ABOUT AIRCRETE EUROPE

Aircrete Europe is the recognized global leading developer and manufacturer of Autoclaved Aerated Concrete (AAC) machinery and technology for the production of AAC panels and blocks. With a very international team with decades of experience and sales on 6 different continents, we design and deliver the most innovative turn-key AAC plants and cutting-edge plant technology.

Our solutions include turn-key, core technology, plant services and industry solutions. As your long-term technology partner, we guide you through all the steps of planning, building and operating your AAC factory.

OUR MISSION

“TO PROVIDE GREENER, FASTER AND BETTER BUILDING TECHNOLOGIES FOR THE WORLD OF TOMORROW.”

- Unique Flat Cake technology allows for superior quality with exceptional finishing
- Long term technology partnerships with producers worldwide
- International organization and footprint through projects with 100+ factories
- Vertical market approach for engineering, equipment, AAC production and AAC building solutions
- Complete building solution for residential, commercial and industrial segments
AAC product densities vary between 300 – 800 kg/m³ and compressive strengths are between 2.5 - 7 N/mm². The finished product volume is 3x the volume of the raw materials used, making it an extremely resource-efficient and environmental friendly building material.

Besides, AAC is a non-toxic product and it is the perfect material for Leadership in Energy and Environmental Design (LEED) and Green Star certified buildings.
AIRCReTE PLANT

SUPER-SMOOTH SURFACES
8 METER LONG PANELS
ULTRA THIN PRODUCTS
ZERO PROCESS WASTE
LOW-CARBON FOOTPRINT
MINIMUM FOUNDATION REQUIREMENTS

10 Sawing and Milling
09 Unloading and Packing
05 Rising (pre-curing)
06 Flat-Cake Cutting Line
07 Stacking and Autoclave Loading
08 Autoclaving
01 Ball Mill (sand grinding)
02 Slurry Tanks
03 Mixing and Casting
04 Reinforcement Preparation
TRADEMARK TECHNOLOGY OF AIRCRETE EUROPE

One of the most important innovations brought to the market by Aircrete Europe is the Flat Cake cutting line which allows for production of superior quality AAC products with an exceptional finishing at optimized costs.

CUTTING TECHNOLOGY CHARACTERISTICS

SIMPLIFIED PROCESS AND HIGH FLEXIBILITY OF THE PRODUCTION LINE

- Minimum cake handling – limiting material/capacity loss
- No tilting of the cake – and no tilting back
- No product surface sticking – no separation needed
- Double oscillating wires – in the High Speed Cutting Frame
- Mould opens up fully with hinged doors – easy to clean and oil
- Accurate profiling in green state – for tongue and groove

UNIVERSAL AIRCRETE CUTTING SYSTEM

- European engineering and quality
- Capacity from 300 m³/day to 2000 m³/day
- Easy extensions of capacity and product range
- Blocks and panels with thicknesses of 40mm – 500mm
- The only technology to make 8 meter long panels

TURN-KEY PROJECTS

Aircrete Europe as your technology partner will guide you through all the stages of planning, building and operating an AAC plant.

TURN-KEY PLANTS

Aircrete’s turn-key approach combines experience and customer focus as our project teams work on all aspects of a new AAC plant. Looking beyond complete systems supply, installation and commissioning we assist you to ensure reliable day-to-day production.

PLANNING BUILDING OPERATING

All Aircrete projects start with a customized engineering called Phase I. Together with the investor we design the optimal balance between technology, local factors and investment expectations.

In-depth understanding of your project requirements is key to success when designing a profitable AAC plant. To prepare a solid technical and financial foundation we offer:

- Raw materials testing
- Formula design and optimization
- Product portfolio design
- Equipment scope design
- Full investment scope overview
- Financial performance model
- Production cost calculations

TURN-KEY UPGRADES

Aircrete provides customized upgrade packages for existing AAC factories on a turn-key basis. We specialize in modernizing AAC plants from different technologies by applying latest equipment and innovations.

- HEBEL
- SIPOREX
- YTONG
- DUROX
- STEMA
- TILT CAKE
PLANT SERVICES

Plant Services are offered to existing AAC plants. Our engineers have a long track record in customized projects, improving operational efficiency, product quality and automation of existing AAC plants.

MAINTENANCE

Aircrete’s highly knowledgeable team of field service engineers and technicians provide regular maintenance and emergency service assignments globally.

SPARE PARTS & CONSUMABLES

We deliver crucial components and materials for continuous production of high quality AAC products. Aircrete stays at a forefront of innovation and process improvements.

RECIPE OPTIMIZATION

We analyze, test and optimize recipes and help to develop better formulas to fulfill each plant’s unique requirements. We analyse the raw materials and, in close cooperation with the customer, we develop different recipes in order to correspond to each special factory and their preferences.

Each production plant has its own unique formula where the raw materials have an influence on the end product.

TRAINING & MANAGEMENT

Aircrete’s mechanical, electrical, software and chemical engineers are available to support and train production teams of new or existing AAC plants. We also provide operational support through interim production management based on our sample experience in AAC operations.

PLANT IMPROVEMENTS

We offer individual or combined improvements for specific areas within the AAC production lines by engineering, manufacturing, installing and maintaining innovative machinery.

*(Aircrete ALU SAFE Dosing System)*
*(Aircrete Multi Paddle Low Speed Mixer)*
*(Plant control systems upgrades)*
*(Cutting line technology)*
*(Reinforcement area extension)*
*(Unloading and packing area improvements)*
*(Panel after treatment - sawing and milling)*

INDUSTRY SOLUTIONS

Aircrete Europe, as your technology partner, offers global best practices and expertise so that you reach the full potential of your AAC business. Our team is available to advise and assist you beyond machines supply, throughout the entire AAC value chain.

AAC BUSINESS INSIGHTS

To share industry knowledge and experience with you, we offer:

- Plant Scanning
- Technical Audits
- Plant Operation Manuals
- New Product Applications
- Market Development Strategies
- Production Licenses

AIRCRETE BUILDING SYSTEM

AAC panels offer a range of new possibilities for product applications. Aircrete supports development of your local market through design of panel-based innovative buildings systems suited for industrial, commercial and social housing construction.

All AAC elements are made in one plant and the dimensions of the panels are standardized to fit the optimal product portfolio of Aircrete plants. Application of an Aircrete Building System results in direct time and cost savings.

LINTELS
- High load-bearing capacity
- Versatile application
- Reinforcement area extension
- Super smooth surface

NORMAL BLOCKS
- Light weight
- Easy handling
- Good workability
- Excellent fire resistance
- Exact fit on site (no waste)

CLADDING PANELS
- Extra light facade structure
- Thickness 50mm
- Customized pattern design

FLOOR AND ROOF PANELS
- Superior natural insulation
- Light and strong (load-bearing)

WALL PANELS
- Time and cost efficient installation
- Easy finish (grouting for cables)

PARTITION PANELS
With decades of experience and sales in over 100 different AAC plants in 20 countries on 6 different continents, Aircrete Europe is the recognized global leading developer and manufacturer of Autoclaved Aerated Concrete (AAC) machinery and technology for the production of AAC panels and blocks.

We design and deliver the most innovative turn-key AAC plants and cutting-edge plant technology around the world. Being your long-term exclusive project partner, we guide you through all the steps of planning, building and operating your AAC factory. We are a full technology partner, not just a machine supplier, resulting in maximum value creation.

Together we build your success!