

ALUMINIUM DIE-CASTING

ALUTECH DOOR SYSTEMS

Modern high-tech manufacturing enterprise specialized in production of sectional doors, aluminium die-casting parts and machining.



PRODUCT LINES USING ALUTECH DIE-CASTING PARTS



- Household appliances
- Sectional doors
- Roller shutter systems
- Power tools
- Pneumatic equipment
- Outdoor lighting systems etc.



ADVANTAGES OF ALUTECH PARTS



- Wide range of castings (weight varies from 0.05 up to 4.5 kg)
- Production of parts with complicated design
- High accuracy grade (in accordance with DIN 1688-4, GOST 26645 requirements)
- Production of thin-walled parts— from 1 mm



ALUTECH CUSTOMERS



ALUTECH parts are demanded by the largest global manufacturers of household appliances, power tools and pneumatic equipment and delivered to more than 65 countries of the world.



BOSCH

FESTO

Electrolux

ATLANT



PRODUCTION EQUIPMENT



Fully automated modern die-casting cells produced by the world leading manufacturers—Bühler (Switzerland), Italpresse, IDRA (Italy)—and equipped with:

- holding-melting furnaces,
- automated metal dosing units,
- moulds temperature control units,
- die spray units,
- extracting robots,
- cooling stations,
- trimming presses.



EQUIPMENT PARAMETERS



- Clamping force of die-casting cells: 340–840 tons
- Production capacity—up to 2,500 tons per year
- Productivity—up to 2,300,000 injections per year



ALUMINIUM ALLOYS



- EN AC 47100
- AlSi12Cu2
- AlSi13*

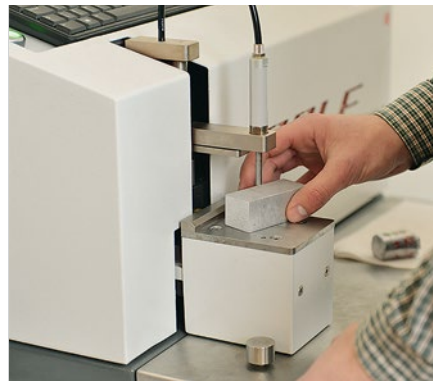
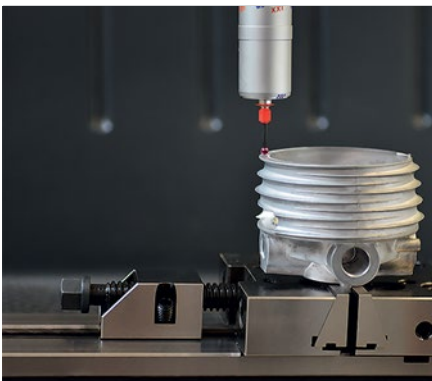
* Another type of aluminium alloy could be considered for use on Customer's request.



COMPLEX QUALITY CONTROL SYSTEM



- Control of alloy quality (spectral analysis, audits of suppliers production)
- Control of parts quality (3D measurements, X-ray analysis, control plan)
- Control of toolings maintenance quality (ultrasonic cleaning, thermal stress-release)
- Control of processes stability



ALUTECH operates a modern laboratory with high-tech measuring equipment to control the quality of alloys and casted parts:

- 3D measuring machine (Zeiss, Germany),
- X-ray generator for radiography (Bosello, Italy),
- special measuring tools and equipment.



QUALITY CERTIFICATION



- ISO 9001 certificate in TÜV CERT system,
- Compliance with REACH, RoHS requirements
- Plan of certification in compliance with ISO TS 16949, ISO 14001



CASTINGS SURFACE TREATMENT



- Shot-blasting (RÖSLER, Germany)
- Tumbling-vibratory finishing (RÖSLER, Germany)
- CNC controlled turning (Mori Seiki, Japan) and milling machining operations (Haas, USA)
- Machining (drilling, grinding, tapping)



HIGH-QUALITY POWDER COATING



The plant is equipped with an automated horizontal powder coating line (Wurster, Germany) for aluminium and steel parts. Main production line parameters:

- Wide range of coated products—length up to 7 meters,
- chrome-free technology for surface pre-treatment,
- automatic temperature adjustment and polymerization process control,
- rapid colour changing.



ALUTECH powder coating complies with the requirements of international Qualicoat and Qualimarine standards and ensures:

- even and high quality coating,
- high thermal, UV and corrosion resistance,
- eye-pleasing aesthetics of the coated products, long lifetime.



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