

HAFE PROJECT SOLUTIONS

Food and Beverage



Products we offer

- Hygiene, Safety, Cleaning and Sanitation
- Grinding, Milling and Size Reduction
- Ovens, Confectionery and Baking
- Ingredients and Additives
- Materials Handling and Conveying
- Pasteurization and Thermal Processing
- Processing, Filling and Packaging Lines
- Pumps, Valves, and Compressors
- Quality Control, Inspection and Testing
- Separation, Filtration and Purification

➤ Some technologies we rely on for our Food & Beverage Division



Food & Beverage

A growing world requires more food. At the same time, manufacturers seek food processing technologies and other solutions to help cope with rising transport costs, increased government regulations, food safety concerns and changing consumer tastes.

PRODUCT GROUPS

Centrifugal Pumps

Centrifugal pumps are designed to achieve lifetime cost savings, lower energy consumption, CSF 58°



Positive Displacement Pumps

Proven operation and durability, these pumps include advanced seal-off technologies, long life bearings, and installation for fully aseptic results available.



Plate Heat Exchangers

High quality and also added features. Wide range of frame construction technologies, connection types and sanitary accessories for increased cleanliness.



Separators

Expanded model offerings provide a duty specific design and not a "one size fits all". Superior internal, automatic and sterilizing provide simple installation and process integration.



Homogenizers

Designed to meet specific application requirements and optimize both energy and water consumption for sustainability, economic production while providing consistent, reliable performance.



Flow Control Valve and Control Valve

A wide range of valve and control valve



Certification

This patented CSF technology offers breakthrough benefits for the heating of liquids without added bulking and/or the mixing of liquids with other liquids, gas or solids at the microscopic level to improve product quality and functional performance.



Wettable Pumps

The mechanically actuated diaphragm pumps offer safe and reliable operation for liquids with a plunger pump head option for high pressures, low flow duties. The pumps are suitable for single and multi stream processes and auto control compatible speed, electric, stroke or a combination of both.



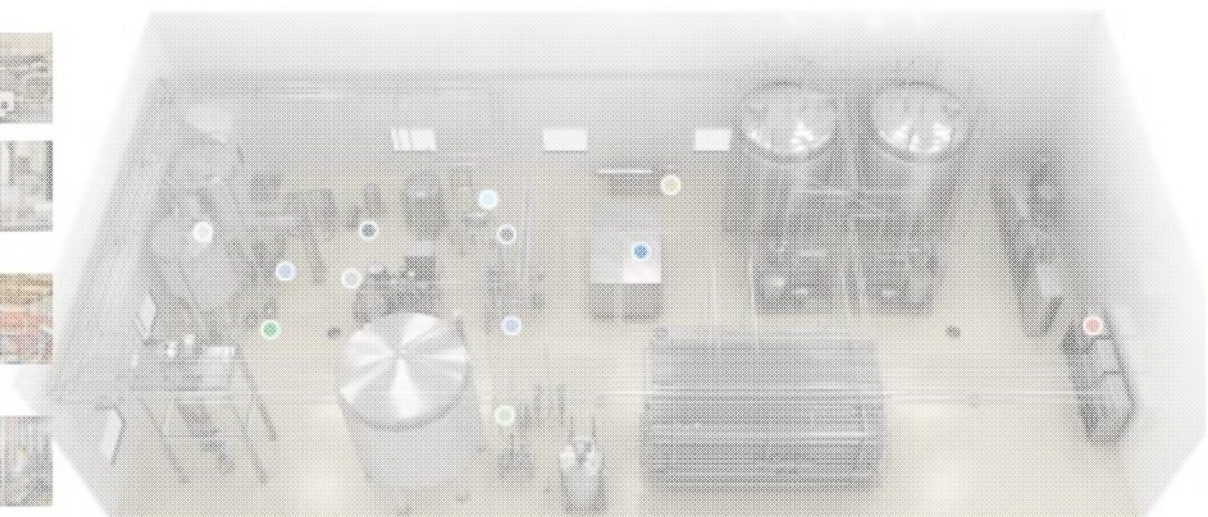
SS304

CSF's stainless steel heat exchangers have a proven replacing view, the efficient switching space allows for more uniform, control table and reproducible continuous processing for decades.



Aftermarket Parts

Be sure to continue delivering top performance when you rely on original, factory calibrated parts and services. CSF's customer service and parts service participate potential repairs and quickly deliver the parts you need to keep your process running at optimal levels.



HAFE Project Solutions



making project engineering,
procurement and contraction easier

WHO WE ARE

Based in China, HAFE Project Solutions (abbr. HAFEPS) is the key industrial project platform initiated and operated by HAFE International Limited since 2013. And it is established on the basis of our over 10 years' experience accumulations of expertise and know-how in various industries.

WHAT WE DO

HAFE-PS is aiming to provide EPC companies, small & medium contractors, designer companies, global equipment distributors, or other independent project players with our unique project supports through multitude of interdisciplinary product and service solutions and procurement consulting & implementation for engineering, procurement and construction process.

WHY WORK WITH US

Working with us, you may get some of the below benefits:

- Ever best and viable industrial product & equipment procurement, quick response and support to projects just in time
- Enhancement of your capability to support your downstream business concerning EPC life cycle
- Diversification of your upstream resources by leveraging portable product and service solutions
- Boosting business strength and improving overall competitiveness
- Enlarge potential business scope and tap new business area with optimized chances and minimized risk

HAFE-PS OFFERS PRODUCTS AND SERVICES TO AN EXTENSIVE RANGE OF CLIENT MARKETS

- HAFE-PS provides a series of project-life-cycle product and service solutions for small and medium worldwide EPC (engineering, procurement, construction) companies and distributors or dealers serving local EPC companies and their project needs.
- HAFE-PS has capability and resources, above all, expertise and know-how to provide Clients with confidence that their project needs met timely, rightly, safely, and within budget.

HAFE Food and Beverage Division

HAFE Food and Beverage Division

HAFE's food and beverage division, with its extensive range of food and beverage equipment which covers some of the industry's key applications, is positioned to provide high quality products for long-lasting reliability and low maintenance. Engineering excellence and stringent quality control help ensure our equipment comply with the highest international standards for hygiene.

From rugged flow control valves to a wide range of integrated food processing equipment, we provide solutions to help customers improve process performance and profitability - and respond quickly to changing consumer and market demands.

Process technology expertise, custom engineering and continued research and development also help us deliver solutions that respond to the environmental, regulatory and other issues faced by our customers.

Nowadays, a global market means competing not only with manufacturers in the same country, but also with those in other countries and on other continents. That demands maximum performance, productivity, quality and flexibility, and a focus on cost control and continuous marginal efficiencies.

Improving plant performance and productivity, ensuring quality and consistency whilst maintaining a flexible approach, and ensuring optimum machine safety without compromising productivity, are all challenges which your industry – and therefore your business – must face. Besides, for food and beverage processors, these operating conditions can take a heavy toll on machine uptime and plant productivity. Dealing with these conditions while trying to stay compliant with health, safety and environmental regulations makes it difficult to stay competitive.

Thus, our products and services are tailored to meet clients' ever changing demands, which cover below scenarios.

TYPICAL APPLICATIONS

- Hygiene, Safety, Cleaning and Sanitation
- Grinding, Milling and Size Reduction
- Ovens, Confectionery and Baking
- Ingredients and Additives
- Materials Handling and Conveying
- Pasteurization and Thermal Processing
- Processing, Filling and Packaging Lines
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FEATURED PRODUCTS

- Cleaners & Sterilizers
- Compressors, Chillers & Heat Pumps
- Granulators
- Dryers & Particle Processing
- Mixers & Blenders
- Evaporators & Crystallizers
- Pumps & Valves
- Membrane Filtration Systems
- Centrifuges & Separation Equipment
- Filling & Packaging Systems
- Product Handling Systems

Products we offer



HYGIENE, SAFETY, CLEANING AND SANITATION

HAFE provides specialized cleaning and sanitization products that are developed for the requirements of the food processing industry.

- Detergents for food processing equipment
- Cleaning in place (CIP) systems
- Tub and crate washing systems
- Fryer and oven cleaning systems
- Spiral freezer belt CIP system
- Recorder and control system solutions



GRINDING, MILLING AND SIZE REDUCTION

We are specialised in process engineering, particularly dedicated to the food industry markets and the particle size reducing processes that market requires. Our machines are used throughout the food industry for grinding sugar, spices, lactose and starch, to name just a few of their many applications.

- Food grinding equipment
- Roll mills, Flaking mills
- Universal mills and grinding systems
- Compact grinding systems
- Air classifiers
- Grinding and classifying plants
- Beater blade mills
- Dry bulk material crusher
- High-speed crusher for fine grinding



OVENS, CONFECTIONERY AND BAKING

- TUNNEL OVENS FOR BAKING GALETTES AND WAFFLES
- SEMI-AUTOMATIC WAFFLE OVENS FOR ALL TYPES OF WAFFLES

HAFE supplies a variety of biscuit and cake production equipment

- Biscuit and cake production equipment
- Aeration equipment for food production
- High temperature pre-bake ovens
- Pressureless steam generator
- Confectionery equipment



INGREDIENTS AND ADDITIVES

All our meet relevant food and supplement safety standards in Asia, Europe and the United States of America.

Ingredients are ideal for use in:

- Dairy products, Bakery and cereal products, Margarine and spreads, Beverages, Fish and meat products, Fine foods, Dietary supplements

HAFE offers several exciting flavouring variants for use in soft drink and ice lolly bases, including:

- Orange flavouring, Lemon flavouring, Apple flavouring, Blackcurrant flavouring, Tangerine flavouring, Lemon-lime flavouring
- A wide range of ingredients including milk protein concentrates and isolates
- CALCIUM AND MAGNESIUM IN FOOD PROCESSING

Products we offer



MATERIALS HANDLING AND CONVEYING

MATERIALS HANDLING AND CONVEYING.

- Antimicrobial conveyor belts
- Light blue conveyor belts
- Conveyor belts with contamination safeguards
- Conveyor belts with footless flights
- Conveyor belts with closed belt edges
- Modular belts for food processing
- Hygienic conveyor belts



PASTEURISATION AND THERMAL PROCESSING

HAFE specializes in the design and manufacture of heat exchangers and heat exchanger systems for the food processing industry.

- Cooling and heating units for thermal treatment of beverages and liquid foods
- Gasketed plate heat exchangers
- Compact all-welded plate heat exchangers
- Tubular heat exchangers
- Corrugated and twisted tubes
- Pasteurisers for food processes
- UHT and aseptic systems for milk and fruit juices



PROCESSING, FILLING AND PACKAGING LINES

- Coating and bagging for snack food projects
- Chocolate processing, high boil, wrapping and packing
- Manual, semi-automatic and fully automatic packaging systems
- Fish processing - stunning, bleeding, chilling, gutting, heading, filleting, skinning, trimming, pinboning
- Poultry processing machinery
- Product refinement, desinewing, mincing, depackaging
- Dairy and food process equipment
- Powder drying equipment
- Fluid bed technology
- Evaporators for the food and beverage industry



PUMPS, VALVES, ACTUATORS AND COMPRESSORS

We provide a series of specialized pumps to improve energy efficiency for food manufacturers.

- Sinusoidal pumps for the food processing industry
- High-flow pumps for food plants
- Pumps for the prevention of batch contamination
- Pumps that can handle particulates and soft solids
- Comprehensive pumps, mixers and agitators portfolio
- Pumps for degassing and high-viscosity liquids
- Positive Displacement Pumps, Air treatment equipment
- Compressed air systems for food applications

Products we offer



QUALITY CONTROL, INSPECTION AND TESTING

- NIRS (near infrared spectroscopy) systems for food and beverage
- NIR-spectrometers
- Modular FT-NIR spectrometers
- Fibre optic SMA cells
- Benchtop NMR
- Time-domain (TD) NMR benchtop systems
- Food industry temperature sensors
- Thermocouples
- Hygienic load cells for tank weighing
- Robust load cells for conveyer belts and graders



SEPARATION, FILTRATION AND PURIFICATION

Our product range includes these water treatment, filtration and ozone disinfection systems etc.:

- Reverse osmosis and other membrane separation systems
- Ozone generators for water and air applications, providing chemical-free disinfection
- Wastewater treatment and recycling
- Water softening, Multimedia filtration, Micro filtration,
- De-ionization, Clarification, Ultra violet (UV) disinfection systems
- Chemical dosing pumps and monitoring, and control systems
- Filter housings and cartridges, including absolute 99.5% efficiency cartridges
- OVEN AND FRYER AIR CLEANING SYSTEMS
- AIR, WATER AND SURFACE STERILISATION
- COMMERCIAL KITCHEN ODOUR AND GREASE ELIMINATION
- Cyclones and inertial separator dust collectors for separating dry particulate from gas streams
- Reverse pulse collectors, nuisance dust collection system, bag filters and collectors
- Membrane bioreactors
- Moving bed bioreactor technology
- Dissolved air flotation systems



APPLIED FOOD AND BEVERAGE EQUIPMENT

HAFE provides a series applied food and beverage equipments that satisfy mobile market. Below are typical types of them:

- Mobile snack food equipment
- Hotel, restaurant food catering equipment
- Other designs and equipments