APPLICATIONS · INDUSTRIAL SECTORS

Aluminum castings for industrial sectors

Aluminum castings for applications in six sectors: defense, railways, power grids, renewable energy, medical and aviation. We cast using permanent molds, sand molds and high-pressure die casting, and we also supply the part after CNC machining and powder coating.

6 sectors
from defense to aviation

3 technologies
permanent mold, sand and high-pressure die casting

7 CNC machines
3- and 5-axis centers, automatic lathes

ISO 9001 · 14001
TÜV Rheinland Polska certificates

01 · What we cast for each sector

Sector	Sample parts	Casting technologies	Machining and finishing
Defense	vehicle suspension and drivetrain components, communication system and equipment components	permanent mold, sand	CNC machining, powder coating
Rail	brake and drive system components, catenary brackets and mounting elements, control system housings	high-pressure, sand, permanent mold	CNC machining
Power grids	components of high-voltage equipment, switchgear and substations, housings and apparatus parts	high-pressure, permanent mold, sand	powder coating
Renewable energy	generator housings and bodies, turbine mounting system components, photovoltaic installation parts	sand, permanent mold	CNC machining, powder coating
Medical	components of diagnostic, rehabilitation and physiotherapy equipment, frames, prototypes	permanent mold, sand	grinding, polishing
Aerospace	housings and structural components, navigation and communication system components	permanent mold, sand	3- and 5-axis CNC machining

We produce all castings from aluminum alloys according to PN-EN 1706. The table lists the technologies most often mentioned in the sector descriptions – any of them can be applied in any industry.

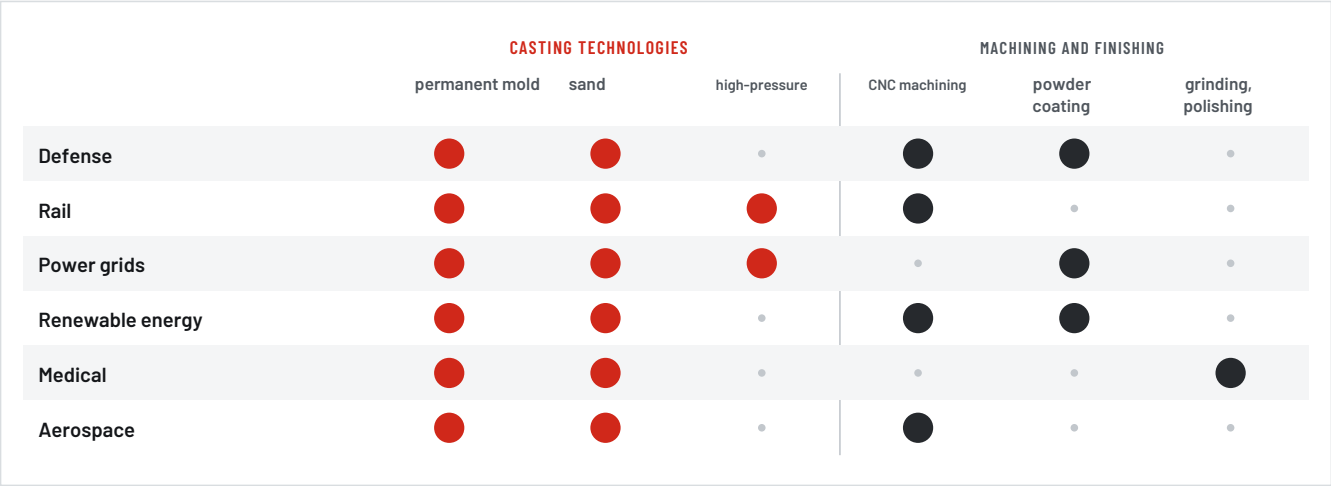

Fig. 1. Technologies and finishing most commonly used in individual sectors.

02 · One standard for every industry

Area	Standard
Casting technologies	permanent mold, sand and high-pressure casting – all for aluminum alloys; we select the technology based on the drawing and quantity
Patterns and molds	wooden, resin and steel patterns, permanent molds and die casting dies – designed in CAD/CAM, prototypes also 3D printed
Machining and finishing	seven CNC machines, grinding, polishing, galvanic coatings and powder coating in RAL colors
Quality and documents	ISO 9001:2015 and ISO 14001:2015 (TÜV Rheinland Polska); castings supplied with a drawing and technical acceptance conditions, strength testing on request

03 · Other industries and markets

Beyond the sectors described, we also produce castings for the automotive, machinery and construction industries – to the customer's drawing or model. We deliver castings to customers in Poland, Germany, Scandinavia and Southern Europe.

Your industry is not on the list? Send us a drawing – we will advise on the technology.

- 2D drawing in PDF or 3D model in STEP format
- material or alloy, quantity per batch and per year
- machining and coating requirements

We check feasibility, select the technology and alloy, and prepare the mold concept already at the quotation stage.

Contact and quotation

FOUNDRY
Mikołaj Kosicki
tel. +48 531 541 171
m.kosicki@adjatech.pl
permanent mold, sand and high-pressure die castings, patterns and molds

OFFICE · MON–FRI 8:30–16:30
Odlewnia Poznań
tel. +48 61 662 43 37
odlewnia@adjatech.pl
requests for quotation, orders and documents

MACHINING
Rafał Wojtkowiak
tel. +48 531 541 003
r.wojtkowiak@adjatech.pl
CNC milling and turning, machining of castings – series and one-off production

Plant and office: ul. Gnieźnieńska 26, Janikowo, 62-006 Kobylnica (near Poznań) · Registered office: ul. Piotra Ściegiennego 139, 60-304 Poznań

Information as of: October 2026. This document is for information purposes only and does not constitute an offer within the meaning of Art. 66 § 1 of the Polish Civil Code. Order details – material, tolerances, scope of testing, lead times and price – are specified in the quotation and the order; commercial matters are governed by the General Terms of Sale of Adjatech Metalworking Sp. z o.o.