

# Beyond Aluminium

**ALUWAG**

# AGENDA

1. Facts and figures
2. Process
3. Die casting machines
4. Customer
5. Products

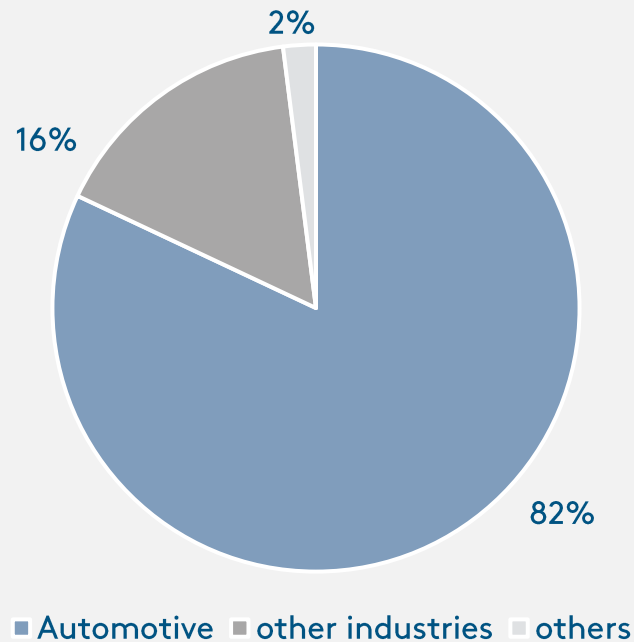
# FACTS AND FIGURES

<b>Foundation</b>	1971
<b>Location</b>	Niederbüren
<b>Legal form</b>	Public company (AG)
<b>Certificates</b>	EN ISO 9001, IATF 16949, ISO 14001, OHSAS 18001, TISAX
<b>Employees</b>	92
<b>Trainee</b>	Cast technologist, office Worker, Designing engineer
<b>Area</b>	10'000 m <sup>2</sup> manufacture
<b>Output</b>	ca. 4'400 tonnes output
<b>Organisation</b>	2-Shift, 3-Shift

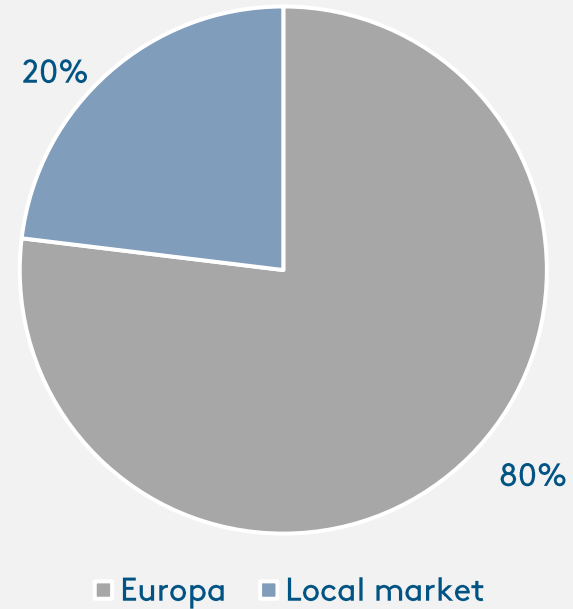
# FACTS AND FIGURES

**Turnover 2024: CHF 23.5 Mio.**

**Breakdown of turnover**



**Sales area**



# PROCESS

## Analysis

### Needs analysis

- Feasibility studies
- Material evaluations
- Rough cost analyses
- Risk analyses

## Development

### Materials technology

- Basic research of materials
- Processing of secondary alloys (standard)
- Processing of primary alloys (standard plus)
- Processing of primary alloys (high-end)

### Engineering and laboratory

- Material and component analyses
- Component development
- Process development
- FEM calculations
- Microscopy
- X-ray/CT analyses
- Spectral analyses
- Hardness testing
- Tensile testing
- Filling and solidification simulations
- Construction of die casting tools
- Prototyping
- Sampling

## Production

### Casting

- Furnace technology (> own decentralised melting concept)
- Aluminium die casting (clamping force of 400 to 2,200 tonnes)
- Vacuum technology
- Jet cooling
- Squeeze pins
- Data matrix code for the traceability of components

# PROCESS

## Nachbearbeitung

### Heat treatment and joining technology

- Heat treatment (T4 to T6)
- Friction stir welding
- Adhesive bonding

### Mechanical processing

- Deburring
- CNC milling
- CNC turning
- Washing processes without and with residual dirt requirements
- Leakage tests

### Surface technology

- Functional coatings
- Decorative coatings

### Assembly

- Assembly of modules

# DIE CASTING MACHINES

## Number of Systems

1  
4  
1  
1  
1

## Clamping force in tonnes

530  
800  
1'200  
1'800  
2'200



# CUSTOMER



Mercedes  
Benz



Roche  
Diagnostics



Jetter  
automation



BRUSA  
HyPOWER

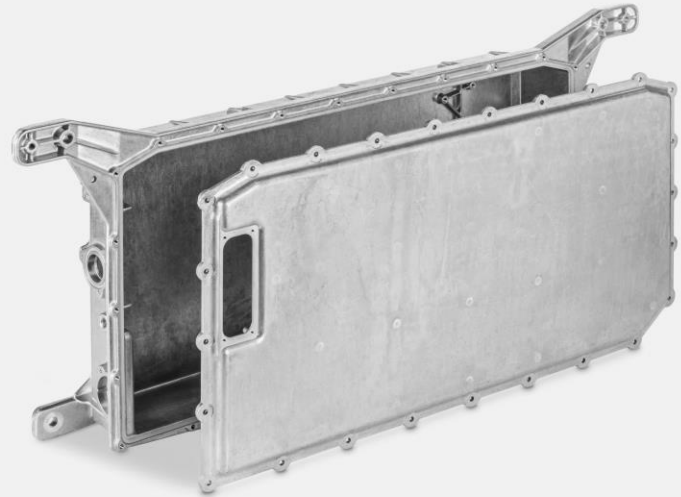


BERNINA<sup>+</sup>  
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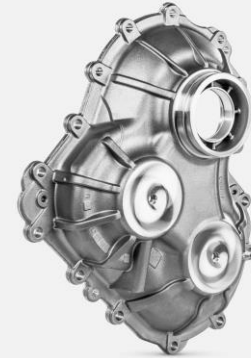
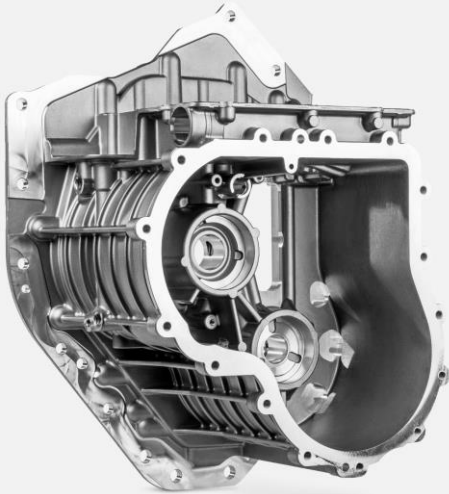




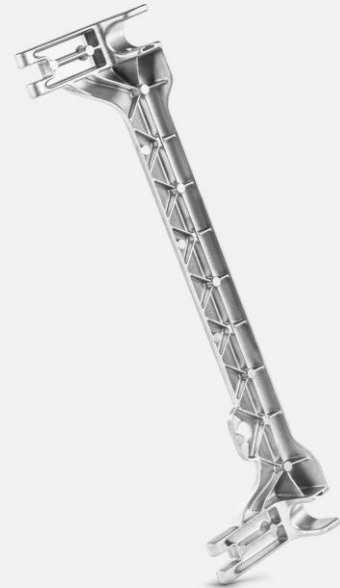
# PRODUCTS: AUTOMOTIVE



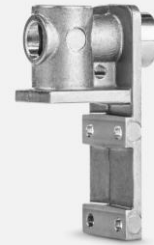
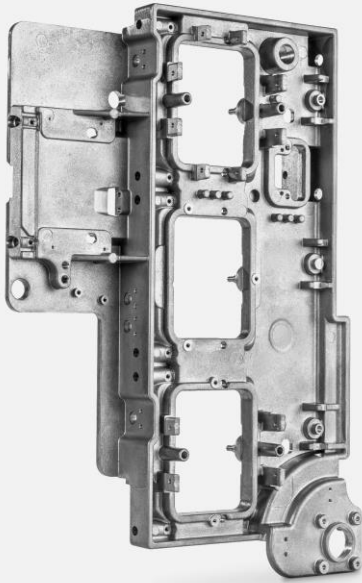
# PRODUCTS: MARITIME



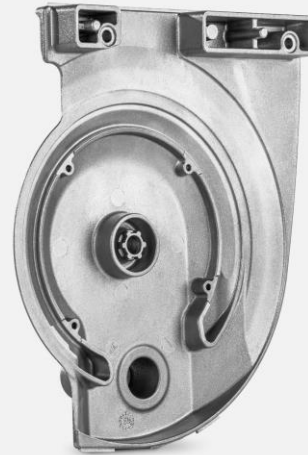
# PRODUCTS: INDUSTRY



# PRODUCTS: MEDTECH



# PRODUCTS: HOUSEHOLD





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**THANK YOU FOR YOUR ATTENTION.**

**ALUWAG**