

JAHN

GmbH

Umform- und Zerspanungstechnik



Partner for your success.

Aluminium expertise based on tradition

Efficient, flexible and reliable

As a manufacturer of aluminum components with a global sales market, we can now look back on a success story spanning over 30 years. In a total of 4 plants, products for a wide range of industries and applications are produced using extrusion and CNC processes as well as punching and welding.



The JAHN GmbH in numbers

Over
800
employees

Including
> 30
research engineers
and technicians

3
locations worldwide

24
patents in the last
10 years

**approx.
10 - 15 %**
annual sales growth

56
Knuckle-joint presses
100 - 2.000 t

Founded in 1993, JAHN GmbH can look back on a long tradition of successful development and production of technical extruded parts, components and systems, primarily for the automotive industry, electrical industry and mechanical engineering. The immense versatility as a specialist in aluminum cold forming is also reflected in numerous innovative solutions for the food and chemical industries as well as in medical technology.

Your advantages with our solutions:

- » Customized concepts
- » Highly automated technology
- » Competitive price-performance ratio
- » Short development and processing times
- » High flexibility for samples and prototypes

Sales markets

From Germany to the world



Our product portfolio

Chassis



JAHN GmbH produces several components for air suspension struts or vertical dynamic systems for well-known automobile manufacturers.

Pressure accumulators and chassis components are used here, which serve as individually designed and highly functional end flanges.

Fluid & Powertrain

A particular diversity is evident in the **fuel filter components** from JAHN GmbH.

Here we offer around 180 different types for almost all vehicle models and engine variants worldwide.



Electric



In the electrical sector, we offer our customers individual product solutions for a wide range of applications with **capacitor housing**.

With our **housings for control units** and **heat sinks for electronic control units**, we can also optimize the cooling pins used for each application area.

Battery cell cups & housing

In the field of aluminum cold extrusion, JAHN GmbH is **Europe's leading manufacturer** of battery cell cans.

For the field of electromobility, we are able to produce solutions and products ready for series production in quantities of millions.



Pressure cylinder

Our cylinders made of aluminum or aluminum alloy cover sizes from 0.2 to 10 liters and are designed for up to 500 bar operating pressure. Areas of application include fire extinguishing and helium technology, as well as diving and leisure activities.



We work as standard with certification according to ISO 11118 for **disposable cylinders** and according to ISO 7866 for **reusable cylinders** (e.g. for our own brand SodaTASTE) in accordance with ADR.



Thermal management



Our products are used in various areas of thermal management in cars and commercial vehicles.

With our **air conditioning dryers** and **accumulators**, we create the basis for customer-specific air conditioning systems with optimal functionality.

Defence & Pyrotechnology

In the area of defense and pyrotechnics, we produce reliable aluminum components for defense applications and rescue operations.

Our range includes various **components for distress signals**, **housings for ejection seats**, as well as **propellant** and **flare casings**.



Special pressed parts



The diversity of our portfolio is also reflected in the fact that we can produce and supply components that cannot be assigned to conventional industry categories.

Examples of this include **lens housings**, **aluminum products for the textile industry**, **hydraulic components** or **components for the leisure sector**.

Aluminum cold extrusion






Using state-of-the-art equipment, we have been manufacturing technical extrusion parts to the highest standards for three decades.

Smooth production processes using powerful knuckle-joint presses with **pressing forces of 100 to 2000 kilonewtons** enable us to produce even complicated extrusion parts with a high

degree of deformation in continuous quality. We offer the following process variants: backward extrusion, forward extrusion and combined extrusion.

Realizable dimensional ranges

-  Diameter: 10 - 200 mm
-  Lengths: up to 750 mm
-  Wall thickness: up to 20 mm

Usable materials

- Aluminum or aluminum alloys
(e.g. EN AW-1050, -3003, -3103, -6082, -6060, -6061 ...)
- Magnesium or magnesium alloys
- Copper or Copper alloys

Our service portfolio

Aluminum welding

Within our comprehensive product portfolio, we can offer welding tasks in the areas of **MIG/MAG, CMT, TIG, friction and laser welding** in consistently high quality.

The area of aluminum welding is completed by our automated helium leak testing systems, which guarantee excellent product quality.



By combining it with other manufacturing processes such as pressing and machining, we offer a high level of comprehensive expertise. This means that even complex assemblies can be manufactured economically.

Metal cutting

At JAHN GmbH, more than 150 state-of-the-art **CNC milling centers** and **CNC lathes** form the base for further processing by means of high-speed machining.

These enable precise and effective processing of aluminum cold extrusion parts and profile material made of aluminum for small and large series through 5-axis machining.



About 80 % of the machines used are automated and integrated into a modern ERP system for live monitoring. Together with our specially qualified and experienced personnel for programming and execution, we guarantee a close-meshed utilization in three-shift operation according to the highest requirements for excellent results.

Cleaning & washing



All products manufactured by JAHN GmbH are cleaned in modern solvent washing systems. In our efficient facilities, all manufactured products are reliably and cleanly degreased in this way. Existing cooling lubricants are completely removed in this process in order to deliver a high-purity aluminium product.

The surfaces cleaned in this way show positive results in downstream work steps such as welding, soldering and final assembly.

Research & Development

With the aim of providing timely concepts, we employ more than 30 engineers and technicians who develop and research various process engineering topics on a daily basis. In this way, we can sustainably offer the professional framework that our customers expect from us.



We develop customized products with optimal economic properties such as:

- » low weight of the aluminum parts compared to steel
- » high degree of deformation in extrusion
- » low tool costs
- » homogeneous structure and favorable fiber flow
- » high dimensional accuracy
- » possibility of optimal surface treatment
- » recyclability

Patents

As a result of our work, a large number of innovative solutions have been registered as patents. These include the application areas of cooling media, storage devices and packaging.

Our lead through secure and protected knowledge means that not only we, but also our customers can benefit directly.

Certifications

Our manufacturing methods are focused on ensuring the best possible quality for each individual product. For this reason, we guarantee our customers certified standards that they can rely on as part of a partnership.

We see the certification of our processes as an ongoing process. This includes, for example, quality and requirement certificates for our in-house testing service and our production in accordance with ISO 22000, 7866 and DOT. In the long term, we therefore strive to obtain further assurances of our guaranteed performance. This is the only way we can ensure the long-term success of our customers.



Our locations in Thuringia



Headquarter

as well as Research & Development

Im Grund 1
99897 Tambach-Dietharz

Operating department 1

Tool & machine construction, vocational training
Triftstraße 1a · 99897 Tambach-Dietharz



Operating department 2

CNC, accounting / administration
Triftstraße 1a · 99897 Tambach-Dietharz



Operating department 3

Pressure vessels / extrusion & CNC / shipping
Im Grund 5 - 9 · 99897 Tambach-Dietharz



Operating department 4

System production
Bahnhofstraße 10a · 99897 Tambach-Dietharz



Tradition and future



JAHN GmbH lives in the tradition of the 100-year history of metal processing in Tambach-Dietharz. A tradition that is only kept alive by capable employees and their passion for their craft.

In order to continue to build on this success as a leading manufacturer of aluminum components, we offer our young employees professional training in our own, modern training center.



How to find us



Your destination:

Jahn GmbH
Im Grund 1
99897 Tambach-Dietharz



We look forward to your contact enquiry



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Find out more about us
and our product range:

