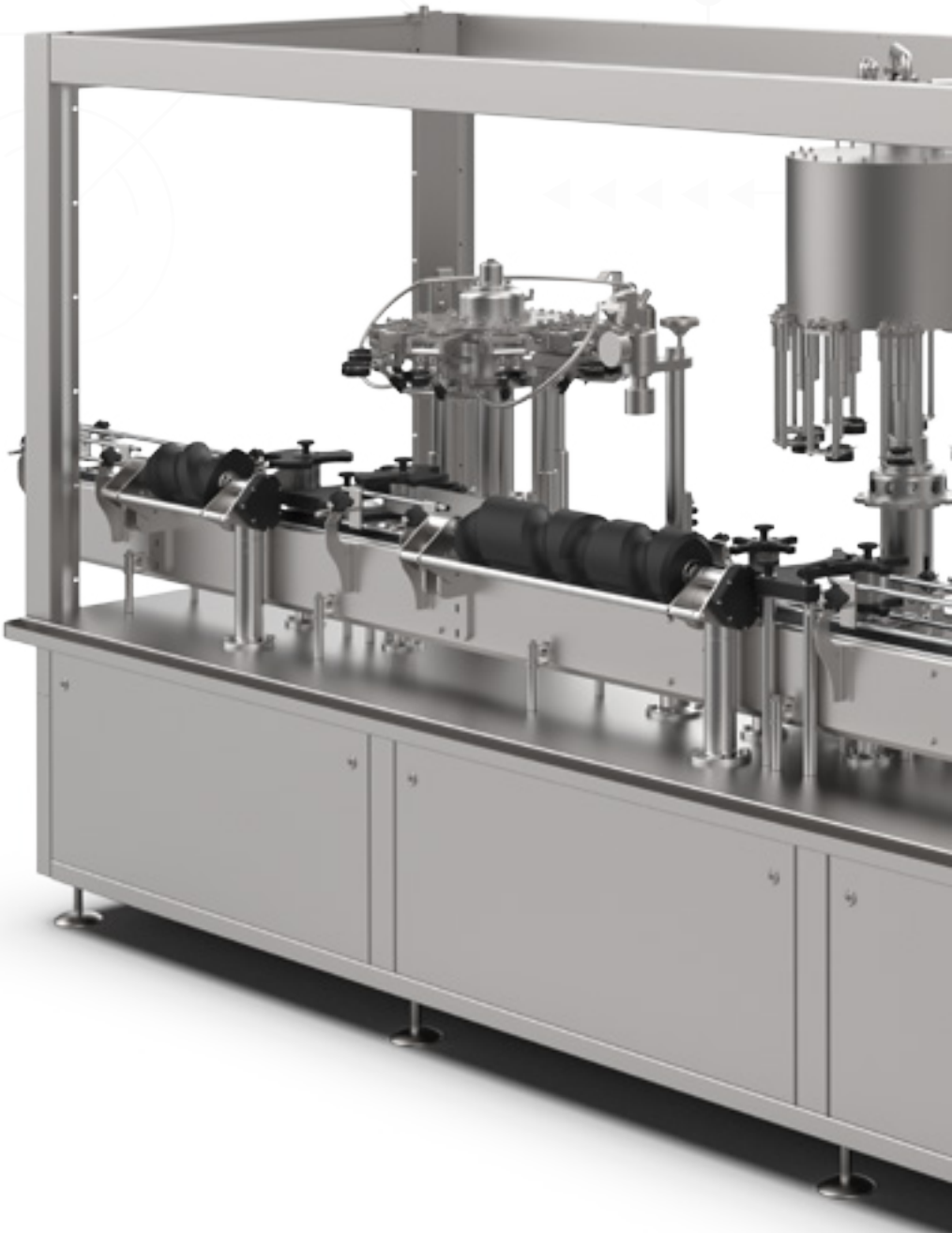
Sraml
processing machinery

Podnanos 66b
SI-5272 Podnanos
Slovenia

**E info@sraml.com**
**T +386 5 368 6116**

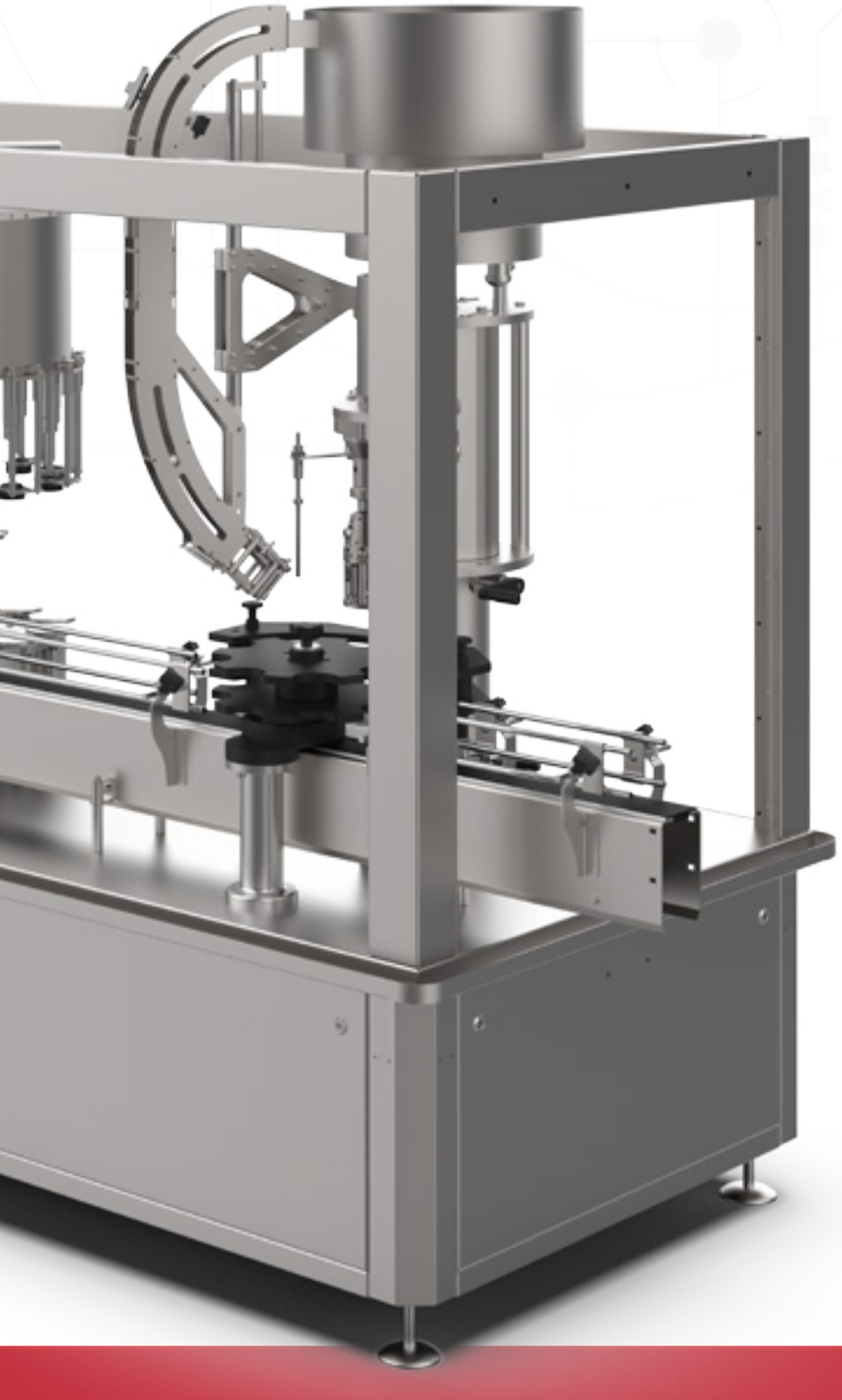
**www.sraml.com**

**SCAN TO WATCH**



# Do it your way

**Bottling systems as versatile as you!**



- **Development of highly efficient turn-key bottling systems** to provide ultimate product quality and excellent production performance.
- **Development of custom solutions** on the existing bottling lines and individual (modular) units to increase production, enhance quality.
- **Delivering an efficient, personal service** built around your specific requirements in liquid filling machines to suit your production.

Sraml
processing machinery

Sraml
processing machinery

# **The new generation** of filling and packaging technology!

Filled into bottles, cans, or bag-in-box containers, SRAML complete filling and packaging technology is the answer to the final processing stage at which smooth and secure product packaging is key. SRAML filling machines are designed to bottle wine, juice and syrup, cider, beer, spirits, oil, and to safely pack dairy, non-food, and other products in line, with one's requirements.

The SRAML filling and packaging equipment enables every customer to successfully overcome their production challenges, allowing them to select from our complete lines or individual machine units, specific to their end product and business needs.

**OUTSTANDING CUSTOMER EXPERIENCE**

We are here for you every step of the way, providing you with a complete customer support ranging from solution planning, engineering, and consulting to after-sales service.

www.sraml.com

SRAML BOTTLING SYSTEM

# RINSERS UNIT

**With multiple rinsing stations, the SRAML rotary rinsers provide a continuous rinse/ blow of multiple glass or plastic bottles on the inside in one go, freeing them of dust particles and other residues for a care-free filling process and premium-quality product.**

**To ensure the containers start the filling process in perfect condition, SRAML rinsers remove any possible conatamination while barely leaving a trace themselves.**

Multi station rotary rinsers are continues type rinsers, suitable for rinsing or blowing the inside of the container. The rinsing stations are placed on a rotating carousel, allowing rinsing of multiple bottles at the same time in continues motion. They consist of a self-locking bottle gripper, which grabs the bottle by the neck and holds it through all process. The bottles are turned upside-down by means of a twist cam device that ensures their correct positioning over the rinsing nozzles. The medium injection nozzle can be fixed, or mobile, which will penetrate the bottle neck for better rinsing effect. Double treatment rinser are used for rinsing of the bottles where rinsing is needed to be done in two steps, with two different mediums. Rinsing medium can be with water (tap water, filtrated, hot, with additives), product or air. We offer different applications for rinsing medium treatment before being injected, or recycling units for medium reuse. Rinser is equipped with no bottle no spray system, the rinsing medium is not injected, if the bottle is not present. Rinser height adjustment is powered by electric motor, for simple and fast height adjustment, even in operation. All the components' motions are cam operated, allowing repeatability of the process on all the bottles.

## ENHANCE YOUR BOTTLING PROCESS

**TUNNEL COOLERS OR PASTEURIZERS.**
The cooling tunnel is used to cool the product inside of hot filled containers. The bottles are cooled, by being sprayed with water, while being transported through the tunnel. Tunnel pasteurizers are suitable for heat treatment of already packed beverages. Tunnel is divided to the series of thermal zones, along which bottles pass on conveying system.

**PRODUCT PRE-TREATMENT**
Product blending tanks, flash pasteurizers, carbonization, filtration etc.

**BOTTLE LABELING, OR SLEEVING**.
Sraml offers machinery for marking of the end container with labels, shrink sleeves or shrink capsules.

**BOTTLE TILTER – CAP STERILIZER.**
The bottle tilter is designed to tip the hot filled bottles on the side, to allow the hot product contact with the bottle cap and neck, in order to sterilize it.

**BOTTLE DRYERS.**
The bottle dryer is designed for outside drying of the containers.

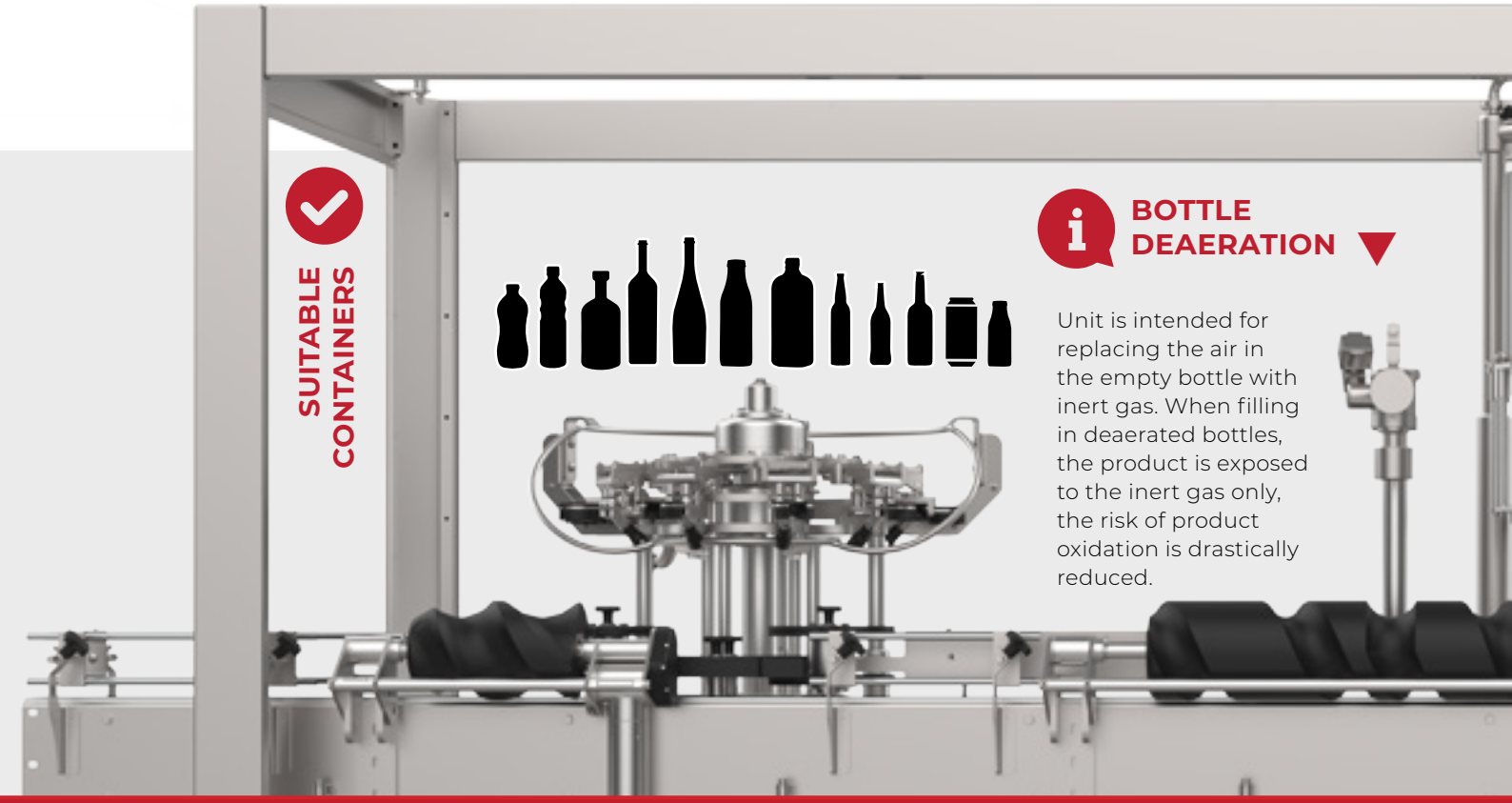
# SRAML BOTTLING SYSTEM

# FILLER UNIT

**SRAML automatic bottle filling machines have proven superior in filling applications, and following the latest trends in the filling, which offers the most advanced filling technology, adapted to different product, making sure that the right filling approach is applied for your product.**

**We offer filling of products from non-viscous to high viscosity, and from still to sparkling, into plastic bottles, glass bottles or aluminum cans. Special attention is added in the design of integral CIP systems, allows fast and thorough cleaning afterwards to comply with the highest food-safety standards.**

**Gravity / low-vacuum fillers** are suitable for filling still, liquid, and non-viscous products. Filler consists of a closed bowl with set of filling valves and bottle lifting pistons. The pistons are lifting the bottles to connect them with filling valve in a close system. The product is being poured from the bowl into the bottle by gravity. A low vacuum in the filler bowl can be used, to speed up the starting of the pouring process. Thanks to our special design of the filling valves, liquid is gently poured on the side of the bottle, minimizing the product agitation.



**Direct vacuum fillers** are suitable for filling of still liquid product with medium viscosity. Filler consists of a bowl with set of filling valves, which venting pipes are connected to the vacuum unit. When bottle is connected to the filling valve, the vacuum is constantly pulling the air out of it and forcing the product to be poured from the bowl in the bottle. Thanks to our special design of the filling valves, liquid is gently poured on the side of the bottle, minimizing the product agitation.

**Counter-Pressure (Isobaric) Fillers** are designed for filling carbonated products in bottles or cans. Filler consists of a pressure bowl, with set of special filling valves, which will perform following sequence of different filling steps for individual bottle: deaeration with vacuum and CO2 gas (double); bottle pressurizing; product filling; pressure releasing(snift). The fillers are mechanical type, where the individual filling steps are mechanical operated with cams.

**Electronic Volumetric Fillers** are suitable for filling still liquid and viscous products, where high level of filling accuracy and hygiene is needed. Each fill position is equipped with flow meter and two speed diaphragm valve, which precisely determines fill quantity of every bottle. Filling is contactless, provides no bottle contact with the filling valve, which could left product on the bottle neck. Product is filled in turbulence-free stream, which offers smooth filling process, is gentle on the product, prevents foaming, and no product spray on the bottle.

SRAML BOTTLING SYSTEM

# CLOSERS AND CAPPERS

**SRAML automatic line of bottle closers and cappers is the result of the specific know-how of our experts who can supply the right capping machinery and bottling equipment for any application and production speed.**

Available in single-head and multi-head arrangement, SRAML provides you with both a stand-alone bottle capping machine or bottle capper integrated into a monoblock, as well as a complete line of automatic bottle corking and capping machines for:

**Straight or champagne cork:** suitable for the application of the straight or champagne cork on glass bottles. Corks are being slowly compressed and rapidly inserted in the bottle, to minimally effect on natural elasticity of the cork.

**Aluminium screw caps:** suitable for the application of the non-threaded aluminum screw caps on glass or PET bottles. The caps are picked by the bottles and its application is done by special sealing head, which roles the shape of the thread and pilfer grove from the bottle neck finish to the cap

**Crown caps:** suitable for the application of the crown caps on glass or aluminum bottles. The cap is applied by deforming it with the help of closing cone, so the cap will clamp the bottle neck. Addition applications for bidule insertions is possible before crown capping.

**Twist-off caps:** suitable for the application of the twist-off lug caps on glass bottles. Caps are picked by the bottles and tightened with the capping head to the desired torque. Capping is done in steam environment, steaming the cap and bottle neck, steam in the bottle neck which will positively affect the vacuum inside the bottle.

**Pre-threaded caps:** suitable for the application of the pre-treated caps on glass or plastic bottles. Application is done by picking the cap from the feeding mechanism, with the capping head chuck, placing and screwing it on the bottle with desired torque, called pick and place method.

**T-cap:** suitable for the application of the press-on T-corks on glass bottles. The bottles are capped with pick and place method, caps are picked with the capping head from the feeding mechanism and inserted in the bottle. The caps are hold in the capping head with the vacuum, so they cannot be damaged.

**Can Seamer:** suitable for the application and seaming of lids on aluminum cans or PET cans. The can will directly pick the lid and being transported under the spinning chuck, where is being lifted and spun. Two sets of rollers will seam the lid on the can in two step process.