



# **COMPANY PRESENTATION**

**Version: September 2023** 

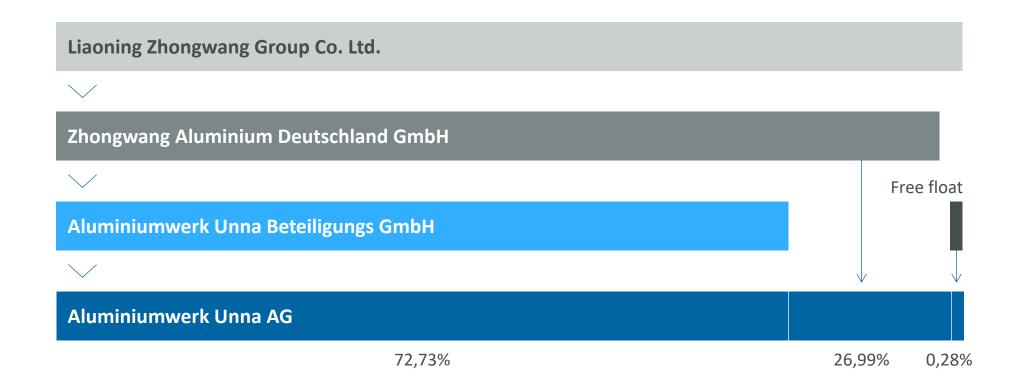
## **AGENDA**

- I. The company
- II. Products & markets
- III. Key figures and sales
- IV. Plant tour





## **SHARE HOLDER STRUCTURE**





## **ALUMINIUMWERK UNNA AKTIENGESELLSCHAFT**

**1914** 

440

founded

employees

1,075,000

60%

square feet (approx. 25 acres)

under roof

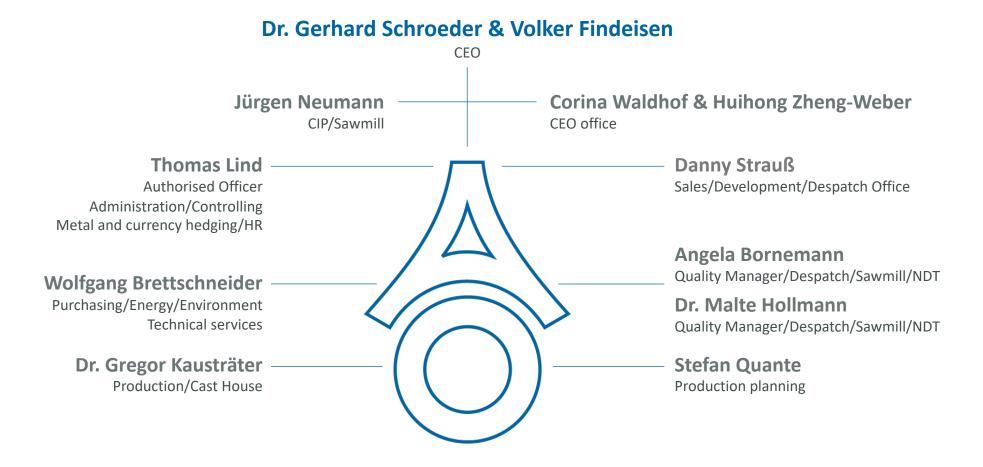
### **Fully integrated:**

- Cast house
- Extrusion plant
- Drawing plant
- Heat treatment
- Straightening
- Cut to length shop





## **ORGANISATION LEADERSHIP**







## **PRODUCTS**

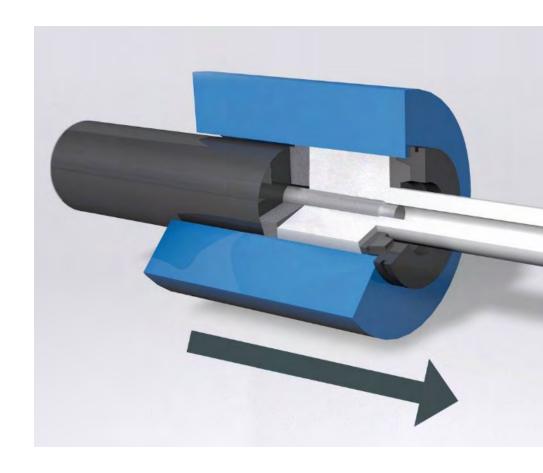
#### **Seamless extruded tubes**

- Extruded
- Extruded and drawn
- 4 mm to 300 mm OD
- All alloys

#### Porthole extruded tubes

- Extruded
- Extruded and drawn
- 4 mm to 355 mm OD
- Alloy 6xxx, 3xxx, 1xxx

### **Profiles and bars for special applications**





## **INDUSTRIES AND MARKETS**

### Aerospace/Defense

- Tubing for liquids or air
  - Air condition tubing
  - Hydraulic tubing
  - Fuel lines
- Mechanical application
  - Mechanical control rods
  - Landing skids for helicopters
  - Seats
  - Struts
- Rocket components
- Ammunition housings





## **INDUSTRIES AND MARKETS**

## Mechanical and process engineering

- Roller tubes
- Textile industry
- Air cylinder tubing
- Casings for hydraulic pumps
- **Ferrules**
- Heat exchanger components
- Air separation plant
- Connectors
- Waterways for fire ladders
- Masts for mobile lighting





## **INDUSTRIES AND MARKETS**

#### **Automotive**

- Casing for stators
- Driveshafts
- Anti-vibration bushings
- Air springs

### **Electrical industry**

- Heavy duty switches
- Busbars
- Copier drums
- Antennas
- Consumer electronics

#### **Bicycle or motorcycle**

- Shock absorber
- Handle Bars

#### **Others**

- Orthopedic technology
- Targets for Sputtering



Source: KTM homepage, Media Library, Mitterbauer H.





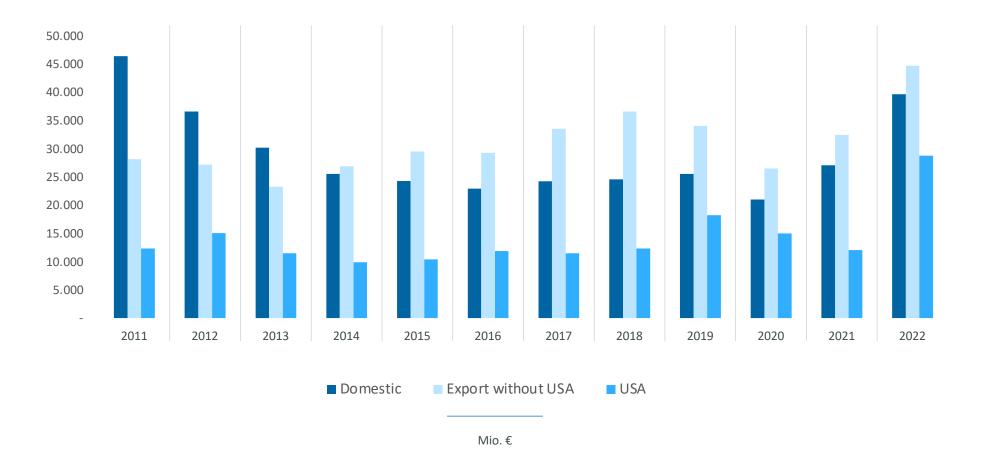
# **KEY FIGURES**

		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Production	t	13.569	11.414	9.613	9.535	9.559	9.185	10.137	10.303	10.824	8.084	11.223	11.387
Sales	T€	86.850	78.792	64.937	62.274	64.176	64.059	69.247	73.454	84.322	62.464	71.508	113.115
Profit	T€	6.335	6.409	3.681	1.429	1.059	81	1.418	-1.150	2.334	-729	-1.216	4.200
Expenditure	T€	3.833	8.577	3.676	3.544	1.381	938	1.420	3.618	2.019	8.485	4.907	2.527
Equity ratio	%	42,60	50,09	53,03	52,17	56,41	57,01	65,03	65,48	66,84	69,30	54,54	54,08



# **SALES IN REGIONAL MARKETS (2011-2022)**

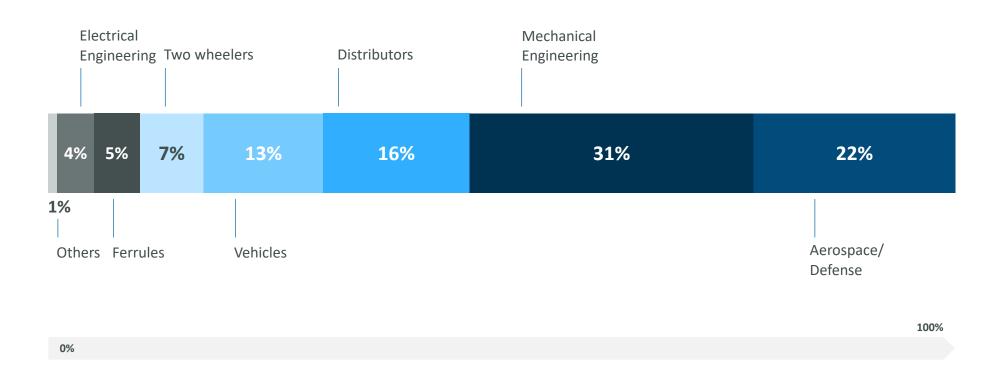
(2022 – preliminary numbers)





## **SALES BUSINESS SECTORS 2022**

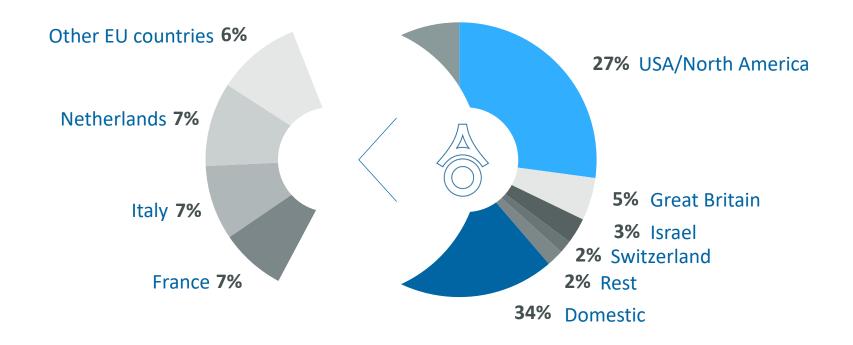
(preliminary numbers)





## **SALES COUNTRIES 2022**

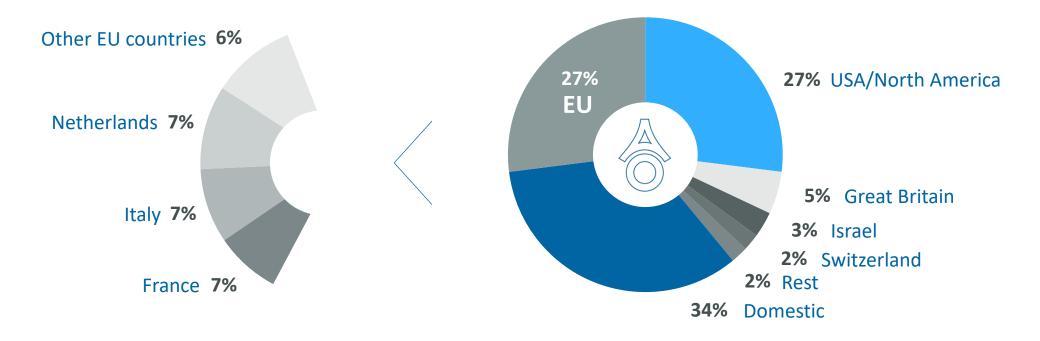
(preliminary numbers)





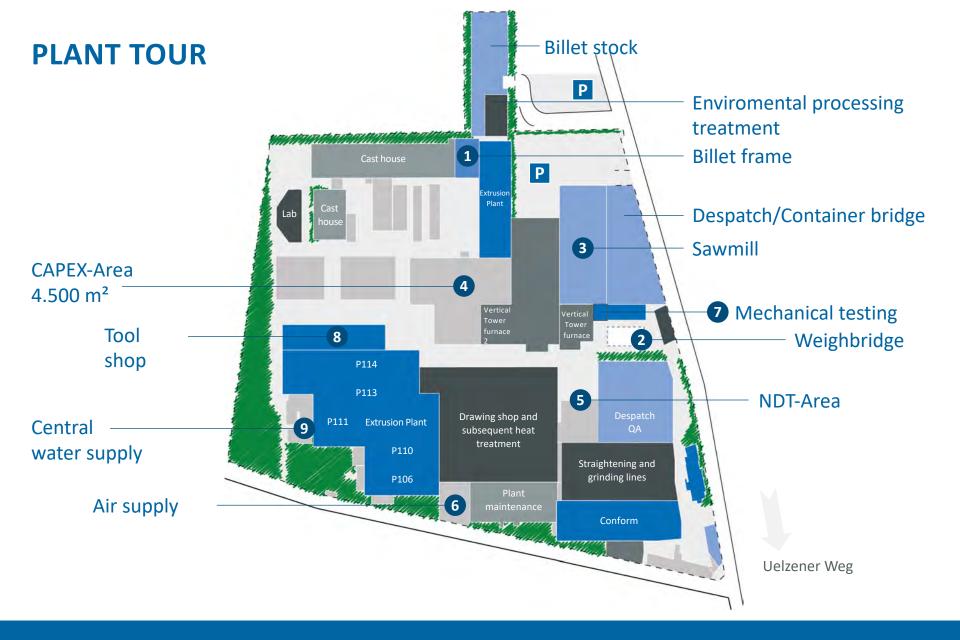
## **SALES COUNTRIES 2022**

(preliminary numbers)











#### **Cast house**

- Two 12 t smelters
- Two 6 t smelters
- SNIF filter system and ceramic foam filter
- 16.600 t annual production

### Homogenization

Two batch furnaces of 30 t each





### **Extrusion presses with piercer**

9 MN indirect 145 mm (P113)

200 mm/250 mm(P110) 25 MN direct

35 MN direct/ 250 mm (P114)

40 MN indirect

50 MN direct 360 mm/410 mm (P111)

Container diameter

### **Extrusion press without piercer**

18 MN direct

200 mm (P108)





### **Subsequent | Processing**

- 60 t tube draw bench
- 30 t tube draw bench
- 10 t double tube draw
- Chain drawing bench
- 4 t double tube draw bench
- 4 straighteners
- 2 degreasing equipments
- 2 polishing lines
- Honing machine





#### **Heat treatment**

- Annealing and artificial ageing of up to 22 m long material
- Solution heat treatment with subsequent water quench
- Vertical tower furnace for material up to 13 m length





#### Conform

- Conform-Extrusion press (10 MN)
- Schumag-Continuous drawing bench
- Circumscribing circle diameter from 5 mm to 30 mm for solid and hollow profiles





## **Cut to length shop**

- 6 semi-automatic cutting machines
- Deburring with brushes
- Automatic TIR measurement





# **TESTING EQUIPMENT**

## **Laboratory & Metallurgy**

- Optical microscope
- Scanning electron microscope
- Microanalysis
- Spectroscopy
- Macro etching
- 3D optical microscope
- DSC analysis





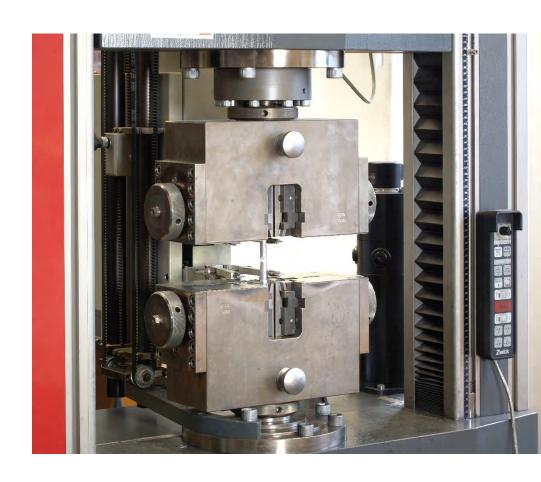
# **TESTING EQUIPMENT**

### **Testing equipment**

- Automatic tensile testing machine
- Different hardness testing

#### Non destructive testing (NDT):

- Ultrasonic inspection
- Eddy current inspection
- Electrical conductivity





#### **Aluminiumwerk Unna AG**

Uelzener Weg 36 D-59425 Unna

Telefon: +49 2303 206-0

info@alunnatubes.com



#### **ALUnna Tubes USA Inc.**

3033 S. Parker Road, Suite 630 Aurora, CO 80014, USA

Phone: +1 303 755 567 2

david.taylor@alunnatubes.com

