



HEITKAMP & THUMANN
GROUP

Group Profile 2022



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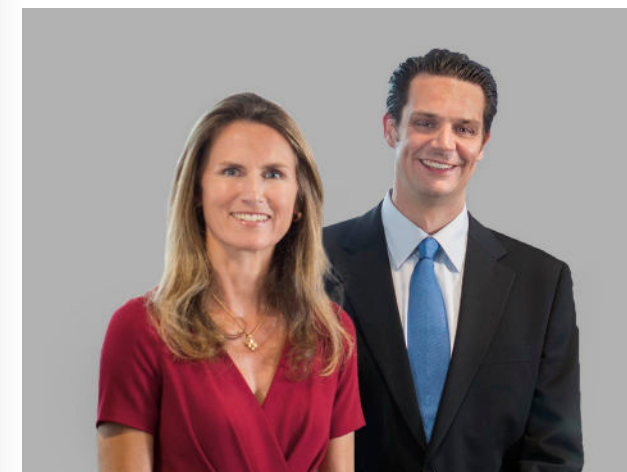
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Editorial



Dear Reader,

For more than 40 years, the Heitkamp & Thumann Group has been driven by entrepreneurship, innovation, risk-taking, and spearheading in order to maintain global leadership in the development

and supply of world class precision formed components in both metal and plastic.

Streamlined into two Divisions, H&T Battery Components and H&T Presspart, the Group's strategy focusses on core competencies whilst continuing to strengthen its competitive position. A strong concentration on the unique strengths and targeted investments in products and future oriented markets related to the core business has fueled sustainable growth and facilitated Group success over a number of years.

The two Divisions continue to strengthen global presence in their respective fields whilst having ongoing support from H&T Tool Design and H&T ProduktionsTechnologie. H&T Battery Components Alkaline is the global market leader for the consumer battery industry based on long term partnerships with its customers. H&T Battery Components

Rechargeable is the partner of choice for the development of rechargeable cell packaging solutions and is undertaking expansion of capacities in order to grow its supply to the electrical vehicle sector.

H&T Presspart continues to invest in order to maintain a world leading position in manufacturing pharmaceutical components for its customers as well as enlarging its European manufacturing footprint in plastic processing, which is underpinned by the acquisition of H&T Presspart Nidau. H&T Presspart has also strongly focused on strategically expanding its capabilities in medical device manufacturing through innovative solutions in respiratory drug delivery.

As a second generation family owned business, we are proud of the achievements of Heitkamp & Thumann Group. This success story has been closely accompanied by the family shareholders with Engelbert A. Heitkamp as Chairman and Angela Lampert as Vice Chairwoman of the Advisory Board.

We will continue to support the growth of our corporate Group based on our core values. We would like to thank all of our business partners and employees for their trust in us throughout our journey as the Heitkamp & Thumann Group.

We look forward to a prosperous, sustainable and stable future as well as simultaneously working together as a global team.

Engelbert A. Heitkamp

Angela Lampert

Welcome to Heitkamp & Thumann Group

Introduction

Based in Düsseldorf Germany, the family owned Heitkamp & Thumann Group was founded more than 40 years ago and today consists of 15 medium sized companies located in nine different countries. The Group is structured into two Divisions and three Business Units, focusing on niche products for high volume markets. Jürgen R. Thumann and Prof. Engelbert Heitkamp pioneered the Group from the very beginning into becoming established market leaders. A stable shareholder and management structure accompanied with the clear vision of the Group's founders has been fundamental in the Group's success today whilst being poised for a resilient and positive tomorrow.

In recent years, Heitkamp & Thumann Group has put a strong focus on its core businesses, which led to the sale of Westfalia Metal Hoses, Doby Verrolec and Westfalia Metal Components as well as the acquisition of H&T Presspart Nidau.

This new focus has strengthened central capabilities alongside the Group's position for further strategic growth. A focus on fundamental business by being a decentralized Group of companies and investments of more than €200 Mio. in manufacturing facilities, capacity expansion and in more recent years product development, have facilitated prosperity and healthy growth.

Additionally, H&T Excellence ensures a Group wide operational excellence philosophy. This is accompanied by an Innovation culture that is employee driven and builds on the strengths of the different Divisions and Business Units.

As sustainability becomes a bigger part of the Heitkamp & Thumann Group, manufacturing responsibly through process and product innovation will remain within the heart of the Group in order to successfully support sustainable solutions.

15

Companies

9

Countries

1

Group

Mission

To be the leading global partner for the development and supply of world class precision formed components.



Customer satisfaction is our highest priority



Suppliers are our business partners




People working together as a global team



Integrity will never be compromised



Continuous improvement in everything we do




Innovation will create our future




Safety and environmental sustainability are our primary responsibility


Group Executive Committee




Dr. Stefan Hauk
CEO




Dietmar Schmitz
CFO



Christian Krätzig
President H&T Presspart



Tobias Ott
President H&T Battery Components Rechargeable



Gerd Schröder
President H&T Battery Components Alkaline

Collaborating Together. Globally.

The Heitkamp & Thumann Group is recognized for its distinctive customer partnerships, an established global presence and a wide array of industry knowledge. The strong characteristics of the Group make it a valuable partner of choice for customers and leading manufacturers within the relevant markets of the Heitkamp & Thumann Group.

Integral to the Group's mission statement are partnerships, which are based on trust with highly qualified employees behind every business decision. With manufacturing facilities in Europe, North America and Asia, the Heitkamp & Thumann Group is represented in all major economic regions enabling the Group's Divisions and Business Units to market first-class products to renowned customers globally.

The two Divisions of the Heitkamp & Thumann Group are world leaders

within their respective fields. H&T Battery Components is the world's largest manufacturer of battery components for the consumer battery market and a fast-growing supplier for the e-mobility market. H&T Presspart is a world leader and specialist in manufacturing pharmaceutical devices and components for the respiratory drug delivery market.

The Heitkamp & Thumann Group has been one of the first to introduce a cloud-based social business collaboration platform, enabling future growth and collaboration between colleagues, business partners and customers around the world. Advanced manufacturing facilities alongside digital and collaborative workspaces is a critical factor contributing to the Group's success in an evolving market.

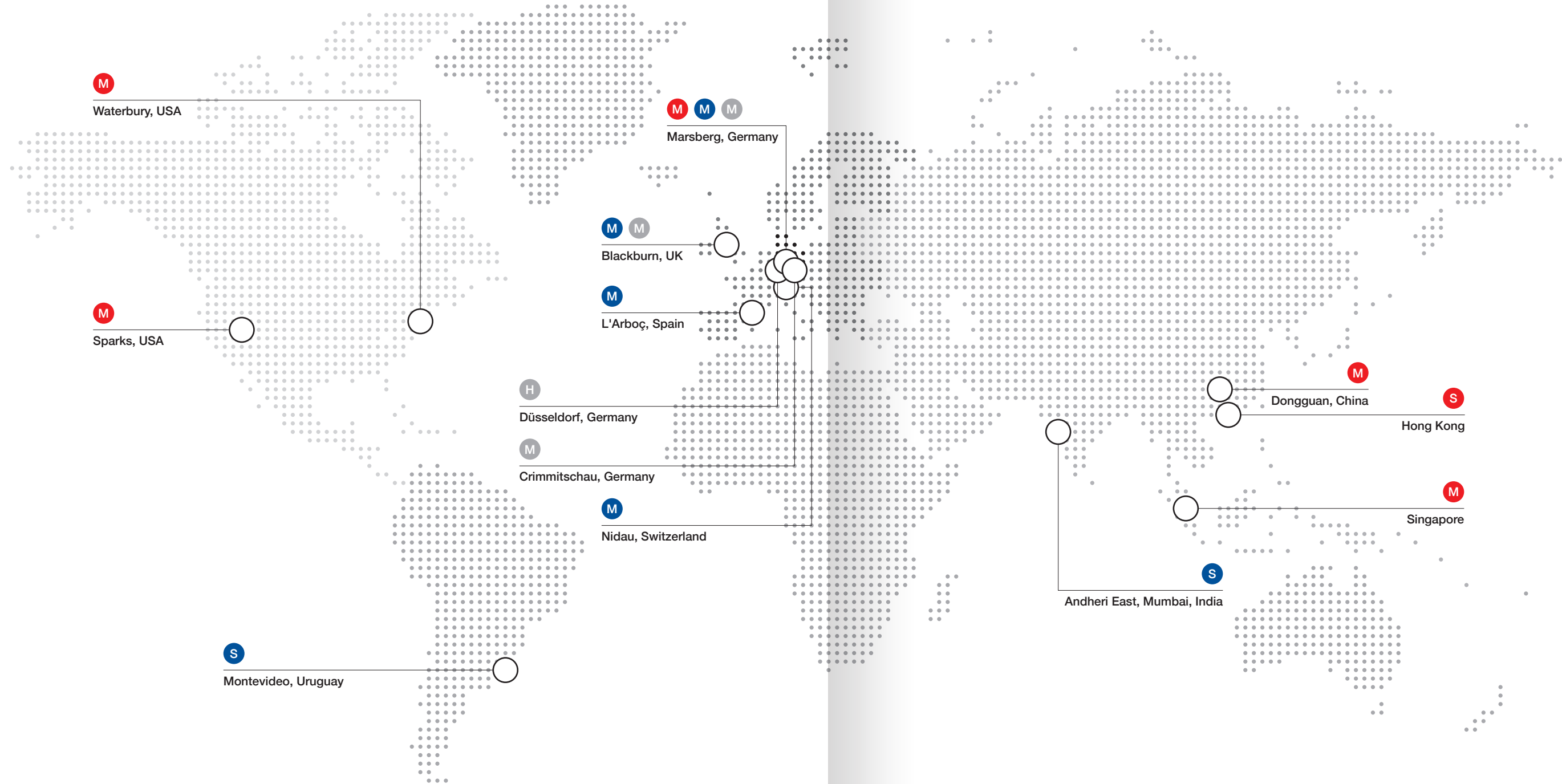


Sales by Region

- 10% Germany
- 28% Other European Countries
- 38% North America
- 22% Asia
- 2% Other Regions

Facts & Figures 2020

- €240m Investment (5 years)
- €448m Euro Sales
- 1,900 Employees



H Holding **M** Manufacturing Site **S** Sales Office

H&T Battery Components

Products:
 Battery Cans and Flat Parts for the Consumer Battery Industry
 Battery Cans and Cover Assemblies for Rechargeable Battery Technologies

Locations:
 Marsberg, Germany
 Waterbury, USA
 Singapore
 Dongguan, China
 Hong Kong
 Sparks, USA

H&T PRESSPART

Products:
 Cans, Actuators, Dose Counters and Indicators for pressurized Metered Dose Inhalers (pMDI)
 eMDI™ Smart Connected Inhaler
 Dry Powder Inhalers (DPI)
 Dispensing Actuators
 Plastic Assemblies for the Pharmaceutical Industry
 Complex Plastic Medical Devices

Locations:
 Blackburn, United Kingdom
 Marsberg, Germany
 Nidau, Switzerland
 L'Arboç (Tarragona), Spain
 Andheri East, Mumbai, India
 Montevideo, Uruguay

H&T ProduktionsTechnologie

Products:
 Mechanical Presses
 Servo Spindle Presses
 Metal Forming Tools
 Automation Equipment

Location:
 Crimmitschau, Germany

H&T Industrial

Products:
 Deep-drawn Components for Industrial Applications

Location:
 Blackburn, United Kingdom

H&T Tool Design

Products:
 Precision Tools

Location:
 Marsberg, Germany

A Culture of Excellence

H&T Excellence is an operational excellence management program that, for many years, has been an integral part of the Heitkamp & Thumann Group. Creating a culture of continuous improvement whilst eliminating or reducing waste in all operational and administrative processes are the main philosophies of the program and have a strong focus on employee empowerment and development.

Developing solutions within a team during interactive Kaizen workshops and training sessions as part of the H&T Excellence program allow employees to acknowledge value and non-value added activities within their work. The sessions encourage employees to embrace the continuous improvement culture and the benefits of lean principles whilst applying it in their own processes.

Generating a positive attitude towards change amongst employees as well as sharing best practice solutions and enabling the constant exchange of information across the Group is the key approach to continuous improvement within Heitkamp & Thumann Group.



1

Group-wide, operational excellence philosophy

6

H&T Excellence Principles as guidance for all processes

8

Success factors

200

Kaizen Workshops per year

800

Employees involved in a Kaizen workshop every year

1,100

Employees participated in a Kaizen workshop at least once

1,600

Employees trained in H&T Excellence Basics



A Culture of Innovation

For the Heitkamp & Thumann Group, innovation is a Group-wide initiative that has always been at the center of its corporate philosophy and entrepreneurial activities. The culture of innovation is employee-driven and builds upon the strengths of the different Divisions and Business Units.

Innovation at the Heitkamp & Thumann Group is the process of making creative changes, large and small, radical and incremental, to products, technologies, processes, business models and services. These creative ideas need to result in

something new that adds value for customers. The innovation efforts of the Heitkamp & Thumann Group focus on validated learning, allowing for fast and cheap failures as well as on building a strong customer orientation into every innovation project by addressing both the obvious and hidden customer needs as early as possible in the innovation process. At Heitkamp & Thumann Group, innovation is managed by each Division and Business Unit in order to align the innovation strategy with the respective overall strategy.



Sustainable and Responsible Manufacturing



Multi-million euro investments across our manufacturing sites



Water usage has been decreased by over 100,000 cubic meters per year due to the replacement of wash plant facilities, a 95% reduction compared to previous years



620 tonnes of Hydrocarbon removed from H&T Presspart's washing process, reducing CO2 emissions and eliminating the disposal of hydrocarbon waste



Plasma treatment technology reducing energy consumption by 4,100 kWh per one million cans, equivalent to running a washing machine over 1,700 times



GSK sustainability award in 2020 for Plasma surface treatment technology for MDI cans

As part of the Heitkamp & Thumann Group mission statement, sustainability has been a core value for many years. Continuous improvement alongside process and product innovation is a key driver for all companies within the Heitkamp & Thumann Group when considering sustainable and responsible manufacturing.

Creating a forward looking, sustainable supply chain is at the heart of the Group's strategy whilst maintaining customer centricity and satisfaction as a top priority.

As an example of the decentralized Group approach to sustainability, H&T Presspart has committed to creating a

greener manufacturing future by starting a sustainability program at the beginning of 2020. This will facilitate a stronger approach towards sustainable and responsible manufacturing within the supply chain.

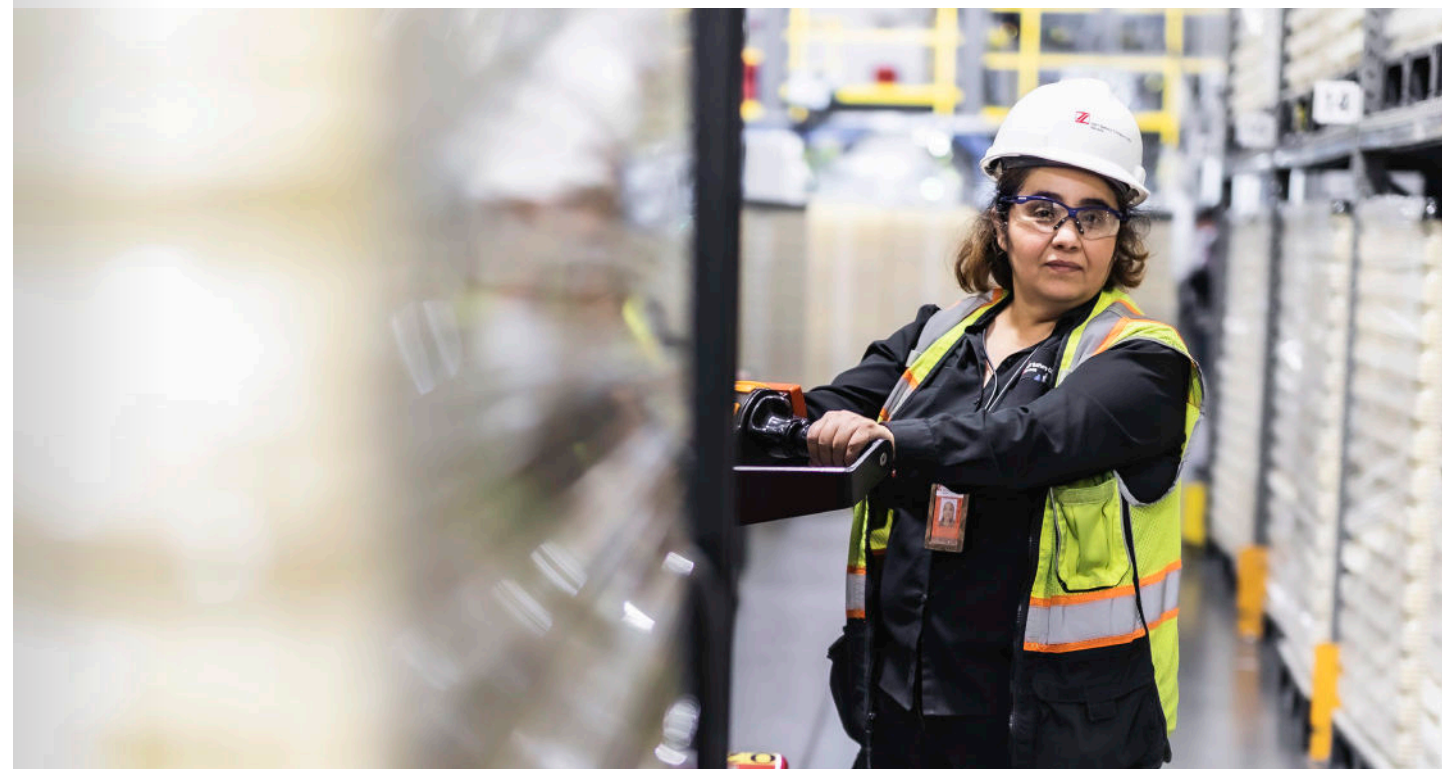
Additionally, H&T Battery Components for rechargeable batteries is the partner of choice for the development of rechargeable cell packaging solutions which are used in plug-in hybrid and electric vehicles. As electric vehicles are an important part of meeting global goals on climate change, Heitkamp & Thumann Group is contributing to a more sustainable future with its products.

A Highly Empowered Work Environment with Diversity, Development and Respect

The successful history of the Heitkamp & Thumann Group goes back more than 40 years. As a global family-owned group of companies we have gone through numerous change processes during this time — always supported by the courage and the commitment of our excellent global team of employees. This has created a culture in which integrity, diversity, working together, respect and the ambition to continuously improve determine our actions as lived values.

We are constantly improving — for our customers and for our employees. We offer our employees an attractive work environment that best suits their

personal interests including flat hierarchies as well as fast and decentralized decision making. The expertise and experience of our employees are the prerequisite for the success of the Heitkamp & Thumann Group. As a company, we support and promote the personal and professional development of our employees. Therefore, we train our employees on a regular basis. Internal and external training programs have extended in the last years designed and implemented based on the needs of both our employees and the Heitkamp & Thumann Group to support group-wide knowledge transfer.



Investing in Our Future With Apprenticeships

With over 92 young people trained in 12 commercial and technical apprenticeship programs within the Group worldwide, training is a monumental aspect of the Heitkamp & Thumann Group vision for the future. Investing in today's tomorrow is central to all training provided by the Group.

For many of the Heitkamp & Thumann Group employees, an apprenticeship has been the basis for a successful and long career within the Group, achieving success in many different directions and positions including Managing Director roles.

There is a strong commitment within the Group towards its global worldwide team of 1,800 employees who helped to achieve market leading status in many of the Group's business areas. Creating an atmosphere in which appreciation, togetherness and further development have ensured that every individual can fully develop themselves and their strengths is key for the success of Heitkamp & Thumann Group.

A Measure of Our Success

1970	1990	2000	2010	2020
1978–79 Takeover of Gemi Metallwarenfabrik, Marsberg (DE). Shareholding in Bouffard Metal Goods, Watertown, and Truelove & Maclean, Waterbury, CT (US).	1993–96 Production start at H&T Singapore (SG). Transfer of battery can production from Gemi to H&T Marsberg (DE). 1997–98 Start of production at H&T Dongguan (CN). 1999–01 Sale of Gemi.	2002 Acquisition of Presspart in Blackburn (UK). 2003 Acquisition of the press manufacturer UTZ, Crimmitschau (DE), and integration as H&T ProduktionsTechnologie. 2007–08 Acquisition of Nemo, Tarragona (ES), and integration into the Presspart Division.	2011–12 Plasma industrialization begins by opening plasma can production line at H&T Presspart Blackburn (UK). Start of joint venture HTTM between H&T Battery Components and the US partner Trans-Matic in Holland, MI (US). Acquisition of Sibea, Zwickau (DE), and integration into H&T ProduktionsTechnologie, Crimmitschau (DE). 2013–14 Major expansions of production site Marsberg (DE). 2015 Quantum dose indicator system is launched. Start of joint venture H&T Nevada LLC (US). 2016 Opening of H&T Presspart's sales offices in Montevideo (UY) and Mumbai (IND). 2017–18 Start of rechargeable battery can production at H&T Nevada (US). Start of dose counter production at H&T Presspart in Marsberg (DE). PowdAir Plus Dry Powder Inhaler, licensed by Hovione Technology, is launched. 2019 Sale of Westfalia Metal Hoses.	2020–21 Sale of Doby Verrolec (United Kingdom). Uninterrupted supply of all customers despite Covid-19. Sale of Westfalia Metal Components. Acquisition of novelex AG, Nidau (CH), and integration into the Presspart Division.



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Business Expertise





Leading Supplier of Alkaline Battery Components

H&T Battery Components Division is the world's largest manufacturer of alkaline battery metal components and offers its customers a comprehensive portfolio for the primary battery market. All products are manufactured using sophisticated, in-house developed machines and tooling for high-precision deep drawing.

Alkaline batteries rank amongst the most important electrochemical energy storage devices and are most commonly recognized in remote controls, alarm clocks and other devices. Most people do not pay attention to the metal can hidden beneath the printed brand label which was most likely produced by H&T Battery Components.



Consumer Battery Cans

H&T Battery Components produces cylindrical consumer battery cans in various different sizes, with maximized internal can volume for higher power and longer lasting products.



Consumer Battery Flat Parts

The product range for flat parts includes progressively stamped metal end caps, bottom covers, top covers and reinforcing rings for primary batteries.

Efficient Mass Production

With a production volume of more than 11 billion cans per year, H&T Battery Components offers the highest economies of scale in the industry. Regular investments in global capacity ensures H&T Battery Components stays ahead of growing customer needs. Using the widest nickel-plated steel strip to feed highly efficient cupping presses, as well as robust production processes, guarantees the highest resource efficiency.

High Flexibility and Outstanding Quality

The fully integrated development and manufacture of high-speed deep-drawing presses, tools and part conveyance allows H&T Battery Components to set new standards in terms of production speed, flexibility and process quality. The Division is experienced in managing fast ramp-ups, meeting challenging deadlines and stringent product specifications. H&T Battery Components global footprint allows the Division to meet regional customer needs.

Customer-Oriented

Leading battery manufacturers appreciate the Division's client-orientation and deep understanding in terms of all products and processes related to battery components. H&T Battery Components customer orientated approach has led to long term partnerships with major OEMs combined with long term contract commitments. The close interaction with global partners in all manufacturing stages, from prototyping to mass production as well as a flexible and fast implementation of new ideas and processes, lead to value-adding solutions and superior products.

For more information:
www.htbatteries.com



Powerful Packaging Solutions for Rechargeable Battery Cells

H&T Battery Components for Rechargeable Batteries is the partner of choice for the development of rechargeable cell packaging solutions. Global demand for hybrid, plug-in hybrid and electric vehicles has greatly increased in recent years and has propelled the development of electric drive from a niche segment to an important alternative to combustion engines. This evolutionary step has set new requirements on mass-produced cell components particularly in terms of storage capacity, charging time, safety and durability under a variety of conditions.

H&T Battery Components has entered this challenging new market early and has become a solution provider for the lithium-ion battery industry. Supporting both automotive and non-automotive applications, H&T Battery Components helps producers serve the increasing demand for lithium-ion and other innovative battery technologies.



Cylindrical Cans

The product portfolio of H&T Battery Components comprises cylindrical battery cans in various sizes, i.e. 18650, 21700 and 46800 as well as the ability to manufacture custom-sized components.



Lid Components

In addition to battery housings, H&T Battery Components has a strong capability to consult customers regarding tailor-made lid assemblies for cylindrical and prismatic battery cans.

Cost-Effective High Quality Products

Decades of experience in the development and application of deep-drawing processes make H&T Battery Components a reliable partner for the fast growing rechargeable sector. With developments in fully automated mass-production processes and individual can handling systems, the products satisfy specific requirements and demand in terms of both cost-effectiveness and quality.

Full Service Solution

H&T Battery Components provides a full service including engineering and optimization of manufacturing processes, product development, C2C (Coil-to-Carton) production and ongoing technical support. Integrated design and production of tailored tools and equipment, such as transfer presses, guarantees cost-efficient processes whilst satisfying stringent quality and performance standards.

Being part of Heitkamp & Thumann Group with the ability to design and manufacture tools and presses internally, H&T Battery Components solidifies the capability to manufacture precision battery components when and where the customer needs them. This makes H&T Battery Components flexible and independent from long supplier lead times.

Ramp-up of Greenfield Operations

As part of a global Group of companies, H&T Battery Components has extensive experience in worldwide greenfield operations and offers its services at nearly every location preference of the client. Large production sites with a capacity of billions of units per year are developed and constructed in close cooperation with the customers to ensure fully integrated production processes.

For more information:
www.htbatteries.com



Leading Global Supplier of Pharmaceutical Respiratory Drug Delivery Devices

H&T Presspart is a world leader and specialist in manufacturing deep-drawn and injection molded drug-delivery components and pharmaceutical devices. The production of pharmaceutical drug delivery components and devices requires maximum precision and quality as a patient's health can depend on the smallest of details. Consequently, pharmaceutical companies and regulatory bodies place strict quality requirements on medical device manufacturers.

H&T Presspart has developed an established reputation in a challenging market for more than 45 years and is the partner of choice for leading pharmaceutical companies. With a wide range of respiratory drug delivery products and services, H&T Presspart has set new standards in the field of deep-drawn and injection molded medical device components.



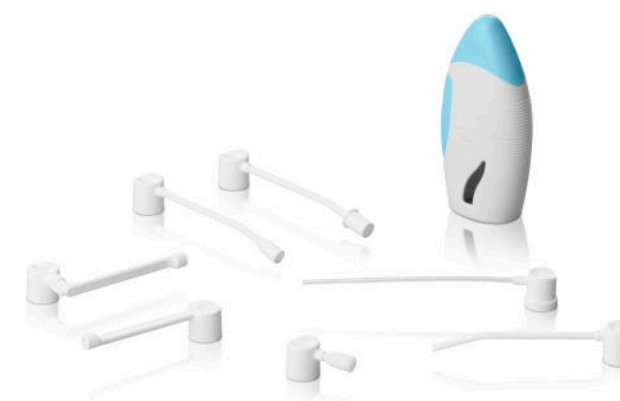
Metered-Dose Inhaler (MDI) Canisters

A comprehensive range of MDI canisters designed for optimum compatibility with customer choices of valve, actuator and drug formulation ensuring drug stability and performance.



Metered-Dose Inhaler (MDI) Actuators

H&T Presspart is the world's leading supplier of actuators for MDIs, producing a wide range of injection-molded plastic actuator components for the pharmaceutical sector.



Healthcare Dispensing Actuators

H&T Presspart manufactures a wide range of standard healthcare and pharmaceutical dispenser actuators.

High-Speed Multi-Component Device Assembly

Using robotic part handling and high-speed fully automated assembly, H&T Presspart manufactures multi-component drug delivery devices in ISO7 or ISO8 clean-room conditions. The design and development team has specialist knowledge of the capabilities of multi-component assembly for both standard and customized pharmaceutical and healthcare products.

Production in Clean Rooms

The ability to carry out complex multi-stage assemblies under clean room conditions makes H&T Presspart the partner of choice for leading companies in the pharmaceutical sector and other industries. Manufacturing in state-of-the-art facilities whilst complying with relevant standards across the pharmaceutical industry, H&T Presspart ensures a smooth process at every stage of the value chain.

Prepared for a Rapid Market Launch

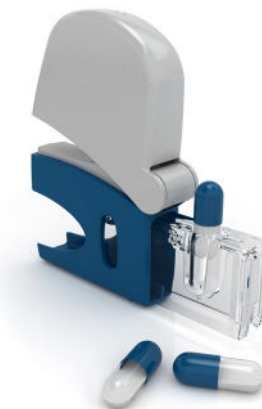
Once a new pharmaceutical product is approved, a rapid market launch can improve or even save lives. H&T Presspart's management systems and premises have already been awarded certifications according to ISO 9001, ISO 13485 and ISO 14001 as well as EU/FDA Good Manufacturing Practices (GMP) reducing time-to-market.

For more information:
www.presspart.com



Partner of Choice for the Pharmaceutical Industry

The pharmaceutical sector is continually changing with the introduction of new, revolutionary drug formulations and technical advances in drug delivery systems that help improve patient's lives. H&T Presspart strives to help those patients suffering from chronic respiratory diseases such as asthma or COPD (Chronic Obstructive Pulmonary Diseases) whilst aiming to be the most trusted and customer focused manufacturer of drug delivery devices in the world.



Dry Powder Inhaler (DPI)

PowdAir Plus is a patented capsule-based DPI based on a design by Hovione Technology. Its simplicity, ease of use and affordability make it an ideal device for developing markets.



Dose Counters and Indicators

H&T Presspart offers counters and indicators to address a variety of customer and market needs, such as the mechanical dose-by-dose counting systems licensed from Kindeva™.



Complex Plastic Medical Devices

H&T Presspart designs, develops and manufactures complex complete plastic solutions for the pharmaceutical, diagnostics and medical device industry.

Customer Oriented Product Development (NPDC)

H&T Presspart's future-oriented innovative concepts help pharmaceutical manufacturers identify the best solutions for their needs. The range of services of our New Product Development Centers (NPDC) covers several stages along the value chain, such as product development including how the drug interacts with the device components, prototyping, supporting all necessary testing and regulatory approval until the product is ready for the final production and delivery of finished components and sub-assemblies.

Inhalation Product Technology Center (IPTC)

With long-standing expertise and in-depth technical understanding of MDI and dry powder inhaler components and performance, H&T Presspart's Inhalation Product Technology Center (IPTC) can help minimize customer development cycles, providing a faster route to market as well as supporting own internal projects.

Digitalization and E-Health

Digitalization in the healthcare sector, and particularly in the pharmaceutical industry, come with specific opportunities in diagnosis, medical treatment or drug medication. The launch of the eMDI™, the first market-ready, fully embedded and connected metered-dose inhaler developed by H&T Presspart marked a crucial step in this direction. The eMDI™ will support self-care processes by improving patients' adherence to medication doses whilst supporting healthcare professionals maintain real-time monitoring of patients.

For more information:
www.presspart.com

Machinery and Tools Meeting the Highest Quality Standards

H&T ProduktionsTechnologie is a specialist in the development and construction of metal forming tools, machines and highly automated production equipment for users within and outside the Heitkamp & Thumann Group.

The production of components for the automotive industry and other global markets require state-of-the-art solutions regarding cost-efficiency and innovation through automation. Within this field, metal forming is a special process placing great demands on the performance, precision and durability of the machinery used.

Dynamic presses and forming tools have to ensure low dimensional deviation to achieve these targets in order to satisfy market requirements.

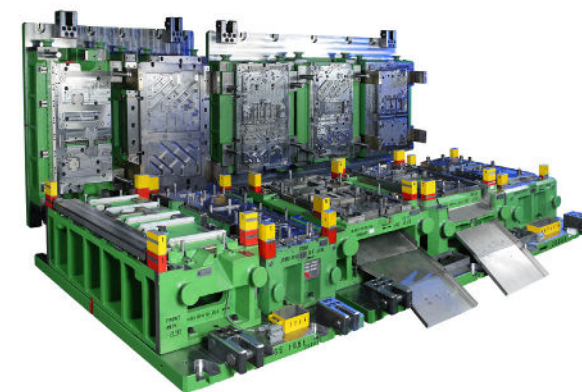


Mechanical Presses

Mechanical presses use process optimizing cam-driven rams for high-volume metal formed components.

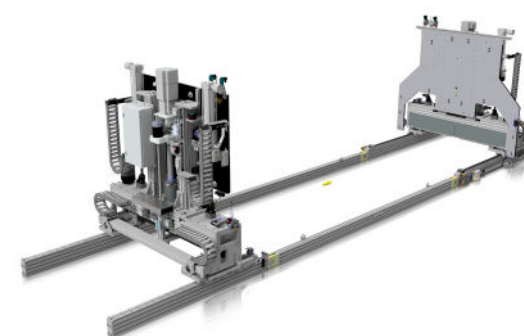
ServoSpindlePresses

ServoSpindlePresses available with multifunctional axes use unique servo drive technology for dynamic and product-specific forming, shaping and deep-drawing processes installed in a modular press concept. The most precise and dynamic presses of any on the market combine advantages of hydraulic and excenter presses.



Tools

H&T ProduktionsTechnologie designs and manufactures progressive, transfer and automated tools for complex metal formed parts made from different materials including high and ultra-high-strength materials.



Automation

H&T ProduktionsTechnologie develops and manufactures modularized transfer systems to cover a maximum scope of applications. Complex Front- and End-of-Line solutions, blank handling systems and highly automated cells complete the portfolio.

Service and Optimization

The global after-sales service includes predictive maintenance, fast spare parts supply and repair service as well as condition monitoring and diagnostics based on modern remote maintenance systems. In addition, retrofitting and optimization of existing systems enable an increased production performance.

Long-term Customer Relationships

At H&T ProduktionsTechnologie, projects follow a milestone-based project management including a detailed simulation of different solutions during process development. Machinery and component designs are made according to customer requirements by using modularized machinery generating cost-saving potentials. Customer satisfaction and long-standing partnerships are evident as a result of technological and commercial performance of H&T ProduktionsTechnologie products and experience in metal forming.

Supporting Digitalization and New Markets

The increasing digitalization of production offers many new opportunities in the field of interactive networking and intelligent process control. H&T ProduktionsTechnologie maintains close research partnerships with universities and other institutions and is constantly working on intelligent embedded systems to reduce downtime and detect cost saving potentials. In addition, our team of engineers is constantly improving our technologies by using the requirements of new and existing markets to achieve value for our customers.

For more information:
www.ht-pt.com



Innovative Deep-Drawn Precision Components for Industry

H&T Industrial is one of the world's leading manufacturers of high-precision metal components, metal pressings and stamped parts, offering over 45 years' experience serving many different industrial sectors, and the production capacity to serve high-volume markets.



Experts in Deep-Drawing

As a specialist in the field of deep-drawing technology, H&T Industrial is able to manufacture products of extreme length to diameter ratios with complex side-piercing. The business unit uses superior design and manufacturing capabilities, where quality in quantity is achieved through a combination of the latest technologies and advanced high-volume production systems.

Manufacturing Technology

There are now many specialized opportunities in deep-drawn technology for precision-engineered metal components and stamped parts previously produced by other methods. H&T Industrial is continually looking to develop ways to improve product technology, flexibility and turnaround whilst creating the right solutions for the ever-increasing complexity of customer applications.

Precision Tool Making

H&T Industrial's state-of-the-art tool workshop enables immediate implementation of new requirements and the ability to produce samples quickly making H&T Industrial the preferred supplier of precision deep-drawn components for various industries.

Quality and Testing

H&T Industrial does not compromise on quality or testing. Regular audits are carried out to ensure product compliance to the highest functional and regulatory standards. H&T Industrial is certified in accordance with ISO 9001, ISO 14001 and EU/FDA Good Manufacturing Practices (GMP).

A Variety of Substrates

H&T Industrial also designs and develops production equipment to produce components at high levels of repeatability and at low cost. H&T Industrial has a product range encompassing various deep drawn components from high-quality metals, including aluminum, stainless steel, carbon steel, brass, nickel inconel, nickel silver, Galfan and Monel.

For more information:
www.htindustrial.com



A Highly Specialized Team. Parts with Superior Precision

H&T Tool Design serves as a highly specialized partner in tool parts optimization and engineering of technology solutions. Furthermore, H&T Tool Design supports tool and machine parts according to individual customer needs. H&T Tool Design supplies internal and external customers with tools and spare parts with the highest requirements in terms of surface and precision.

In manufacturing processes where large volumes are processed at high speed, tools must meet the highest standards of precision and quality. Meeting those standards is vital for the customers of H&T Tool Design to stay competitive in terms of the quality and reliability of their own products and the efficiency of their production processes.

A good apprenticeship is essential for high-quality work. H&T Tool Design provides young people the opportunity to develop their future potential, knowledge and self-confidence in a modern manufacturing environment with the H&T Tool Design Training Center.



High Precision Tools and Spare Parts

H&T Tool Design has extensive competences in tooling for a variety of small and medium sized products made of various materials, such as tool steel carbides, technical ceramics and compound materials.



Longevity of Customer Tooling

H&T Tool Design works closely with its suppliers to validate new materials and coatings and to help improve the longevity of customer tooling.

Technical Service

H&T Tool Design's engineering capability is the basis for successful tool and machine development. The Business Unit generates tool drawings and tool systems for deep drawing parts, jigs and fixtures, as well as complete designs of assemblies and solutions. If required, finite element method (FEM) is used to optimize tool parts. H&T Tool Design works with the customer at all stages from initial concept of new tool parts to the optimization of existing products.

Precision Tool Workshop

H&T Tool Design's precision tool workshop forms the basis for competitive advantage and ensures that expertise and intellectual property is kept in-house. The climate-controlled machinery center at H&T Tool Design includes high precision grinding technologies. Furthermore, complementary competences such as milling, hard turning and eroding can be used flexibly due to a three-shift operation system.

Employee Driven Solutions

The success of H&T Tool Design is based on three factors: quality, precision and the expertise of the employees. The motivated team combines many years of practical experience and state-of-the-art manufacturing proficiency. H&T Tool Design is therefore able to immediately implement the requirements of its customers into high-quality products.

Assemblies and Solutions

The Business Unit develops and builds individual technical solutions for high-volume, high-speed processing machines as well as technical devices for prototyping and small batches. The assembly of dies sets as well as the initial set up of deep drawing presses reflect further solutions offered by H&T Tool Design.

For more information:
www.ht-tooldesign.de

Contact



www.ht-group.com

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Holding

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Angela Lampert, Vice Chairwoman
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Dr. Hubert Lienhard
Olivia Rösler

Group Executive Committee
Dr. Stefan Hauk
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