

FOOD, HOME & PERSONAL CARE

# FHPC COMPLETE LINE SOLUTION FOR PET



*Performance  
through  
Understanding*



# GO BEYOND TODAY'S MARKET DEMAND

## CONVERTING TO PET OFFERS ENDLESS OPPORTUNITIES

With consumer habits prone to rapid change, fast-moving consumer goods companies are constantly adapting to new challenges. Bringing long-term value to consumers while reducing environmental footprint and costs is more of a necessity than ever.

Sidel is on your side when it comes to meeting current and future trends and challenges, providing you with full agility through our flexibility and expertise.

### Fulfil your marketing potential with PET

Within Food, Home and Personal Care (FHPC) products, such as hair care, oral care, skin care, dishwashing, surface care, laundry care or even sauces and dressings, differentiation and premium appeal are key. With PET, you can enhance product quality while embracing the branding opportunities made possible by innovative packaging solutions that perform optimally across the supply chain, all the way to the consumer.

- Wide range of colours, shapes and formats
- Transparency ranging from full to opaque, and matte to glossy
- Line-up capability for shapes, sizes and weights
- Full capping customisation
- Robust and unbreakable
- User-friendly, ergonomic
- Safe and hygienic
- Full squeezability

### Get the most sustainable solution with PET

While population growth and urbanisation create conditions for increasing consumer demand, decreasing the environmental impact of production is a high priority for sustainable long-term strategies. With PET, you can achieve sustainability with significantly reduced bottle weight, allowing you to save tonnes of plastic – and your bottles will be 100% recyclable.

Our experts help FHPC producers analyse their portfolios, determining improvement potential and demonstrating the savings that can be achieved by improving bottle design with sustainable PET.

### Maximise cost-efficiency with PET

With Sidel's FHPC solutions, you can maximise your production performance while reducing TCO (Total Cost of Ownership) and enjoying a range of benefits:

- High output
- Industrial and standard platform for maximum reliability
- Reduced raw material usage
- Low maintenance and energy consumption
- Multiple-SKU flexibility with quick changeovers
- Improved OEE (Overall Equipment Effectiveness), with maximum uptime
- Minimised carbon footprint
- Reduced storage, conveying and footprint with Combi blow-fill-cap system

## KEY FIGURES

PET vs HDPE – Weight difference <sup>1</sup> Multipurpose cleaners (Avg. in g)			
	HDPE	PET	GR. REDUCTION
500 ml	36.5	27.7	-24%
750 ml	49.6	40.1	-19%
1000 ml	55.1	38.4	-30%

### Source

<sup>1</sup>Based on Mintel study for Sidel (2016).  
866 products measured in 11 countries.





# OPTIMISE PRODUCTION COSTS WITH HIGH QUALITY AND FLEXIBILITY



**300+**  
PH BLOWERS WORLDWIDE

**20 YEARS**  
OF EXPERIENCE WITH COMPLETE PET LINE  
SOLUTIONS FOR FHPC

## INTEGRATED SOLUTIONS FOR TOTAL LINE CONTROL

A complete line helps optimise performance and decision-making across its lifetime, and Sidel is dedicated to meeting all of your needs.

### Taking care of your performance

Our customised solutions combine engineering and PET packaging expertise with advanced technologies, while tailored services help maintain and improve performance.

Careful packaging design and detailed equipment planning are needed in order to develop a line that delivers the right performance along with maintaining safety, flexibility and reliability.

### A world leader in FHPC PET packaging

With over 20 years' experience producing complete PET lines for FMCG companies, over 300 Preferential Heating (PH) blowers and the world's largest installed base of Combi blow-fill-cap solutions, Sidel's leading expertise and innovations provide you with:

- Creative, cost-efficient containers with in-house packaging design
- High quality and stability for complex and/or flat PET containers
- Complete range of modular equipment for increased production flexibility and efficiency
- Global support and service network
- Uncompromising attention to product safety and hygiene

### Maintaining performance over time

To sustain performance, assets' key running parameters must be monitored to identify efficiency-loss sources. The EIT™ (Efficiency Improvement Tool) offers intelligent 24/7 performance monitoring and helps you continuously improve line performance:

- Automated data-acquisition and line-monitoring system
- Actionable intelligence at all levels, from day-to-day operations to business decision-making
- AQ-Clock real-time measurement and audio voice messaging
- User-friendly, modular and scalable solution

### An emphasis on flexibility, efficiency, and productivity

We make the effort to understand the specific requirements of your line in order to meet your goals and challenges. Our plant and line design services include:

- Engineering expertise all along the packaging line
- Seamless integration of independent and/or outsourced equipment
- Material-handling specialisation
- End-to-end project management

As a key player in the "Factory of the Future" movement, we complement our industry solutions with Agility 4.0 capabilities that bring smart factories to life. We are speeding up consumption behaviours to deliver solutions that will transform and enhance the nature of packaging production.

# STRENGTHEN YOUR BRAND APPEAL

## CREATIVE DESIGNS AND INNOVATIVE SHAPES WITH NO COMPROMISE

For over two decades, Sidel has been a pioneer in the production of PET FHPC containers. Today, our unmatched packaging expertise still leads to innovation that helps you achieve more right from the start.

### Reducing time to market

Based on your insights, specifications, supply-chain conditions and goals, our talented packaging experts help you design a package aligned with your FHPC brand; a container that offers brand differentiation with unique looks, quality and performance for a great consumer experience.

Your container's strength and performance across the supply chain are analysed in detail, facilitating a fast design cycle, reducing costs and ensuring a top-quality product. We also evaluate container stability, rigidity and quality prior to industrial production.

Our in-house capabilities include:

- Conceptual design – bottle/preform renderings, drawings
- Technical design – all parts of bottle/preform/neck
- Prototypes – 3D-printed models
- Virtual bottle-modelling with finite element-analysis (FEA) and supply chain simulations
- Full feasibility studies and performance tests with pilot moulds and Sidel equipment
- Strict quality controls
- Primary, secondary and tertiary package-testing

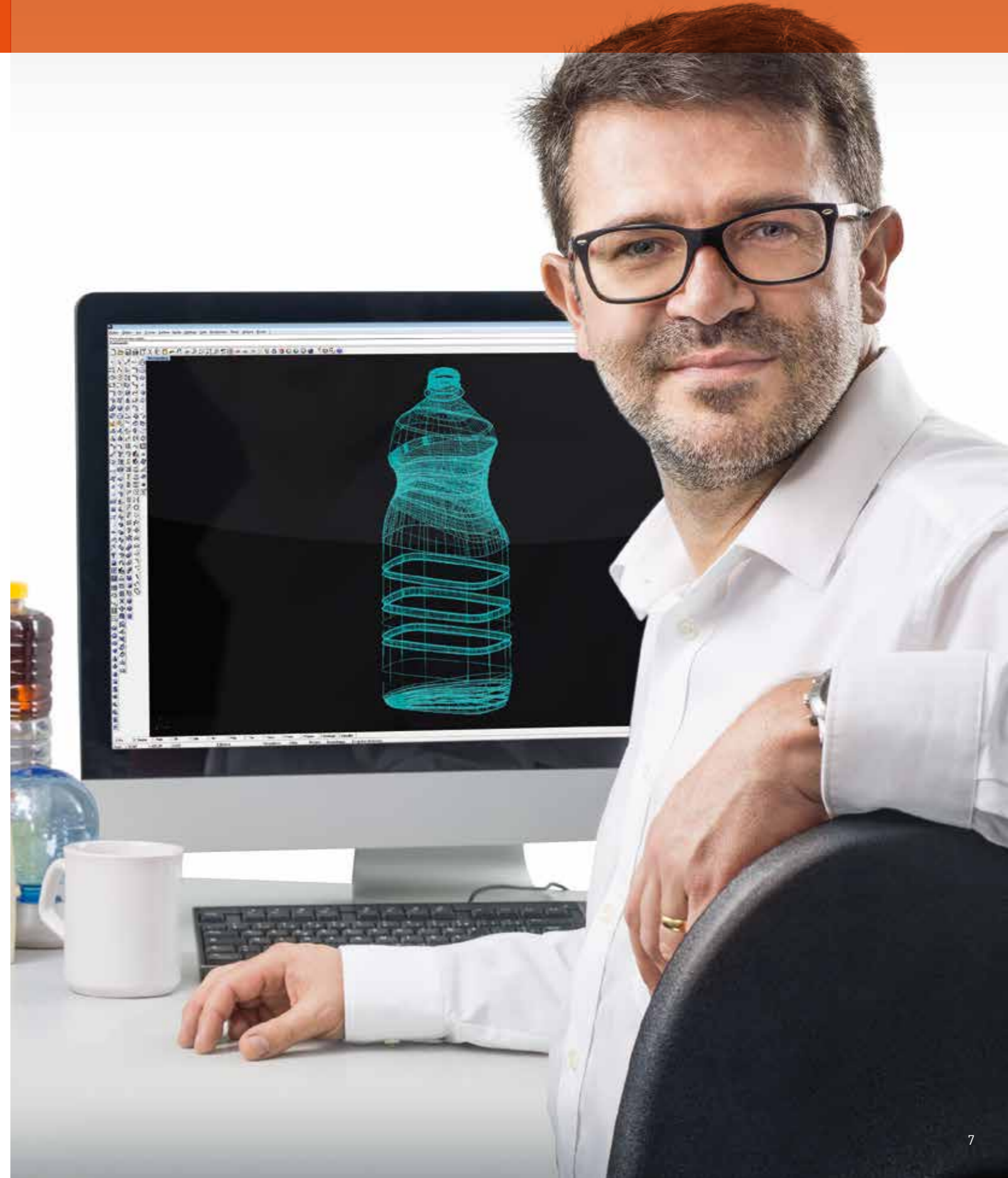
### Staying ahead through innovation

Sidel's extensive packaging capabilities are appreciated by the most demanding FMCG players: producers in personal care, hair care, oral care and household care as well as food and beverages, and more:

- Very flat, thin containers at a length/width ratio from 1.6-2.5
- Very stable, flat PET containers throughout the supply chain
- Innovative and complex shapes, flat shoulders, flat bases and off-centre necks
- Optimised squeezability and closure tightness
- Opaque and coloured preforms including heavy TiO2 load

### How can Sidel help you standardise your production?

- Neck-rationalisation and catalogue
- Preform-design master plan and associated inventory to limit number of preforms and increase SKU portfolio
- Bottle rationalisation – multi-product bottle design
- Modular closure design





# STEADYEDGE™: CREATIVITY COMPLEMENTS PERFORMANCE

## STRONG BRANDING MEETS MAXIMUM EFFICIENCY

### Improve your packaging with Sidel SteadyEDGE™ technology

Your bottle's look and feel both affect how customers respond to your product and perceive your brand. Sidel's patented SteadyEDGE™ base solution enables FHPC producers to create attractive packaging with improved stability in a reliable, cost-efficient setup.

### Creative and distinctive

With SteadyEDGE, brands appear exactly as intended, letting FHPC producers differentiate their products and increase market share with PET.

The new base technology is designed to meet the challenge of producing flat, oval and rectangular containers with optimised material distribution. SteadyEDGE ensures premium-quality containers with reduced base curvature, and an edge radius of 1 mm, compared to a previous minimum of 2.5 mm. Sharper edges increase design freedom, facilitating the production of more elegant containers.

SteadyEDGE technology maximises container quality through accurate processing, optionally reinforced by a monitoring system with visual control of base movement at individual blowing stations.

### Greater stability for optimal uptime

The sharper edges made possible by SteadyEDGE effectively flatten and increase the base's "standing ring" area. This improved base stability prevents unwanted rocking and reduces the possibility of containers being knocked over by as much as 35%, a benefit on both supermarket shelves and in consumer homes. It also boosts reliability on the production line: packages are less likely to fall during conveying, resulting in fewer costly stoppages and ultimately increasing uptime.

### Cost-efficient, sustainable production

SteadyEDGE optimises productivity and TCO while maintaining product quality and reliability to a high standard. Benefits include lightweighting by up to 10% through improved base-material stretching, and a reduction in blowing pressure and energy consumption of up to 20% during production. Furthermore, output can be increased by up to 10%, and the combination of these improvements yields a return on investment (ROI) in under a year.

### Benefit from faster, more efficient and more flexible production

SteadyEDGE leverages Sidel's patented active base-mould system, the Base Over Stroke System (BOSS). BOSS uses piston-driven base-stroking during blowing, which allows for raising and lowering of the base to occur independently from the opening and closing of the mould's half-shells.

BOSS provides flexible, versatile production with the option to implement quick mould changeovers for maximum uptime. A BOSS-to-BOSS changeover can be performed in just 3 minutes.

Easy to install or retrofit, BOSS is fully compatible with Sidel Universal blowers, and is currently used by our customers around the world - over 200 million containers have already been produced.



### Key elements

- New, unique, patented solution for flat and oval containers
- Delivers top-quality packages through optimised material distribution
- Increased design freedom for more elegant containers with edge radius as small as 1 mm vs 2.5 mm previously
- Improved bottle stability, 35% reduction in bottle disturbance, fewer falls during conveying, fewer stoppages and increased uptime

# THE OPTIMAL SOLUTION FOR FLAT OR COMPLEX SHAPES

## A UNIQUE & PROVEN PREFERENTIAL HEATING PROCESS

Based on over 20 years' expertise in preferential heating (PH), our blowing solution is the optimal means of producing complex or flat PET bottles with perfect material distribution and repeatability.

Today, Sidel's Matrix blowers provide the most demanding FMCG producers with the means to package their products.

### Appealing, high-quality designs

Sidel's Matrix preferential heating blow moulders ensure optimal quality for the most complex bottle designs. The process enables a large range of packaging applications for flat containers, including bottle-section ratios from 1.6 to 2.5 (length/width); opaque, coloured preforms; thick preforms; complex base-forming; flat shoulders or bases; and off-centre necks.

### A unique preferential heating process

Sidel's preferential heating process controls material distribution for ideal container shape and wall thickness:

- Heating modules equipped with infrared (IR) lamps
- Selective heating via series of reflecting and non-reflecting zones on reflectors positioned opposite IR lamps
- Constant preform rotation for repeatability of differentiated heating profile

- Reliable, mechanical angular positioning of preform from preform-loading to bottle outfeed
- Precisely targeted temperature profile for uniform material distribution

### Ensure premium bottle quality

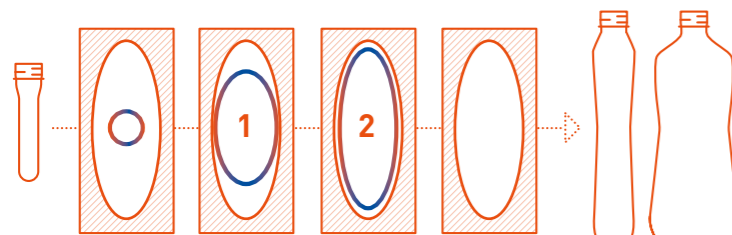
The new Matrix PH blower combines proven processes and technology for performance that offers unique features and benefits for FHPC markets. Sidel's blowing solutions overcome the challenge of shape limitation by using preferential heating, which can produce lightweight bottles in a variety of asymmetrical shapes with optimal material distribution.

Our electrical stretching processes help increase output, process repeatability and reliability. Bottle quality can be further improved by our unique, patented blowing-process control and self-regulation system, Intelliblower™.

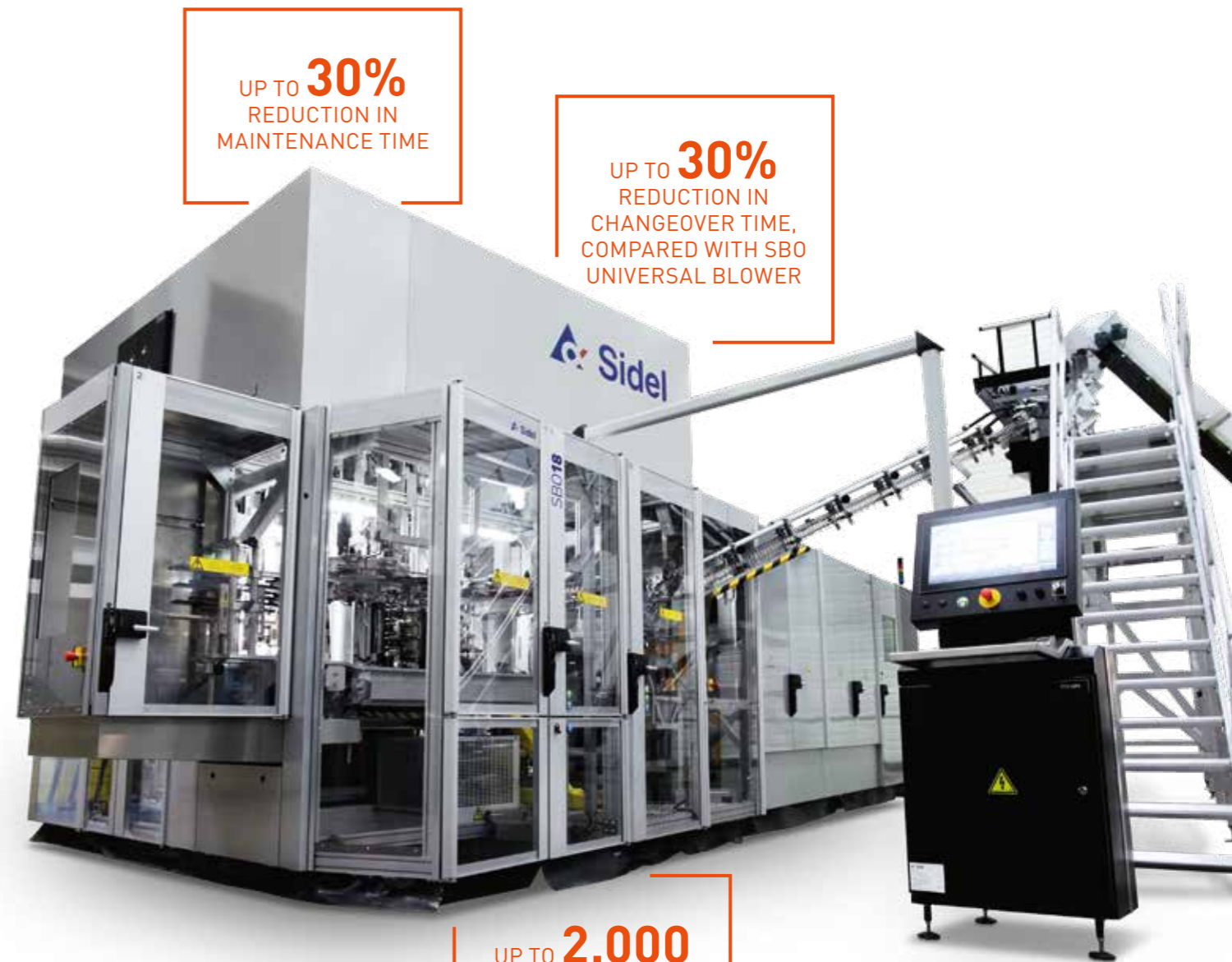
### Save time with quick Bottle Switch

A high SKU count requires shorter machine stoppages and longer equipment runtime in order to meet targets. As an option for facilitating quicker changeovers, Bottle Switch technology enables tool-free mould changeovers in under 60 seconds.

## PH Process



1. Development of the blow-moulding bubble in the direction of the coldest areas.
2. Development of the blow-moulding bubble tailored to mould profile. Uniform stretching of the material in all the parts of the profile.



UP TO **30%**  
REDUCTION IN  
MAINTENANCE TIME

UP TO **30%**  
REDUCTION IN  
CHANGEOVER TIME,  
COMPARED WITH SBO  
UNIVERSAL BLOWER

UP TO **2,000**  
BOTTLES/HOUR/  
MOULD

## Neck orientation

When cap orientation is needed, an in-oven indexation system is available. This is a simple method of orienting the cap according to bottle shape, product pouring and label orientation. The machine configuration and output are customised accordingly and evaluated by Sidel experts.



# FACTS AND FIGURES

## SIDEL MATRIX PH BLOWING TECHNOLOGY

Our most reliable and cost-efficient solution for your industrial needs, the Sidel Matrix PH blower adds a new dimension to our preferential heating technology. It combines the benefits of a proven PH process with a modular Matrix blower to support FHPC production.

### Simple, reliable process

- More robust construction
- Maximum process reliability and ergonomics
- Homogenous thermal conditioning of preform with enhanced ventilation
- Wide preferential-heating time slot ensures process stability and energy savings
- Versatile, with simple reflector replacement for PH-container changeovers as needed
- Precise process-time control with direct transfer from oven to blowing wheel

### Reduced total cost of ownership

Matrix PH blower technology drastically reduces TCO compared to previous generations:

- Up to 40% higher production speed with same preform/bottle
- Up to 30% reduction in changeover time; under 60 seconds per station
- Up to 30% reduction in maintenance time
- Up to 26% reduction in electricity and air consumption
- Up to 35% reduction in high-pressure air consumption when equipped with optional AirEco2 air-recovery system



### SIDEL MATRIX PH BLOWERS RANGE

Kinematic 2,000 bpm	
PH without Orientation Neck	
Moulds	L size
6	12,000 bph
8	16,000 bph
10	20,000 bph
12	24,000 bph
14	28,000 bph
16	30,000 bph*
18	30,000 bph*
20	30,000 bph*
22	30,000 bph*

\*Speed limitation due to the preform cam box in the oven.

The in-oven reflector setup increases preferential heating process flexibility.



The in-oven neck-orientation mechanism keeps the preferential heating profile aligned with bottle specs.



Direct transfer from oven to mould via transfer wheel reduces overall production time, and is supported by reliable open/close gripping control.



Electrical stretching allows for a more precise blowing process, providing premium bottle quality.



# IMPROVE EFFICIENCY AND HYGIENE WITH AN INTEGRATED SOLUTION

## COMPACT AND FLEXIBLE PRODUCTION

The Sidel Combi Matrix PH combines blowing, filling and capping processes in a single integrated system, optimising your line layout, reducing costs, increasing bottle quality and ensuring hygienic production.

### All-in-one with Sidel Combi Matrix PH

The Sidel Combi Matrix PH combines several functions into one integrated system, improving line efficiency and flexibility:

- Automated combination of blowing/filling architectures
- Common platform, different filling technologies – volumetric, electro-driven filling valves based on weight or mass-flow volumetric filling technologies; or mass flow-meter volumetric electro-driven filling valve technology, for viscous, foamy, stringy, corrosive, or particle-inclusive liquids
- Modular design accommodates future upgrades for improved long-term productivity and efficiency
- Aligned service and maintenance plans
- Quick format/neck changeover
- High filling accuracy
- Smooth transfers

### Efficient and cost-effective

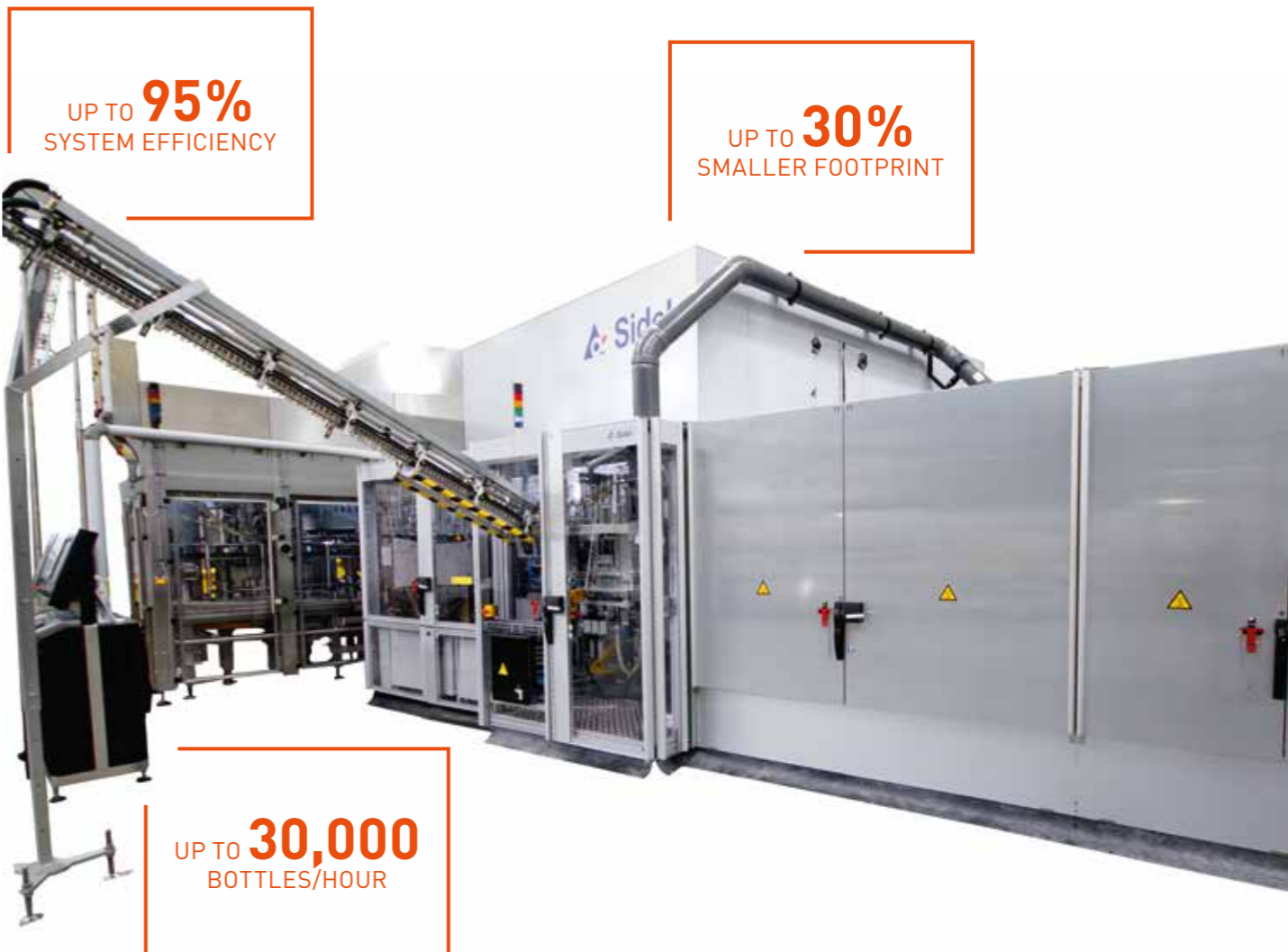
Combi systems offer high performance, with output rates from 6,000 to 30,000 bph at container volumes from 100 mL to 3.8 L. The Combi is simple to operate and designed for multi-SKU production. By integrating blowing and filling functions, it generates lower capital costs with simplified engineering and a footprint reduction of up to 30%, and minimises operation and maintenance costs by requiring only one operator. By transforming costly downtime into profitable uptime, the Combi's production efficiency can reach 95%.

### Flexible, accurate and hygienic

Based on hygienic standards with a 100% stainless steel filling structure, hygienic design options are also available for safeguarding product integrity. High filling accuracy allows a standard deviation of 0.8 mL/L. In addition to its external positioning, the filling tank's smaller volume reduces cleaning time by 30% and chemical requirements by 40%.

### Comprehensive Service Support

At Sidel, we support our customers by ensuring a full transfer of competences from our expert trainers. We train your people to become autonomous in the operation of Combi systems, helping you decrease downtime and keep productivity at its maximum.



UP TO **95%**  
SYSTEM EFFICIENCY

UP TO **30%**  
SMALLER FOOTPRINT

UP TO **30,000**  
BOTTLES/HOUR



# PRECISE APPLICATION WITH THE ROLLADHESIVE LABELER

## STAND OUT ON STORE SHELVES

Once your FHPC packaging solution is blown, filled and capped, it moves on to one of its most defining features: the label. Sidel can help you stay on top of labelling trends and stand out on store shelves.

The Sidel Rolladhesive labeller is ideal for the application of self-adhesive, pressure-sensitive labels at any speed, with increased efficiency and easy operation.

### Optimised for high performance

The Rolladhesive labeller maintains optimal label tension throughout the entire process:

- Reduction in film breakage and correct handling of ultra-thin film
- Maintained film tension
- Reduced label stress

### Flawless label treatment

The Rolladhesive ensures precise label application for any bottle shape or size:

- Precise label positioning
- Increased accuracy and stretching optimisation
- Reduced risk of wrinkling or bubbling
- Flawless "no-label" appearance

### Sustainable and cost-effective

Effective, precise application reduces material waste:

- Handles thin labels and wash-off self-adhesive labels for returnable bottles
- Higher energy efficiency with significant reduction in mechanical transmission
- Significantly lower noise level with use of "air dancer"

### Easy changeover and maintenance

The compact, ergonomic design of the Rolladhesive keeps the working area accessible for easy operation and maintenance:

- Complete changeover in only 15 minutes, depending on machine configuration
- Fast, simple setup procedures during bottle/label changeover
- Automatic label-roll changeover with continuous label distribution
- Label-application electronically adjusted and easily changed through HMI
- Simplified maintenance operation



Optimal label tension is maintained throughout the entire process to reduce film breakage.



The servomotor-driven platforms can handle round and irregularly shaped bottles.



The synchronised, push-pull label motion provides constant film tension.



## RANGE OVERVIEW

Bottle diameter	Label length	Label height	Minimum speed	Maximum speed*
50-160 mm	20-150 mm	20-150 mm	4,000 bph	65,000 bph

\* Depending on label length

# PROVEN AND VERSATILE ROLL-FED LABELLING

## GIVE YOUR PRODUCT AN EYE-CATCHING, DURABLE LOOK

Sidel's roll-fed labelling solutions deliver the flexibility needed to match all your needs. The success of roll-fed technology lies in the plastic label's physical and practical qualities. Additionally, roll-fed labels are waterproof and more resistant to adverse storage conditions.

### Linear design for easier handling

The Rollquattro Evolution's unique, linear station design and ergonomic structure enable operators to easily control all labelling processes.

- Handles various label materials and thickness
- Various labeller configurations available, adaptable to any layout
- Compact footprint – space-saving reel stand structurally integrated into the label station

### High precision for even better results

The Rollquattro Evolution label-transfer drum, glue and cutting modules are designed to deliver repeatable, high labelling accuracy and quality.

- Improved label-application precision and label-overlap closure efficiency
- Unique, patented label-transfer drum ensures aesthetic, high-quality labels
- Precise label-application and overlap-alignment at every speed

### Quick format changeovers

Rollquattro Evolution's unique linear station design makes access to machine modules easy and format changeovers faster.

- Complete changeover within 30 minutes (bottle & label)
- Adjustments can be made via HMI for both bottle and label configurations

### Get the benefit of minimal maintenance

The Rollquattro Evolution's ergonomic linear design enables your operator to control all labelling processes and allows for simpler maintenance.

- Modules can be dismantled from station and worked on separately
- Less wearing between glue-vacuum drum's cutter-roller, and no lubrication
- Reduced need for cleaning and high operator accessibility

### Sustainable, cost-efficient operations

The Rollquattro Evolution cuts operating costs and minimises energy consumption.

- Handles lightweight PET bottles
- At least 15% reduction in annual glue consumption



The unique, linear station design enables operators to control all labelling processes easily.



The carousel transmission enables the application of wrap-around labels for both round and irregularly shaped containers.



The patented label-transfer vacuum drum requires no regulation or adjustment.



## RANGE OVERVIEW

Bottle diameter	Label length	Label height	Minimum speed	Maximum speed*
50-160 mm	170-520 mm	30-170 mm	4,000 bph	60,000 bph

\* Depending on label length



# HIGH-PERFORMANCE, SUSTAINABLE CONVEYING SOLUTIONS

## RESPECTING YOUR PRODUCT, GOALS AND BRAND

Sidel's expertise in conveying engineering makes your production strategies a reality with full understanding of your goals and your packaging line.

To help you match increasingly sophisticated consumption trends, we design solutions that favour flexibility for fast format changeovers. Our control system seamlessly adapts conveying speeds to your container and line properties, to ensure both product integrity and continuous production.

### Understanding the strategic value of your packaging

We offer the right solutions for your packaging through a comprehensive range of conveying solutions:

- Air conveying
- Cap feeding
- Container conveying
- Container accumulation
- Pack case and crate conveying
- Pallet conveying

### Modular conveying architecture

To ensure regulated flow and flexible production, our conveying solutions are built around a modular automation approach for increased responsiveness. Our conveyors combine standardised design and mechatronic architecture for easy installation, operation and maintenance.

### Accumulation solutions

Accumulation is at the heart of line regulation: it adjusts machine speeds to production needs and compensates for machine shutdowns to ensure continuous production flow.

The performance of our accumulation solutions is based on smart design that combines simple, optimised mechanics with leading-edge automation expertise and connectivity.

### GEbo AQFlex® performance and agility

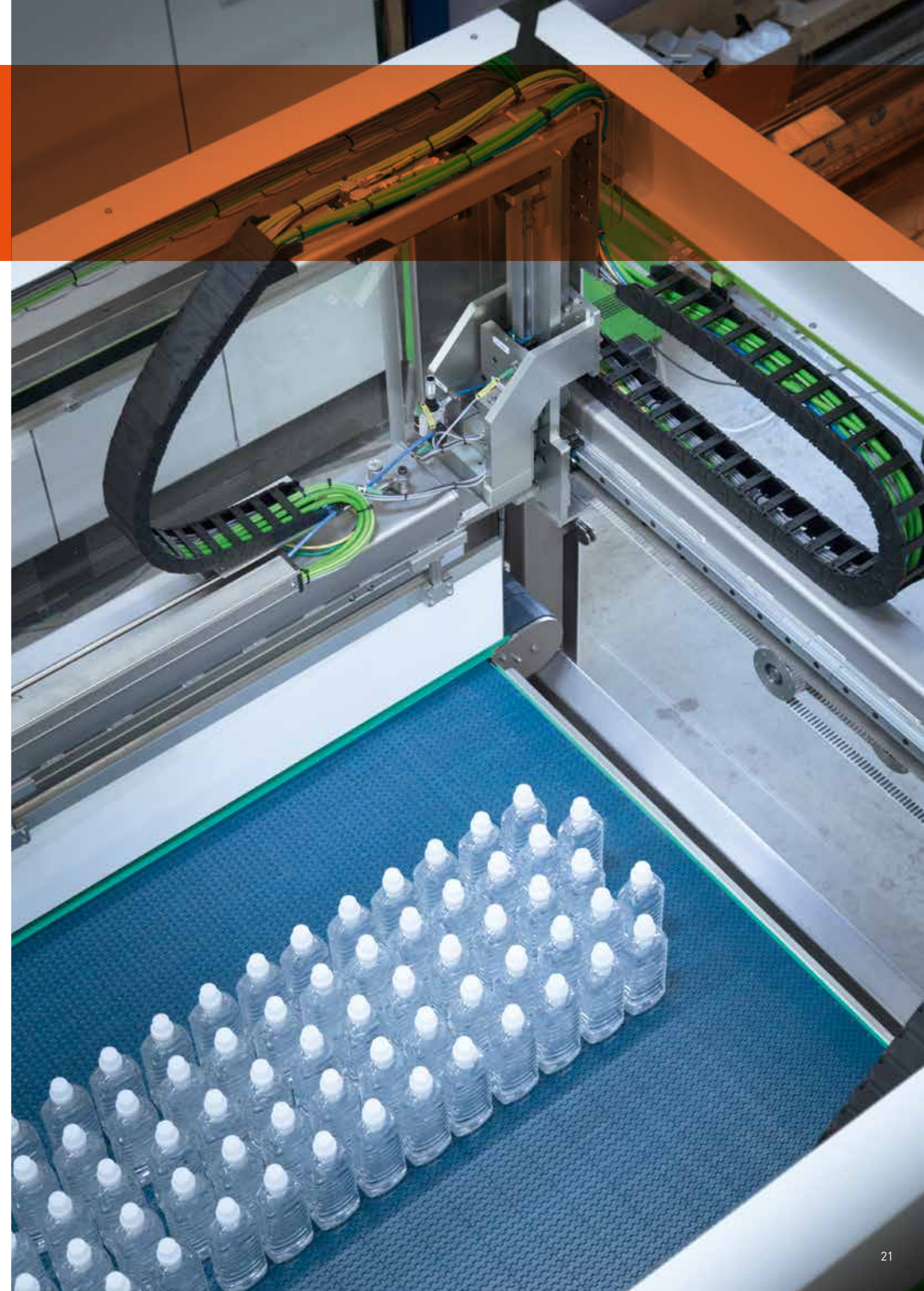
In order to serve the needs of the FHPC market, Sidel offers the Gebo AQFlex®, an all-in-one solution with no need for other conveying functions. It combines flexibility, high performance and unprecedented compactness, saving space compared to traditional equipment, and offers the best accumulation-to-space ratio on the market.

This intelligent, all-in-one product handling solution offers total flexibility by managing all container materials, shapes and formats, along with fast automatic changeovers and smooth, contact-free handling and accumulation of the products.

The Gebo AQFlex® offers a fast return on investment and up to 99.5% efficiency - even at high speeds.

### Key elements

- Automation expertise ensures seamless product flow
- Preserved product integrity thanks to smooth product handling
- Full flexibility handling for all container materials, formats and shapes.
- High performance: scalable speed at up to 100,000 bph
- Extreme compactness: up to 40% less space used compared to traditional solutions





# PROTECT YOUR FINAL PRODUCT

## MAINTAIN INTEGRITY AND QUALITY WITH A LARGE RANGE OF SECONDARY PACKAGING SOLUTIONS

We know that the right overwrapping solution is the one that protects your products while ensuring an appealing appearance.

Once your product is ready, the primary package is gently and smoothly managed by our conveyors, aligners/dividers and accumulation systems before being transferred to the dry phase of the process.

### Get the packaging solution for your needs

Sidel offers the right solutions for your secondary packaging, whether it involves American cases (RSC & HSC); wrap-around blanks; trays; trays + lids (2-piece cases and retail-ready packaging); shrink-wrapped packs (incl. nested packs); or mixed cardboard/film – and beyond.

The process is optimised through quick, automatic changeovers, providing the flexibility needed for multiple-SKU production at every speed. We are also able to optimise the quantity of material and consumables in the line, reducing overall costs. The final result is an affordable secondary packaging that attracts consumer attention.

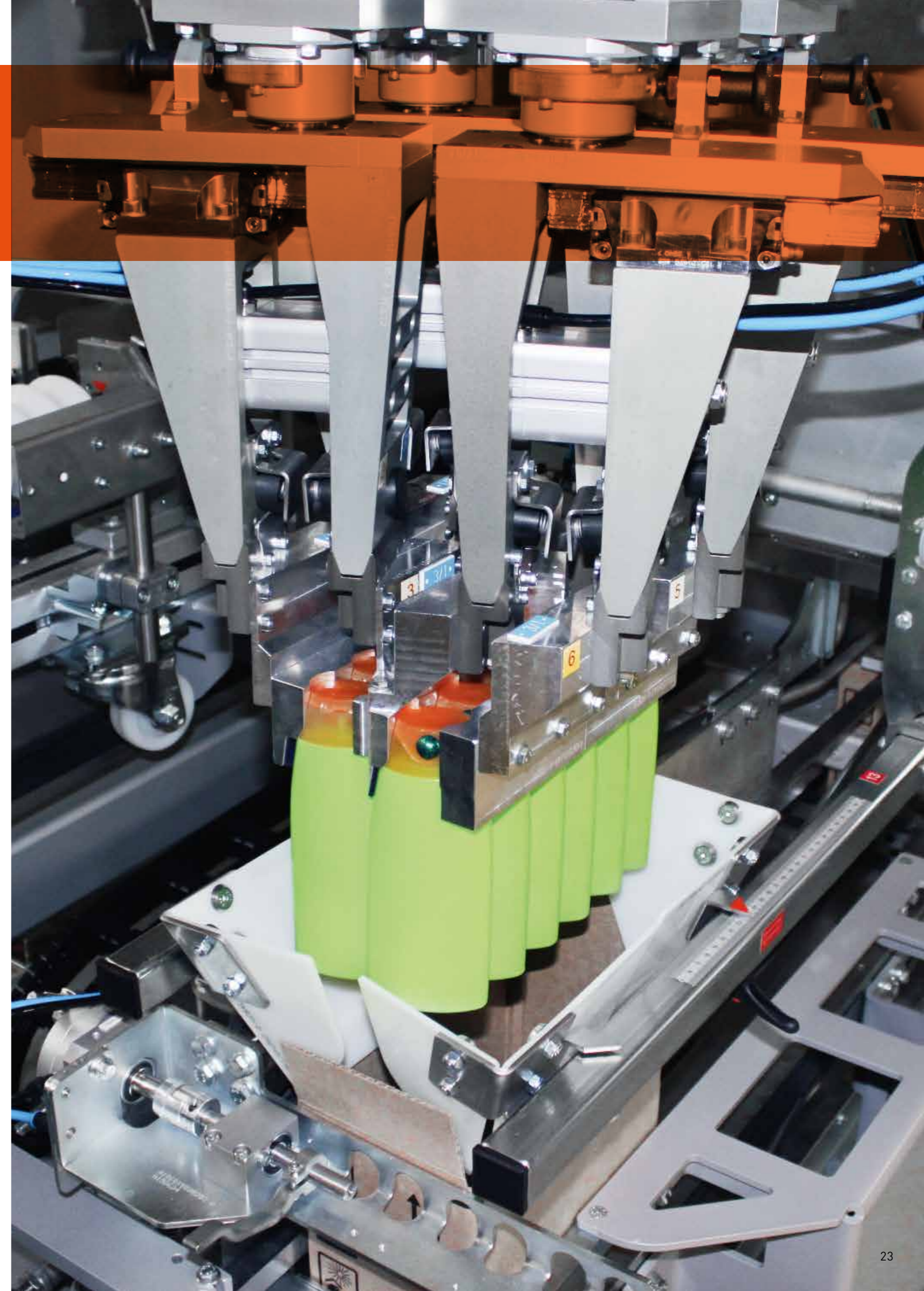
### A full range of case-packing and shrink-wrapping solutions

The high level of diversity within FHPC necessitates a versatile range of top-quality overwrapping and packing solutions. We ensure that your finished case or pack is functional, visually striking and protective:

- American cases – case-erecting, vertical packing and case-sealing solutions; loading performed by gantry or 4-/6-axis robotic arms
- Trays and wrap-around blanks – continuous or sequential packing
- Packs and tray/pad + film – seamless shrink-wrapping
- All packaging types (wrap-around, tray, film and cardboard/film) handled in a single flexible machine
- Ancillary tasks – automatic cardboard magazine-loading system for increased productivity and improved work conditions

### Key elements

- Secondary packaging that protects the final product
- Gentle, precise and efficient product-infeed systems that respect product integrity
- Quick and automatic changeovers, providing the flexibility needed for multiple-SKU production
- Largest range of packing and shrink-wrapping solutions in the market





# FLEXIBLE AND COMPACT PALLETISING

## FIND THE RIGHT SOLUTION FOR YOUR NEEDS

When it comes to palletising, every FHPC producer faces specific needs that cannot be met by a single universal solution, so Sidel offer a comprehensive range of high-quality adaptable solutions.

### A wide range of options

As your site constraints are specific, our palletisers accommodate different configurations:

- Infeed systems – high- or low-level
- Layer preparation – traditional or robotic for gentle pack/case handling with AxoSmart® and RoboSmart®, to create perfect pallet patterns
- Compact 4-axis or gantry palletisers – individual or row-by-row handling in reduced footprint to fit any production plant
- Cost-efficient, conventional layer-by-layer solutions – reliable high-speed and entry-level applications with PalAccess™
- Columnar technology – very high-speed segments with output up to 12 layers/min using EvoFlex®
- Robotic palletising cells – various configurations available for a multifunctional, ultra-flexible and reliable solution
- Cobotic compact palletising to address low speed lines in a reduced footprint

Our palletising islands efficiently manage different elements, including empty or full pallets, product layers and interlayer dividers - all at the same time.

We supply innovative software for pallet-pattern configuration and creation, which can be installed and operated from the palletiser's user-friendly, multi-touch screen HMI. One Point Lessons (or OPLs) are tutorials accessed from the HMI to train and guide operators in correct procedures, easy troubleshooting or maintenance. These tutorials are designed for maximum ease of use, packed with photos, videos and interactive features.

### A comprehensive end-of-line approach

Our vision is not limited to palletisers; we integrate and manage multiple systems to deliver a complete end-of-line solution:

- Compact case-packing palletising combi machines – VersaBloc® end-of-line system offers shrink-wrapping and palletising functions
- Integrated pallet stretch-wrapper
- Intralogistics with AGV/LGV (Automated Guided Vehicle/ Laser-Guided Vehicle) solutions.

### Key elements

- High flexibility for handling a variety of products, pack/case formats, and layer/pallet patterns
- Efficient management of different elements, including empty or full pallets, product layers and interlayer dividers - all at the same time
- Integration of multiple systems to deliver a complete end-of-line solution





# CONTINUOUS PERFORMANCE – TODAY AND TOMORROW

## TAILORED SUPPORT AND GLOBAL EXPERTISE

Your line is a critical production asset and you need continuous optimisation at every stage of your production lifecycle. From initial design to ramp-up, and beyond, Sidel helps you build, maintain and improve performance with the support of talented experts.

### Building performance

Our training solutions help to build your team's performance. The new Skill Matrix assessment identifies competence levels, while our training programs result in skilled teams that can achieve a vertical start-up. Blending online and face-to-face learning enables efficient, evolving competence transfer.

- Over 550 training courses
- 6,000+ people trained every year
- 14 Training Centres
- 35 certified trainers worldwide

### Maintaining performance

Our modular maintenance agreements ensure consistently reliable performance. Maintenance offerings have evolved to include "Time & Material" for tailored preventive maintenance, and "Fixed Price" for condition-based maintenance at fixed costs.

- 435+ pieces of equipment currently covered by maintenance agreement
- 21 dedicated experts

### Improving performance

Our range of audits, options and upgrades helps optimise your equipment lifecycle. The 360° and Focus Audit solutions enable the identification of quick wins, defining actions that improve productivity. Our Options & Upgrades portfolio can help you implement new functionalities and the technologies, adding value to your assets.

- Portfolio of 700 options and upgrades
- Approx. 100 audits performed yearly
- Approx. 1,400 options and upgrades installed yearly

### Full spare parts, technical and field support

Managing your line and protecting assets requires top-quality parts and advanced technical skills. Sidel offers first in class spare parts, global technical support and local field assistance.

### Spare Parts

Your production benefits from original-quality spare parts, delivered on time and in full. Our spare parts are designed, tested and certified by the same experts that built your line. Sidel Services Online, our user-friendly web interface, gives fast and easy online access to your installed base for orders and offers.

- 24/7 availability
- 34,000 m<sup>2</sup> storage area
- 80,000 products in stock
- 3,000 shipping lines per day

### Field Service Engineers

Multidisciplinary competences and advanced technical skills are available worldwide for safe intervention on your equipment. This ensures efficient troubleshooting, quick start-up after installation of upgrades or line overhauls, and continuous on-site coaching.

- 40 service hubs worldwide
- Approx. 25,000 interventions per year

### Adapting bottled FHPC production to new demands

As consumer demands change, you need the flexibility to adjust your existing FHPC line for new products or packaging. With line conversions and Sidel moulds, these adjustments can result in increased uptime, reduced costs and greater flexibility.





GET A COMPLETE FHPC  
SOLUTION AT  
[SIDEL.COM/YOUR-LIQUID/  
FOOD-HOME-AND-  
PERSONAL-CARE](https://www.sidel.com/your-liquid/food-home-and-personal-care)

Sidel is a leading provider of equipment and services solutions for packaging beverage, food, home and personal care products in PET, can, glass and other materials.

With over 40,000 machines installed in more than 190 countries, we have nearly 170 years of proven experience, with a strong focus on the factory of tomorrow with advanced systems, line engineering and innovation. Our 5,500+ employees worldwide are passionate about providing solutions that fulfil customer needs and boost the **performance** of their lines, products and businesses.

Delivering this level of performance requires that we stay flexible. We continuously ensure we **understand** our customers' changing challenges and commit to meeting their unique performance and sustainability goals. We do this through dialogue and by understanding the needs of their markets, production and value chains. In turn, we apply our solid technical knowledge and smart data analytics to ensure lifetime productivity reaches its full potential.

We call it **Performance through Understanding**.

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