

STEIN  
**M-fryer**



High-quality immersion frying for the global processor



# Frying perfection

The M-fryer is the first of a new generation of immersion fryers from Stein and JBT. It is engineered specifically to match the needs of global convenience food processors.

## Market-driven development

Consumers around the world, motivated by growing affluence and the hectic pace of modern life, use convenience foods at an ever-increasing rate – even for at-home dining. And many food service providers, particularly quick-service restaurants, utilize processed foods to ensure uniform quality, shorter preparation times and greater food safety.

It's a consumer-driven market, and the continuously growing range of choices forces the entire industry – processors and food service providers alike – to increase quality, product range and food safety while simultaneously reducing costs.

Stein can now offer you an immersion fryer that really sets the pace for your processing line and operating margins, by giving you:

- First-class, product quality and consistency
- Cost-effective production
- Excellent process flexibility
- Verified process- and product safety

... all from the world's leading supplier of integrated processing solutions for convenience food products.

## Multiple processor benefits

The M-fryer builds on the solid foundation of proven THERMoFIN™ technology, the choice of many of the world's leading food processors. It delivers maximum output and operating economy. At the same time, it offers you great flexibility in terms of product range. You will benefit from the M-fryer's ability to:

- **Improve product quality by keeping oil fresher.** Higher food product quality results from many features, the most important being the proprietary THERMoFIN system's gentle heat transfer, which protects the oil from the degrading.
- **Deliver cost-effective frying,** because low tank volume, gentle and uniform heat transfer and highly efficient sediment removal decrease your oil costs.
- **Increase operating profitability.** Fast product change-over, user-friendly controls and a wide range of configurations deliver optimum performance.
- **Ensure food safety and promote processing safety,** because the M-fryer was designed with a high-level cleanability, exact process control and operating safety in mind.
- **Facilitate long-term flexibility and profitability,** because the M-fryer's modular design permits many configurations and options, matching its function to your processing needs – no matter what you produce, or where you produce it.



### Improved performance with the Stein M fryer

The Stein M-fryer enables top-class product quality, which drives consumer satisfaction and processor profitability.

## Get the fryer you need, today and in the future

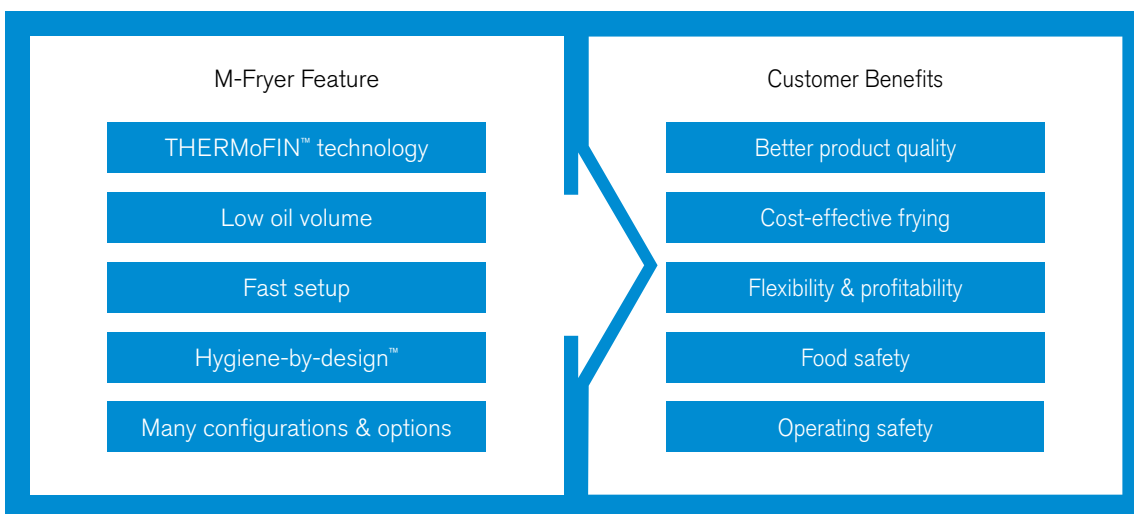
Your profitability and revenue growth are the key factors motivating our differentiated frying technology.

By helping you to produce uniform, first-class product quality today, we aim to provide you with the tools for long-term growth and profitability.



**Excellent product quality**

The M-fryer's superior oil handling delivers both improved oil quality and lower oil cost, thanks to its lower oil volume and turnover, the unique THERMoFIN heat exchanger design, and better oil treatment.



# Matched & modular – to answer your needs

As a processor, your highest priorities are a first-class product quality, processing safety, cost-effective production, operational flexibility and verifiable food safety.

The M-fryer was developed to fulfill each of these goals with ample margins. Its superior oil handling, precise controls and complete cleanability help ensure food quality as well as food safety.

Your feedback played a vital role in the M-fryer's development, and we have responded to your needs. Its differentiated modular design aims to give you greater flexibility in planning and production as well as measurable performance improvement in your day-to-day processing efficiency. But that's only the start.

## Ensure product quality & cost-efficiency

Oil handling and oil cost are key concerns. Better oil management raises food product quality and reduces operating cost:

- **Gentle heat transfer** inherent to THERMoFIN™ technology reduces oil degradation – the oil stays fresher longer.
- **Reduced tank volume** means a smaller volume of oil is needed to fulfill the job – increasing oil life.



The M-fryer was designed 'from the ground up' to ensure you measurable operating efficiency, better food product quality, greater operating flexibility and superior food safety.

- **Electro polished heat exchanger fins** prevent oil degradation. Food particles cannot adhere to them, but instead fall to the bottom, to be quickly removed by the sediment removal system.
- **Sediment is removed at infeed**, minimizing its opportunity to 'sour' the oil. This two-step system comprises a sediment conveyor running counter to product flow, and a slotted screen with cross-wise scraper at infeed that removes major sediment immediately.
- **Internal filtration system** keeps the oil clean, reducing (in some applications even eliminating) load on external filters.
- The unique **counter-current oil circulation** minimizes turbulence, allowing fine sediment to be removed to preserve oil quality.
- **The waterlock** stops condensation from returning to the oil, maintaining oil quality and promoting better food quality.

## Food safety is the key to long-term profit

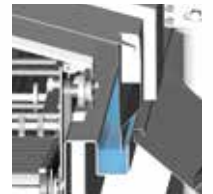
Product quality and food safety go hand-in-hand. We made sure that you will achieve both, without sacrificing profitable production time:

- All areas of the M-fryer are **accessible for cleaning**, including the hood and stack; its 250 mm floor clearance ensures thorough cleaning outside the machine, too.
- **The Bubbler** is a tool to assist with the cleaning of fryers. It generates foam inside the fryer by using compressed air that is injected into the cleaning solution during the cook out of the fryer. This will effectively remove sediment from the hood and exhaust stack. The Bubbler makes heavily contaminated fryers easier to clean. Together with the JBT formulated cleaning agents the best performance is guaranteed.
- Design of heat exchanger, oil circulation, internal filters and sediment removal **keep oil quality better** for a longer period of time.
- Exact heat control and gentle heat transfer give you

# Stein M-fryer



While a uniform steam blanket reduces oil-air contact, the M-fryer's waterlock removes all condensation – better for the oil, better for the food, and better for a safe working environment.



The unique THERMoFIN™ vertical heat exchanger delivers the gentle heat transfer and maximum heat availability that promote a high product quality. Its large surface area transfers heat quickly and efficiently, while the open design of its electro polished fins ensures that sediment falls through and is quickly removed. The minimal fluid volume and high flow rates in the heat exchanger ensure quick response to heat demands, at start-of-shift and throughout operation.



External adjustment of product conveyor and top submerger enable fast turn-around between products, while the M-fryer's low oil volume ensures extended oil life.



# Measure your profitability in terms of range and flexibility

Consumer  
satisfaction  
is the  
ultimate  
measure of  
success



Foreseeing and satisfying the fast-changing tastes of today's consumer is the key to success, profit and sustained growth in the convenience food industry.

To achieve this, it is not enough to be creative. Your production resources must quickly adapt to a range of recipe requirements and, in the age of 'designer' food, be able to produce a wide variety of products with a minimum of process downtime. Just as important, as your business grows, your resources must be able to grow with you.

### Set the pace for your process

Here, again, we anticipated customer needs when we developed the M-fryer. User-friendly operation, with exact stepless temperature control and external adjustment of product conveyor and top submerger, increases recipe range and reduces changeover down-time, while a wide range of configuration alternatives matches the M-fryer to your processing requirements – today and in the future – including:

- Two effective frying widths and four different fryer lengths, to match your capacity needs,
- Thermal fluid- or electric heating (and possibility to switch from electric to thermal fluid at a later date),
- Single- or double-ventilation stack,
- CO<sub>2</sub>- or water mist fire suppression-compatible,
- Oil mist eliminator,
- Optional components to further adapt the fryer to your needs – floating sediment removal with oil recovery, Teflon slats with external adjustment, oil handling, storage tanks, clean assistance and more.

### Ensure the safety of your operation

Productive, profitable processing is also a question of making the job simpler and safer for the operator.

The M-fryer's external adjustments and user-friendly controls promote safe, accurate, efficient operation. Operator panel is conveniently located close to the fryer, while power panel is kept separate. Features such as the optional fire suppression system and oil mist eliminator provide additional insurance for your investment and process safety.

### The complete solutions provider

As part of JBT, we deliver complete food processing solutions, from product portioning to battering, breading, frying, cooking, freezing and refrigeration.

We don't just supply the technology. Our Food Technology experts can help you to optimize your product and production. JBT's global service team offers cost-effective preventive maintenance, as well as emergency trouble-shooting capabilities.



It takes teamwork to achieve processing profitability. The M-fryer is backed by the global resources of JBT – the Solutions Provider who puts your team in the championship.

# Caring about our customers is what we do best

Our focus is to assist you in maximising your return on investment by optimizing your equipment throughout time and changes. We have a long tradition of working together with our customers to develop optimal solutions in terms of production, cost and processed food quality.

Our Customer Care team is a team of experts spread over EMEA who understands your needs. Anything from cleaning chemicals and lubricants, to OEM spare parts, service, upgrades and rebuilds are part of the offering. We aim to give you exactly the support you want so that you can operate in the most cost-effective and productive manner.

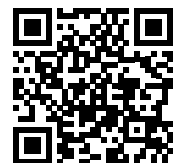
What can we do for you?



## 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.

**FRIGOSCANDIA** **STEIN** **DSI**    **SCHRÖDER**



### North America

JBT Corporation  
1622 First St.  
Sandusky, OH 44870  
USA  
Phone: +1 419 626 0304  
E-mail: process-solutions@jbt.com

### Europe

John Bean Technologies AB  
Rusthällsgatan 21, Box 913  
SE-251 09 Helsingborg  
SWEDEN  
Phone: +46 42 490 4000  
E-mail: info-europe@jbt.com

### Asia

John Bean Technologies Ltd.  
159/26 Serm-Mit Tower, Room no. 1602-3  
Sukhumvit 21 Road, Klongtoey Nua Sub-district  
Wattana District, Bangkok 10110, THAILAND  
Phone: +66 2257 4000  
E-mail: infoasia-jbtfoodtech@jbt.com

### Latin America

John Bean Technologies  
Máquinas e Equipamentos Industriais Ltda.  
Av. Eng. Camilo Dinucci 4605  
14808-900 Araraquara, São Paulo, BRAZIL  
Phone: +55 16 3301 2000  
E-mail: latinamerica.info@jbt.com



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