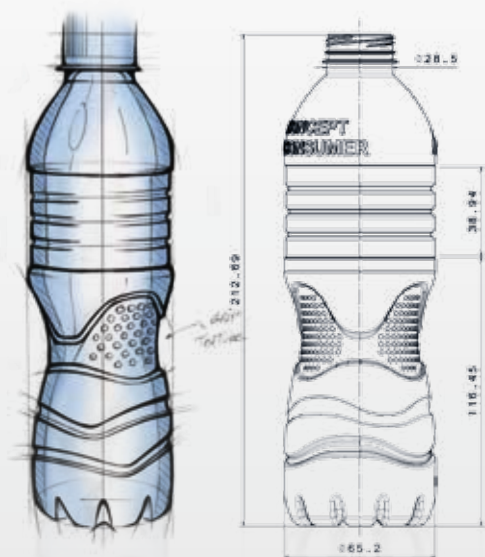


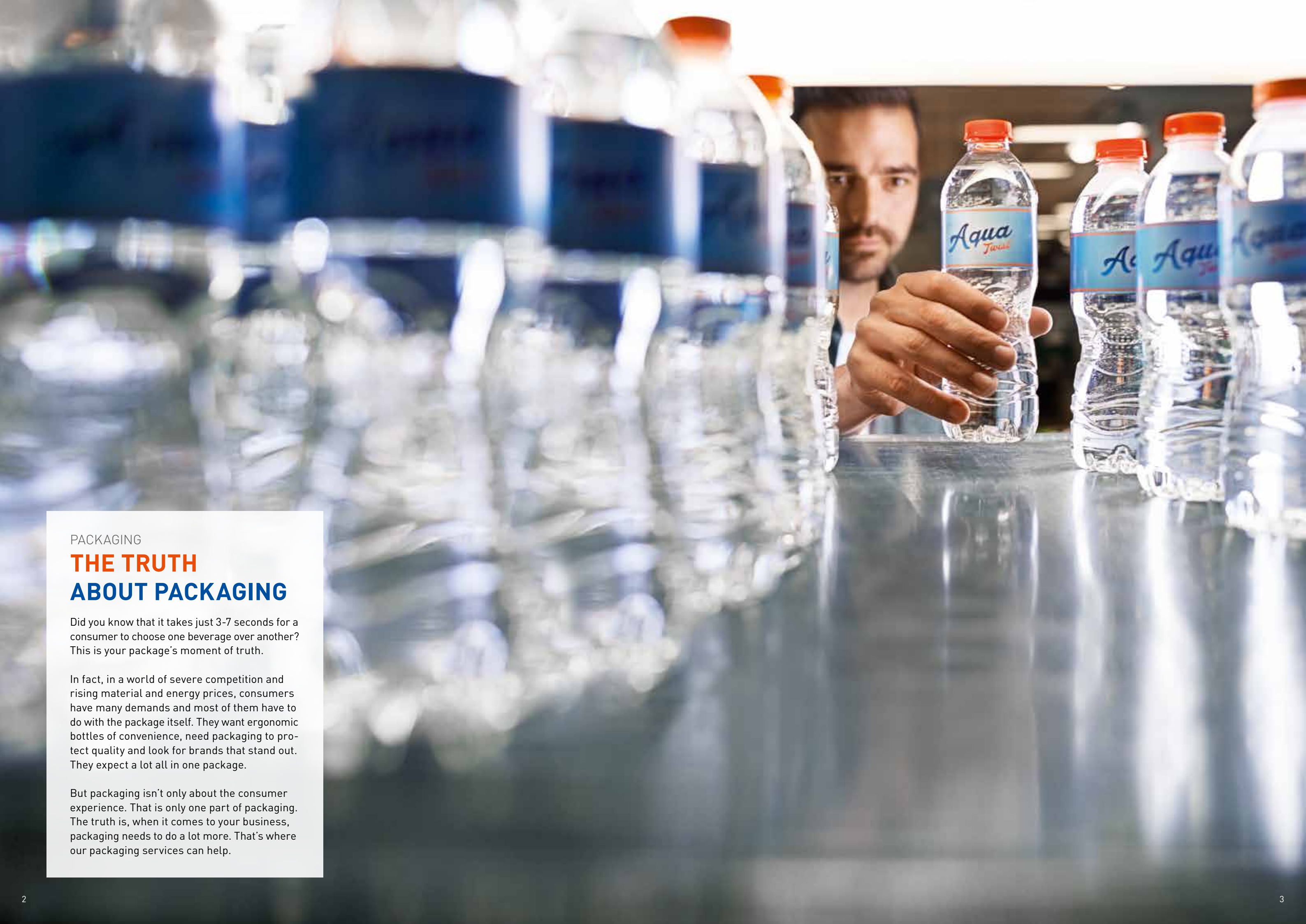
PACKAGING SERVICES

CREATING VALUE FROM CONCEPT TO CONSUMER



*Performance
through
Understanding*





PACKAGING

THE TRUTH ABOUT PACKAGING

Did you know that it takes just 3-7 seconds for a consumer to choose one beverage over another? This is your package's moment of truth.

In fact, in a world of severe competition and rising material and energy prices, consumers have many demands and most of them have to do with the package itself. They want ergonomic bottles of convenience, need packaging to protect quality and look for brands that stand out. They expect a lot all in one package.

But packaging isn't only about the consumer experience. That is only one part of packaging. The truth is, when it comes to your business, packaging needs to do a lot more. That's where our packaging services can help.



PACKAGING

GOOD THINGS COME IN SIDEL PACKAGES

As well as communicating your brand and creating a great consumer experience, your bottle needs to improve line efficiency and product safety, be sustainable and reduce costs – all with a fast time to market.

Whether you are launching a new product or redesigning an existing bottle, we apply our expertise at every step of the way – from the initial design to qualifying performance, protecting safety, optimising costs and attracting consumers. As a single source partner for all PET packaging development and production needs, we ensure flexibility, simplicity, durability and integrity while taking all your manufacturing conditions into account.

We have over 300 packaging experts, engineers and designers located at our five packaging centres and four laboratories worldwide in China, Europe, India, Latin America and North America. Combined we have decades of experience designing, optimising and qualifying packages of global brands large and small, and are fully dedicated to your package's success.

TURNING SUPPLY CHAINS INTO VALUE CHAINS



From concept to consumer, we can create value at every phase of your supply chain. We can help you design a unique package that uses less PET and other materials, reduces energy during production, withstands transportation and looks great at the point of sale, leading to a pleasant experience for the consumer – and beyond.



5 packaging centres worldwide



PACKAGING
& PREFORM DESIGN

DARING TO BE DIFFERENT

Consumers look for interesting bottle shapes and format sizes that fit their lifestyles – and we can help you design a package in line with your brand. With lighter preforms and shorter necks, we can help you save costs while maintaining bottle performance and ensuring a strong consumer experience. Already we have over 70,000 bottle drawings in our global database.

Based on your insight, specifications, supply chain conditions and product goals, we can provide the creative and technical designs, preform designs and prototypes – everything you need to start turning your unique ideas into an industrial reality.

Capabilities

- Conceptual design (bottle drafts and digital mock-ups)
- Technical design (all parts of the bottle and preform)
- Prototypes (3D printed physical models)



8,000
new bottle designs and
drawings every year



PACKAGING
QUALIFICATION

TESTED TO PERFORM

Using virtual bottle modelling with finite element analysis, we can evaluate bottle stability, rigidity and quality prior to industrial production to ensure that your bottle will perform in the real world. We work with both your internal and external designers in order to improve your bottle's strength and performance across the supply chain, provide a faster design cycle and reduce costs.

We validate your design from top to bottom, performing: dimensional, mechanical and barrier tests; thickness and weight, brim/fill point and shelf life assessments; compression, drop impact and other stress testing; O₂ permeability and CO₂ loss analyses and more.

Capabilities

- Finite element analysis and supply chain simulations
- Full feasibility studies and performance tests with pilot moulds and Sidel equipment
- Primary, secondary and tertiary package testing
- ISO 17025 certified for testing and calibration



100,000 bottle
concepts analysed
every year



LIQUID-PACKAGE INTERACTION ANALYSIS

SAFETY WITHOUT COMPROMISE

Light, oxygen, temperature and other conditions can influence the quality of your end products. So our liquid-package interaction experts perform laboratory tests under real production and supply chain conditions to determine the most suitable packaging designs, PET resin, sizes, shapes, caps, and filling volumes. They account for your recipe, processing parameters and production conditions to maximise product quality and shelf life.

We have two laboratories for liquid-packaging and aseptic analysis in Octeville, France, and two laboratories for filling and aseptic microbiological contamination analysis in Parma, Italy. We also have partnerships with universities and other laboratories worldwide.

Capabilities

- Microbiological and compatibility testing
- Physical, chemical, sensory and organoleptic analyses
- Shelf life, closure and supply chain simulations
- Aseptic filling and sampling



4 labs
for liquid-package
testing and R&D

PACKAGING OPTIMISATION

THE SAME BUT LIGHTER

Raw materials can account for as much as 70-80% of a bottle's cost. That's why lightweighting bottles and caps, or making labels thinner, can lead to substantial savings. But to better ensure the end product's quality, we prefer to talk about rightweighting. Grams lighter at an optimum weight, requiring less energy to produce, your final package will still have the same look and feel – still strong and true to everything your brand stands for.

In fact, our latest Sidel RightWeight™ concept bottle weighs and costs less, saves energy, maintains optimum line performance and protects beverage quality, all with a positive consumer experience.

Capabilities

- Rightweighting
- Finite element analysis and quality testing
- Top load, fill-point drop, lateral gripping, hydrostatic pressure and vacuum, denting, and gas pressure analyses



30% less
PET with
rightweighting





QUALITY MOULDS AND MORE WITH SIDEL SERVICES™

Whether for a new line or a converted line, our original moulds are intelligently engineered for fast production and carefully tested to protect your products' safety and quality. They come in high-quality aluminium or stainless steel, and can be adapted to all generations of Sidel blow moulders, offering great freedom of shape and quick and easy changeovers.

Our Packaging and Line Conversions & Moulds services are part of Sidel Services, which also includes maintenance support, expert training, original spare parts and on-time logistics, and proactive line improvement services. Everything you need to create value over time for your products, your production, your brand and your business.

Find out more at sidel.com/services.

Sidel Services

- Packaging
- Line Conversions & Moulds
- Line Improvement
- Training
- Maintenance
- Spare Parts & Logistics



300,000 moulds
installed in
191 countries



COMPLETE LINE SOLUTIONS FROM DESIGN TO REALITY

When it comes to industrialising your bottle design, we draw on over 30 years of PET expertise to determine which high-quality equipment and production solution is right for you – regardless if you produce water, carbonated soft drinks, liquid dairy products, JNSDIT (juices, nectars, soft drinks, isotonic and teas) or beer.

We can provide complete new lines, featuring the very latest Sidel Matrix beverage production equipment, or convert your existing lines quickly and efficiently. Either way, we can help you produce new products or package designs and get them to your consumers as fast as possible with the lowest possible TCO.

Capabilities

- Complete new production lines with Sidel Matrix™
- Line conversions for existing lines
- Original Sidel moulds
- Project management and engineering
- Sidel Services



30 years
of expertise
working with PET

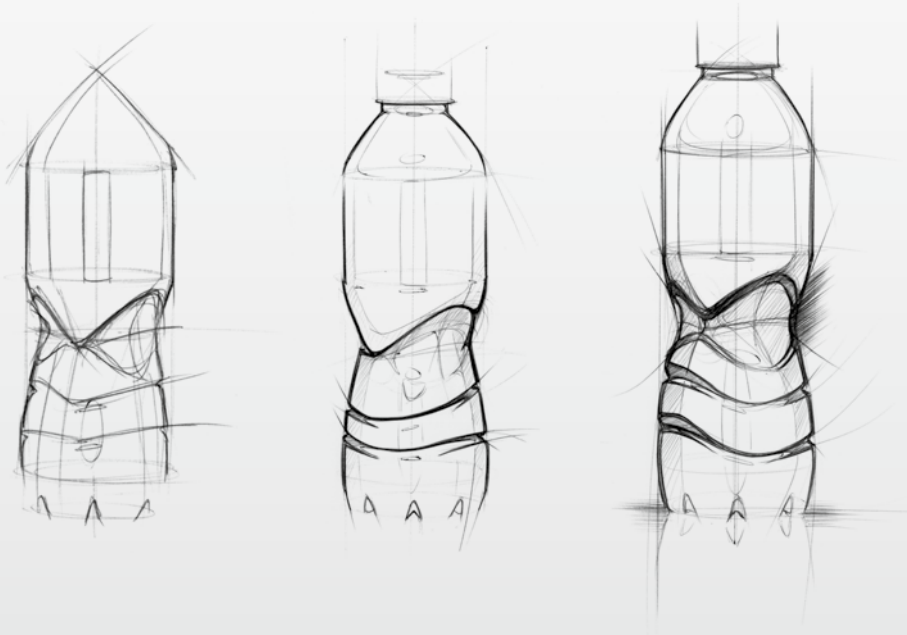
CREATE VALUE FROM
CONCEPT TO CONSUMER AT
SIDEL.COM/PACKAGING

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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