

Model FTE Juice Extractor



A versatile centrifugal refiner to extract juice from a wide variety of fruits and vegetables

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The JBT Model FTE Turbo Extractor has been designed to provide efficient, high performance juice extraction with Hot Break and Cold Break fruit, tomato and vegetable products.

The unit offers the following benefits:

Efficiency and Flexibility

The fixed pitch rotor has been engineered with a straight blade to exert the highest possible degree of centrifugal force to the product at the lowest possible input energy. The result is maximum juice yield, low waste stream moisture content and enhanced energy efficiency.

Conical screens are precision manufactured from heavy duty materials with the highest possible open area to optimize throughput. A wide range of hole sizes are available in step or conical drilled hole patterns.

The high precision conical rotor and screen configuration is extremely concentric between the outer edge of the rotor blades and the screen surface. This ensures optimal use of entire screen area. Adjustments are provided to easily reset concentric precision to factory specifications while in the field.

Product Quality

The high efficiency rotor design provides gentle handling of waste material. This prevents seeds, stems and foreign material from being broken or damaged and introduced into the juice output stream. Positive conveying of the waste material to the discharge of the unit is also ensured.

Ruggedness and Simplicity

The Model FTE features a unique, heavy duty one piece screen with a “turn and lock” mounting system. This allows screen changeovers in just minutes without the need for a screen press and/or other specialized tools.

Tangential inlet ensures uniform distribution of the product into the screen-rotor area. This feature allows the door to be opened without piping disassembly for fast, easy inspection access and cleaning or screen changeover.

An external hand wheel with precision indicator is provided for easy adjustment of the screen-rotor clearance during operation.

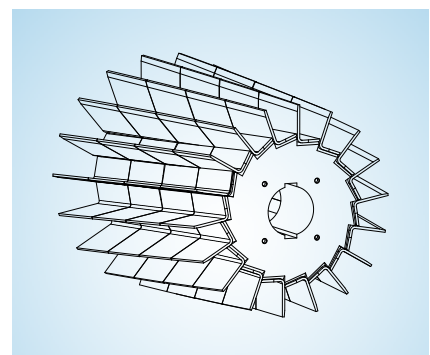
The entire frame is constructed of heavy duty stainless steel for positive support along the entire length of the unit.

Main rotor blades are fabricated from a special alloy for hardness and wear resistance.

Waste discharge area is provided with a separate four-bladed paddle to ensure positive removal of waste material.

Samples of waste material are easily and safely collected with the integrated sample gate and collection pan.

An oversized drive shaft with heavy duty bearings and reliable oil bath lubrication ensure



longevity and minimal maintenance. Periodic greasing of bearings is eliminated with the oil bath system.

Cleaning

The unit is typically supplied with a fully automatic CIP system including internal spray nozzles, timer system and automatic valves for water or caustic. The spray nozzles are located around the screen for thorough, uniform cleaning. Automatic valves for control of product and drain are also available to further automate cleaning operations.

Configurability

Two FTE models are available:

Model FTE 50 rated up to 55 US TPH on hot break tomato, 33 US TPH cold break tomato.

Model FTE 100 rated up to 110 US TPH on hot break tomato, 65 US TPH cold break tomato.

The flexible, shaft-coupled motor is rated for variable frequency operation. Horsepower range of 75 to 150 HP, depending on model and application.

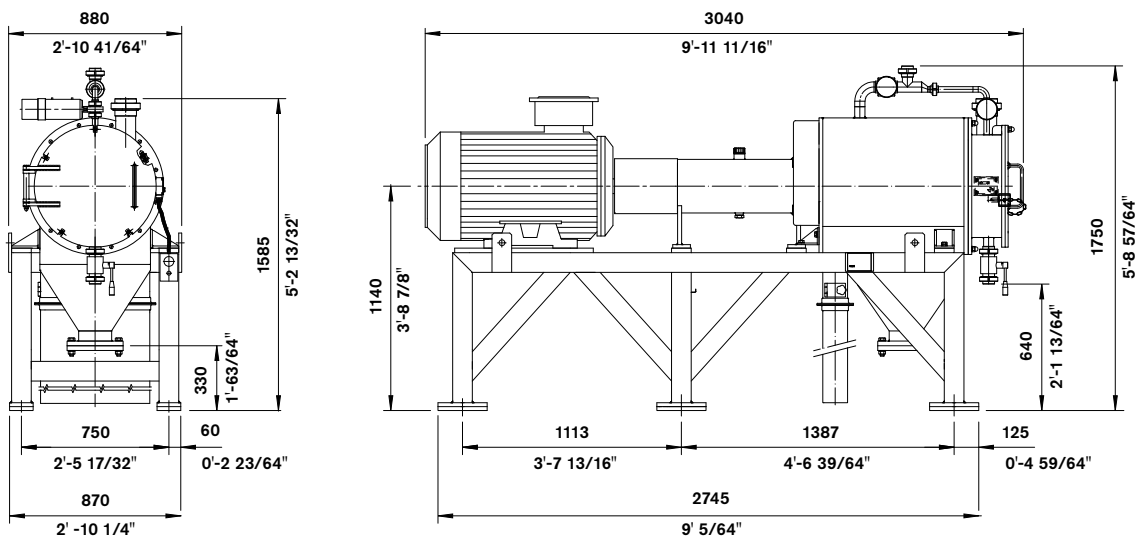
Units can be supplied with a number of control system options:

- Complete PLC based control system for CIP cycle, inlet-outlet valve control and speed control.
- Prewired junction box for easy connection to customer-supplied control system.

All units are supplied standard with safety interlock for doors.



FTE Juice Extractor - Approximate Specifications



Power installed: 55-75-90-110 kW
 Capacity: Hot Break processed tomatoes 100-110 t/h
 Capacity: Cold Break processed tomatoes 60-65 t/h

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.



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