

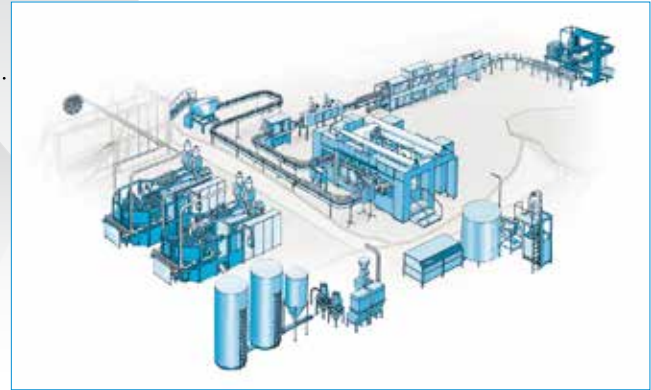
SF&DS<sup>®</sup>

Integrated Processing and Packaging Solutions



# JBT Food and Dairy Systems

Combining products to create maximum synergy. Specializes in the design, engineering and manufacturing of processing and packaging machinery for the dairy and food processing industries.



Integrated aseptic line concept

Integration cuts costs, improves quality and taste

At the end of the production line, the quality and shelf life of your products depend on effective processing, filling, and packaging. JBT SF&DS has incorporated these three aspects in one concept. To help set up an effective and flexible process system, JBT supplies a range of pasteurizers, sterilizers, bottle blow molding units and aseptic and hygienic fillers. All units are developed to be integrated with each other and with your production process. This gives you complete control and comprehensive production logs, so you always know what's happening with your products.

Perfectly in shape

JBT has years of experience in helping customers improve the quality and shelf life of their products through effective processing and packaging solutions.

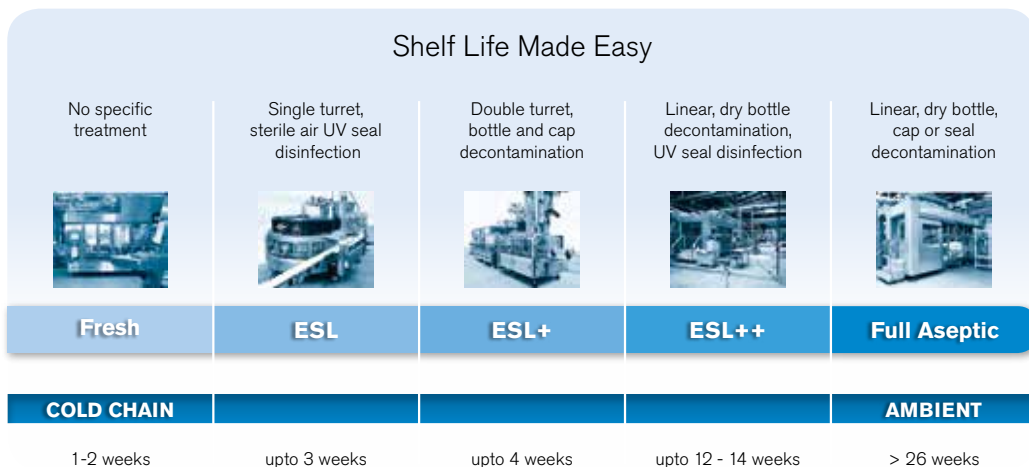
The JBT SF&DS Playing Field  
Decision Criteria Low Acid "Playing Field"

Shelf Life	Ambient	Freedom in bottle design - Brand recognition - Freshness <b>Aseptics</b>		
	ESL		<b>EXTENDED SHELF LIFE</b>	Eliminate cold chain consumer convenience
		Less Sensitive	Rather Sensitive	Very Sensitive
<b>Sensitive to heat</b>				

With JBT equipment you can set up a flexible processing and packing line to handle your products efficiently while optimising their quality.

Not only by building machinery, but also by offering marketing solutions that make products that stand out from the crowd. We have machinery for extended shelf life and sterile products. Our range includes pasteurisers, sterilizers, bottle blow moulders and hygienic and aseptic filling machines. You can rely on us to help you select the right concept to handle a wide variety of products, improve shelf life, and keep detailed production data to meet regulatory requirements.

All to provide you with the best possible product and packaging that fits the brand's strategy.



## Processing

### JBT Sterideal® Coil and SteriTwin-Coil™ UHT processor

There are two technologies for UHT processing: indirect heating and direct heating. For standard applications we offers the indirect JBT Sterideal Coil system. This tubular in-flow processor is used for pasteurising and sterilizing dairy products, fruit juices, sauces and other liquid food products. The indirect process, with its unique helical configuration of the concentric tubes, ensures an effective thermal regime combined with efficient heat recovery. This saves energy costs and optimizes the taste and shelf life of your products. A typical maximum process temperature is 140°C (284°F). JBT Sterideal Coil units can also process highly viscous products and products with particles. Capacity: 2,000 to 24,000 litres per hour (8.8 - 105 gpm).

For special applications, requiring an even higher process temperature, we recommends the SteriTwin-Coil. The SteriTwin-Coil consists of two units, an indirect system and a direct system. Depending on the required process, it is possible to use the indirect heating system on its own or a combination of both systems. In other words, with SteriTwin-Coil you can take advantage of the benefits of both direct and indirect heating.

The SteriTwin-Coil can process a wide range of products, using direct or indirect heating for greater flexibility. Capacity: 2,000-24,000 litres per hour (8.8 - 105 gpm).



**Sterile tanks are available at a capacity of 10K-50KL (2,600-13,000 gallons).**

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## SF&DS filling systems

JBT SF&DS offers an extensive range of filling solutions, perfectly suited to your production process and needs.

### JBT Rotary Fillers

JBT Rotary Weight Fillers have an extremely accurate, non-contact filling system which minimizes product give-away. The fillers for bottles and cups are equipped with effective C.I.P. provisions and a HEPA conditioned filling space (optional). The system can be combined with a bottle rinsing unit and a capper/sealer to form a monoblock machine, which leads to reduced footprint and greater reliability. These fillers are offered in different dairy fill types in order to meet the customer's needs (standard, high hygienic, and ultraclean). The machines are available with a speed of 30,000 bottles/hour.

JBT Rotary Fillers can handle a wide range of high and low viscosity products. From fruits and vegetables to several types of dairy as well as spirits, JBT's expertise will be able to help your company perform more efficiently than ever before.





**JBT AsepTec® - Linear Filler**

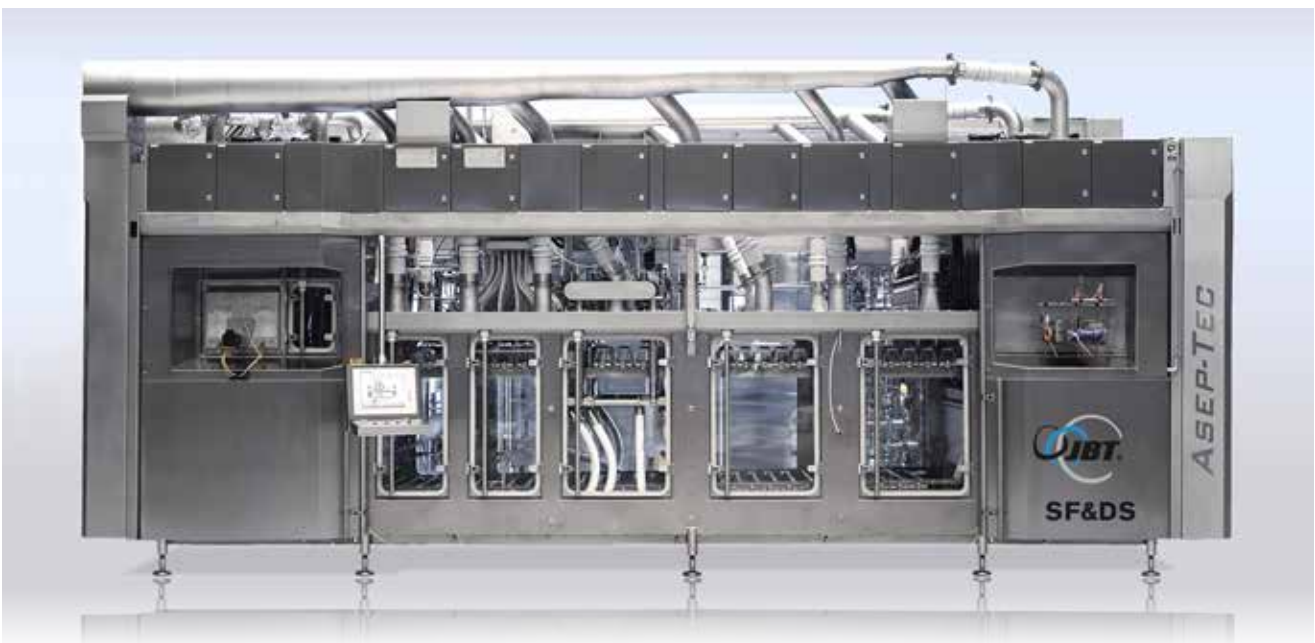
The JBT AsepTec is a unique linear aseptic filler. It stands out by the range of products and bottles (HDPE, PP, PET) it can handle, its high speed, its reliability, and its flexibility. The JBT AsepTec was designed from the ground up to provide carefully controlled and verifiable filling conditions as well as to meet the strict requirements of the validation-by-design concept. By identifying the factors which reduce the reliability and sterile conditions of conventional fillers we avoided them in our new design, thus creating a new generation of filler.

The JBT AsepTec can change-over between different container shapes, sizes and or product without breaking sterility in less than 30 minutes and is available with a maximum capacity of 30,000 bottles/hour.



**Applications**

JBT AsepTec units can handle high and low viscosity products, and even products containing solids, so a single filler can handle your full product range.



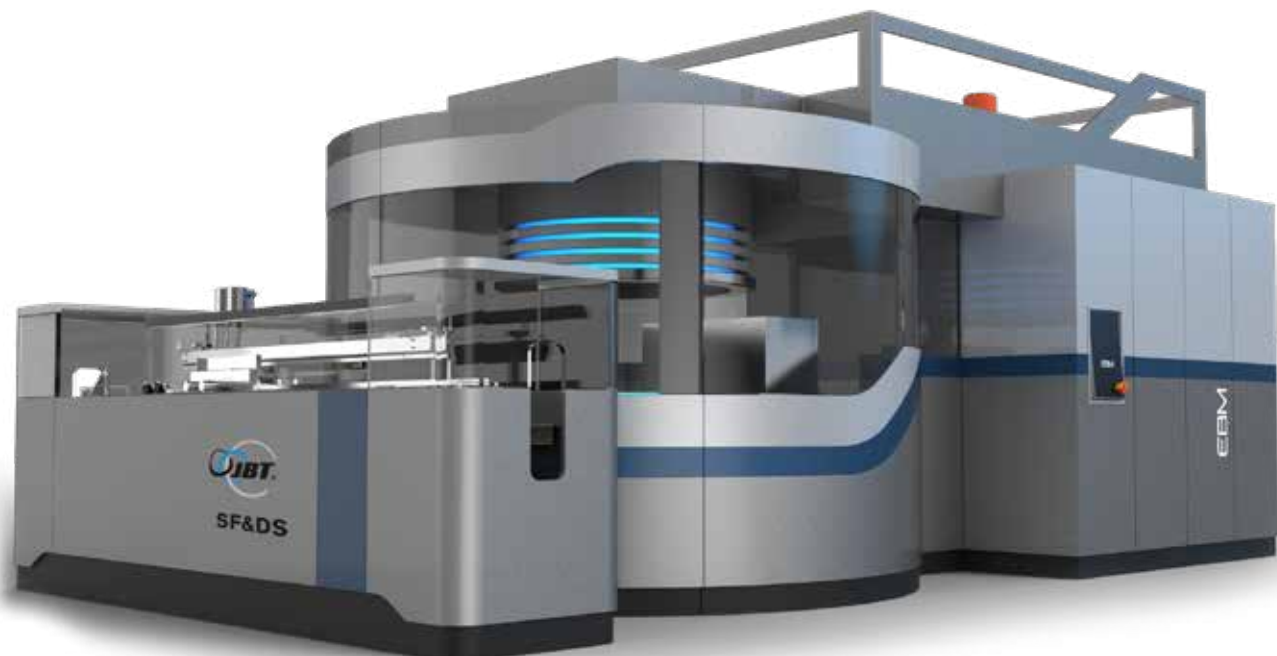
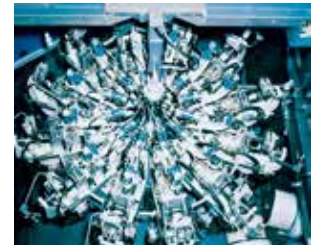
**JBT SF&DS BottleTec™ (Extrusion Blow-Molder)**

Innovative bottle designs can make your product stand out and lead to stronger brand recognition. The JBT SF&DS BottleTec (Extrusion Blow-Molder) produces bottles in a wide variety of shapes and sizes with molds that are easily changed to accommodate different container designs.

JBT SF&DS BottleTec equipment produces lightweight HDPE bottles, which are available both in open, non-sterile and in closed, internally sterile versions. Bottles can range in size from 0.2 to 1.5 liters (6.75 - 50 fl oz).

The centerpiece of the JBT SF&DS BottleTec is the carousel, which contains the bottle molds. Depending on the capacity required (up to 7,500 bottles per hour) it is possible to fit between 4 to 15 molds per carousel. The BottleTec can be converted to a different bottle mold in minimal time.

JBT SF&DS BottleTec units are designed to produce mono or multi-layer bottles with oxygen and UV light blocking layers to protect the product from external influences. In these cases the equipment will be supplied with extra extruders so that 3-layer bottles (light barrier) or 6-layer bottles (light and oxygen barrier) are produced in a co-extrusion process.





**JBT SF&DS at your service**

JBT SF&DS cooperates with you throughout the lifetime of the machine and adds value before, during and after supplying solutions. We can offer advice on a broad range of subjects like process design and system integration, to give the customer the necessary consideration for future investments. As part of the service, JBT shares as much information as possible with its customers. This means general information, as well as customer specific information such as maintenance schedules, reports, upgrades and projects, is easily accessible through our website. Maintenance Programme

JBT works closely with costumers to set up a dedicated maintenance plan, which leads to minimum production downtime and maximum reliability. All critical spare parts will be identified, listed and stocked by JBT to guarantee availability. Regular feedback meetings will take place to evaluate the efficiency of the programme. This way, the maintenance plan will become more effective and efficient, as it is constantly tuned to suit the specific situation.

**Training**

JBT offers customized training to groups of staff on site in order to create maximum involvement of your staff. Several modules ensure the training can be adapted to individual needs. There are different levels such as a basic training level, operator level and engineering level. If desired, training sessions can be completed with examinations.



**Diagnostics Services**

To achieve the highest operational efficiency, important process variables need to be recorded. JBT can offer dedicated software with matching hardware to improve data collection, data storage and data access. It generates reports, clearly showing OEE (Overall Equipment Effectiveness), process statistics, used energy and the information about maintenance. Over a prolonged period, this data reveals trends, which can be used to fine-tune the process.

**Support and Spares**

JBT SF&DS Service support team can remotely access your machine to analyse a problem. Spares can be shipped to you and if necessary an engineer can assist with the repair on location. On "www.MyJBTSYSTEMS.com", our website, the availability of spare parts can be checked and if necessary they can be ordered 24 hours a day.

**Updates and Retrofits**

The aim of a retrofit is to improve the performance of an existing function or to add new functions to a machine. In close cooperation with your organization, JBT can set the criteria and evaluate investments in the light of the total Life Time Cost (Total Cost of Ownership). Investments can be judged on for example 'costs per litre' or 'Return on Investment'. JBT continuously seeks ways to reduce both operational and initial costs.

**JBT SF&DS Technology Centres - helping to develop your product**

JBT has Technology Centres in the Netherlands where you can aseptically fill your products at a semi-industrial scale using the wide range of equipment, including in-container sterilizers, UHT processing units, blow moulders and a range of (aseptic and non-aseptic) filling machines available.



Our experienced engineers and technicians will help you to optimise your operations. The Technical Centres you can produce your own test samples, realize a taste panel survey and optimize formulas.

## COUNT ON JBT TO HELP PROTECT YOUR INVESTMENT

JBT's greatest value in PRoCARE® services comes from preventing unexpected costs through smart, purposeful, and timely maintenance based on unmatched knowledge and expertise. PRoCARE service packages are offered as a maintenance agreement in various service levels, depending on your production and cost management requirements.



### JBT LIQUID FOODS

FRESH PRODUCE TECHNOLOGIES | FRESH-CUT, ROBOTICS, STEAMING | FRUIT AND VEGETABLE PROCESSING | SECONDARY PROCESSING | ASEPTIC SYSTEMS | FILLING AND CLOSING | IN-CONTAINER STERILIZING | TRAY SEALING | HIGH-PRESSURE PROCESSING | POWDER PROCESSING | TUNA PROCESSING

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We're with you, right down the line.™

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