

JUICES, TEAS & SPORTS DRINKS

HOT FILL

COMPLETE LINE
SOLUTION



*Performance
through
Understanding*



GIVE YOUR PRODUCT THE PACKAGING IT DESERVES

DESIGN WITHOUT LIMITS

The popularity of PET Hot Fill continues to rise – and with good reason. Sidel leads this development with a complete Hot Fill solution that expands packaging opportunities.

Take advantage of market growth

The consumption of sensitive drinks such as juices, nectars, still drinks, isotonic and teas is growing at a rate of 6% annually. This trend presents significant business development opportunities for beverage producers worldwide.

Achieve safe ambient distribution

Packaging for ambient distribution is an attractive method for extending the shelf life of beverages. Hot filling and aseptic production methods both ensure the health and safety of these beverages. Whichever you choose, Sidel can provide you with a complete cost-efficient and sustainable packaging solution. This brochure concentrates on hot filling, but if you are interested in our aseptic solutions, please contact us or visit sidel.com/aseptic.

The hot filling process

The hot filling process begins by safely sterilising the beverage itself, followed by the bottle and the cap once the bottle is filled, capped and tilted. The temperature required for this heating process is as high as 80 to 92 °C, which is above the normal thermal resistance of conventional PET bottles.

Maximise opportunities with Sidel

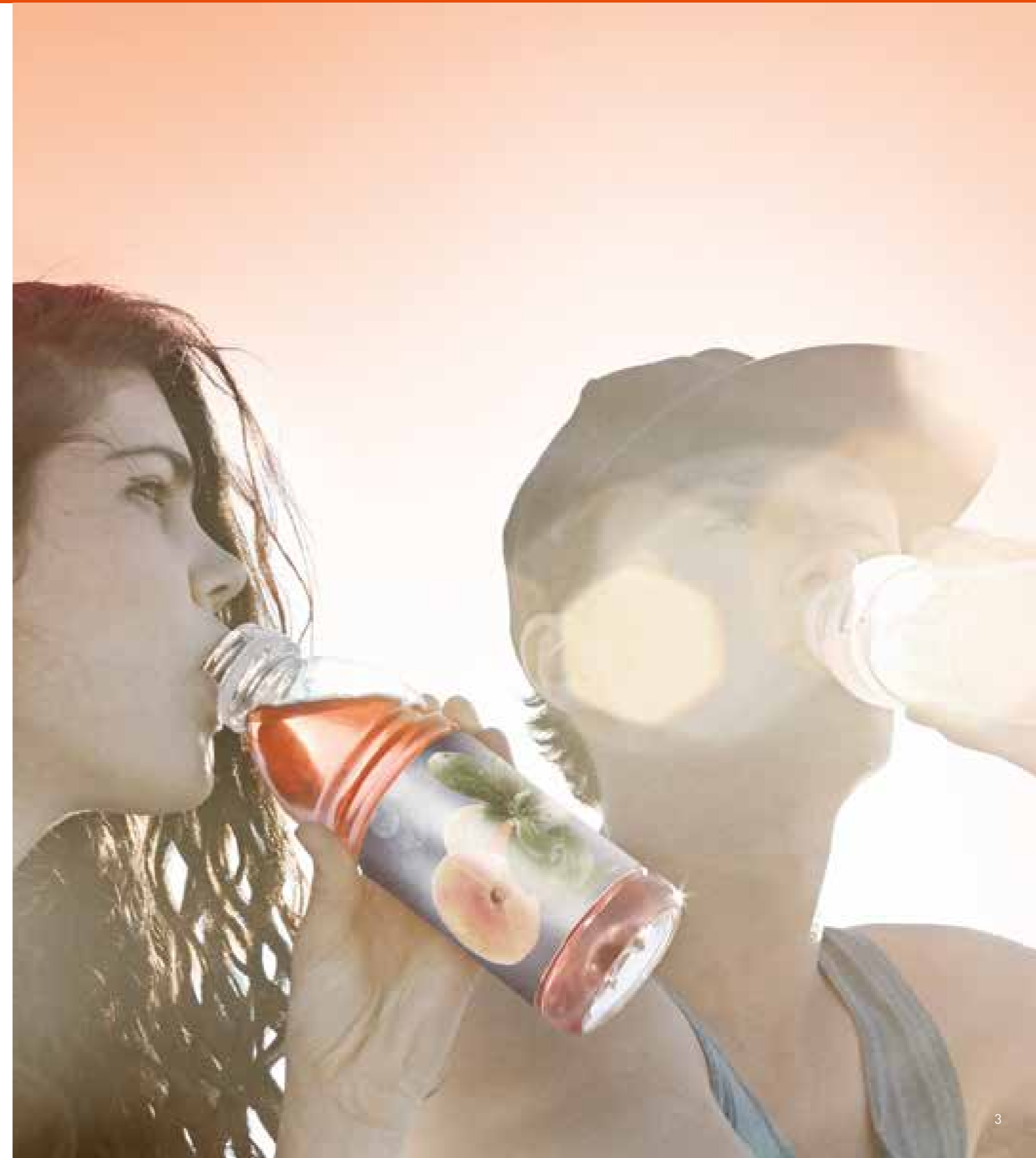
The complete Hot Fill solution provides you with full control and transparency throughout the process. Together, we develop and deliver the best possible packaging and equipment for your production. We also support you with ongoing services to ensure you meet changing customer needs and market requirements.

45 years of hot filling experience

You can benefit from over 45 years of hot filling experience and innovative technological developments. In 1986, Sidel pioneered the PET heat-resistant stretch blow moulding process, also referred to as HR or Heat Set, to allow PET bottles to withstand hot filling temperatures. Over the years, we have significantly reduced the weight of HR bottles while retaining their durability and increasing design opportunities.

In addition to our strong packaging capabilities, we innovate across the full Hot Fill line. We have recently introduced an electrical heat-resistant blower, which increases blowing performance and reduces energy and air consumption up to 45%, compared to oil mould heating. In the following pages, you can read more about our complete Hot Fill solution, including our packaging capabilities, equipment advantages and customised services. Together, our complete line solution optimises production today and enhances performance into the future.

With Sidel you can take advantage of new technologies and innovations without the need to fully replace your line.



6%↑

ANNUAL GROWTH IN JNSDIT*

(*juices, nectars, soft drinks, isotonic, teas)

GAIN CONTROL EVERY STEP OF THE WAY



ONE PARTNER FOR ALL YOUR NEEDS

A fully connected line lets you optimise performance and make more informed decisions across the lifetime of your line. Our flexible approach to complete line design is dedicated to meeting all of your hot filling needs. Wide-ranging expertise, equipment and on-going services help you along the entire process, from packaging to fast ramp-up and beyond. Partnering with Sidel gives you the benefit of having everything centred around one supplier.

A lifelong partner

By taking a holistic view of the production cycle and line performance, we help you optimise uptime and operating costs. We give you a customised complete solution by

combining our engineering and PET packaging expertise with our most advanced technical solutions and tailored services. The fully integrated solutions employ the processing equipment and capabilities from Tetra Pak Processing Systems. With our tailored services you can maintain, regain and even improve performance throughout your line's lifetime.

Taking care of your beverage recipe

Careful packaging design and detailed equipment planning is needed to develop a line that will optimise performance every step of the way. At Sidel, we work alongside you to manage the process before, during and after the line



HEAT-RESISTANT PET PACKAGING
Pages 6-7



SIDEL SERVICES
Pages 26-27

handover so you can continue focusing on what matters most – your final product.

Advantages of Sidel's experience and innovations

With 45 years of experience in hot filling and more than 1,000 proven Sidel Hot Fill solutions worldwide, our expertise and latest innovations provide you with:

- Total PET bottle shape and design freedom
- The most lightweight HR bottles
- Safe and consistent production
- Increased production flexibility and efficiency
- Minimised resource and energy consumption

1,000+
PROVEN PIECES OF EQUIPMENT WORLDWIDE

45 YEARS
OF HOT FILLING EXPERIENCE

INCREASE THE VALUE OF YOUR PET HOT FILLED BEVERAGE

PIONEERS IN HEAT-RESISTANT PET PACKAGING

More than 30 years ago, Sidel pioneered the heat-resistant (HR) technology for PET bottles. Today, Sidel's unmatched expertise in packaging helps you achieve more – right from the beginning.

HR PET bottles resist hot filling temperatures

These bottles are produced via a heat-resistant stretch blow moulding process that has very specific bottle manufacturing requirements. One of these is the traditional design, featuring vacuum panels that are used to absorb the volume variations between hot and cold conditions.

The HR process minimises PET stress during the blow-moulding phase. The bottle is blown in a hot mould, stabilising and minimising the amorphous phase and making it more heat resistant.

A full packaging approach

To achieve top quality HR PET bottles, Sidel delivers a complete packaging approach – from preform and packaging design all the way to production and ongoing optimisation:

- Preforms are created with specific material properties such as bi-orientation ratio and thickness
- Innovative bottles are designed based on customer specifications regarding shape, structure and material distribution combined with proven Sidel technical features in the waist, ribs and base to accommodate the volume variations that bottles undergo during and after filling
- High PET crystallinity is achieved through a precise preform heating process

- High processing capabilities from Sidel ensure perfect stretching, precise pre-blowing and rapid pressure rise
- Sidel helps establish production consistency through efficient mould heating, innovative blowing technologies, reliable regulation and accurate material distribution

Staying ahead with innovative developments

As the world's leading provider of PET solutions for liquid packaging, we continuously invest and innovate, combining aesthetics with technical expertise to deliver differentiating and cost-effective solutions. These include solutions that make it possible to create HR bottles without panels. This increases bottle shape design possibilities by using vacuum ribs or bases and lightweight heat-set packaging.

The new Inverted Bottle Base (IBB) technology revolutionises hot filling and provides new opportunities for lightweighting and design freedom. This technology will eliminate the need for panels on HR PET bottles. Sidel's new packaging innovations will be easy to implement into existing Sidel equipment new or existing Sidel Matrix™ hot filling lines, lines equipped with the Sidel SBO Universal blower range and any labeller type.



TRIANGULAR™

Triangular in shape, this bottle features three vacuum panels to accommodate tight grasping and make it easily squeezable.

- Weight: 24 g
- Neck finish: 28 mm
- Up to 1,500 b/h/m*
- Online filling at 90 °C



SKYWARD™

Lightweight bottle mixes cylindrical and square surfaces to shape four panels. Its silhouette is enhanced with an elegant belt.

- Weight: 20 g
- Neck finish: 28 mm
- Up to 1,800 b/h/m*
- Online filling at 90 °C



PANELLESS™

Designed without any panels, the innovative body ribs and base act like a membrane that absorbs the vacuum and improves bottle performance.

- Bottle weight: 35 g (20 oz)
- Neck finish : 43 mm
- Up to 1,200 b/h/m*
- Online filling at 90 °C



CURVY™

Innovative, lightweight bottle with panels integrated into the bottle's design using curves, spirals and a twisted back that make it easy to hold.

- Weight: 19 g
- Neck finish: 28 mm
- Up to 1,800 b/h/m*
- Online filling at 85 °C



FREESHAPE™

The first PET bottle suitable for both Hot Fill and aseptic packaging of sensitive beverages. Its premium glass-like shape is made possible by its patented bottle base profile that absorbs vacuum.

- Weight: 28 g
- Neck finish: 38 mm
- Up to 1,500 b/h/m*
- Online filling at 85 °C



GRINGO™

Innovative shape with panels integrated in the design and a belt for easy handling.

- Weight: 20 g
- Neck finish: 28 mm
- Up to 1,800 b/h/m*
- Online filling at 85 °C

 **30 years**
of expertise
working with PET

* bottles per hour per mould

INCREASE HR BLOWING PERFORMANCE

HIGH QUALITY ELECTRICAL MOULD HEATING

The latest model for HR bottles adds yet another innovative dimension to the Sidel Hot Fill line. By using electricity rather than oil to heat the mould, the Sidel Matrix eHR blower increases bottle consistency and energy savings while enhancing operator safety, production flexibility and uptime.

The very best HR bottle quality

The eHR blowing process is very reactive. As the temperature probes are located directly in each mould shell, they regulate the temperature closest to the bottle. The temperature increases three times faster than traditional HR mould heating. The correct set point is reached immediately and the blowing process is uniform between stations, ensuring high quality from the very first bottle.

The Sidel Matrix Ecoven provides optimal heating regulation and temperature gradient within the preform wall using ventilation. Electrical stretching during blowing ensures consistency and reliability.

Excellent energy savings

Consumption is significantly reduced due to the proven Sidel Matrix blower technology and latest heat-resistant innovations:

- 45% electrical consumption reduction by combining the eHR heating process on moulds with water heating for the base
- 25% energy reduction using Sidel Matrix Ecoven with infrared lamps and ceramic technology to increase heating power rather than metal reflectors
- Up to 45% air consumption reduction by integrating the AirEco2 air recovery option during the two air-recirculation steps

Optimal hygiene and safety

The eHR blower is as clean as equipment used for water production. With no need for oil, the risks of oil projection, leakage and sliding are eliminated. Insulation ensures heat is contained within the mould without affecting the mould support. There is also improved operator safety, as parts that could come into contact with operators are at a lower temperature. Its hygienic design with the electrical stretching system eliminates the need for grease above the bottle neck and simplifies maintenance. Food safety is ensured with the Ecoven's ventilation with air filtration.

Better performance and flexibility

Electrical mould heating reaches temperature stability far quicker than a conventional heating process and significantly improves production performance:

- Increases temperature three times faster compared to oil heating
- Allows extended process capabilities and full control of all heating and blowing parameters with the Human Machine Interface
- Simplifies fast changeovers for bottle sizes and shapes using adjustable electrical stretching speeds

UP TO **45%**
ENERGY CONSUMPTION
REDUCTION



UP TO **45%**
AIR CONSUMPTION
REDUCTION

2,000
BOTTLES PER HOUR
PER MOULD

FACTS AND FIGURES

THE EHR PROCESS

Control and quality are improved with the optimised electrical heating process

- Four electrical resistances are located in each half shell of the mould
- Electrical power distributes heating on top, medium and lower bottle areas
- One probe for temperature control and self-regulation is located in each half shell
- Setting temperature is applied directly to each half shell by decentralised control units
- Only the mould is heated, as thermal insulation ensures no direct contact between shell holder and the mould

RANGE OVERVIEW

Blower model	Output rate**
SBO 6	12,000
SBO 8	16,000
SBO 10	20,000
SBO 12	24,000
SBO 14	28,000
SBO 16	32,000
SBO 18	36,000
SBO 20	40,000
SBO 22	44,000
SBO 24	48,000
SBO 26*	52,000
SBO 28*	56,000

* for bottle diameter up to 112 mm

** bottles per hour – maximum mechanical output rate, according to the bottle's features



HR BOTTLE SPECIFICATIONS

Maximum bottle volume dependent on bottle design	2 L
Maximum bottle height under neck	300 mm
Maximum overall diameter with adjustable mould panels	115 mm
Maximum overall diameter without adjustable mould panels	120 mm

The eHR blower shares many similarities with the standard configuration of Sidel Matrix™ blowing architecture and benefits from its proven technologies.



The Sidel Matrix eHR blower is as clean as equipment used for water production.



Electrical heating is located in each of the half shells and uses a probe located as close to the bottle as possible to control and regulate temperature during formation.



OPTIMISE THE HOT FILLING PROCESS

HYGIENIC DESIGN AND OPERATIONAL RELIABILITY

For even more configuration possibilities, the Sidel Matrix™ hot filler – SF700 offers the highest standards of hygiene and operational reliability during filling. This ensures it can meet the production demands of fresh, sensitive and natural beverages.

Excellent flexibility

The filler can be used for a variety of beverages and formats to match your production needs:

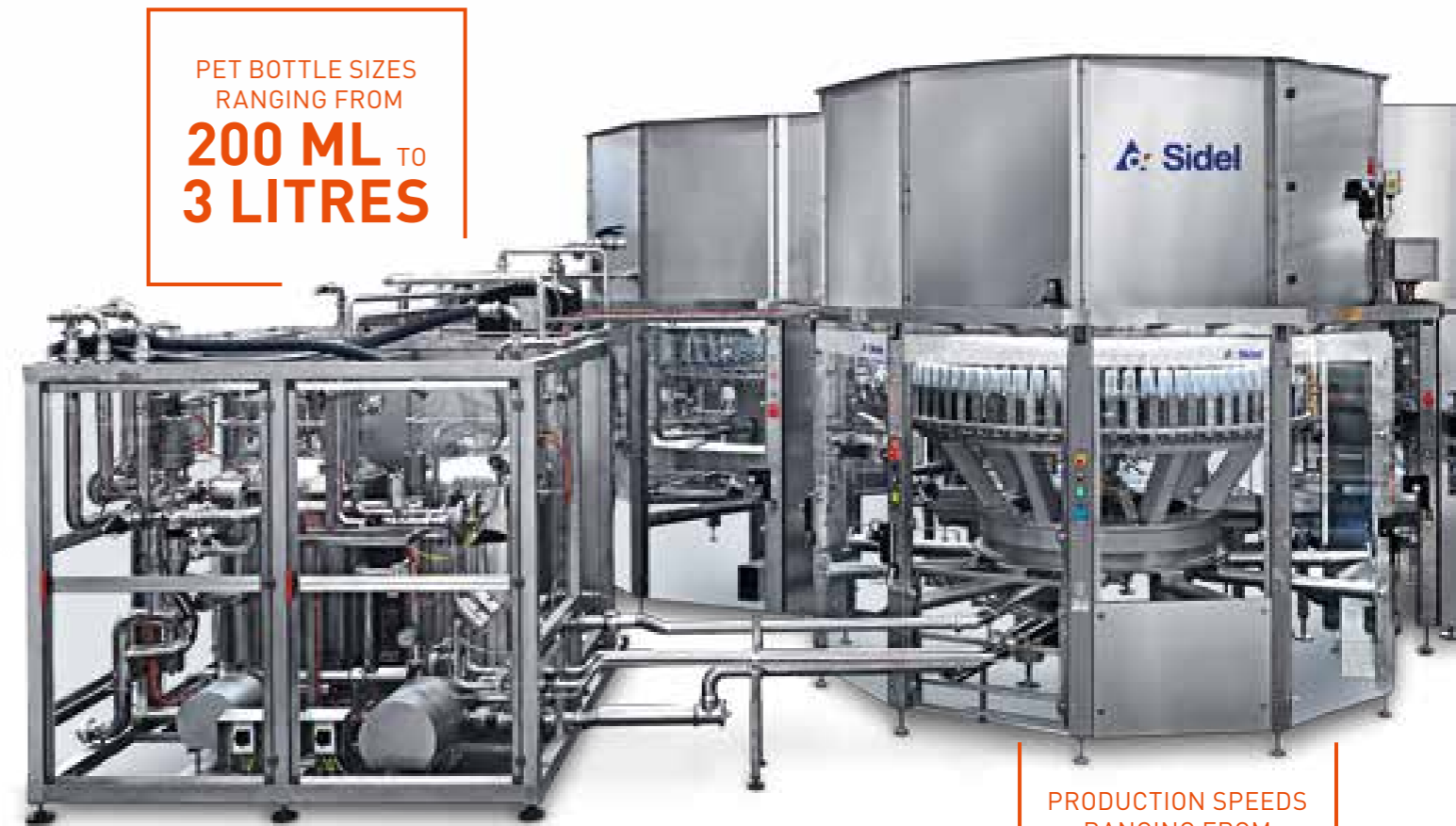
- Handles beverages such as teas, isotonic, juices, with or without pulps or particles (up to 10 x 10 x 10 mm)
- Can fill hot or cold beverages
- Suitable for PET bottle sizes ranging from 200 ml to 3 litres
- Multiple bottle neck changeover possibilities
- Operates at production rates ranging from 6,000 to 60,000 bottles per hour

Accurate filling process

The Sidel Matrix hot filler features electronic filling valves equipped with individual flow meters that ensure precise filling volumes while minimising product wastage. The flow rate from the tank to the filling valve can be easily controlled without any stress on the product, as any turbulence remains in the tank. Dual-speed filling eliminates foam generation while dual-stream dosing ensures that pulp or particles are delivered accurately and consistently.

Enhanced food safety

The design of Sidel Matrix hot filler and its contactless filling valves optimises product safety throughout the packaging process. All components coming into contact with the product are made from stainless steel 316L. To avoid contamination, there is no contact between the filling valve and the bottle neck. The fluid speed in the filling valves is monitored during cleaning to ensure more than 1.5 metres per second, while recirculation flow monitoring keeps the temperature in each filling valve under control. The product circuit is equipped with a sanitary valve, making cleaning easier and faster while ensuring food safety.



PET BOTTLE SIZES
RANGING FROM
**200 ML TO
3 LITRES**

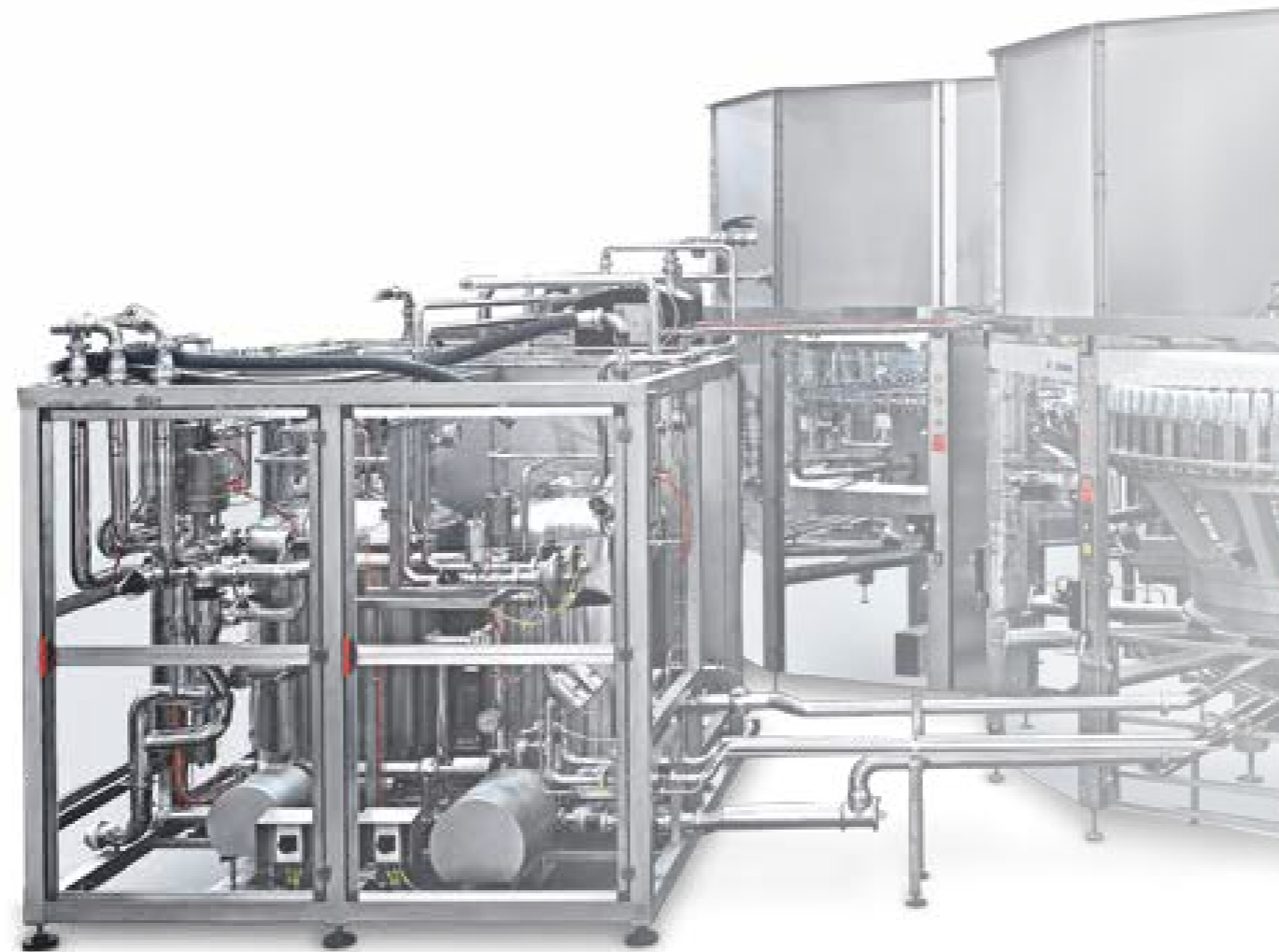
PRODUCTION SPEEDS
RANGING FROM
**6,000 TO
60,000**
BOTTLES PER HOUR

FACTS AND FIGURES

THE HOT FILLING PROCESS

The Sidel Matrix hot filler SF700 meets high safety and quality production standards for any beverage type.

- The product supply tank is located outside the filling carousel. This acts as a buffer and allows changes in flow rate without placing stress on the filling valve or the beverage.
- From this external product tank, the product is delivered by a pump to a product distributor ring situated on the top of the carousel. This remains full of product and places constant pressure on the filling valve.
- The electronic filling valve equipped with individual flow-meter determines the filling volume.
- No contact between bottle and filling valve avoids cross contamination.
- Dual-speed filling avoids generation of foam.
- Low product recirculation allows keeping high beverage quality.



RANGE OVERVIEW

Number of filling valves	Mechanical output*		
	500 ml	1 L	2 L
40	24,000	14,000	8,000
60	36,000	24,000	14,000
90	60,000	40,000	20,000

* bottles per hour

Automatic dummy bottles allow the cleaning loop of all parts in contact with the beverage, all made from stainless steel 316L.



Sidel

With its small diameter, the annular tank on board the filling carousel allows for easy and efficient cleaning.



The filling environment can be tailored with a reduced enclosure to improve the level of hygiene when required.



IMPROVE EFFICIENCY WITH AN INTEGRATED SOLUTION

COMPACT AND FLEXIBLE PRODUCTION SETUP

The Sidel Matrix Combi Hot Fill is an integrated blow-fill-cap solution that produces hot filled beverages in PET bottles in one single enclosure. It incorporates the very best of our modular Sidel Matrix eHR blower and SF700 filler together with the advantages of the standard Combi configuration.

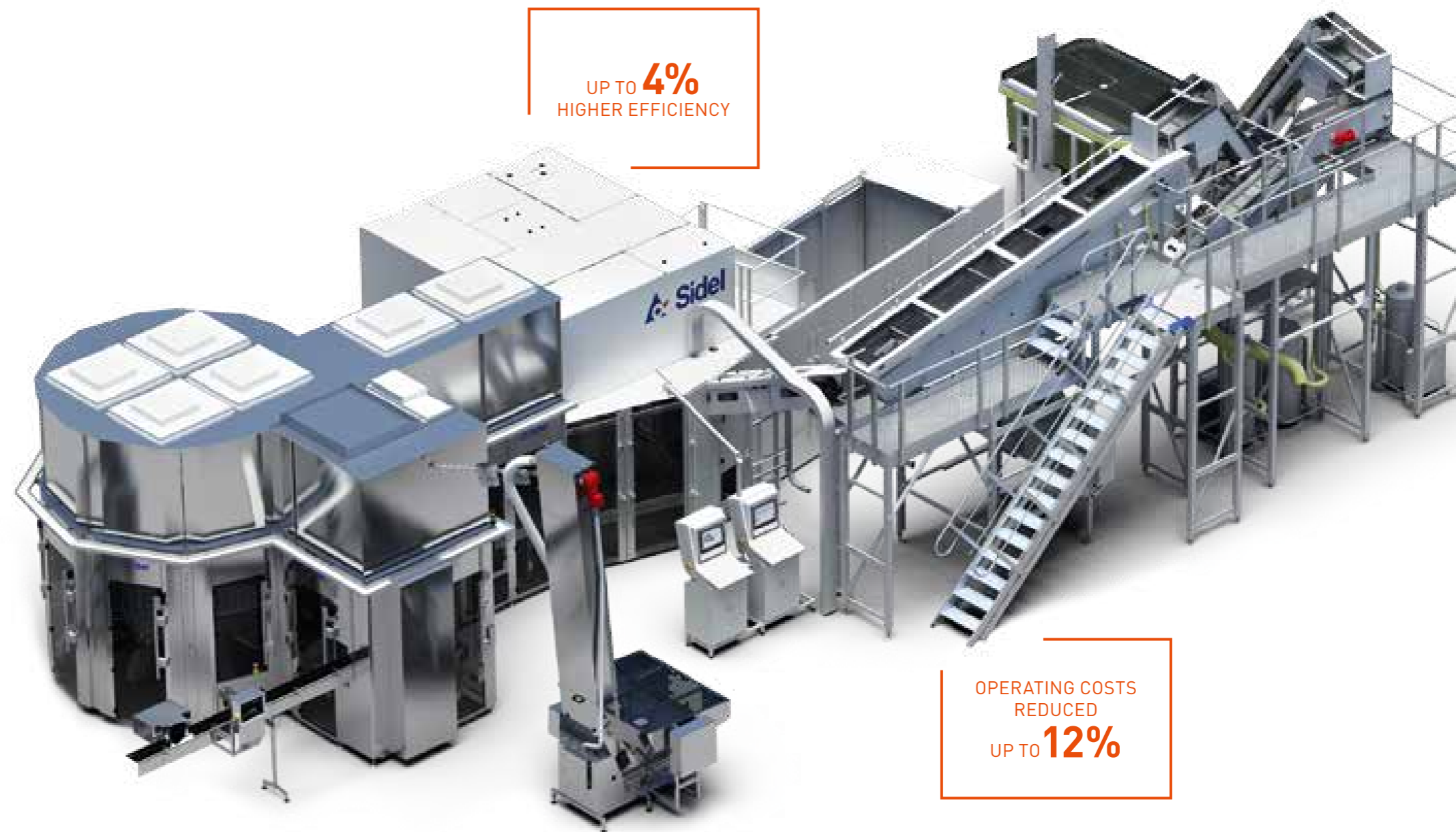
Flexible and hygienic

This flexible solution offers an extensive range of configurations. Elimination of conveying, empty bottle handling, accumulation and storage optimises the design and efficiency of the line layout, making it more compact and ergonomic. The controlled production environment maintains hygiene and ensures food safety.

Efficient and cost-saving

Combi systems offer high performance with efficiency levels up to 4% higher than standalone machines. As the number of machines is reduced, the Combi cuts operating costs by up to 12%, offering faster format changeovers, lower energy consumption and savings in labour, raw materials and spare parts.

The Sidel Matrix Combi Hot Fill enables greater HR bottle shape freedom and offers attractive lightweighting opportunities.



RANGE OVERVIEW

Production output*	20,000	32,000	52,000
Blowing stations	10	16	26
Filling valves	40	60	90
Capping heads	10	15	30

* bottles per hour for a 500 ml bottle

ENSURE BEVERAGE SAFETY AND QUALITY

SAFE, EFFECTIVE AND SUSTAINABLE PROCESS CONTROL

Great beverage consistency

Once the hot beverage is filled and capped, the head-space and cap are sterilised. The Sidel cap steriliser controls this process by tilting the bottle with the precise angle, temperature and contact time.

This step puts all internal surfaces and air space in contact with the hot beverage, eliminating micro-organisms and extending product shelf life.

For effective sterilisation, bottles are rotated up to 110 degrees. This keeps the hot beverage in contact with the cap and removes possible air bubbles to ensure beverage safety and consistency.

The modular Sidel cap steriliser also provides a high level of flexibility. Contact time ranges between 7 and 30 seconds, and its design easily accommodates different size configurations and plant spaces.

Beverage quality with smart cooling

After cap sterilisation, bottles need to be effectively cooled down at ambient temperature with uniform water spraying. Sidel's cooling system cools the product while avoiding thermal stress and preserving organoleptic properties. This maintains taste and colour and results in a great consumer experience.

The cooling unit, when correctly sized, can handle different beverage viscosities and bottle sizes without the need for changeovers. The modular cooling configuration can be easily upgraded to match the production needs of today and tomorrow. The optimised engineering allows a precise sizing of the cooler with a 20% reduced footprint and optimised water consumption compared with traditional solutions. Its ergonomic design ensures easy operation and maintenance from any angle.

Line integration with Tetra Pak processing can lead to energy savings up to 45%. The recovery of warm water from the cooler for pre-heating at the pasteuriser is just one example of how efficient line design and smart communication can lead to cost and resource optimisation.

20% LESS
FOOTPRINT DUE
TO OPTIMISED
ENGINEERING

ENERGY SAVINGS
UP TO **45%**



LABEL ANY WAY YOU WANT

FAST AND FLEXIBLE ROLL-FED LABELLING

Once a packaging solution is blown, filled and capped, it moves onto one of its most defining features – the label. At Sidel, we make sure you stay on top of labelling trends. Whether you require roll-fed or sleeve labels for your hot filled beverages, our labellers can handle any label format all and will make sure your product stands out from the crowd.

The flexibility to match your needs

The efficient Sidel Matrix roll-fed labeller, SL70, is a highly versatile system that with a unique ability to manage positive and negative spins and any bottle shape and speed. It can be installed in a variety of layouts and is easily reconfigurable.

Reliable high-speed performance

With production speeds reaching up to 60,000 roll-fed labels per hour, the Sidel Matrix roll-fed labeller maintains perfect stability for precise positioning:

- 100% direct-drive transmission means fewer moving parts and less planned maintenance
- Controls differing label types and keeps consistent quality at high speeds
- No web stressing during aggressive accelerations
- Precise and level control of the label web feed
- Precise labelling with controlled web speed, positioning and excellent bottle stability
- Fast and controlled start-and-stop ability, outstanding uptime and 98% efficiency rate

Precise and controlled label handling

The SL70 labeller delivers precise handling and application for all types of containers. It provides optimal label tension and delivers continually uniform and controllable glue application without the requirement of brushes, sponges or other applicator tools.

Quick format changeovers

Changeover times are 30% faster for containers of different shapes and dimensions. Changeovers are completed in 25 minutes by only one operator in an in-line configuration.

Easy access to the main modules reduces risk of injury. The Human Machine Interface (HMI) allows easy adjustments to the bottle and label handling process.

Reduced maintenance

Operator safety, uptime and productivity are optimised by drastically reducing maintenance time:

- 40% less downtime needed for maintenance
- Open structure ensures easy cleaning and maintenance
- No need for lubrication points
- No below-the-table maintenance
- Easily replaceable main modules

Sustainable and cost-efficient operations

The Sidel Matrix SL70 labeller cuts operating costs by processing thinner labels and handling extremely lightweight bottles. It also uses less glue, with an average of 5 grams per thousand bottles. It also significantly minimises energy consumption by using up to 40% less power.

RANGE OVERVIEW

Bottle format	Bottle diameter	Label height	Maximum speed*
Up to 5 L	40-140 mm	30-170 mm	60,000 bph

* bottles per hour

The infeed screw creates the right distance between each bottle to fit with the labelling carousel pitch.



Sidel

The bottle jack system maintains perfect bottle stability for precise positioning.



High torque servo-driven reel stands eliminate web stressing.



MAKE A STRONG LABEL WITH LESS

FAST FLEXIBILITY WITH NO GLUE

Today, heat-shrink sleeves are one of the fastest growing labelling solutions for the production of hot filled beverages in PET, due to its customisability and eye-catching appearance. The unique Rollsleeve labeller combines the simplicity of Sidel's consolidated roll-fed technology with an innovative high-speed shrink sleeve process in one single machine.

Unique sleeve labelling process

Compared to traditional Transversal Direction Orientation (TDO), where sleeve labels are formed in tubes on the reel, Sidel Rollsleeve applies labels with a Machine Direction Orientation (MDO). This means that the final tube creation and welding is performed directly in the labelling machine. Labels are wrapped and maintained with a vacuum and are closed edge to edge and sealed with innovative impulse sealing welding bars, without using any glue. It is one of the fastest sleeves on the market, running at speeds up to 54,000 bottles per hour.

Efficient and high quality labelling

Coupled with the benefits of increased flexibility and labelling quality, Sidel Rollsleeve incorporates many technological advances. Precise sleeve cut, and long-lasting single rotating cutting blades increase stability and control. In addition, the accurate and resistant welding is suitable for a wide range of films, materials and thicknesses.

Quick payback

Using MDO film, the Sidel Rollsleeve can reduce environmental impact and generate cost savings of up to 30%:

- Eliminates need for sleeve forming costs
- Handles labels up to 50% thinner than TDO or other MDO roll-fed machines
- Reduces material costs with thinner labels
- Lowers logistics costs
- Labels lightweight bottles
- No glue or solvents

High container, films and layout flexibility

The Rollsleeve labeller can easily switch from sleeved to roll-fed modes and offers excellent flexibility for different containers and labelling materials:

- Labels all types of containers, including round or irregularly shaped
- Suitable for bottle sizes up to 2 litres with diameters ranging from 50 to 100 mm
- Sealing system is suitable for recycling and is compatible with a wide range of label types, such as PET, PVC, PE, R-PET, PLA, OPS, and PP, and with thicknesses ranging from 15 to 130 µm
- Equipped with a module to selectively position labels on bottles at predetermined heights and can apply full- or partial-body sleeves
- Can be installed in various configurations

RANGE OVERVIEW

Bottle format	Bottle diameter	Sleeve height	Sleeve thickness	Maximum speed*
Up to 2 L	50-100 mm	50-230 mm	15-130 µm	54,000 bph

* bottles per hour

Once precisely cut with the rotating knife, the labels are transferred from the vacuum drum to the cylindrical drums.



The sleeve drums holding the bottles are lowered into the pre-formed sleeve labels.



Rollsleeve has a continuous throughput and automatically controls the flow of containers entering and exiting the machine.



PROTECT YOUR FINAL PACKAGE

FLEXIBLE AND FAST PACKING AND PALLETISING

Once your hot filled beverage product has been blown, filled and labelled, the primary package is transferred using Sidel conveyors to its secondary packaging process. The final result is the package the customer sees at the point of sale, so it needs to grab their attention. Whether you choose shrink-printed film, nested packs or wrap-around cartons, it is important to keep this layer appealing, strong and functional.

Appealing and durable

To ensure product safety, the pack's design should be both appealing and durable. Our packers ensure protection from elements such as weather, pressure and temperature changes, and should be easy for the consumer to transport after purchase. Our packing equipment gently feeds the bottles to ensure consistency and quality. We also optimise the use of heat, glue, carton and film to reduce overall costs.

- Gentle and precise infeed configuration increases efficiency
- Quick changeovers for flexible handling of multiple SKUs
- Maintains pack quality while reducing costs, materials and consumption

Smart pallet patterns

It is important to organise the right number of single bottles onto trays or dollies, or packs onto each pallet or half pallet to save space and optimise efficiency during storage and transport. As bottles and packs vary in format and size, Sidel palletisers allow easy changeovers in layer formation.

Conventional or robotic palletisers

A palletisation isle needs to efficiently manage different elements, from empty to full pallets, product layers and interlayer dividers all at the same time. For all palletising needs, a conventional palletiser from Sidel can offer easy troubleshooting, support and operation, all without specialised training. It can manage up to three SKUs (stock keeping units) simultaneously and convey 15 to more than 150 cases per minute. A compact robotic palletiser can easily adapt to different patterns for even greater line flexibility. A single articulated arm and multiple infeed can quickly handle up to four different SKUs at the same time.

- Flexible systems handle a variety of products, packs and layer patterns
- Compact systems fits into any production plant
- Ergonomic equipment is easily accessible for operation, troubleshooting and maintenance
- Robotic solutions for high production speeds



OPTIMISE PERFORMANCE TODAY AND TOMORROW

Once your hot fill line productivity, efficiency and performance targets are reached, the goal is to maintain and even improve these levels for years to come. However, the reality is that performance can decrease over time without proper intervention. This could be due to normal wear and tear on mechanical parts, the changing of line staff or cleaning and changeovers becoming less fine-tuned. At the same time, new technologies and solutions are developed that can boost the performance of your line to new levels.

Sidel Services™

Since we designed and built your line, we have a comprehensive understanding of your hot fill equipment and its individual parts. Our dedicated Sidel Services team offers you a tailored portfolio that can increase the value of your beverage production for long-term success.

- Maintenance
- Line Improvement
- Training
- Spare Parts and Logistics
- Line Conversion and Moulds
- Packaging

Maintaining production

Sidel's global team of experts are available to monitor your line equipment, pre-plan downtime and reduce unexpected costs. With over 1,400 diagnostic visits made every year, our experts gain an extensive knowledge which you can profit from. They also provide fast corrective maintenance and 24/7 support, both remotely and on-site.

Improving production

As Sidel develops new hot fill technologies and solutions, we ensure that your equipment is never left behind. We currently offer over 500 options and upgrades for every step of the production process. These improvements can reduce the need for energy, water and raw materials, lowering total costs and improving your environmental footprint. Learning new methodologies and being trained on new procedures can also improve production, taking place on-site, online or at any global Sidel Training Centre.

Lowering total costs over time

New technologies and training can help lower your total costs over time. So too can a proactive approach to hot fill spare parts management, supported by Sidel's three delivery service levels and a world-class 24/7 supply chain. Together with our recommended spare parts lists, this total solution gives you flexible options to proactively manage your inventory and optimise your costs.

Adapting production to new demands

As consumer demands change, you need the flexibility to adjust your existing hot fill line for a new product, recipe or package. With line conversions and original Sidel moulds, these conversions can result in increased uptime, reduced costs and greater overall production flexibility.



DISCOVER SIDEL COMPLETE HOT FILLING SOLUTIONS AT [SIDEL.COM/HOT-FILL-LINES](https://www.sidel.com/hot-fill-lines)

The Sidel Group is formed by the union of two strong brands, Sidel and Gebo Cermex. Together, we are a leading provider of equipment and services for packaging liquids, foods and personal care products in PET, can, glass and other materials.

With over 37,000 machines installed in more than 190 countries, we have nearly 170 years of proven experience, with a strong focus on advanced systems, line engineering and innovation. Our 5,000+ employees worldwide are passionate about providing complete solutions that fulfil customer needs and boost the performance of their lines, products and businesses.

Delivering this level of performance requires that we continuously understand our customers' challenges and commit to meeting their unique goals. We do this through dialogue, and by understanding the needs of their markets, production and value chains. We complement this by applying our strong technical knowledge and smart data analytics to support maximum lifetime productivity to its full potential.

We call it *Performance through Understanding*.

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*Performance
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Understanding*

