



**NEUMAN**  
ALUMINIUM

13

**Al**

**ways  
in our element.**



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Part of CAG Holding

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**NEUMAN**  
ALUMINIUM



# Part of CAG Holding

Group of companies owned by Dr. Cornelius Grupp

**NEUMAN**  
ALUMINIUM

CAG  
HOLDING GmbH



*„We are committed to sustainable, dynamic growth and value creation over generations“*

Dr. Cornelius Grupp

# Neuman Aluminium Facts and Figures

**NEUMAN**  
ALUMINIUM



**500 M€**  
TURNOVER



**~ 2.600**  
EMPLOYEES  
WORLDWIDE



**56 %**  
RECYCLING RATE



**FAMILY**  
OWNED



**13 PRODUCING**  
FACTORIES ON  
3 CONTINENTS



**SUSTAINABLE**  
PRODUCTION & GREEN  
ALUMINIUM

# Neuman Aluminium Technologies

**NEUMAN**  
ALUMINIUM

## 4 Business Units

### CASTING

#### Products & applications:

- Rods & billets for forging
- Slugs for tubes, aerosol cans, cold forging, impact extrusion

#### Industry:

- Automotive
- Packaging



### IMPACT EXTRUSION

#### Products & applications:

- Housings (heat sinks for e-mobility)
- Advanced driving assistant systems (parking sensors)
- Chassis & safety components

#### Industry:

- Automotive
- Electronics
- Consumer products



### DIRECT EXTRUSION

#### Products & applications:

- Extruded & machined components, sub-assembly
- MIG, FSW, laser tactile welding, washing and passivation

#### Industry:

- Automotive
- Transport
- Construction
- Mechanical engineering



### PROFILE PROCESSING & FORMING (PWG)

#### Products & applications:

#### → Roof systems:

- Guide rails
- Parts for convertible roof systems: tension bows, seal holder, bows with tight tolerances
- Structural parts
- Cross bars

#### Industry:

- 100 % Automotive



# Neuman Aluminium Technologies

**NEUMAN**  
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## 4 Business Units

### CASTING

2 locations (Austria, China)

~ 260 employees

60.000 t/yr. slugs

20.000 t/yr. horizontal casted products  
(billets, rods)

Patented alloys

100 % recycling of production scrap

ISO 9001, ISO 14001, ISO 45001, AEO,  
IATF 16949,



### IMPACT EXTRUSION

5 locations (Austria, Germany, USA,  
Slovakia, China)

~ 750 employees

In-house development & tool shop

In-house machining & heat treatment

3D Simulation

2nd Tier supplier

ISO 9001, ISO 14001, ISO 45001,  
IATF 16949



### DIRECT EXTRUSION

2 locations (Austria, Slovakia)

~ 700 employees

Three 2,500 t extrusion presses  
(8 inch)

In-house machining, processing &  
assembly

1st / 2nd Tier Supplier

ISO 9001, ISO 14001, ISO 45001,  
IATF 16949, AEO, EN 15088



### PROFILE PROCESSING & FORMING (PWG)

4 locations (Germany, China, Slovakia,  
Mexico)

~ 950 employees

In-house development, tool shop &  
machine building

Fully-automated production lines

ISO 9001, ISO 14001, ISO 50001, ISO  
45001, IATF 16949



# Global footprint & local manufacturing

**NEUMAN**  
ALUMINIUM

13 manufacturing plants at 8 locations on 3 continents.

*We are present to  
serve our customers  
right where they are.*



# Neuman Aluminium Solutions

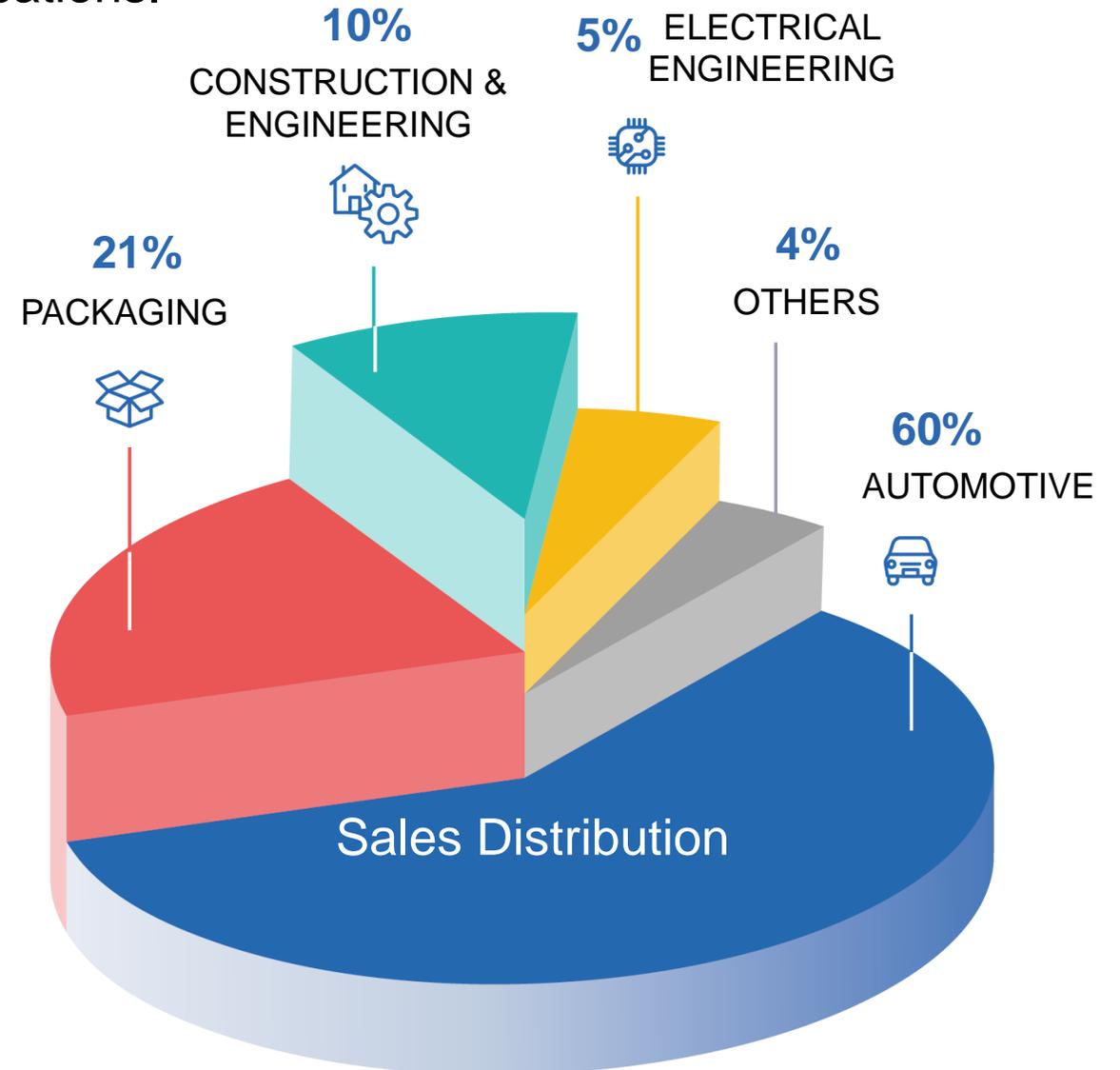
**NEUMAN**  
ALUMINIUM

Innovative aluminium solutions for a range of applications.

→ From cans to automobile components and facades, we develop, engineer and produce premium products and solutions in partnership with our customers.

*“Without our products, there would be no BMW iX driving on the roads, no VW Passat parking by itself, and the sausages without tarragon mustard would not taste good either.”*

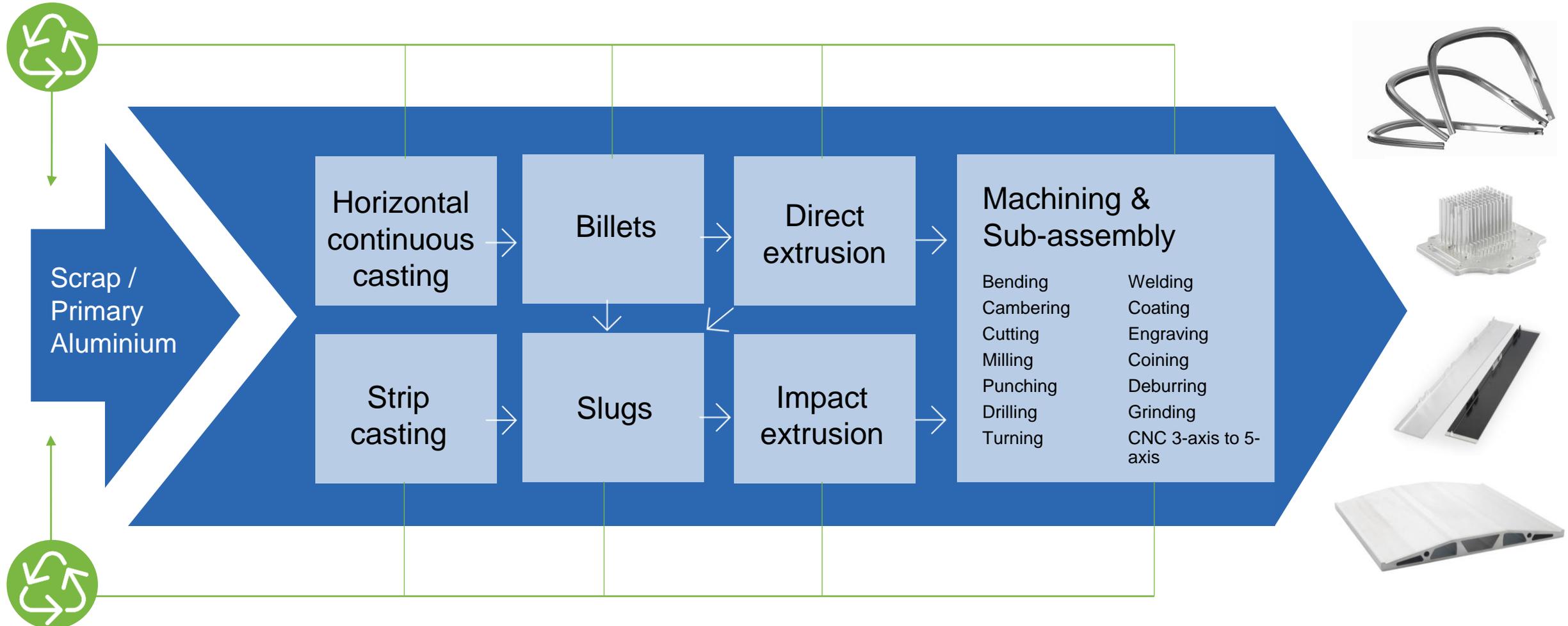
Dr. Cornelius Grupp



# Horizontal and Vertical Integration

Developmental expertise and control of production covering the whole value chain.

**NEUMAN**  
ALUMINIUM



# Sustainability

Our success is deeply rooted in our commitment to nature and society.

**NEUMAN**  
ALUMINIUM

## Environmental Responsibility

- Expansion of hydropower & photovoltaic plants
- Pushing circular economy & recycling
- Energy monitoring system
- Increases in energy efficiency
- Locations close to customers allow for short transport routes
- Patented alloys that allow for reduced material use

## Social Responsibility

- Occupational health and safety
- Health, sports and leisure programs
- Events and activities to promote corporate culture
- Development of local infrastructure

## Read our sustainability report:

- [Sustainability report 2020](#)



*We are committed to reducing our CO<sub>2</sub> footprint and having a positive impact on society and the global ecosystem.*

# Research & Development

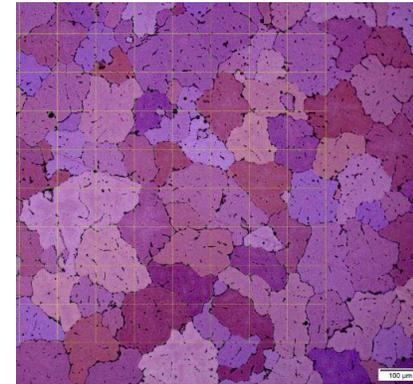
We are breaking new grounds to increase customer value.

- Material & Process development
- Alloy design, microstructure development, tooling, coatings, simulation, etc.
  - New technologies
  - Reduction of material use & energy
  - Integration of digitalization & Industry 4.0

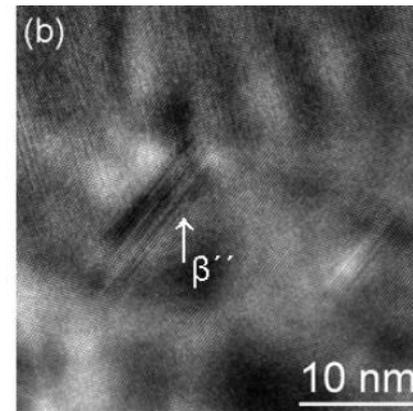
- Recycling processes
- Use of scrap material
  - Circular material flows

- 17\* patents across the entire value chain  
(\* including pending patents)

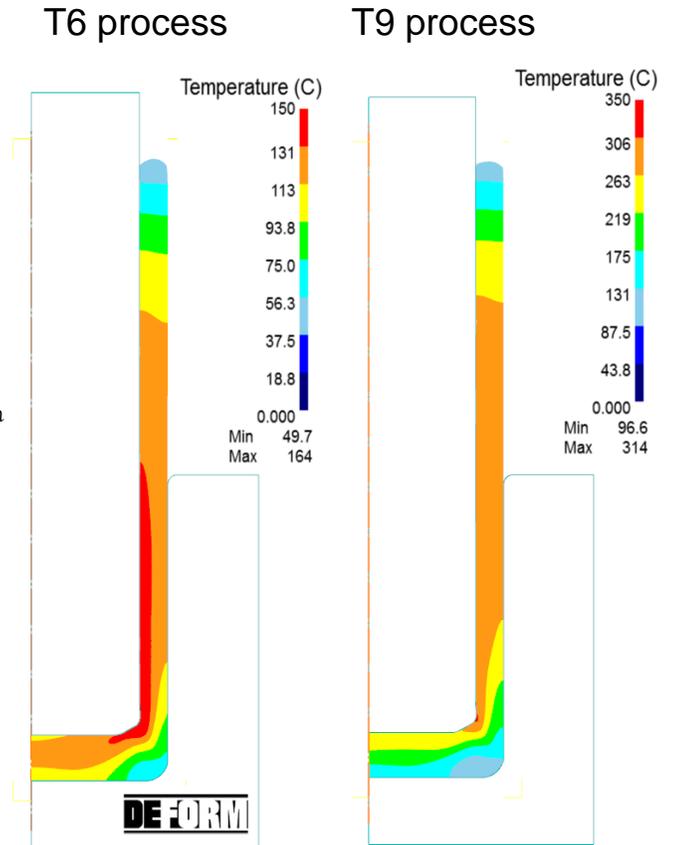
- ~10 active projects with leading universities in the field, research centers, company partners



Grain size analysis after casting & homogenization



Hardening phase of 6xxx alloys in T6 condition



Simulation of temperature gradients in different state of materials

# DIRECT EXTRUSION

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DIRECT EXTRUSION



# Facts and Figures

**NEUMAN**  
**ALUMINIUM**  
DIRECT EXTRUSION

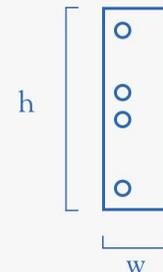
Machining, processing  
& assembly

Automated welding  
(MIG, FSW, laser welding)

**2.800** t max. press force



more than 13 alloys



**~30.000** to/year of direct extruded profiles



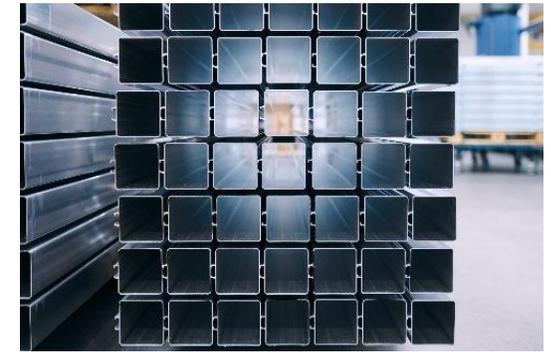
more than 6.000 profile cross-sections active

Profile width up to 220 mm

Profile length up to 7,50 m

# Direct Extrusion

## Process



### Heating & Trimming →

The raw material is heated and trimmed to required length.

#### Alloys:

- 6060
- 6063
- 6005A
- 6082
- And more at request

### Extrusion →

Trimmed material is pressed through the extrusion die.

#### Pressing

- Min. weight 200 g/m
- Diameter available up to 220 mm

### Cooling & Sawing →

The extruded profiles are cooled down to ambient temperature. Afterwards the profiles are cut to length as specified by customer.

#### Sawing

Max. length: 7,5 m

### Heat treatment & Logistics

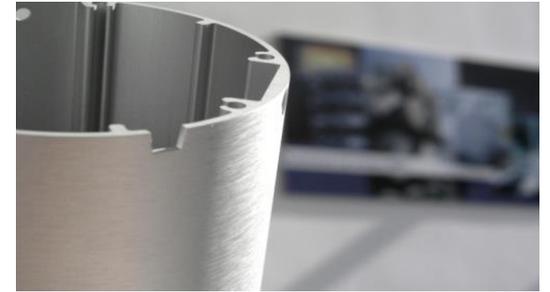
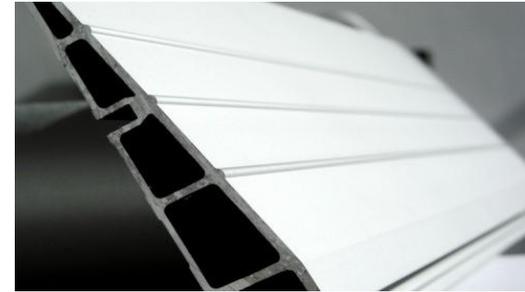
Individual heat treatment to reach the required mechanical properties.

Packaged as per customer requirements (e.g. one-way/returnable container).

Individual logistics

# Direct Extrusion

## Process



### Machining

- Customized machines
  - Rotary table
  - Transfer line
- Sawing
- Milling
- Drilling
- Turning



### Embossing

- Punching
- Bending
  - Curling
  - Mandrel bending
- Welding
  - WIG
  - MIG
  - FSW
  - Laser tactile



### Surface

- Anodizing
- Powder Coating
- Pickling
- Passivation
- Cathodic Dip Painting (CDP)



### Finish

- Cleaning
- Engraving
- Partial assembly
- Embossing
- Brush deburring
- Tumbling

# Direct Extrusion

Automotive industry

Extrusion with narrow tolerances



Chassis components & E-mobility

Tie rods for battery



Pressure plates for battery



Automotive interior



Safety

Rear crash structure



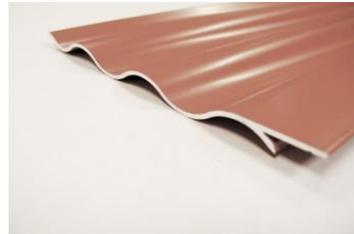
# Direct Extrusion

## Construction industry

Extrusion for windows



Extrusion for facades



Extrusion for flood protection



Extrusion for mechanical engineering



Lamp



Fixation



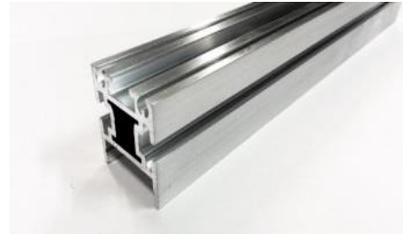
# Direct Extrusion

## Home and office

Table legs



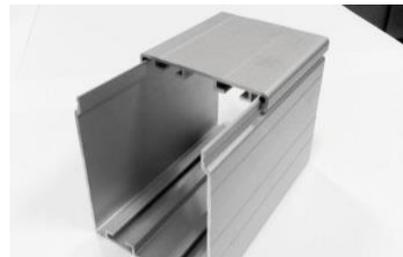
Partition panels



Door closers



Cable channels

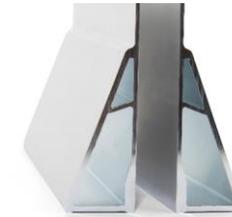


## Engineering and electronics

Mechanical engineering



Machine components



Guide rails



Control cabinets



<sup>13</sup> **Al** ways  
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Neuman Aluminium  
Corporate Film



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