# Welcome to Alupress –
# Your full-service partner

alupress Automotive Die Casting Components

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4

Plants

1000

Employees

Family owned company since

1965

143.5

Million € sales revenue

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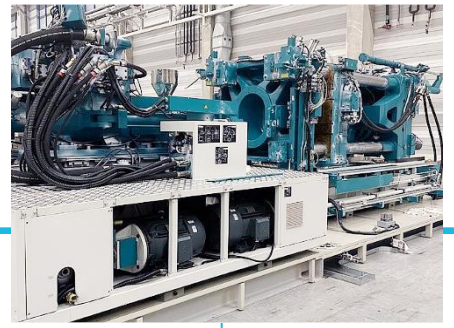
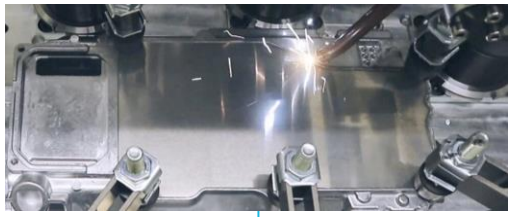
# From spin-off to global supplier

## Company history of Alupress Group





**1965**
Company founded as a spin-off of the Durst company

**1974**
Establishment of new company HQ in Brixen (Italy)

**2002**
Takeover of foundry in Hildburghausen (Germany)

**2008**
Takeover of Alupress Tooling (Italy)

**2009**
Takeover of a subsidiary in South Carolina (USA)

**2021**
Commissioning of the magnesium thixomolding plant (Germany)

**2022**
Commissioning of the laser welding system (Italy)

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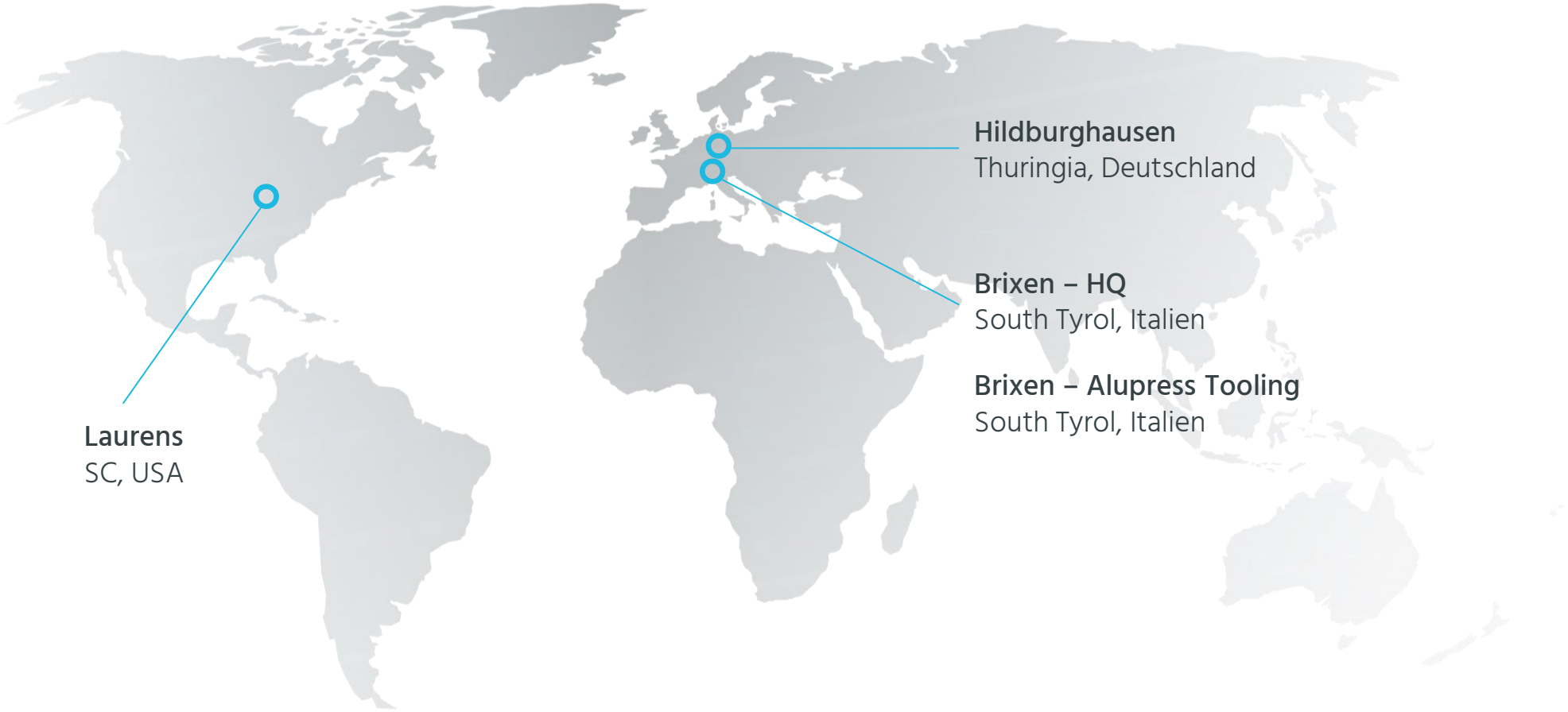
# Locations of Alupress Group

Plants with the latest production facilities and technologies



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# Alupress Brixen, HQ

## All central functions, all processes

+ 30 die casting cells: 340–1050 t

### Processes:

+ Casting – deflashing
+ Shot blasting and slide grinding
+ Mechanical processing
+ Washing
+ Leakage tests (differential pressure, helium)
+ Coatings (external partners)
+ Assembly lines
+ Laser welding
+ Laser cleaning / Laser marking

### Laboratory activities & service:

+ CT scans
+ Clean Area
+ Residual dirt laboratory
+ Microscopic analyses
+ Bonding- and adhesion tests

### Alloys:

+ 226 - EN AC-46000 EN AC-Al Si9Cu3(Fe)
+ 230 - EN AC-44300 EN AC-Al Si12(Fe)
+ 231 - EN AC-47100 EN AC-Al Si12Cu1(Fe)
+ 239 - EN AC-43400 EN AC-Al Si10Mg(Fe)

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# Alupress Tooling

## Our technology center for tools

**Workplaces:**

- 4 CAD workplace
- 8 CAM workplace
- 3D printing metal
- Die-sinking EDM system, palletized
- Wire erosion machine
- CNC 3 axis milling centers
- 5-axis milling centers, palletized
- HSC Milling
- CNC Lathing
- Roll grinding
- Measuring machine
- Assembly and polishing

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# Alupress Hildburghausen

## Our production plant in Germany

+ 25 die casting cells: 340–1400 t
+ 1 magnesium thixomolding plant

### Processes:

+ Casting – deflashing
+ Shot blasting/ slide grinding
+ Machining
+ Washing
+ Leakage tests
  (differential pressure, helium)
+ Coatings (external partners)

### Laboratory activities & service:

+ Clean area
+ Adhesion tests

### Alloys:

+ 226 - EN AC-46000 - AC-Al Si9Cu3(Fe)
+ 230 - EN AC-44300 - AC-Al Si12(Fe)
+ 231 - EN AC-47100 - AC-Al Si12Cu1(Fe)
+ AZ91HP – EN-MC21120 – EN-MCMgAl9Zn1

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# Alupress Laurens

## Our manufacturing location in the USA

+ 9 die casting cells: 900–1400 t

### Processes:

+ Casting – deflashing
+ Shot blasting
+ Mechanical processing
+ Washing
+ Leakage tests (differential pressure, helium)
+ Coatings (external partners)
+ Assembly lines

### Laboratory activities & service:

+ Clean area
+ Residual dirt laboratory
+ Adhesion tests

### Alloys:

+ A380.0 – similar to EN AC-AlSi9Cu3(Fe)(Zn)
+ A413.0 – similar to EN AC-AlSi12Cu1(Fe)
+ A413.0 with Cu< 0,1% – similar to EN AC-AlSi12(Fe)

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# Scope of production

## Processes:

- Casting (400–1400 t) – deflashing
- Shot blasting and slide grinding
- Mechanical processing
- Washing
- Leakage tests (differential pressure, helium)
- Coatings (external partners)
- Assembly lines
- Laser welding
- Integrated measurement & 100% testing
- Laser cleaning / laser marking
- Magnesium thixomolding plant
- In-house tool maintenance and toolmaking

## Laboratory activities & service:

- CT scans & X-rays
- Clean area
- Residual dirt laboratory
- Microscopic analyses
- Bonding- and adhesion tests

## Alloys:

- 226 – EN AC-46000 EN AC-Al Si9Cu3(Fe)
- 230 – EN AC-44300 EN AC-Al Si12(Fe)
- 231 – EN AC-47100 EN AC-Al Si12Cu1(Fe)
- 239 – EN AC-43400 EN AC-Al Si10Mg(Fe)
- A380.0 – similar to EN AC-AlSi9Cu3(Fe)(Zn)
- A413.0 – similar to EN AC-AlSi12Cu1(Fe)
- A413.0 with Cu< 0,1% – similar to EN AC-AlSi12(Fe)
- AZ91HP – EN-MC21120 – EN-MCMgAl9Zn1

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# Full-service system solutions

In-house development, consulting, project management and production from a single source

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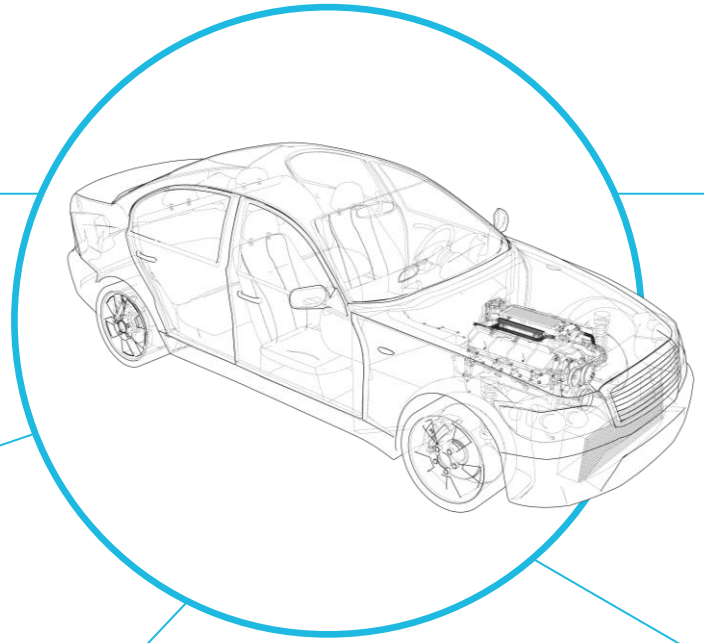
# Process technology aluminum die casting

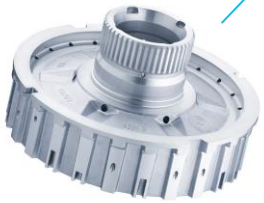
More on this:
https://youtu.be/v26h_q-9z4A

## Field of application Car

Powder-coated system carrier

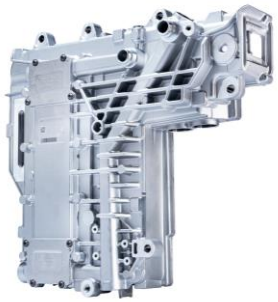
Component for long-range radar system





Automatic eight-speed gearbox clutch

Electric power steering component



Housing for power electronics in electric vehicles

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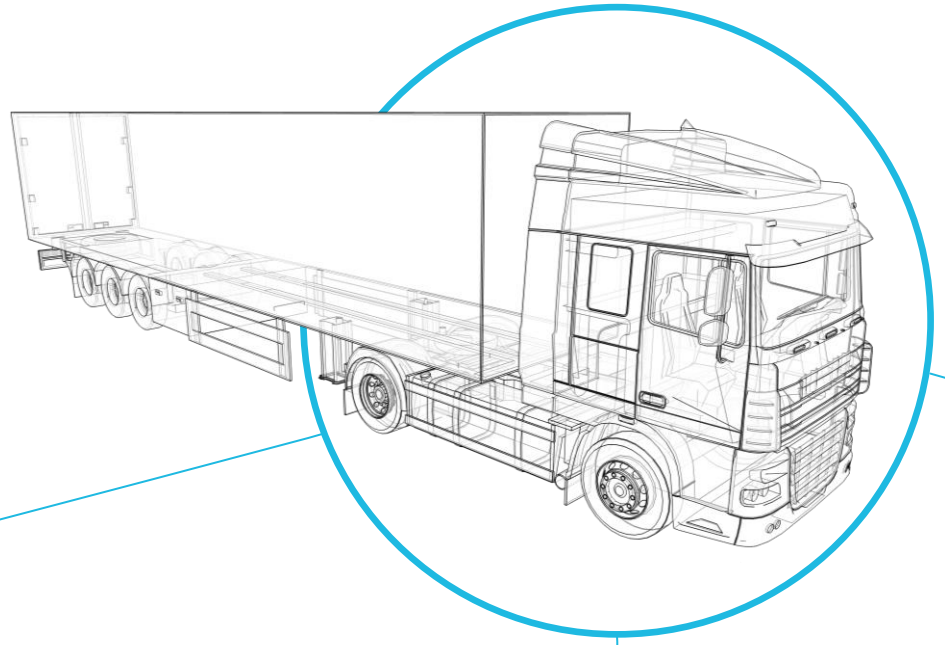
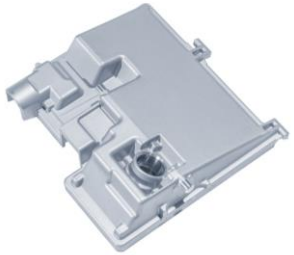
# Process technology aluminum die casting

More on this:
https://youtu.be/uBfweX9dq70

## Field of application Truck



Housing for electronic trailer braking system



Housing for front camera

Housing for air circulation in braking systems

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# Process technology magnesium thixomolding

Magnesium – processed by means of thixomolding – is of particular value for interior applications in the automotive sector. This process is however also an attractive solution for other mobility sectors and non-automotive markets.

Stefan Ploner, CTO

# Long-term partnerships

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# Customers of the Alupress Group

Partner to the largest automotive suppliers

## Automotive

MAGNA
ZF
vitesco TECHNOLOGIES
Continental
BOSCH
SONCEBOZ
SEMIKRON
FORVIA
SILVER ATENA
PIERBURG
A Nidec Group Company GPM All for dreams
HANON SYSTEMS

## Truck / non-automotive

BOSCH rexroth A Bosch Company
KNORR-BREMSE
MAGNETSCHULTZ
Hengst AUTOMOTIVE
MELLING ENGINE PARTS
TECHNOALPIN

# Sustainability

## in all areas

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# Sustainability within the company

A management model that will safeguard our grandchildren's world is central to our thoughts and our actions

### Environmental sustainability:

- $CO_2$-neutral by 2030
- Energy saving
- Circular economy for raw materials
- Reduced water consumption
- Waste reduction

### Social sustainability:

- Future-proof jobs
- Equal opportunities
- Market-oriented remuneration
- Compatibility of family and career
- Safe and fair working conditions

### Economic sustainability:

- Long-term partnerships with customers and suppliers
- Increasing efficiency and application of new technologies
- Safeguarding of profitability and financial stability

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# Quality is our standard

## Certifications of Alupress plants

| Certificate | | Alupress Brixen | Alupress Hildburghausen | Alupress Laurens | Alupress Tooling Brixen |
|---|---|---|---|---|---|
| IATF: 16949:2016 | Quality Management System – the standard for the automotive industry | + | + | + | |
| ISO 9001:2015 | Quality Management System | + | + | + | + |
| ISO 14001:2015 | Environmental Management System | + | + | + | |
| ISO 50001:2018 | Energy Management System | + | + | | |
| ISO 45001:2018 | Occupational Health and Safety Management System | + | | | + |

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# Best performance in technology and quality

## Awards conferred on the Alupress Group

**1987**
Bosch
Supplier award

**2004**
Siemens
›Outstanding Supplier‹

**2010**
Continental
›Supplier of the Year‹

**2011**
Continental
›Supplier of the Year‹

**2012**
Knorr-Bremse
›Supplier of the Year‹

**2015**
Bendix
›Supplier of the Year‹

**2016**
Knorr-Bremse
›Supplier of the Year‹

**2017**
Continental
›Supplier of the Year‹

**2020**
Award
›Special Recognition‹
for housing for a control unit for electrical vehicles

**2020**
International HPDC Contest
Award 3rd prize for housing upper part for 2 channel electronic breaking system

**2022**
International HPDC Contest
Award 2nd price for system carrier

**2023**
Bosch Global Supplier Award
Award in categorie ›raw materials and components‹

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# Our Corporate Values

We create added value for our customers

We work safely

We offer trust and show appreciation

We are sustainable

# For more information see our website at www.alupress.com

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alupress Automotive Die Casting Components

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