

FTNON

Pet Food Technology



For the production of wet pet food
for cats and dogs

FRESH-CUT, ROBOTICS, STEAMING

jbtc.com

Over 35 years JBT FTNON has built up vast experience in the field of wet pet food technology, with a wide range of installations, which have been used very satisfactorily by all leading pet food manufacturers worldwide. Thanks to our advanced pet food technology our customers were able to improve efficiency and optimize the quality of their products.

JBT FTNON Delivery programme

To our systems for the pet food industry belong:

- Product hoppers with pump systems
- Colour dosing systems
- Extruders
- Steam tunnels with stainless steel belt
- Steam tunnels
- Steam tunnels with Teflon coated Kevlar belt
- Steam tunnels, type DCC
- Cooling conveyors
- Infeed belts to cutting units
- Cutting units
- Dynamic 3 belt systems and buffer conveyors



Product hoppers with pump systems

JBT FTNON Emulsion hoppers. The system can be provided with one or two mono pumps, depending on whether you want to work with 2 colours and/or different recipes

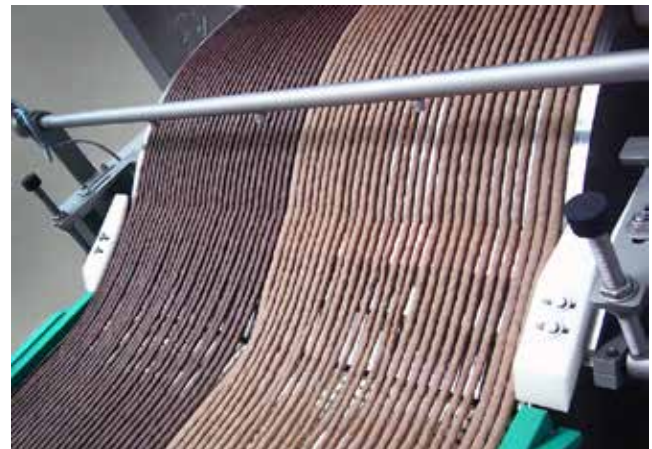
Possible capacities:

- 1,000 litres / ± 264 Gallon (US)
- 2,000 litres / ± 528 Gallon (US)
- 3,000 litres / ± 792 Gallon (US)

Colour dosing systems

In case of need for different coloured chunks, it is possible to apply the JBT FTNON colour dosing systems.

- Capacity 500 kg/h / ± 1,100 lbs/h to 5,000 kg/h / ± 11,000 lbs/h



Extruders

The extruder takes care of the production of strands or ropes of meat paste. Each die for extruding strands/ropes of pet food is custom-made. It is possible to supply various forms and dimensions, including one complete layer.

- Open hopper

Possible widths 400 or 800 mm / $\pm 16"$ or 31.5"

Steam tunnels with stainless steel belt

Steam tunnels with stainless steel belt:

- Possible widths
400, 800 or 1,600 mm / $\pm 16"$, 31.5" or 63"
- Length will be determined on the basis of the desired capacity
- Possible capacities
500 kg/h / $\pm 1,100$ lbs/h to 6,500 kg/h / $\pm 14,300$ lbs/h



Steam tunnels

Through an extruder strands or ropes of meat paste enter the steam tunnel on a conveyor belt. Then, with the aid of steam, the meat is cooked. Compared with cooking with water the steam tunnel is a more efficient method of obtaining the same, and even better product quality. When the cooked meat arrives at the end of the tunnel, it is cut in pieces by a cutting unit. After that the product will be cooled, packed in, for example, tins or pouches, and then sterilized.

In respect of steam tunnels JBT FTNON supplies following systems:

- Steam tunnels with stainless steel belt
- Steam tunnels with Teflon coated Kevlar belt
- Steam tunnels, type DCC



Steam tunnels with Teflon coated Kevlar belt



Steam tunnels with Teflon coated Kevlar belt:

- Possible widths
800, 1,200 or 1,600 mm / 31.5", 47" or 63"
- Length will be determined on the basis of the desired capacity
- Possible capacities
500 kg/h / \pm 1,100 lbs/h to 6,500 kg/h / \pm 14,300 lbs/h

Steam tunnels type DCC

The JBT FTNON DCC – Dynamic Cloud Control is a revolutionary steaming technology, that considerably improves the energy efficiency of steamers. The new concept is based on the intelligent use of difference in density between atmospheric steam and air. Thanks to this technology you will be able to realize an end product of excellent quality, at lower unit costs. The steam tunnel, type DCC, is only available with a Teflon coated Kevlar belt.

Cooling conveyors

After being steamed the products can be cooled by means of the JBT FTNON Cooling systems.

- Possible widths
400, 800, 1,200 or 1,600 mm / \pm 16", 31.5", 47" or 63"
- Number of ventilators and length will be determined on the basis of the desired capacity
- Length depending on capacity and lay-out of factory.



**Steam tunnel, type DCC.
The DCC system considerably improves the energy efficiency of steamers.**

Dynamic 3 belt systems and Buffer conveyors

The dynamic buffer system is designed to prevent the steam tunnel from stopping when there is a short "error" or "stop" at the end of the line (multihead weigher). This buffer system operates in a FIFO order (First In First Out).

- Length and width of the belts will be determined on the basis of capacity and lay-out of the factory.

Infeed belt to cutting unit

Conveyor to transport strands/ropes of pet food to the cutting unit.

- Possible widths
400, 800, 1,200 or 1,600 mm / \pm 16", 31.5", 47" or 63"
- Width depending on width of the steam tunnel

Cutting unit

- The cutting unit is used for cutting strands or ropes into chunks. All cutting units will be provided with a variable system in order to be able to cut with an angle from 0 to 45°.
- Possible widths
400, 800, 1,200 or 1,600 mm / \pm 16", 31.5", 47" or 63"

The 1,600 mm / 63" width system can be provided with a double shaft and knife stand. In this way it is possible to cut various chunk lengths at the same time, independently of each other.



Controls

The control system is equipped with a PLC with touch screen. The touch screen is integrated into the control panel door and allows to access the steamer settings. The actual process parameters are displayed on screen. All cables runs through stainless steel rings to avoid unnoticed debris accumulation.

The Controls include:

- Main power switch
- Emergency stop (1 on the panel, 2 on machine)
- VFD for the conveyor(s)
- VFD for ventilators cooling belt
- 2x VFD for cutting unit
- Automatic steam control by PLC
- Automatic hood lifting by DOL
- Automatic belt steering system
- Display of actual retention time in minutes/seconds
- Display of actual temperature
- Manual, Auto and Cleaning mode
- Alarms
- Recipes (100)
- Multiple clearance levels possible (operation, PID settings).

Safety

Key-lock safety switch on cutting unit.

Emergency stops.

Important in case of steam tunnels, type DCC

The infeed side and the outfeed side of the machine have to be placed in one room, where the pressure is the same.

Air movement will disturb the steam cloud and therefore the steaming process. This means that air movement around the machine should be eliminated. Otherwise it is not possible to guarantee the steaming process.

JBT FTNON can change the execution if this does not impact the functionality of the equipment. All mentioned sizes, capacities and figures are indicative. No rights may be derived from the information provided.

JBT FTNON delivers tailor-made machines. Therefore capacity and dimensions will depend on your product and specific requirements. All our machines are constructed of stainless steel wherever possible and comply with the stringent, international standards in the field of safety and hygiene.



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 DIVERSIFIED FOOD & HEALTH

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

JBT PROTEIN PROCESSING

PRIMARY CHILLING | WEIGHING | PUMPING | CUTTING-UP | SKINNING | WATER RE-USING **SECONDARY** BRINE PREPARATION | HOMOGENIZATION | INJECTION INJECTION & RETURN MILLING | MACERATION | MASSAGING | TENDERIZATION | TVI MEAT SLICING | AUTOMATED TRAY LOADING

FURTHER WEIGHING | PORTIONING/TRIMMING | COATING | FRYING & FILTRATION | PROOFING | COOKING | COOLING | CHILLING | FREEZING | REFRIGERATION | CLIPPING & PACKAGING SOLUTIONS | X-RAY TECHNOLOGY | TRAY SEALING | HIGH-PRESSURE PROCESSING

OUR BRANDS



Europe

JBT FTNON B.V.
F. Hazemeijerstraat 600, Building B05
7555 RJ Hengelo
The Netherlands
Phone: +31 546 574 222

North America

FTNON USA, Inc.
30 East San Joaquin #203
Salinas, CA 93901, USA
Phone: +1 831 274 6007

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

JBT Corporation
1660 Iowa Avenue, Suite 100
Riverside, CA 92507 - USA
Phone: +1 951 222 2300
Fax: +1 951 788 1761



Asia Pacific

John Bean Technologies (Shanghai) Co., Ltd.
Room 1908, Hongwell International Plaza,
1600 West Zhongshan Road,
Xuhui District, Shanghai 200235,
PRC
Phone: +86 21 3339 1588
Fax: +86 21 3339 1599

We're with you, right down the line.™

hello@jbt.com | ftnon.com | jbt.com

