



Research & Technology Center

Sint Niklaas, Belgium



Yes we CAN!

A pilot plant dedicated to serve our customers

Direct contact: rtc.belgium@jbt.com

The JBT Research & Technology Center (RTC) in Sint-Niklaas provides:

- Wide range of process authority consulting and validation services recognized by FDA and USDA.
- In-container processing expertise
- Filling and closing expertise
- Water treatment support
- European staff of four highly experienced thermal processing experts

In-container Sterilization Systems

Thermal process studies can be performed either in your laboratory, factory or in our 600 m² pilot facility in Sint-Niklaas (Belgium).

Our pilot plant and laboratory facility are capable of preparing products in a kitchen area and performing the required heat penetration studies. Can integrity tests are also performed in our laboratory sterilizers.

Our RTC is equipped with the most modern measurement technology for thermal process data collection and data analysis, both for continuous and batch systems. Pilot equipment for food product preparation, filling and seaming on semi-industrial scale is also available.

Our process technology scientists and technicians possess extensive knowledge of all kinds of industrial sterilizers, both continuous and batch.



SuperAgi™ Agitating Batch Retort

The simulation capabilities are based on:

- Continuous Rotary Sterilizer: 804 and 610-B simulator
- Stationary Waterspray, Agitating Waterspray, Hydrostatic Sterilizer, Stationary Steam, Full Water Immersion, Partial Immersion, 100% steam: AR091 Multipurpose Laboratory Pressure Sterilizer and SuperAgi-Multifunction Sterilizer

Variable simulation-parameters for the Multipurpose Laboratory Pressure Sterilizer: all factors (temperature, pressure, time, agitation speed, etc.) can be modified within the control system to provide almost unlimited combinations to meet all testing needs.

In addition to heat penetration and cooling rate studies, the Multipurpose Laboratory Pressure Sterilizer can be used to study container behavior and strength (container integrity) under a variety of processing conditions. A special custom-made version of the AR091-H simulator is available for this purpose.

Filling and Closing Systems

The Technology Center offers the equipment to perform filling and closing studies. A monovalve Unifiller (XL-U001) and a SeamTec ST206-F2 are available. For filling studies a steam tilting cooking kettle to preheat the product is installed directly next to the monovalve Unifiller.

Validation and Consulting Services

- Process validation of newly installed sterilization equipment and re-validation of existing equipment (temperature distribution, heat transfer distribution, heat penetration)
- Based on these studies JBT provides:
 - Validation Reports
 - Process Deviation Analysis
 - Reference Letters for Thermal Process Filing (FDA)
- JBT's Research and Technology Center comprises a broad range of data collection equipment for temperature and pressure. We can, for example, simultaneously measure up to 128 channels, wired and/or wireless.

Container Performance Testing

We help you develop new packaging solutions for existing machinery by determining container specifications (can deformation testing, bulging, deflection, etc.) in conjunction with thermal processing studies.

Training & Audits

- Thermal processing training
- Operator training
- Processing NumeriCAL™ software training

Thermal Process Development

Our RTC has accumulated widely appreciated know-how in virtually all process-related issues and will help you develop the optimal process for your equipment/product combination, either in your own facilities or in our pilot facility. We can simulate any type of sterilizer to help you with:

- Development of new sterilization processes
- Process optimization

Our RTC also assists you in optimizing the filling and seaming operations for your JBT equipment.

- Can Seaming Performance
- Can/Jar Filling Performance



Kitchen/Formulation Area

The product preparation area includes:

- Mixing equipment
- Lab closing machines (all can sizes)
- Pouch sealer
- Tray sealer
- Heating (cooking) and cooling equipment

Measurement equipment

- Tenderometer
- Viscosity
- Density
- Water analysis
- ATP measurement
- Refractometers
- Residual air
- Calibration baths

WE ARE YOUR SINGLE SOURCE FOR PROFITABLE PROCESSING SOLUTIONS

JBT is a leading provider of integrated food processing solutions. From single machines to complete processing lines, we enhance value and capture quality, nutrition and taste in food products. With a local presence on six continents, JBT can quickly provide our customers and partners in the food processing industry with the know-how, service, and support needed to succeed in today's competitive marketplace.

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

OUR BRANDS



Europe

John Bean Technologies SpA
Via Mantova 63/A
43122 Parma
Italy
Phone: +39 0521 908 411
Fax: +39 0521 460 897

John Bean Technologies NV
Breedstraat 3
9100 Sint-Niklaas
Belgium
Phone: +32 3 780 1211
Fax: +32 3 777 7955

John Bean Technologies Foodtech Spain S.L.
Autovía A-2, Km 34,400 - Edificio 1 y 3
28805 Alcala de Henares
Madrid, Spain
Phone: +34 91 304 0045
Fax: +34 91 327 5003

JBT Food & Dairy Systems
Deccaweg 32
1042 AD Amsterdam
The Netherlands
Phone: +31 20 634 8911
Fax: +31 20 636 9754

North America

John Bean Technologies Corporation
400 Fairway Avenue
Lakeland, FL 33801
USA
Phone: +1 863 683 5411
Fax: +1 863 680 3672

John Bean Technologies Corporation
2300 Industrial Avenue
Madera CA 93639
USA
Phone: +1 559 661 3200
Fax: +1 559 661 3156

A&B Process Systems Corporation
212700 Stainless Ave.
Stratford, WI 54484
USA
Phone: +1 715 687 4332
Fax: +1 715 687 3225
abprocess@jbt.com

South Africa

John Bean Technologies (Pty) Ltd.
Koper Street
Brackenfell
Cape Town, South Africa 7560
Phone: +27 21 982 1130
Fax: +27 21 982 1136

South America

John Bean Technologies Máq.
e Equip. Ind. Ltda.
Av. Eng Camilo Dinucci 4605
14808-900 Araraquara, São Paulo
Brazil
Phone: +55 16 3301 2000
Fax: +55 16 3301 2144

John Bean Technologies Argentina SRL
Uruguay 1525
San Miguel de Tucumán
T4000BAG Tucumán
Argentina
Phone: +54 381 423 5322
Fax: +54 381 423 3799

Latin America

JBT de México S de RL de CV
Camino Real a San Andrés Cholula No. 2612
Col. San Bernardino Tlaxcalancingo
72820 San Andrés Cholula, Puebla
México
Phone: +52 222 329 4902
Fax: +52 222 329 4903

Asia Pacific

John Bean Technologies (Kunshan) Co., Ltd
No. 298 Shansong Road, Yushan Tow,
Kunshan City, Jiangsu Province
PRC 215300 China
Phone: +86 512 3663 0500
Fax: +86 512 3663 0550



We're with you, right down the line.™

hello@jbt.com | jbt.com

