HANDTMANN GROUP
WWW.HANDTMANN.DE

handtmann
Ideas for the future.

handtmann
Ideas for the future.

# FORMED BY PEOPLE.

The Handtmann Group

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11/2014 Subject to technical alterations.

# OVER 3000 EMPLOYEES – ONE FAMILY.

The Handtmann Group

↑
Arthur Handtmann, Thomas Handtmann:
Arthur Handtmann is the President of the Advisory Board
Thomas Handtmann is the President of the Holding
and manages the Group

## Contents


| | |
|---|---|
| Group | 2 – 3 |
| Philosophy | 4 – 5 |
| Handtmann worldwide | 6 – 7 |
| Light metal casting | 8 – 9 |
| System engineering | 10 – 11 |
| Filling and portioning systems | 12 – 13 |
| Machining centres | 14 – 15 |
| Process technology | 16 – 17 |
| Plastics engineering | 18 – 19 |
| Service | 20 – 21 |
| A strong Group | 22 – 23 |


## Growing together!

Advanced technology, innovations and the focus on the individual are key aspects of the Handtmann Group. We are renowned worldwide for our strategic, dynamic and authentic approach. The company has its roots in the Swabian town of Biberach where the Handtmann family has been managing the family enterprise for four generations: a symbiosis of modern and traditional elements, fascinating technology, a high sense of responsibility towards people and the company create an indivisible whole.

Arthur Handtmann who took over the company in 1946 and developed it to become an efficient competitive group is still the President of the Advisory Board. His son Thomas Handtmann who has been head of the company since 1998 is shaping the future of the Handtmann Group. The goal of the Handtmann family is to pursue the future of the Handtmann group as a family enterprise and this should continue into the fifth generation.

Autonomous management structures are established in a decentralised organisation in six divisions. At the head of the Group is a holding company with an Advisory Board which acts as the management, financing and holding company.

The last years were marked by continuous growth: in 2013 sales of ca. 583 million Euros were generated with about 3000 employees. Intensive investments made possible by a strict reinvestment policy of the owners of the company ensure both the innovative strength and the growth of the company.
**Investments and solidarity take us forward into the future.**

# TECHNOLOGY BASED ON A PASSION FOR TOMORROW'S MARKETS.

Handtmann philosophy

↑
**Headquarters:**
Arthur-Handtmann-Straße in Biberach
The Handtmann Group develops, produces, manages and sells globally on an area of 600.000 m²; 300.000 m² of which are covered.

## Economically feasible innovations for our customers

We have always had a passion for tackling challenging technological problems. Throughout the Handtmann Group sophisticated technical solutions are developed for the benefit of our customers and the growing needs of the demanding market. This dynamic philosophy poses a perpetual challenge and requires not only a highly qualified team but also entrepreneurial courage and farsightedness.

Our technological orientation encompasses all corporate divisions - innovations are not simply a product of coincidence: the urge to overcome apparent boundaries, the insatiable desire to present innovations must be pursued and exemplified. Professional innovation management is therefore one of our essential qualities. We often perform genuine pioneer work and in the process tirelessly reap the fruits of our success on the market: for example, the lost foam aluminium casting process for series production with which we have become technological leaders in both Germany and Europe, the Handtmann exhaust systems, oil pans and chassis parts made from aluminium die cast, large batch magnesium casting and patented filtering processes make technological history.

Our filling and portioning systems for the food industry are leading on the global market, likewise valve and process technology, patented filtration processes and leading technology in double-seat valves in valve manufacturing, the engineering materials Lauramid® and Eltimid® made by Elteka and the 5-axis high-speed machining centres made by A-Punkt Automation, to name but a few. **We realize ideas with a future.**

# LOCAL AND GLOBAL.

Handtmann worldwide

↑
Handtmann is represented in over 100 countries with its own production plants, subsidiaries and agents.

## Proximity to the customer creates efficiency and individuality

The globalization of the company enables local presence and proximity to customers in all important markets throughout the world. On the one hand this enables us to offer the best possible service, on the other hand we gain application experience from all parts of the world and precisely this makes Handtmann strong and diverse. We incorporate all experience gained into our research and development and through permanent international benchmarking we foster our commitment in the pursuit of quality leadership.

This orientation has been part of our corporate culture for decades. All companies within the Handtmann Group are major exporters and thus consistently geared towards the needs of international markets. Our extensive network for exchanging information and services provides global expertise on a local basis – from the first customer contact to individual support in the application.

The Handtmann subsidiaries in the numerous important export markets act to a large extent autonomously. Other sites and agents worldwide ensure that Handtmann's expertise is available at all times. Guidelines issued by the Head Office ensure uniform standards with regard to technology, quality and service. In individual cases, however, the customized solution has priority. **Your satisfaction counts.**

**Handtmann companies abroad**
Brasil – Handtmann do Brasil Ltda.
Canada – Handtmann Canada Ltd.
China – Handtmann Machinery (Shanghai) Co., Ltd.
China – Handtmann Light Metal Foundry (Tianjin) Co., Ltd.
England – Handtmann Ltd.
France – Handtmann France sarl
Italy – Handtmann Italia s.r.l.
Russia – ooo Handtmann CNC Machines
Russia – ooo Handtmann Machine Factory
Slovakia – Handtmann Slovakia s.r.o.
USA – Handtmann CNC Technologies Inc.
USA – Handtmann Inc.

Albert Handtmann Metallgusswerk GmbH & Co. KG
Handtmann Leichtmetallgießerei Annaberg GmbH
Handtmann Slovakia s.r.o.
Handtmann Light Metal Foundry (Tianjin) Co., Ltd.

# THE FASCINATION OF CASTING.

## Light metal casting

## Technologies – the key to successful developments

Handtmann is your strategic system partner for aluminium and magnesium casting, in particular for the automotive industry. Renowned manufacturers and suppliers rely on our expertise – not only on the sophisticated process and machining skills but also on our qualities and many years of experience in the field. With over 1600 employees we are the largest German aluminium casting foundry that is still family-owned.

We place great importance on being the development partner for our customers. We bundle our skills, pool our ideas and set standards from the very beginning - whether in the production of highly robust cast products for chassis and bodies, as trendsetter in the production of oil pans or in the manufacture of large, complex transmission parts.

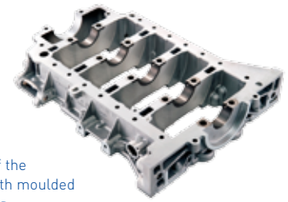
Our plants in Biberach and Annaberg produce safety-related aluminium die casting parts with closing forces of up to 4000 MN and lightweight magnesium parts. Further plants are located in Slovakia and China. The gravity die casting process produces components for highest load requirements, the lost foam process for unique flexible shapes of expandable polystyrene (EPS).

A modern, highly automated machine park provides maximum flexibility. It guarantees the precise further processing and assembly of all parts: over 50 CNC machining centres and numerous special plants ensure that the innovative ideas and concepts are accurately implemented and provided "just in time" exactly where they are needed. **Handtmann finds the best possible solution for you.**

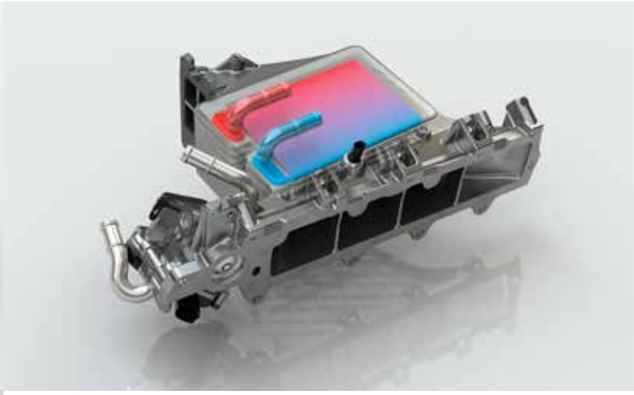
→ Structural die cast component Suspension strut

→ Transmission housing for automatic transmissions

→ Pump housing



→ Lower part of the crankcase with moulded bearing shells



# STRATEGIC PLANNING MEANS LONG-TERM SUCCESS.

System engineering

## Innovative systems for tomorrow's mobility

Contract development is a skill – strategic planning clearly defines the company's mission: Handtmann Systemtechnik is your contact for shaping the future. We plan strategically, evaluate ideas, realize projects and profit from our experience and the qualities of the Handtmann Group and its decades of outstanding competence in aluminium and magnesium casting.

The results of our intensive cooperation with the top OEMs in the automotive sector play a significant role in their value chain and during strategic planning. Excellent examples in addition to the complex suction systems and intelligent concepts for exhaust gas routing and cooling, are the Handtmann spiral supercharger HSLn®. Its compatibility with a variety of engines ensures improved driving performance with reduced fuel consumption and $CO^2$ emissions. It operates highly efficiently, has an extremely low noise level and provides increased driving pleasure with minimum mass inertia.

A further contribution of Handtmann Systemtechnik to tomorrow's mobility is a highly integrative charge air module. As a full service provider, we support you from the idea to market maturity. We initiate progress, provide consultancy services and assume project supervision/responsibility. We develop, construct and supply prototypes. We offer know-how transfer, provide support in planning, organization, function and quality control and accompany you into production. **We break new ground.**

→
Spiral supercharger HSLn®

→
Charge air module

→
Water-cooled aluminium exhaust gas turbocharger

Albert Handtmann Maschinenfabrik GmbH & Co. KG
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Handtmann Machinery (Shanghai) Co., Ltd.
Handtmann Maschinenvertrieb GmbH & Co. KG
Handtmann Ltd.
Handtmann France sarl
Handtmann Italia s.r.l.
Handtmann Inc.
ooo Handtmann Machine Factory

# LEADING EDGE TECHNOLOGY FOR FIRST CLASS QUALITY AND DIVERSITY.

## Filling and portioning systems

## Pathbreaking technologies for the food processing industry worldwide

Filling, portioning, separating, depositing, forming, co-extrusion: the Handtmann Maschinenfabrik supplies vacuum fillers, portioning systems and complex line solutions for food production worldwide. Whether for the manufacture of the traditional German sausage and meat products, fish, delicatessen, dough, milk or cheese products, salads, vegetarian or convenience foods, together with over 70 engineers and technicians, we develop innovative solutions based on portioning technology. For example, vacuum fillers with patented vane cell feed system, ConPro systems for products with an alginate skin instead of casings, the production control software HCU as well as robots for product handling.

Thanks to intensive and appropriate market cultivation, Handtmann holds a leading position today in the portioning system sector for food production. We collaborate closely with the customer on product development. Our communication platform for this purpose is the Customer Centre HANDTMANN FORUM which offers the ideal setting for project discussions, presentations, seminars and expert symposia.

Our demand on the machine components and control technology ensures maximum product quality and process reliability for the customer. Top-notch employees, advanced production technologies with high vertical integration, sales partners and subsidiaries in over 100 countries supported by over 350 service engineers worldwide contribute their part. The factory-overhauling and marketing of used machines with factory guarantee in our own used machine centre underline the Handtmann commitment to quality. **Our drive is your success.**

↑
Innovative solutions for producing of sausage/meat products, fish, delicatessen, dough, milk or cheese products, salads, vegetarian or convenience foods.

Handtmann A-Punkt Automation GmbH
Handtmann CNC Technologies, Inc.
ooo Handtmann CNC Machines
Handtmann CNC UK
Handtmann CNC Machines China

# DIVERSITY, PRECISION AND PRODUCTIVITY IN HPC/HSC.

Machining centres

## 5-axis HPC/HSC machining centres

The Handtmann A-Punkt Automation with headquarters in Baienfurt is specialized in the development and manufacturing of powerful 5-axis HPC/HSC machining centres. Over 25 years of consistent growth enable us to offer optimum customer-specific solutions with regard to machining strategy, workpiece size and materials.

We focus on the process requirements of our customers. Handtmann Turn-Key Solutions provide extensive consultation in programming, clamping solutions and simulation. Handtmann Service Solutions combine long-term machine availability and continuous productivity optimization. Our Finance Solutions offer attractive machine financing by Handtmann Finance. Together with the Handtmann Machine Solutions we offer our customers a complete package tailored to their needs from one source. Efficient 5-axis simultaneous machining of workpieces in only one clamping, long-term availability and the best possible productivity are included. Automation reduces the cycle times to virtually the pure machining time.

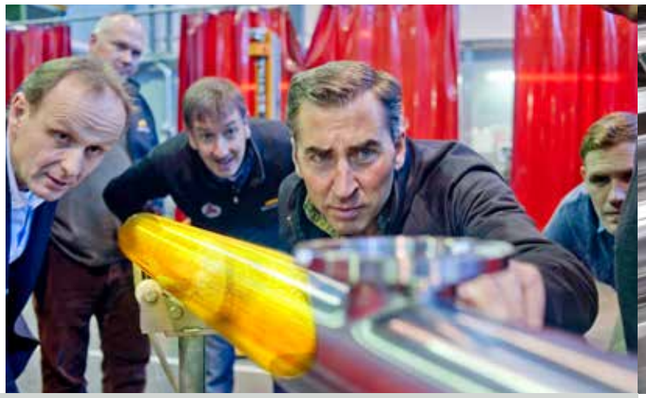
The portfolio comprises four extensive product lines: the profile machining centres PBZ® for multi-axis profile machining, the universal machining centres UBZ® for large volume workpieces, the GANTRY® high portal machining centres for machining large parts of up to 50 m in length and the horizontal machining centres HBZ® for machining with high material removal rates and well above-average performance. Their precision, performance and efficiency convince renowned companies in the following sectors throughout the world: aerospace, automotive, mould- and die making, tool making, general metal machining, façade engineering and energy technologies.

In order to achieve maximum quality, we construct and produce exclusively in Baienfurt. Whether for applications from different materials, e.g. titanium, steel, aluminium or composites, Handtmann A-Punkt Automation is renowned as a reliable development partner. A close-knit network of partners throughout the world and our own subsidiaries guarantee short reaction times and excellent customer service. **We design your optimum machining process.**

↑
Handtmann horizontal machining centre
HBZ® Trunnion® 120

↑
Handtmann profile machining centre PBZ® HD

Albert Handtmann Armaturenfabrik GmbH & Co. KG



# CUSTOMIZED SOLUTIONS FOR A SMOOTH FLOW.

## Process technology

### High-quality components and system engineering for a reliable production process

The Handtmann Armaturenfabrik is one of the leading suppliers of fittings, valves and process technology to the beverage industry, biotechnology and chemical-pharmaceutical industries.

Frequently designed as functional assemblies, e.g. RLV units and tank top flanges, our safety and vacuum valves ensure effective protection of the tanks. Process valves, e.g. our double-seat valve INOVA or the overflow valve FLOW-safe stand for hygienic, reliable process control.

Innovative technology can also be found in the new single-seat valve Classic, which enables the blocking, diversion and protection of liquid media in pipeline systems employed in the food and brewing industry. The innovative engineering provides extensive know-how for the complete cellar area between the brewhouse and bottling. With regard to yeast management, we offer the systems YEAST WRANGLER and VERSA FLEX for individual applications.

Whether CIP cleaning plants, pipeline systems for liquids and gases, filter and absorption technology, pressure control equipment, special fittings or prefabricated assemblies: Handtmann process plants are built to the customer's requirements. During the construction and manufacture of specific projects we comply with the principles of "Hygienic Design". We assemble complete systems and supply customized software solutions with central visualization for process control and monitoring.

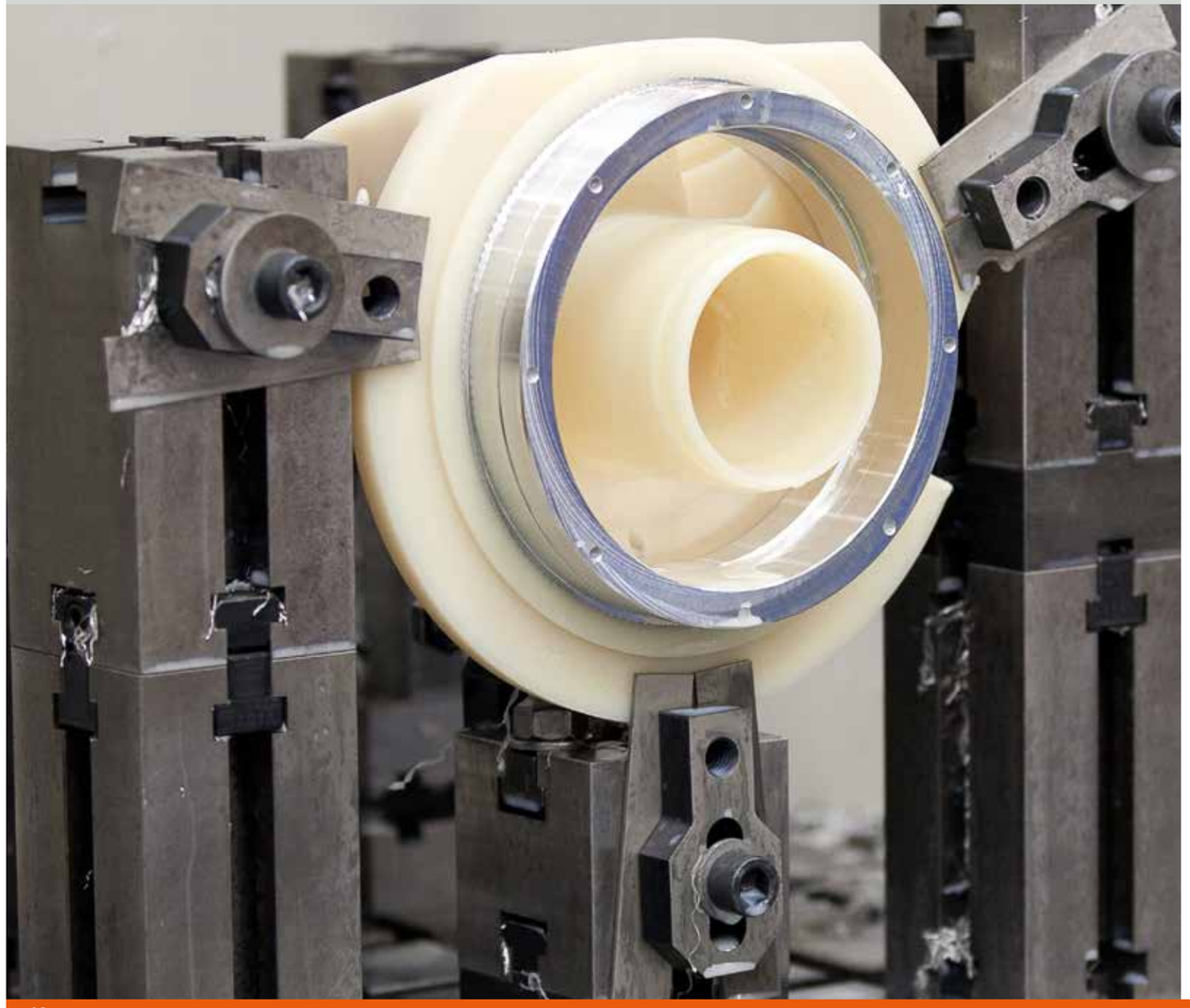
Convincing developments, reliable and high-quality components and systems. **With us you are on the safe side.**

↑ The tried and tested Handtmann safety valves are available in different versions and sizes.

↑ CS caustic filtration system

# CUSTOMER-SPECIFIC COMPONENTS MADE FROM HIGH-TECH PLASTICS.

## Plastics engineering



## Innovative plastics for better solutions

They are employed in the mechanical engineering sector and far beyond this. The high-performance engineering plastics produced by Handtmann Elteka optimally combine mechanical, physical and chemical properties. Therefore they are frequently used to replace metal components. The creativity in their application virtually knows no limits.

PA 12C Lauramid®, the international market leader, is a pressureless cast, heavy duty, dimensionally stable polyamide. It is suitable for employment in complex complete systems, special moulds and safety-related machine elements. Lauramid Hybrid®, a metal foam encapsulated with PA 12C Lauramid®, continues the success story. This material is lighter but at the same time even stiffer and thus especially suited for large components.

The high-temperature resistant Eltimid® shows its competitive edge in applications with high operating temperatures of up to 260°C (peaks of up to 400°C). This pressed engineering material enables not only the economic high-volume production of bearing bushings and thrust plates but also of lubricant-free iCROSS® roller bearings.

Handtmann Elteka produces complete systems, casting moulds and press moulds, semi-finished products and food-safe components. Extensive engineering services, consulting and calculation in the development of components represent the core competence of the services. In close cooperation with customers, suppliers, research institutes and our own offices throughout the world we develop economical, highly precise and reliable applications. **We stand for progress in plastics.**

**Our range of services:**

- PA 12C Lauramid®
- High-temperature polyimide Eltimid®
- Lauramid® metal composite
- Semi-finished products, finished components, complete systems
- Engineering
- Consulting and calculation

↑ The high-performance plastic Lauramid® is predestined for highly demanding applications

↑ Lauramid Hybrid® is employed for even lighter and stiffer components

# PROFESSIONAL SUPPORT FOR ENTREPRENEURS.

Service for the Group

## Pooling of competences and synergies through centralized services

Six efficient corporate divisions constitute a strong service team: in the Group, Handtmann Service provides, amongst other things, highly qualified consultation and services including finance and accounting, human resources, data processing, occupational safety and environmental protection.

The central and technical services ease the burden for the Handtmann companies operating on the market so that they can concentrate on their core competences and exploit their expert know-how and synergy potentials. This also enables a higher quality in the processing of tasks company-wide and the highest possible cost efficiency coupled with flexible staff employment.

Vocational training is one of the central competences at Handtmann. Handtmann Service is responsible for and controls the training of around 100 young people in varying commercial and technical jobs as well as individual adult education and training programs for individual employees and employee groups. Our philosophy is to secure already existing jobs and to create new ones. We invest substantial sums each year for this very purpose.

A further excellent example is our financing service Handtmann Finance: we support investments in Handtmann technology by financing on attractive terms which in turn facilitates realization. Existing credit lines and securities at house banks remain untouched and our customers profit from additional entrepreneurial freedom and liquidity. **We invest today in the future.**

# WE ARE HANDTMANN.

## A strong Group

### Responsibility for fellow humans and society

Shape success and act responsibly – that is the message that Arthur and Thomas Handtmann wish to communicate. It is expressed in modern technology for environmental protection and resource conservation. This applies to us all. Our intention is that the employees of our family-run company have a sense of well-being and thus enjoy doing a good job. We express our appreciation by providing appropriate remuneration and forms of employment along with working-time models, latest technologies and modern machines. We focus on independent decision-making, short communication channels, an intercultural, informal working atmosphere. You can count on us in the future thanks to the company pension scheme and seminar programs for older workers. It is worth it. **Come and join the Handtmann family!**

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