

ALUDESIGN®

Aluminium Die Casting and Moulds Production

Visit our website:

www.aludesign.pl

Company Presentation

ver. 2023-05-26



Aludesign - a specialist in aluminum die-casting

One-stop-shop offer including:

- ✔ Project support
- ✔ Toolmaking
- ✔ Aluminum die-casting
- ✔ Finishing
- ✔ Assembly
- ✔ Logistics



About Us

Experience

Over 20 years of experience in die-cast aluminum

Employees

ca. **150** employees

Moulds

over **250** active moulds

Customers

over **40** active customers

Turnover

about **EUR 16 mln** in 2022

Export

95% of units exported, of which approx. **85%** to Germany



About Us

Production

Annual production over **1m units**

Aluminium volume

Annual production of almost **2k tons** of melted aluminium

Moulds

Ca. **20** units manufactured annually

Investments

Over **EUR 6m** invested in last few years

Area

Total area of approx. **38 300 m²**

Factory

Production space of almost **6.5k m²** office space of almost **2k m²**



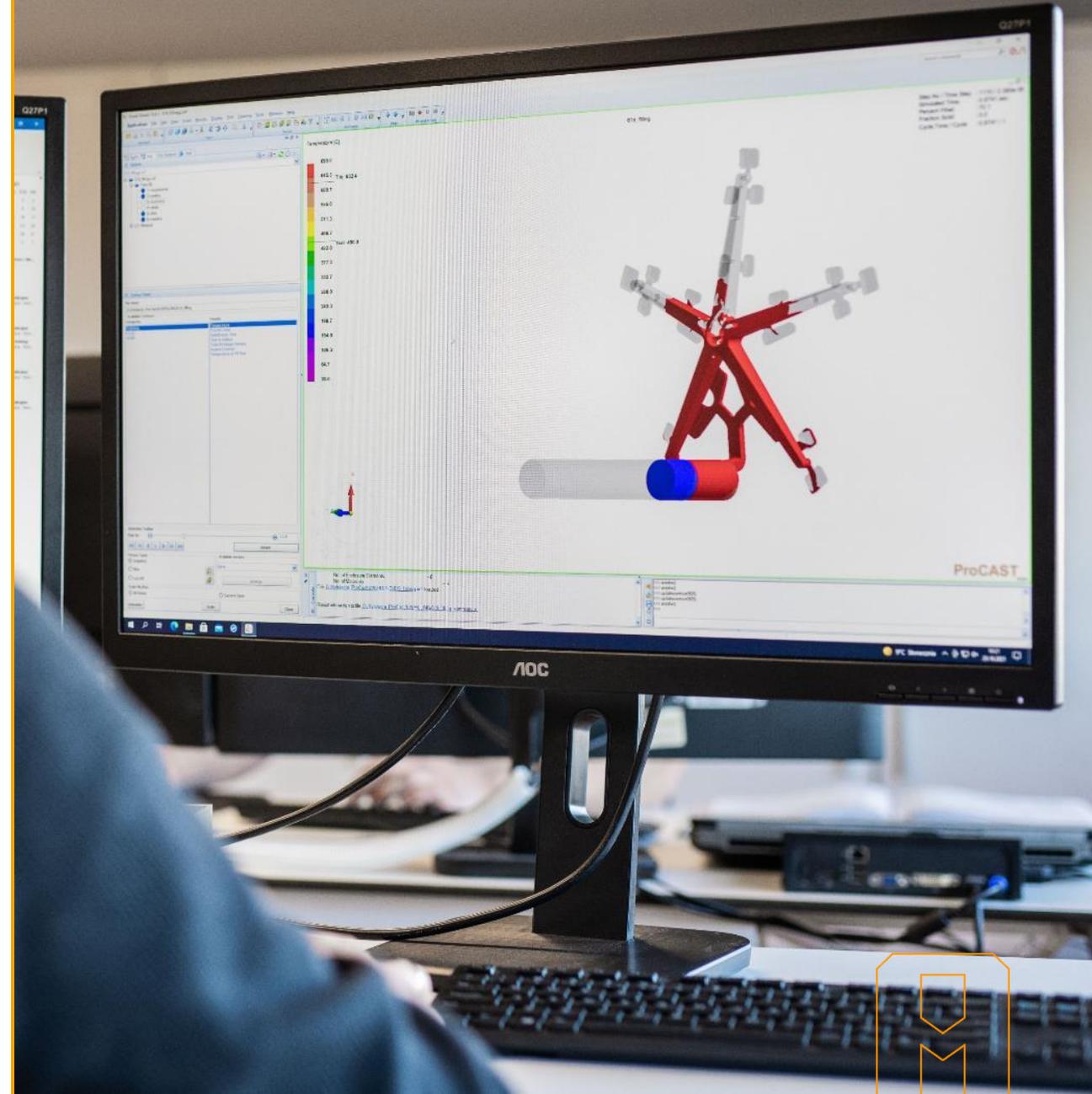


Design & Development



Mould design and development

- Project development from design to series production
- Latest Siemens NX software utilized
- Modeling based on CAM 2 measurement of an existing element
- Design and manufacturing of mould construction
- Adaptation of moulds produced externally
- ProCast casting simulation





Toolmaking



Modern machine park

- EDM machine with graphite and copper electrodes
- Wire EDM machine
- Specialistic electrode milling machine





Toolmaking



Modern machine park

- Gantry drilling and milling center
VEMAZ VZP2021-3A
- Specialized grinders for rollers and surfaces
- Ink presses for specialized mould fitting



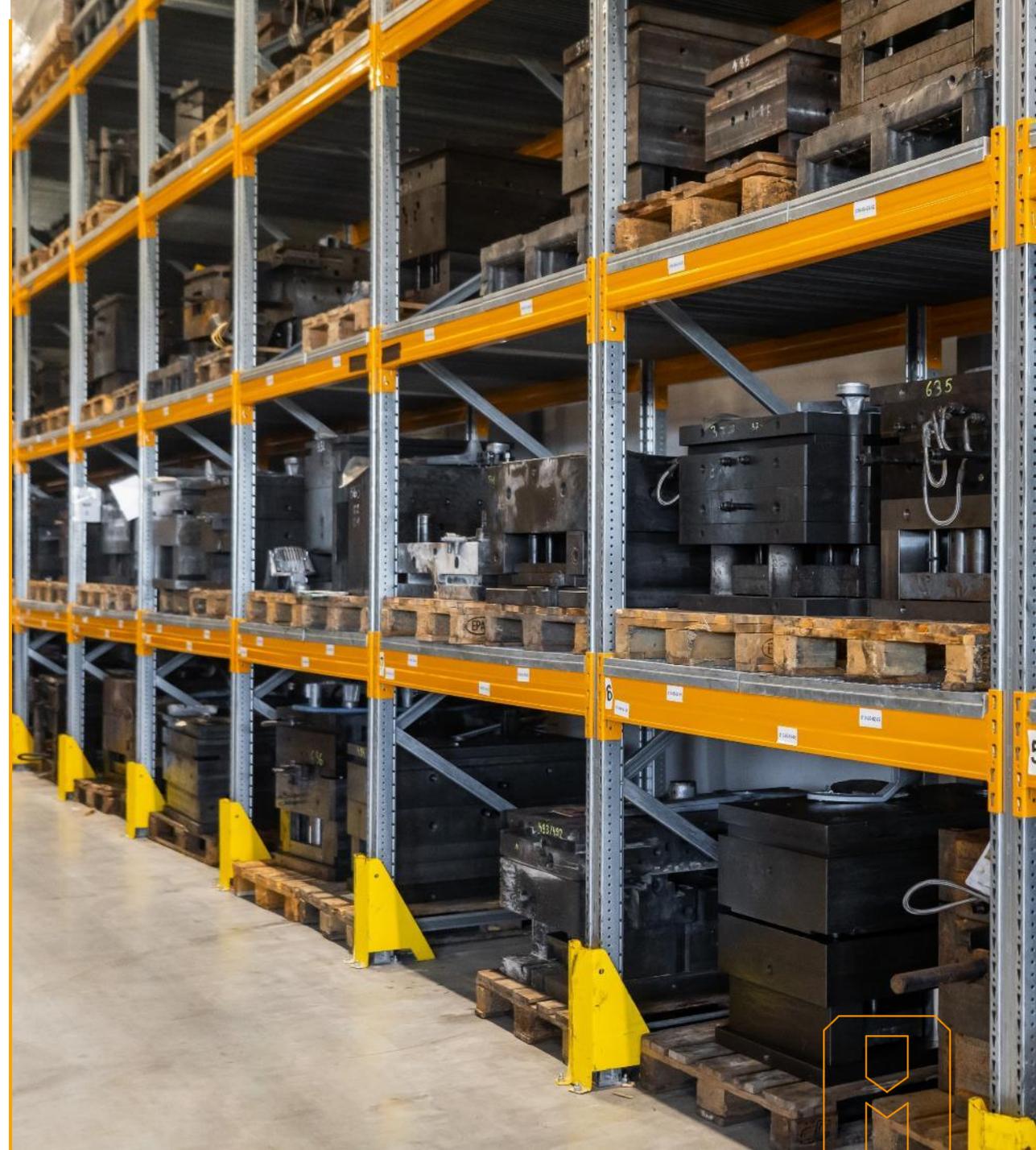


Moulds



Availability of moulds

- Broad portfolio of over 400 moulds
- Over 250 moulds in current use
- Over 20 years of know-how in toolmaking
- The majority of moulds manufactured in-house
- Moulds adapted to the machine park



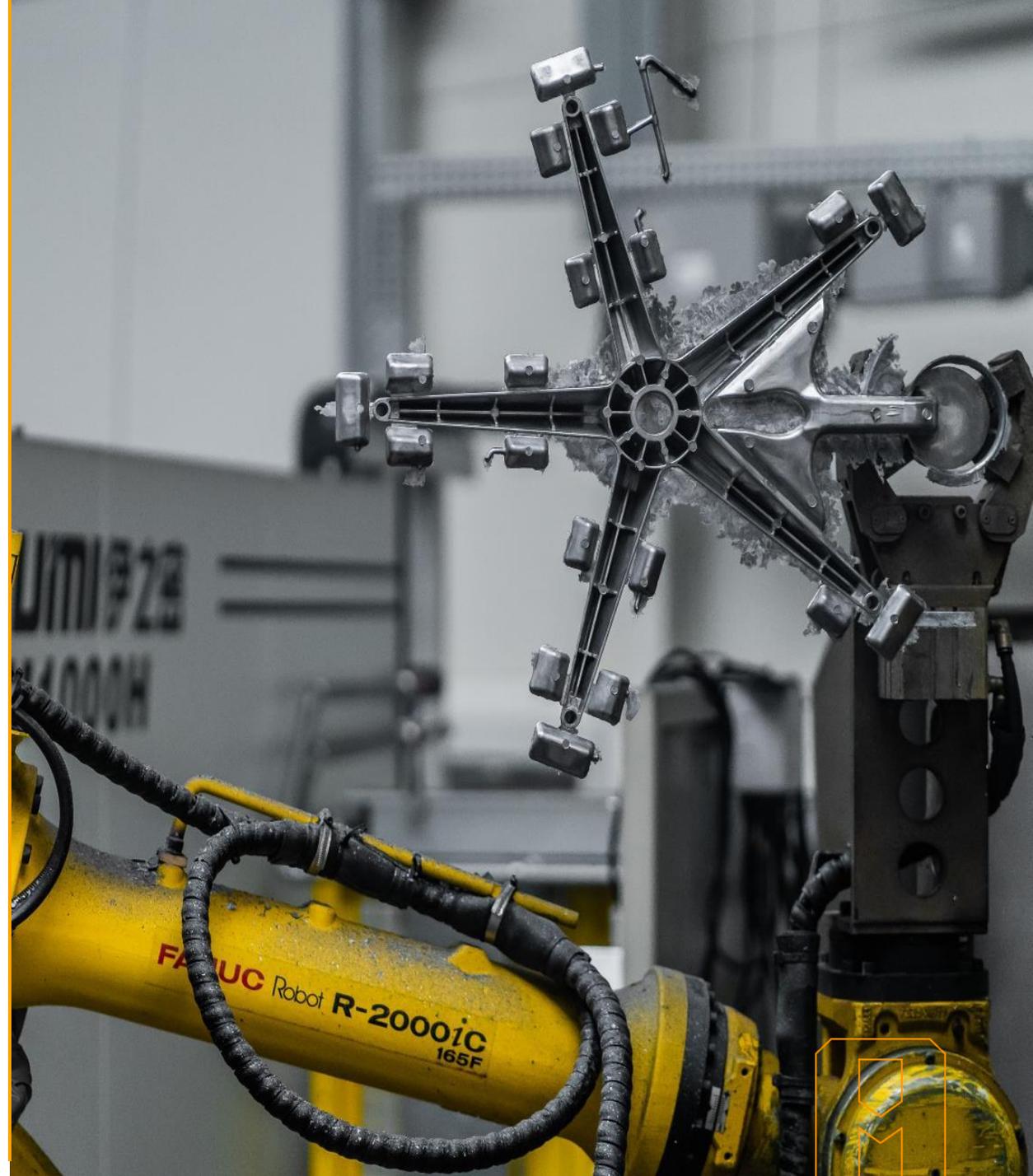


Foundry



13 Casting machines

- Elements ranging 0,5 kg to 25 kg
- Clamping force: from 400t to 1.650t
- Serial production from 500 to 120 k units per year





Foundry

✓ 13 Casting machines

- Automatic ladle
- Investments conducted in robotization and automation
- Energy-efficient shaft furnaces
- Automatic weight measurement system
- Automated sprinkles system





Latest investment - YIZUMI DM 1650H



Start-up of casting a new **energy-efficient** YIZUMI DM 1650H automatic casting machine.

- The largest machine with a **clamping force of 1650 t.**
- Casting from a mould measuring 1184x1184mm.
- Production range of parts from 5 kg **to 25 kg**
- new method of **cutting parts by impact**





Processing & Finishing

- ✓ Modern multi-axis CNC machining centres by Fanuc and Doosan
- ✓ Commissioning of new CNC machine - 4-axis Omnitec





Processing & Finishing



Fully robotic grinding cells equipped with robots by Fanuc

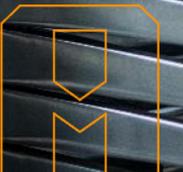




Processing & Finishing



Fully automated process of polishing and grinding





Surfaces

Surface coating of almost any kind:

- Raw
- Prepared for powder coating shot blasted, grinded, other
- Powder coated
- Polished
- Chromed
- Xylan





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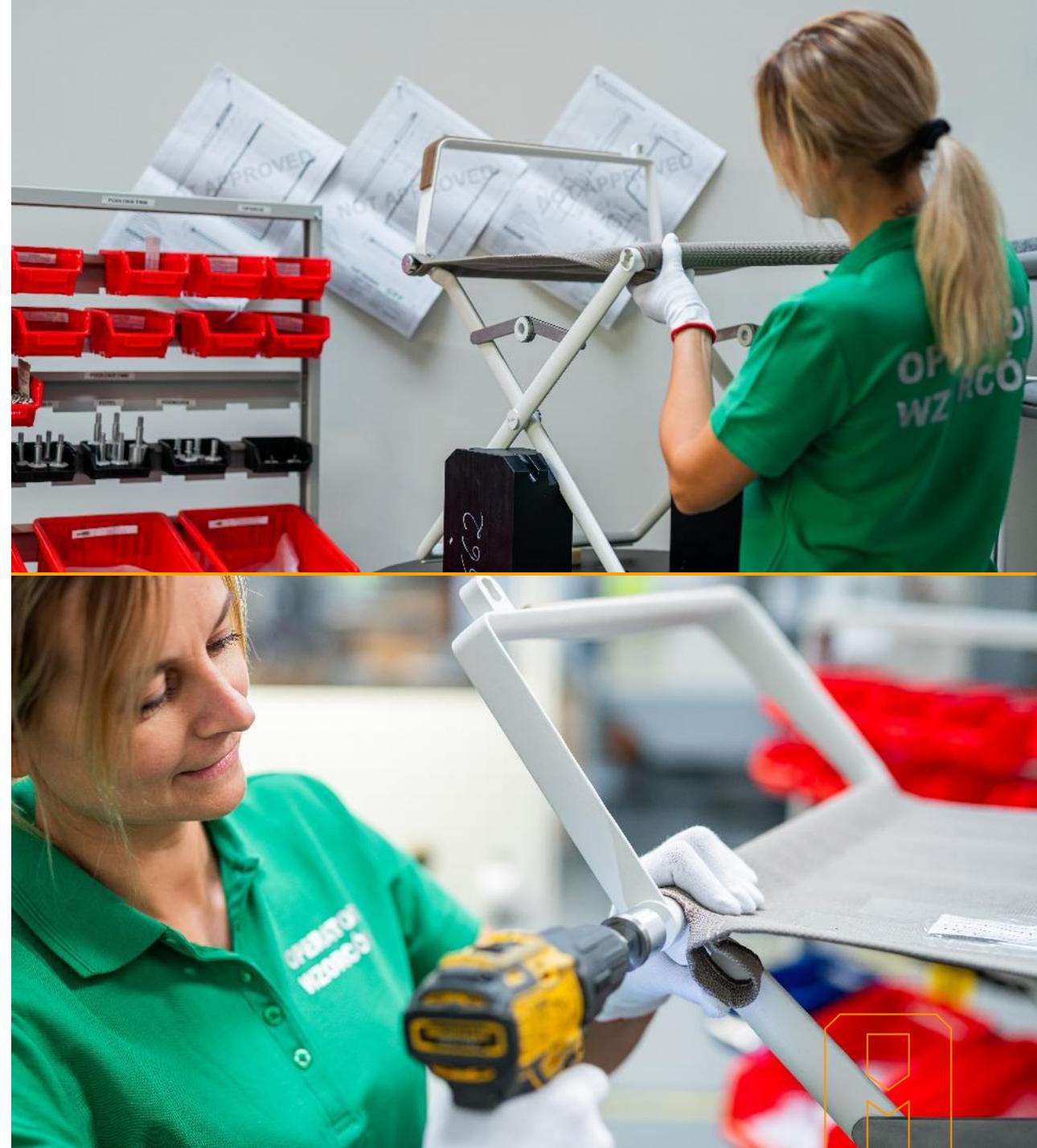
Assembly



Typically we perform preliminary **assembly** of the elements produced



We also offer comprehensive **one-stop-shop assembly** services, delivering ready to use final products to clients (full vertical integration of production processes)





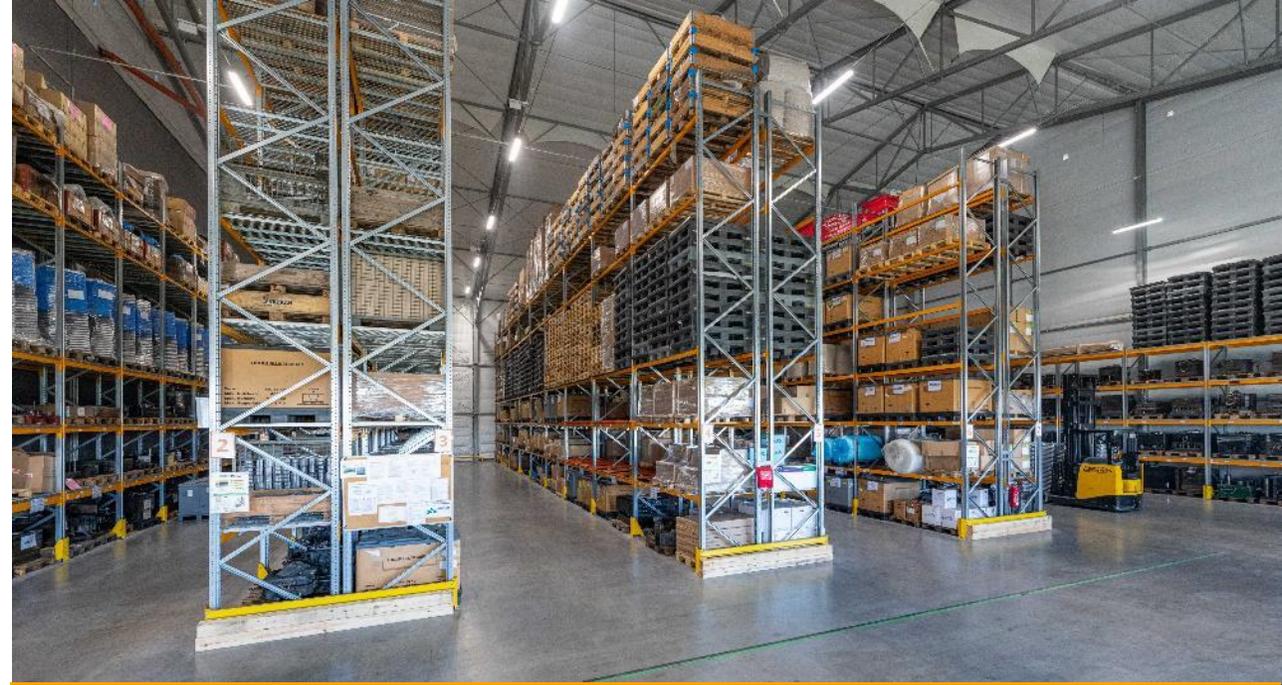
Logistics

✓ Europe-wide logistics footprint

✓ Meeting customers' transport expectations

- KTP-Boxes
- Wire mesh boxes
- Palette / cardboard
- Foot stand

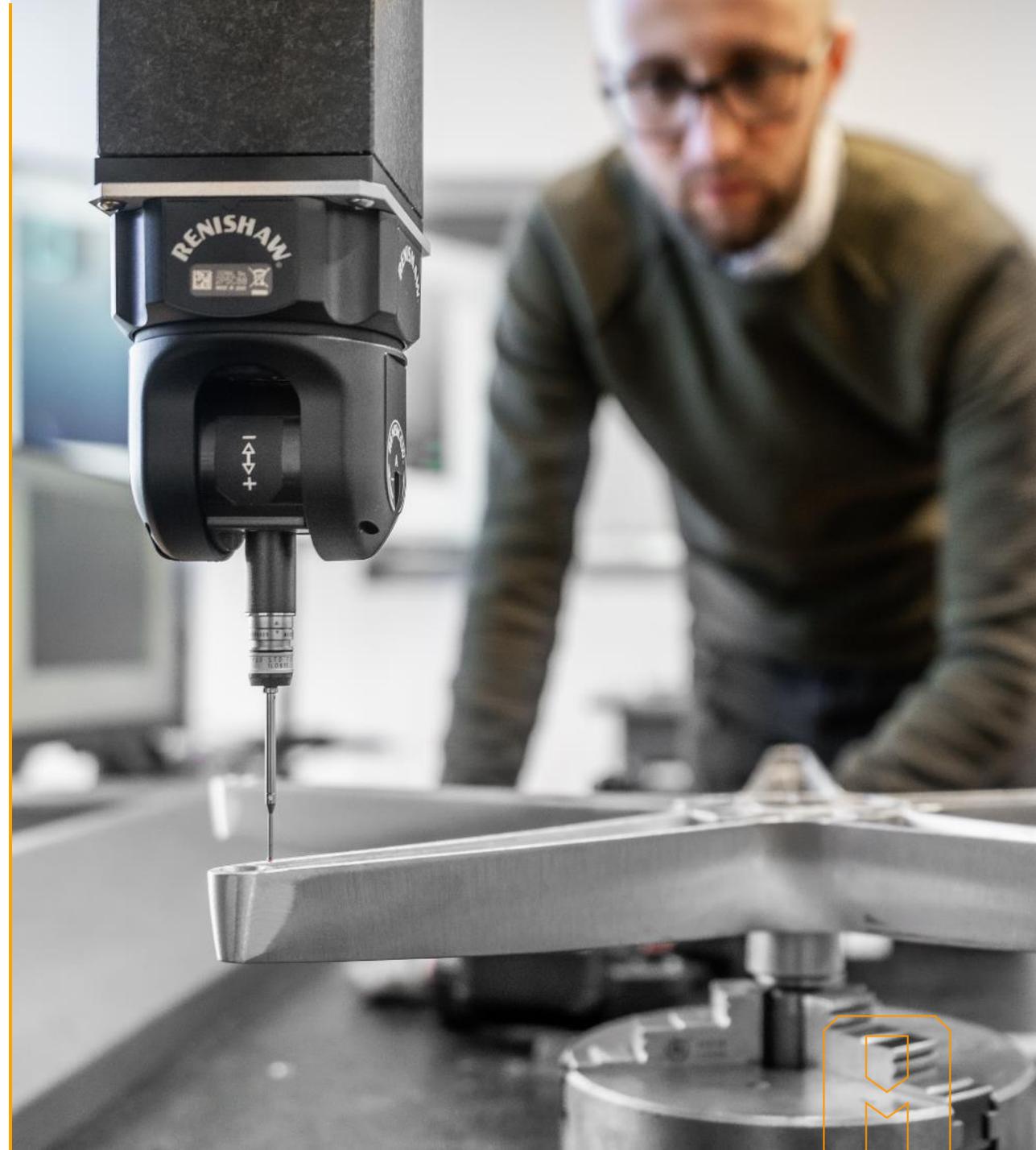
✓ Reusable packaging



Quality

☑ Equipment ensuring top-notch quality

- TRIMEK SPARK – coordinate measuring machine
- FLIIR – thermal imaging camera - moulds heating loads control
- Material resistance measuring machine
- Alloy density value checking device



Quality

☑ Equipment ensuring top-notch quality

- Paint layer thickness measuring device
- Device for Surface gloss measurement
- Device for roughness measurement
- Microscope for examination of the surface structure
- FARO EDGE – measuring arm with scanning head



Customers - Office Furniture

Nowy Styl Group

Wilkhahn



bene

V/S

FRITZ HANSEN



backapp

sedus

HAWORTH®

DEDON

WALTER KNOLL

WINI



Customers - Medical, Automotive, Lighting, Electro mobility, Rail industry

**HAMILTON
MEDICAL**
Intelligent Ventilation since 1983

IKA
designed for scientists

HEWI

 **GLAMOX**


BENTLEY


ROLLS
ROYCE

INOTEC
Sicherheitstechnik GmbH

TORQUEEDO


STER



Environment and sustainable development

☑ Actions

- Change of melting furnances from oil to natural gas
- Modernization of preheating furnaces from electric spiral heater heating to heating panels - **40%** energy savings
- **100%** distillation of industrial wastewater, water after distillation is used for further technological processes
- **Filtration of hydraulic oils:** oil after filtration is reused for foundry machines

☑ Actions

Quality, working conditions and safety are of highest importance for Aludesign, all of which is reflected in the integrated management system:



Energy saving – our track record

☑ Investments conducted

- modern **LED lighting**
- **use of waste heat from machinery** (compressors, generators) to heat the production hall and warehouse
- **restructuring** the compressed air system
- **control and adjustment of machine energy** consumption according to production needs

☑ Energy saving habits

- covering of **preheating ovens**
- reasonable use of air-conditioning
- **cloud storage of documents**



Energy saving – investment plan

☑ Development of an on-premise PV farm

- Development of a **photovoltaic farm** with an area of 1 ha and a capacity of ca. 1 MW
- PV farm will cover **15%** of our **energy requirements**
- Investment will be completed **in 2024**



Energy saving – investment plan

☑ Diversifying the power source of melting furnaces:

- The Company has modified its furnaces so they can run either **on oil or on gas** (natural gas and LPG)
- This shall enable **energy savings** and **increased operational flexibility**



Our facilities



Our locations

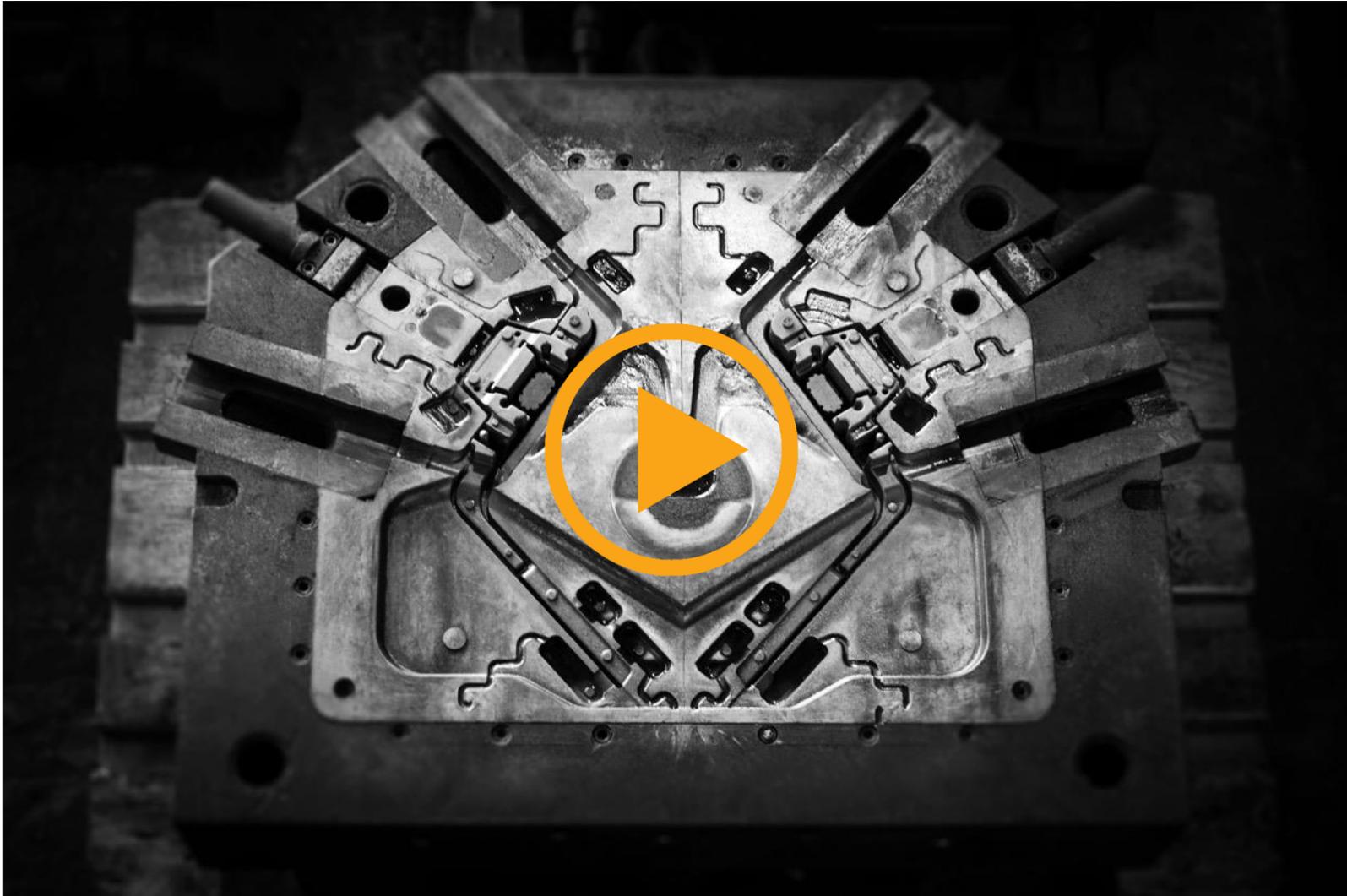
- **Gorzów Śląski**
 - Design, foundry, toolmaking and production
- **Opole**
 - Remote Office
- **Warszawa**
 - Remote Office



Strategy



Movie



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