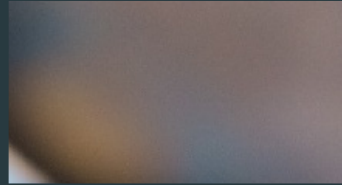


Brüel
SYSTEMS



HIGHLY EFFICIENT CONTAINER PROCESSING SYSTEMS

FOR A **SUSTAINABLE** WORLD

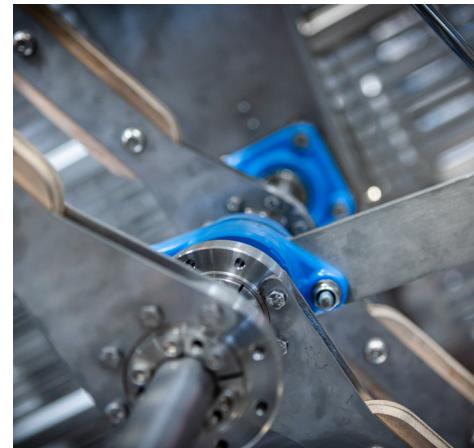




SOLUTIONS THAT OPTIMISE YOUR FACILITY

Innovative solutions backed by strong aftersales support. The ability to deliver everything from standalone products to customised turnkey solutions. A skilled, experienced, and dedicated workforce. All backed by decades of industry experience and in-depth technical expertise – that's Brüel Systems.

Our mission is simple: to provide optimum solutions that meet our customers' needs for efficient washing, drying, and handling of recyclable packaging containers. Every day, we work closely with our customers and other stakeholders to realise that vision and contribute to sustainable development.



RPA-logo

We are members of the reusable packaging association (RPA), a non-profit trade organisation working to expand, innovate, and validate reusable packaging systems.



EVOLVING FROM HUMBLE BEGINNINGS

We can trace our origins back to a blacksmith company founded in 1843. From these humble beginnings, we have evolved into the company we are today.

We delivered our first crate washing machine and conveyor systems in 1976 and became a global turnkey solution supplier in the early 1980s. By the turn of the century, we had become a well-known name in the washing equipment business with exports to more than 60 countries.

In recent years, we have increasingly focused on offering market-leading high-end technology to a steadily growing market.

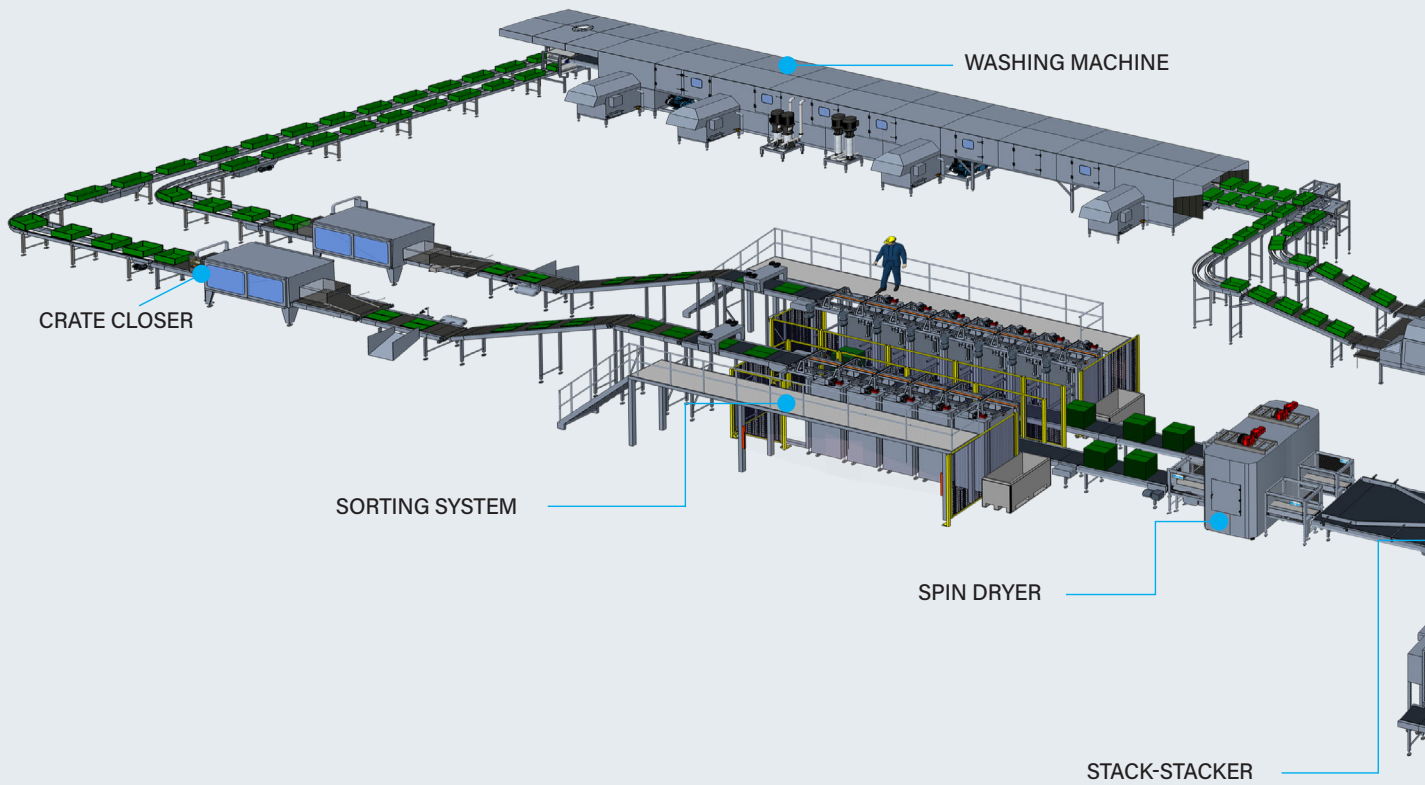
OUR MISSION

Brüel Systems A/S is committed to providing optimum solutions meeting our customers' needs for efficient washing, drying, and handling of recyclable packaging containers. In cooperation with our customer, we fully define the requirements for the equipment and the operating regime including, where appropriate, the interface with existing equipment and building requirements.

OUR VISION

We aim to be the leading brand and first choice within washing and handling systems for recyclable packaging containers worldwide, keeping business ethics at the highest level towards employees, business relations, and the environment.

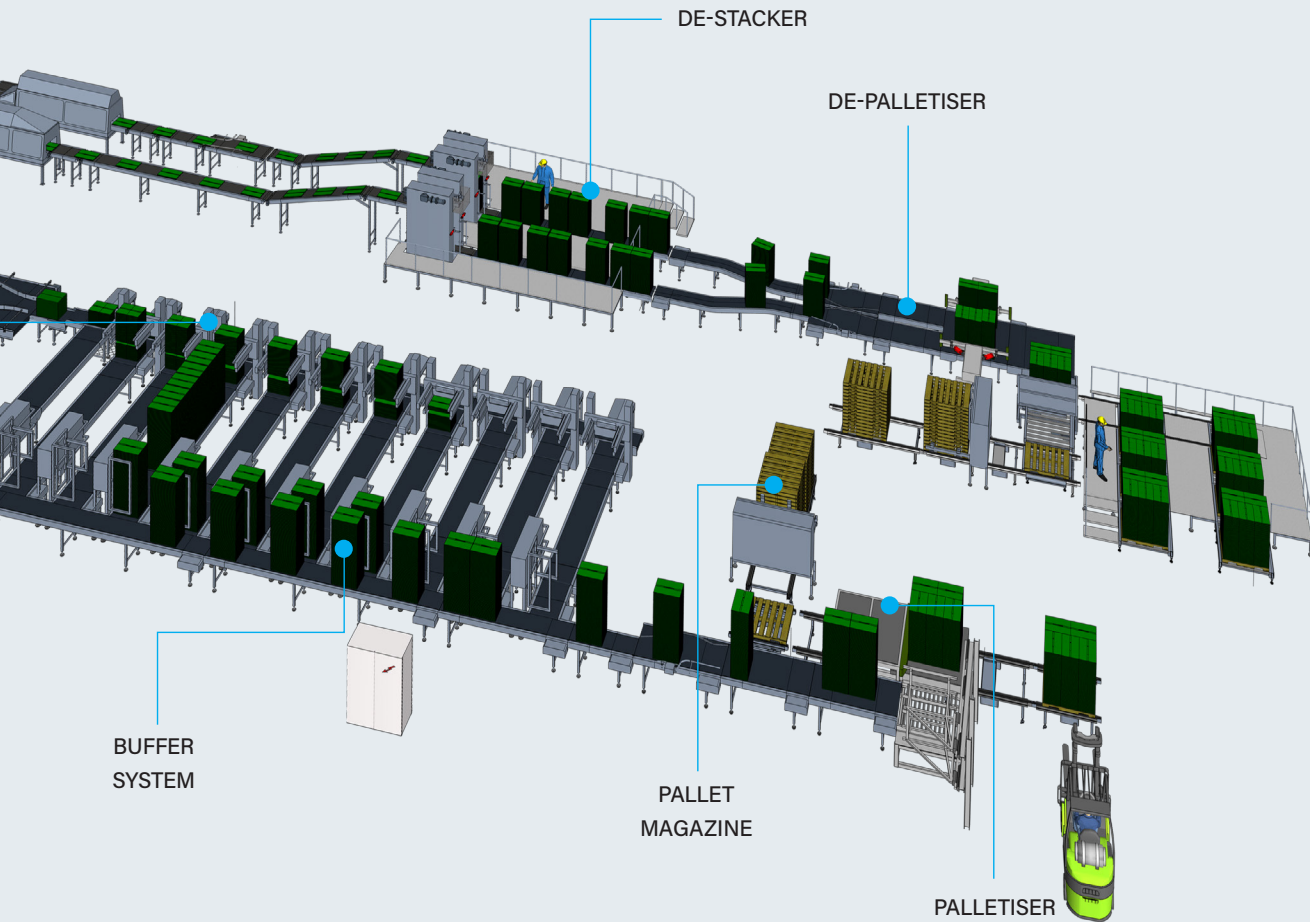




COMPLETE TURNKEY SOLUTIONS

We offer complete turnkey solutions for processing recyclable crates, bins, and other containers as efficiently as possible with minimal resource consumption and maximum effectiveness. Our solutions include washing systems, drying systems, handling systems, and monitoring and QC systems.

All Brüel solutions come with a list of recommended spare parts to stock, and we support our products with other value-added aftersales offerings that help you maximise efficiency and uptime, improve performance, lower CAPEX and OPEX, and reduce your carbon footprint.



INDIVIDUAL PROCESSING MODULES

Some of the modules that make up our complete turnkey solutions are also suitable for standalone applications.

We work closely with you to define your business requirements through a project process that covers all important aspects – whether you need a fully integrated solution with several processing modules or a standalone machine.

No two businesses are the same, and requirements vary. We make sure that we cover yours.

ENSURING HIGH PERFORMANCE AND ENERGY EFFICIENCY IN YOUR INDUSTRY

In any industry, high performance and energy efficiency are important to maximise revenue, lower OPEX, generate shareholder value, and preserve resources. All links in the value chain need to be optimised, and container handling is no exception.

We offer solutions that help you optimise your facility through energy-efficient, high-performance cleaning and handling of recyclable containers. And our solutions can be tailor-made to your application, facility, and objectives – in any industry.



POOLING & LOGISTICS

The ability to handle various crate types and sizes is important when you provide pooling and logistics services – as is the ability to comply with high efficiency requirements and stringent hygiene standards. Our washing, drying, and handling solutions can be specified and configured to handle different crate types in the same processing facility with consistently high washing and drying quality.

FRUIT & VEGETABLES

Fruit and vegetable shelf life is frequently prolonged using chemicals, but chemical residue needs to be removed after use. Our washing machines help you achieve this at washing temperatures down to 35°C, ensuring good results with low energy expenditure, and our handling modules include crate turners that quickly and efficiently empty crates of peels, leaves, stalks, and other waste.

MEAT PROCESSING

High standards of hygiene are critical in meat processing to avoid the spread of disease and prolong shelf life. Containers are stained with different types of residues that require a careful cleaning strategy, and our washing solutions comply with these stringent requirements, for example maintaining a consistent washing temperature between 45 and 48°C and targeting specific contaminants.

SEAFOOD PROCESSING

Maintaining high standards of hygiene in seafood processing can be a challenge. The mucus on fresh fish can glue scales firmly to container surfaces, requiring a carefully designed and efficient cleaning process. Brüel Systems solutions are carefully designed to remove all contaminants, for example by defining the precise required dissolving times for scales and the right rinse and washing temperatures.

BEVERAGE

From soft to alcoholic drinks, the beverage industry relies on high hygiene for efficient operations, but

requirements vary widely: Cleaning sugary residue off crates is different from removing protein stains, and in both cases fresh stains and dried-up residue need to be treated differently. Brüel Systems solutions can be specified to achieve and maintain the exact temperature needed in your facility.

DAIRY

In order to comply with hygiene requirements in the dairy sector, trays and other containers must be cleaned using extremely alkaline detergents, and your cleaning equipment must be able to withstand the chemicals used. All Brüel Systems modules can be specified in acid-proof steel (AISI 316L), and we ensure that all components are designed to deliver years of reliable performance.

BAKERY

Baking processes rely on a wide range of ingredients that pose very different cleaning challenges. Dough residue can cling to container bottoms and sides, and the grains used in coarse bread can clog washing system nozzles. Brüel Systems solutions are designed to achieve the exact results you require and help you achieve good cleaning results at the lowest possible cost.

PHARMA

In pharmaceutical manufacturing, compliance with stringent hygiene requirements is just the start; you must also trace and document every batch throughout the value chain. Our washing systems can be configured for a wide range of temperatures and detergents, and our monitoring and QC solutions give you a complete and detailed overview of your processes down to crate and pallet level.

OTHER INDUSTRIES

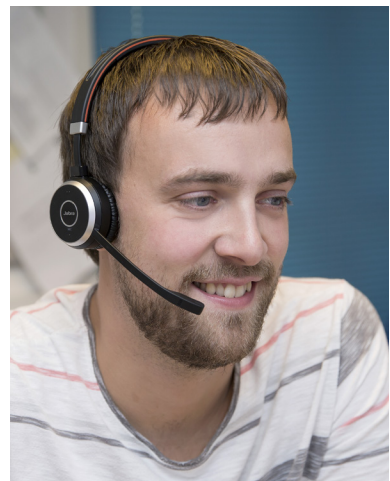
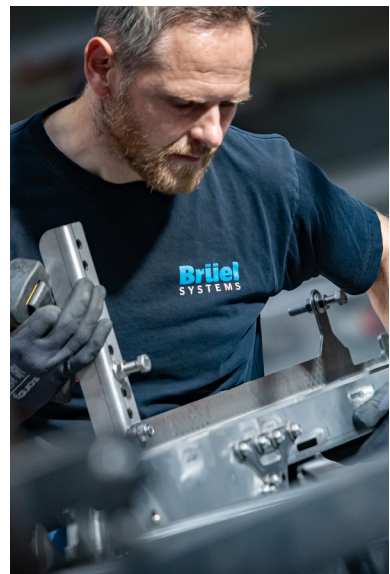
In any crate or container processing application, we can design and deliver cleaning, drying, handling, and monitoring solutions that meet your requirements. Our decades of experience and technical know-how enable us to work with you to design a solution that fits your requirements.

AFTERSALES THAT OPTIMISES PERFORMANCE, EFFICIENCY, AND CONTROL

Purchasing and installing processing equipment is just the start. As you start reaping the benefits in daily operations, you also need to consider taking steps to ensure that you will make the most of your investment. Our Aftersales department is ready to support you with service offerings and performance optimisation that keep your equipment running in top condition in the long term.

Our customers work worldwide, and so do we. We can provide aftersales support all over the world through our network of service technicians and service partners, and we provide 24/7 phone support so you can get fast answers no matter which time zone you are in.





OUR PROJECT PROCESS

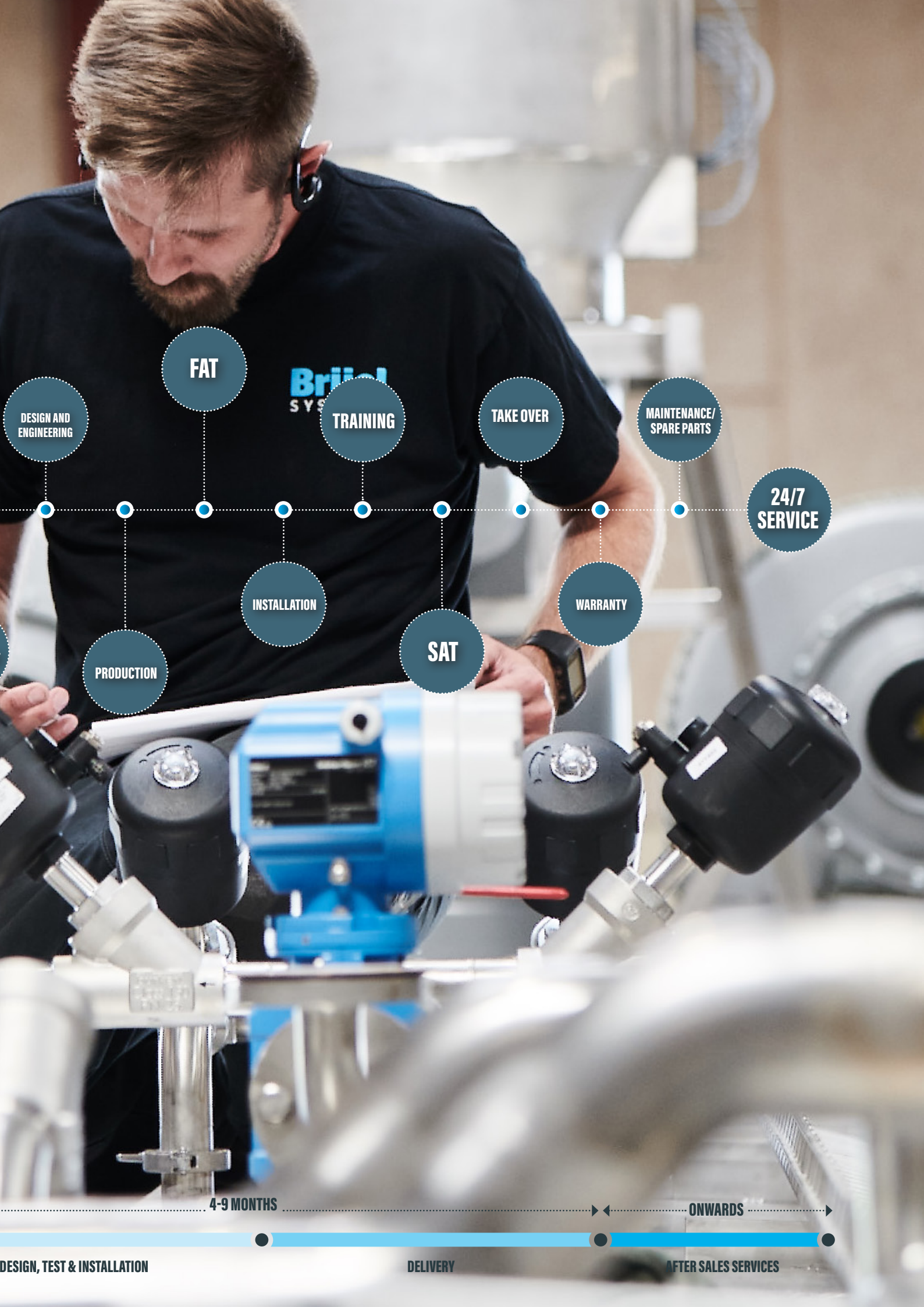
DEFINING YOUR BUSINESS REQUIREMENTS

What do you need from us? We have defined a project process that answers this question, in detail.

For large projects, we carefully identify and evaluate your requirements through an open initial dialogue, defining a turnkey solution that includes everything from processing modules, system integration, PLC control and system monitoring, operator training, commissioning, and aftersales offerings such as service, maintenance, and spare parts. Our solution also includes full financial details so you get a complete overview.

We then design, manufacture, install, test, and commission your solution. With Brüel Systems, you can build or expand your facility working with only one supplier.







OUR CONTRIBUTIONS TO A SUSTAINABLE WORLD

Our line of work fundamentally contributes to increased sustainability: By providing efficient cleaning and handling solutions for recyclable containers, we promote the reuse of packaging instead of relying on single-use cardboard or wooden containers. This reduces raw material consumption and plastic waste while ensuring high standards of hygiene.

We recognise, however, that being in a business that promotes recycling is not enough in itself. We therefore work every day to step up our contributions to a sustainable world.

<p>Our goal is to provide solutions which are energy efficient. We strive to improve and never become satisfied or complacent in relation to our results.</p>	<p>Our washing systems are built to recycle as much water as possible, reusing it in different stages of the washing process.</p>
<p>Our solutions enable recycling of plastic containers, contributing to reducing plastic waste and the use of packaging materials.</p>	<p>We advise our customers to use the right kind and amount of detergent to achieve good washing results and lower environmental impact.</p>
<p>We deliver our systems using less plastic packaging, reducing plastic waste while still ensuring safe and proper delivery of equipment.</p>	<p>We work actively to limit the amount of print-outs at our offices, reducing paper and ink consumption.</p>
<p>We carry out many customer and stakeholder meetings online, reducing transportation and carbon emissions in connection with physical visits.</p>	<p>We always consider ergonomics and posture in our solutions, contributing to a safer work environment.</p>

OUR MOST IMPORTANT ASSET

Our employees are committed to our journey and are not afraid to take responsibility. They are our most important asset, and we do our best to give them the best possible environment to develop, flourish, and succeed. We recognise and respect each individual employee, we give them the opportunity for influence, and we appreciate and value their contributions.





TRUSTED BY COMPANIES ALL OVER THE WORLD



FOR A SUSTAINABLE WORLD





IT WAS CLEAR TO US FROM THE BEGINNING...

...that Brüel Systems should be our partner. We participated in the whole process in close cooperation with the technical sales department at Brüel Systems. After the installation, a top service has followed, and we are never in doubt about who to contact for spare parts or when we need after sales service.

All in all a very good cooperation at all levels.

SØREN JENSEN,
HEAD OF THE TECHNICAL DEPARTMENT, LANTMÄNNEN UNIBAKE



OBVIOUSLY, WE WERE LOOKING FOR AN EXPERIENCED PROFESSIONAL PARTNER...

...that could provide the sparring that we needed when we moved from wooden to plastic pallets to ensure that the investment we were to make would be the right one. In our vision, we stress that we provide environmentally friendly solutions and that is a vision we share with Brüel Systems.

RAGNAR STRAND,
CEO OF NLP



WE ARE HAPPY TO HAVE CHOSEN BRÜEL SYSTEMS AS A COLLABORATIVE PARTNER

In 2014, Brüel Systems supplied a fully automated handling & washing system for our 15,000 m² site in Helsingborg. The system increased our capacity by 50%. We constantly work to simplify and improve sustainability throughout the supply chain of FMCGs and we are happy to have chosen Brüel Systems as a collaborative partner.

JOHAN LAGERGREN,
OPERATION MANAGER, SVENSKA RETURSYSTEM

www.bruelsystems.com



Brüel SYSTEMS

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