"Engineering for a better world" is the driving and energizing principle connecting GEA’s employees. As one of the largest systems suppliers GEA makes an important contribution to a sustainable future with its solutions and services, particularly in the food, beverage and pharmaceutical sectors. Across the globe, GEA’s plants, processes and components contribute significantly to the reduction of CO₂ emissions, plastic use as well as food waste in production.

GEA is listed on the German MDAX and the STOXX® Europe 600 Index and also included in the DAX 50 ESG and MSCI Global Sustainability indexes.
### Strong local presence around the globe

<table>
<thead>
<tr>
<th>Region</th>
<th>Employees (FTEs)</th>
<th>Revenue (€ million)</th>
<th>% of Regional Revenue</th>
</tr>
</thead>
<tbody>
<tr>
<td>North America</td>
<td>1,675</td>
<td>890</td>
<td>18</td>
</tr>
<tr>
<td>Latin America</td>
<td>512</td>
<td>365</td>
<td>7</td>
</tr>
<tr>
<td>North and Central Europe</td>
<td>3,072</td>
<td>684</td>
<td>14</td>
</tr>
<tr>
<td>Western Europe, Middle East &amp; Africa</td>
<td>3,278</td>
<td>814</td>
<td>17</td>
</tr>
<tr>
<td>DACH &amp; Eastern Europe</td>
<td>6,861</td>
<td>1,000</td>
<td>20</td>
</tr>
<tr>
<td>Asia Pacific</td>
<td>3,092</td>
<td>1,126</td>
<td>23</td>
</tr>
</tbody>
</table>

*GEA locations (sales offices, service branch or other GEA sites)*
*Employees in 2019 (FTEs)*
*Revenue in 2019 (€)*
*Regional revenue split in 2019 (only continued operations)*
Our mission

We strive to be the world’s most respected technology group offering cutting-edge solutions for sustainable processes that improve people’s everyday lives.
Our long-term strategy

Pursue clear technology and market leadership

Further develop food processing focus & solutions for demanding production processes

Become truly global by getting closer to our customers

Use portfolio management as tool to leverage strengths & allocate resources

Build an organization and capabilities to support strategic vision

Drive sustainable value creation
Important global megatrends are propelling our technologies & underlying markets

- **1.2 bn**
  Global population growth (2015 – 2030f)

- **79%**
  Middle class growth (2015 – 2030)

- **63%**
  Demographic change
growth of people aged 65+
  (2015 – 2030f)

- **Greater demand for**
  safe food

- **Healthier, functional & personalized food

- **Alternative protein sources**
Megatrends support our business

URBANIZATION AND GROWING MIDDLE CLASS
Growing demand for processed food and medication

GREATER FOOD SAFETY AND QUALITY
Readiness of industry to invest more for greater process reliability

ENERGY SCARCITY AND STRICTER ENVIRONMENTAL REGULATIONS
Greater interest in efficient and resource-saving production processes

**GEA offers**
certified hygienic/aseptic processes and components to meet the strict standards of the industry

**GEA offers**
intelligent engineering processes for resource-friendly technologies, energy-saving machines and processes, as well as heat recovery

**GEA offers**
components and process technology for processed food, ready meals, fortified lifestyle beverages and food, medications
Our applications – in touch with GEA every day

Dairy Farming and Processing

Approx. one quarter of processed milk comes from GEA production systems

Food

Every third chicken nugget is produced using GEA technology

Approx. every third process line for instant coffee was installed by GEA

Approx. every second liter of beer is brewed with the aid of systems and process solutions from GEA

Every fourth liter of human blood for making plasma-derived products is processed using GEA equipment

Beverages

Chemical

More than one third of all polymer producers are using GEA drying technology

Pharma

Each industry we serve utilizes industrial refrigeration technology from GEA

Chemical

Refrigeration and Heating

Every second container ship in the world sails with GEA marine equipment on board

Marine

GEA at a Glance
DAIRY FARMING
GEA DairyRobot R9500

Automated milking system

- Fully automated milking system for professional dairy producers
- Available as single or multi-box system
- Leading 3D camera technology
- Tailored concept for low water and energy consumption
- Innovative cell count sensor to support herd health
- “Grade A” certification from U.S. FDA

PHARMA
GEA CONSIGMA®

Tablet production

- Flexible continuous tableting line
- Faster, more consistent and reliable tablet production with reduced use of resources
- Requires 70% less space than batch plants and can be built more quickly
- FDA approval for a therapy manufactured using GEA CONSIGMA® technology
- Award-winning

FOOD
GEA OxyCheck®

Quality control system

- In-line quality control system that inspects each package
- Checks residual oxygen content and seal integrity of each modified atmosphere pack leaving the thermoformer
- Non-invasive measurement technique which does not damage the film or break the seal
- No time-consuming sample testing
- No packaging material or food wasted
GEA Service – For your continued success

We ensure our customers’ **continued business success** by building, maintaining, optimizing and adapting their production equipment and processes to meet their specific ongoing needs.

We serve the entire life cycle in order to have continuous touchpoints to our customers.
Our values – shared by all employees

Explicit values are the foundation of our success as technology and market leader. The employees about the company:

- We stand for excellence in everything we do
- We work with passion without obsession
- We walk our talk
- We feel responsible for our actions
- We recognize and appreciate differences across borders
By offering efficient products and process solutions, we contribute to the sustainable management and protection of the natural environment.

Our sustainability approach is based on our values

Excellence
Strong innovator coupled with operational efficiency

Passion
Committed to providing a fulfilling working life for our employees

Integrity
Fair competitor with legally compliant conduct

Responsibility
For quality, occupational health and safety, environmental protection

GEA-versity
Diversity as a success factor and innovation driver
GEA’s corporate targets as contribution to the UN Sustainable Development Goals

**3. Good Health and Well-being**
- Lost day frequency rate \( \leq 5.6 \) (2020) / \( \leq 5.0 \) (2025)
- Lost day severity rate \( \leq 120 \) (2020) / \( \leq 110 \) (2025)
- Proactive initiate rate \( \geq 100 \) (2020) / \( \geq 200 \) (2025)
- Further developing & extending GEA Care Health Management

**6. Clean Water and Sanitation**
- Reducing water consumption by 2.1% (2020), by 14.1% (2025) and by 50% (2050) per EUR 1 million in sales (base year 2018)

**8. Decent Work and Economic Growth**
- Monitoring signatories’ compliance with the GEA Code of Conduct for Suppliers and Subcontractor as well as implementing effectiveness checks along the supply chain
- Continuously improving and extending human rights documentation and actions in order to comply with the German National Action Plan (NAP)

**12. Responsible Consumption and Production**
- Expanding our life-cycle analysis and product end-of-life concepts to better represent the CO\(_2\) footprint in the product-use phase (2020)
- Reducing total waste by 2.1% per €1 million in sales (base year 2018) in 2020
- Continually developing and improving our management systems by ensuring all GEA production sites have DIN ISO 9001, DIN ISO 14001 and DIN ISO 45001 certification until 2025

**13. Climate Action**
- Continually reducing CO\(_2\) emissions (scope 1 + scope 2) by 2.0% (2020) compared to the previous year and in relation to sales, by 18.3% (until 2025) and by 50.7% (until 2050) compared to base year 2015

**15. Peace, Justice and Strong Institutions**
- Demonstrating ethical leadership by publishing a statement on human rights in line with UN Guiding Principles on Business & Human Rights and signing on to the UN Global Compact’s 10 principles (2020)
- Implementing OECD guidelines on the responsible use of minerals from conflict & high-risk areas (2020)
ANIMAL WELFARE
GEA DairyMilk M6850

Early warning system for mastitis detection

Innovative sensor measures somatic cell count in each udder quarter individually during the milking process

Benefits:
- Minimized treatment
- Safeguarding the healing process
- Increasing herd health and productivity

MANAGING ENERGY RESOURCES
Industrial heat recovery

Holistic process optimization

Integration of heat pumps for upcycling and decarbonizing waste heat in food, beverage and dairy production, where 60% of total energy use is typically for heating and cooling

Benefits:
- Approx. 30% reduction in energy costs
- Significantly smaller carbon footprint
- Potential elimination of, or reduced reliance on, traditional, high-energy-consuming boilers

PROTECTING OCEANS
GEA BilgeMaster

Treatment of bilgewater

Modular separators process shipping bilgewater contaminated by fuel and lube oil spills

Benefits:
- Meet or undercut water regulations for sensitive oceans: Reduction of residual oil content of water discharged back into the sea from 15 to 5 ppm
- Reuse of recycled oil as fuel oil
New group structure

From January 2020, the new structure is organized by similar or complementary core technologies within GEA and is divided into five divisions, each with a maximum of six business units.

All units are operated by managers with direct P&L responsibility. The new divisional structure promotes entrepreneurial behavior – one of the central GEA values – and transparency both internally and externally. It is key to a sustainable increase in profitability. In addition, the proven bundling of activities in country organizations will be retained so that we can continue to offer customers centralized, yet local contacts.
Our management – GEA Executive Board

MARCUS A. KETTER
GROUP CFO
In addition to controlling, accounting, mergers & acquisitions, treasury, tax, risk management, internal audit and investor relations, Marcus A. Ketter is responsible for global IT and business process management and outsourcing. He has been a member of the Executive Board since May 2019.

STEFAN KLEBERT
GROUP CEO
Stefan Klebert took the helm of the Group in February 2019 and is the direct reporting line for the CEOs of the five divisions and the four CEOs of the regions. Various central functions also report to Stefan Klebert, and he also serves as the group’s Labor Relations Director.

JOHANNES GILOTH
GROUP COO
Since the start of 2020, Johannes Giloth has been the board member responsible for a new executive mandate that encompasses worldwide procurement, production and supply chain, as well as corporate responsibility & QHSE.
Our history – key milestones

**1881**
- Founding of Metallgesellschaft AG as a metals trading company

**1991-1995**
- Acquisition of several companies with a long history in food and beverage industry

**1999**
- Metallgesellschaft AG acquires GEA AG

**2005**
- Name changed to GEA Group Aktiengesellschaft

**2007-2014**
- Increasing focus on food and beverage industry (from 50% of business to about 70%)

**2015-2019**
- Further acquisitions in food industry, e.g. Comas, Hilge, Imaforni, CMT, Pavan Group and Vipoll

**2020**
- Implementation of a new technology-based group structure embracing 5 divisions

GEA at a Glance
Our shares

Securities identification number 660200

ISIN number DE0006602006

Stock indices MDax, HDax, CDax, Midcap Market, Dow Jones Euro Stoxx, Euro Stoxx TMI Industrial Engineering, Dow Jones Euro Stoxx Mid, Dow Jones Euro Stoxx Industrial Goods and Services, Dow Jones Stoxx 600, Dow Jones Industrial Goods and Services, Dow Jones Stoxx Mid 200, Prime All Share, Prime Industrial, Classic All Share, NRW-Mix 50, MSCI World ESG, MSCI ACWI ESG

Segment Prime-Standard

Stock exchanges Xetra, Frankfurt, Stuttgart, Munich, Düsseldorf, Berlin, Hamburg, Hannover

Information on stock Reuters: G1AG.DE; Bloomberg: G1A:GR; Xetra: G1A.DE

Shares issued 180.5 million (July 31, 2019)

Market capitalization 5.5 billion (July 31, 2019)
Separation & Flow Technologies Division

World-class performance from our process champions

Separators // Homogenizers // Valves & Pumps

Separation & Flow Technologies encompasses GEA process engineering components and machines that are at the heart of so many production processes: separators, decanters, homogenizers, valves and pumps.

Our solutions contribute to a cleaner environment in many industrial applications and ensure the efficient separation and homogenization of liquids for use in diverse high-quality products that consumers enjoy and also rely on. GEA pumps and valves guarantee that raw materials and products move efficiently and safely through plants.

~1,240 € million revenue
~ 247 € million EBITDA before restructuring measures
~ 20 % EBITDA before restructuring measures
~4,450 Employees (FTE)

Pro forma figures 2019 for group structure applicable from January 1, 2020
GEA separators and decanters are used in thousands of applications by nearly every industry, including: dairy processing, food & beverage, marine, oil & gas, power, chemical, pharma, farming and in water and wastewater management.

To ensure smooth production processes in the treatment of liquid products, GEA offers a comprehensive range of valves for all hygienic classes, as well as hygienic pumps and cleaning technology. Their individual modular design guarantees efficiency, safety and reliability.

With our high-pressure homogenizers manufacturers can micronize and standardize individual particles, ensuring product stabilization and long shelf life. These properties are key to many of today’s health and personal care products and also contribute to the quality of many processed foods and beverages.
Liquid & Powder Technologies Division

Specialists in processing equipment and integrated solutions

Liquid Technologies // Powder Technologies // Beverage & Filling Technologies // Chemical Technologies

Liquid & Powder Technologies provides process solutions for the dairy, beverage, food, chemical and other industries. Our portfolio includes liquid processing & filling, concentration, crystallization, purification, drying, powder handling & packaging as well as systems for emission control.

We design, build, configure and install versatile and efficient equipment and technologies, processing lines and complete plants.

GEA at a Glance

<table>
<thead>
<tr>
<th>Liquid Technologies // Powder Technologies // Beverage &amp; Filling Technologies // Chemical Technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,730</td>
</tr>
<tr>
<td>€ million revenue</td>
</tr>
</tbody>
</table>

Pro forma figures 2019 for group structure applicable from January 1, 2020
Liquid Technologies

Specializing in solutions for hygienic liquid processing, GEA competence covers mixing, membrane filtration, heat treatment, aseptic processing and cheese making equipment. Market milk products, ice cream, cheese, soups and condiments are focus areas, as are home and personal care applications.

Our solutions for evaporation, drying and powder handling & packaging technologies are used for a wide range of dairy, food and chemical applications such as nutritional formula, food ingredients, instant coffee, polymers and fine chemicals.

Beverage & Filling Technologies

Suppliers of complete end-to-end solutions, our portfolio includes materials handling, extraction, brewing, mixing, blending, heat treatment and filling and packaging for the full range of beverages including ESL and aseptic products.

Chemical Technologies

We specialize in process solutions and plants including evaporation, distillation and crystallization technologies, as well as vacuum, ejector and emission control systems. Primary applications include bulk & specialty chemicals, minerals, agro-chemicals, food & beverages and emission control.
Food & Healthcare Technologies Division

Safe foods and medicines for a growing population

Pasta, Extrusion & Milling // Bakery // Slicing & Packaging // Food Solutions // Frozen Food // Pharma & Healthcare

The vast product range of Food & Healthcare Technologies includes solutions for food processing, covering preparation, marinating and further processing of meat, poultry, seafood and vegan products, pasta production, baking, slicing, packaging, confectionery as well as frozen food processing. We also offer equipment for cereals handling and milling and for producing cereal-based snacks, breakfast cereals as well as dry and wet pet food.

Our solutions for the pharmaceutical, biopharmaceutical & nutraceutical sectors include components, equipment and entire plants for processing solid, liquid, semi-solid, viscous, hazardous and hygroscopic products, either for batch or continuous production.

GEA at a Glance

€ million revenue ~960

€ million EBITDA ~67

% EBITDA ~7

Employees (FTE) ~3,450

Pro forma figures 2019 for group structure applicable from January 1, 2020
Food & Healthcare Technologies Division

Pasta, Extrusion & Milling

Our solutions for pasta and extruded food include cereals handling and milling plants processing and packaging lines for fresh and dry pasta, including gluten-free products, as well as for cereal-based snacks and breakfast cereals and dry pet food.

Bakery

GEA bakery capabilities range from single equipment components to integrated production lines for cakes, pies, biscuits, cookies, crackers, layer cakes and snacks. Energy-efficient tunnel ovens, depositors, dough forming systems and filling injectors make up this hard-working portfolio.

Slicing & Packaging

Our slicing & packaging portfolio includes slicing and loading systems, vertical packaging equipment and thermoforming systems. Our machines are designed to meet the highest uptime requirements and bring automation and ease-of-use benefits, while meeting all hygienic standards to ensure product safety. We continue to innovate by offering more sustainable packaging as well as solutions for improved MAP testing to ensure food quality and reduce waste.
Food Solutions
Our portfolio encompasses preparation and further processing equipment, including single machines and complete automated lines. We offer solutions for defrosting, cutting & grinding, mixing, forming, marinating, coating, cooking, steaming, in-line smoking and frying. Our technology can be used for processing poultry, meat, seafood, vegetarian, as well as plant-based or alternative protein foods.

Pharma & Healthcare
A global specialist in solid and liquid dose technology, our robust, flexible and cost-effective pharmaceutical manufacturing equipment and fully integrated process lines maximize operational reliability and productivity. Our portfolio includes tablet compression and coating, granulation and drying, batch and continuous processing, contained materials handling, freeze-drying and fermentation.

Frozen Food
GEA freezers provide consumers with high-quality products with an extended shelf life. Our portfolio consists of spiral- tunnel- and carton freezers. Combined with our award-winning freezer control sensor technology, manufacturers can ensure accurate and consistent product quality while reducing their energy costs.
Farm Technologies offers integrated customer solutions for efficient and high quality milk production and livestock farming, including automatic milking and feeding systems, conventional milking solutions, milk cooling and storage, well-designed barn equipment and digital herd management tools. Our manure management solutions ensure operators have the right tools for safe and efficient storage, application and for creating side streams from this important resource.

Our portfolio also includes a wide range of equipment and accessories to promote optimum cow health and comfort from teat sprays, brushes and mattresses.
Our industry-leading solutions include equipment and accessories for dairy herds of all sizes, backed up by farm credentials that span nearly 100 years.

**Milking & Feeding**

GEA offers all ranges of automated milking solutions, from single box to fully automated rotary parlor systems to conventional rotary and group parlors. Our automated feeding solutions ensure cows get the right mix at the right time, improving efficiency and freshness.

**Cooling**

GEA offers diverse cooling solutions suitable for all herd sizes and for the individual demands of every farm, from horizontal and vertical milk cooling tanks to milk cooling vats.

**Manure**

GEA is a global leader in manure management, providing a comprehensive line of equipment to effectively handle manure inside and outside the barn. Our portfolio includes: barn cleaning, electric and power take-off pumps and agitators, loading equipment, liquid manure spreaders, manure application devices and separators.

**Barn**

For optimum health and comfort we offer ventilation, fencing systems, handling and sorting equipment, cow brushes, mattresses and comfortable housing and young stock feeding equipment.
Refrigeration Technologies Division

Future-proof solutions for industrial cooling & heating

Components // Projects // Skids

GEA Refrigeration Technologies is a global specialist in industrial refrigeration, heating and sustainable energy solutions for a wide array of industries including food, beverage, dairy and oil & gas. Our proven technologies provide our customers with what they value most – reliability, operating efficiency, sustainability and long equipment life cycles that reduce their total cost of ownership.

Our turnkey cooling and heating installations, custom-engineered systems, compressors & compressor packages, chillers, controls and heat pumps are designed to meet precise temperature requirements. Our comprehensive service programs support our customers throughout the full life cycle of their plant and equipment to ensure peak performance.

~700 € million revenue
~58 € million EBITDA before restructuring measures
~8 % EBITDA before restructuring measures
~2,640 Employees (FTE)

Pro forma figures 2019 for group structure applicable from January 1, 2020
Refrigeration Technologies Division

Components
GEA offers a diverse component portfolio for commercial and industrial refrigeration with a full range of reciprocating and screw compressors, chillers, heat pumps, condensing units, dryers and purgers.

Skids
GEA offers standard as well as customized systems, built on skids, for ease of transport and installation. Featuring a vast range of compressor, chiller and heat pump systems, they are designed to meet customers’ precise temperature and capacity requirements.

Projects
GEA’s decades of experience extends to complete plant cooling installations. As sustainability is a key focus of those we serve and for GEA, we help our customers identify optimum refrigeration and heating solutions to achieve their present and future sustainability-related goals. This is done by designing and implementing customized solutions based on holistic plant energy analyses for both existing processes and those that are in the pipeline. As a result, customers significantly reduce their energy costs and carbon footprint.