



# Solutions for Ready-to-Drink Tea



Brewed/extracted tea



Milk tea



Iced tea and fruit infusions



Kombucha tea

# A global variety of ready-to-drink teas

Consumers are embracing ready-to-drink (RTD) teas as tasty, refreshing grab-and-go alternatives to traditional sodas, juices and water.

With estimates suggesting that by 2021 our thirst for RTD teas will have topped 45 billion liters a year, this expanding market is an exciting space for producers around the world. Meeting consumer expectations means offering the highest quality, authentic ingredients and flavors straight from the fridge or off the shelves. To stay competitive manufacturers look for robust, reliable equipment that promise efficient, sustainable, and adaptable RTD tea processing.

RTD teas combine the true essence of the leaf with a global wealth of fresh tastes and a healthy spin. From fermented kombuchas, to fruit flavored gourmet teas, fusion and craft teas, there is a RTD tea to satisfy any thirst, whatever the situation or time of day.

Building on years of experience working side-by-side with the tea industry, GEA has developed state-of-the-art, end-to-end

plants for processing every type of RTD brew and format.

From tea leaves and ingredients handling through to filling and packaging, we offer flexible, tailored solutions. GEA technologies are designed to optimize extraction of key constituents from tea leaves and other ingredients, while saving energy and resources. GEA equipment is designed to give customers the flexibility to innovate and invent, but stay cost-effective and maximize returns on key technology investments.

We don't just supply equipment. GEA experts will work with you to design, configure and install equipment and complete lines for your batch or continuous processes, and fit your space, layout and budget. Our project management and engineering specialists will take care of every detail, from project inception and plant configuration, through to installation and commissioning.



# Your world-leading partner for process technology

Whether you are looking for standard or special process solutions, we remain committed to your process and product requirements. Our versatile, sustainable solutions will continue to provide top quality processing as your business and RTD tea range grow and expand.

## GEA understands your business

Problem solving is part of our nature. Risk aware and utterly reliable, we understand your challenges and the need to be creative to meet the market demands of a growing RTD market. We promise to support, collaborate and innovate with you. Your vision is our purpose.

## Getting to know our partners

It all starts with your goals. We work with you to select and tailor the optimum plant design and technologies that will work together seamlessly to meet all of your expectations, efficiently and reliably.

## Collaboration for innovation

We listen to and collaborate with all of our customers. Backed by years of expertise and experience in process and product development, we strive to provide the technologies and solutions that will help to make your RTD tea products market winners.

## Taking pride in your plant

GEA designs and tailors cost-effective, integrated end-to-end manufacturing solutions for optimum performance, whatever your RTD process. Our global specialists will design and configure every machine and system, valve, pump and component. We take pride in your project and ensure no detail is overlooked. From utilities supply to tailored automation and process control, we aim to achieve every deliverable on time and to budget. Our solutions promise leading price-performance for cost-effective operation, long term sustainability and world renowned operational safety.

## Support through global GEA network

The GEA name is synonymous with quality processing solutions, around the world. Wherever your RTD tea business, our specialists understand your national and local markets, and offer combined sales and support activities for the entire range of GEA products and services from a central customer contact point.

# Test center expertise, equipment and support

We understand that investing in new equipment, plants and process lines involves a major capital outlay. Our test centers in the US, Italy, Denmark, the Netherlands and Germany - including a dedicated RTD tea process in Ahaus, Germany - provide customers with the opportunity to collaborate, trial recipes, analyse and learn more about processing of tea.

As a trusted supplier of equipment to the global RTD tea sector, GEA offers customer-focused partnerships to help develop new processes for established brands and for the next generation of RTD tea products. Our worldwide beverage process and product development centers combine advanced in-house technologies and engineering expertise with a thorough understanding of your industry, so that we can support the development and optimization of processes for exciting new RTD tea ingredients and recipes.

Our highly trained experts have a wealth of experience and knowhow to help you to optimize or streamline your processes. Our expertise spans every stage of the RTD tea process, from brewing, extraction, clarification and thermal treatment, to

filling and packaging. And to help scale up from laboratory- and pilot-scale to commercial production, we offer skid-mounted and plug & play options that can work alongside your existing lines. Talk to GEA about how our experts can facilitate your process and scale-up trials, collaborate on application development and evaluate new concepts, and conduct technology comparison, feasibility, product- and customer-specific tests and trials.

We focus our expertise on building quality into all of your process stages. Combining our skillsets with those of our customers ensures that new products are brought to market efficiently and cost effectively. Our goal is to ensure that your critical quality attributes, business goals and operating targets are met.



# What GEA offers

GEA offers access to market leading technologies and, we believe, the most comprehensive portfolio of processing knowledge and expertise for RTD teas, anywhere in the world.



### Raw materials handling

- Bulk liquids
- Bulk powders
- IBC / drums / containers
- Big bags / sacks
- Aseptic systems



### Components

- Hygienic valves
- Pigging systems
- Pumps
- In-line measurement
- Cleaning devices



### Controls & integration

- ERP & PLM
- SCADA & batch systems
- OEE systems
- Plant monitoring
- Cloud documentation
- Smart device integration



### Utilities

- Cooling systems
- Heat pumps
- Air conditioning



### Batch mixing

- Minor liquid ingredients
- Minor dry ingredients
- Big bag & IBC



### Dry processing

- Tea leaf handling
- Ingredient additions
- Spices, roots, herbs handling



### Clarification

- Filtration
- Clarification



### Tea brewing / extraction

- Batch & continuous
- Infusion
- Suspension
- High yield extraction



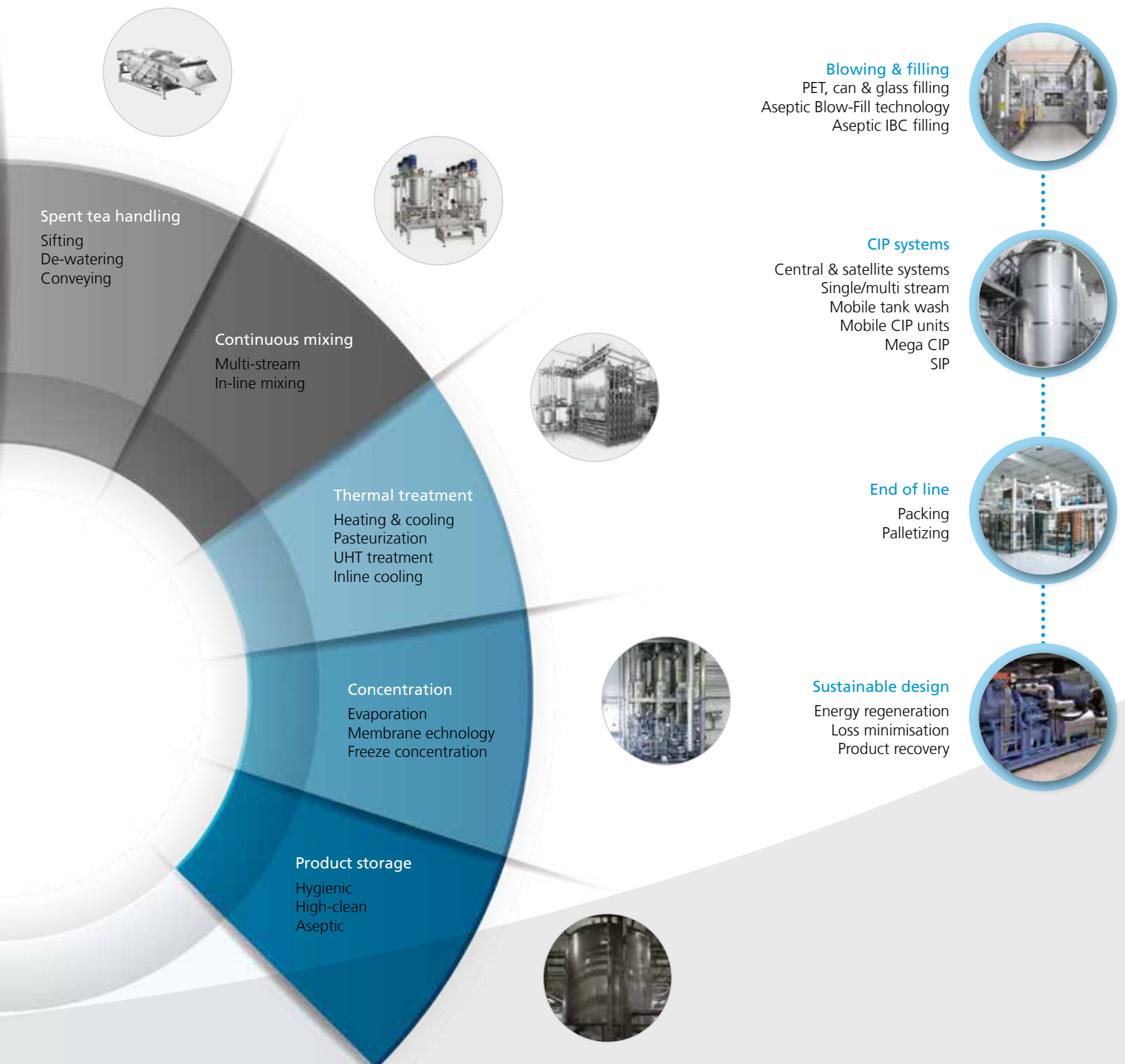
### Bulk dissolving

- In-line & in-tank dissolving
- Batch dissolving

**GEA Service - For your continued success**

Excellent equipment or plants are one thing, the right service is another. With several options of the innovative service concept “GEA Service – For your continued success” you are optimally being supported throughout the entire life cycle of your

installed systems and components. From project engineering, installation, and commissioning to maintaining and improving the performance of your plant and equipment.





## We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA is a global technology company with multi-billion euro sales operations in more than 50 countries. Founded in 1881 the company is one of the largest providers of innovative equipment and process technology. GEA is listed in the STOXX® Europe 600 Index. In addition, the company is listed in selected MSCI Global Sustainability Indexes.

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