



SUPER SMOOTH CUTTING LINE

UNIQUE FLAT-CAKE TECHNOLOGY



ULTRA-THIN PRODUCTS

SUPER SMOOTH SURFACE

USER-FRIENDLY AND RELIABLE

NO TILTING, NO STICKING, NO SEPARATING

AIRCRETE
EUROPE

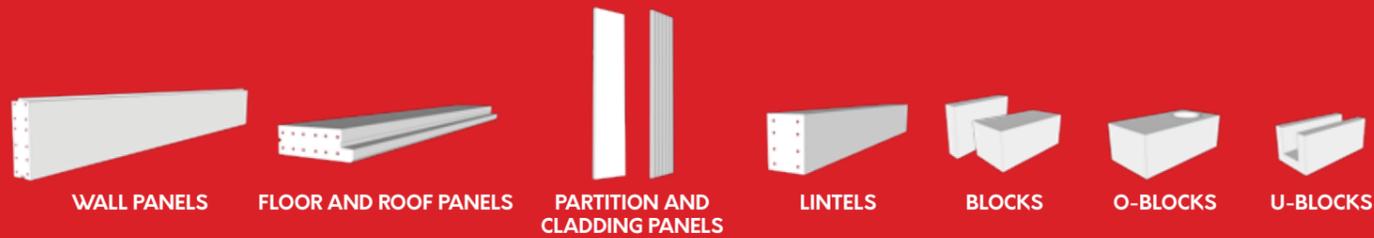
TRADEMARK TECHNOLOGY OF AIRCRETE EUROPE

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

A modern plant can supply AAC products for a complete panel-based building project: **AIRCRETE BUILDING SYSTEM**.



LARGE VARIETY OF AAC PRODUCTS



CUTTING TECHNOLOGY CHARACTERISTICS

SIMPLIFIED PROCESS AND HIGH FLEXIBILITY OF THE PRODUCTION LINE

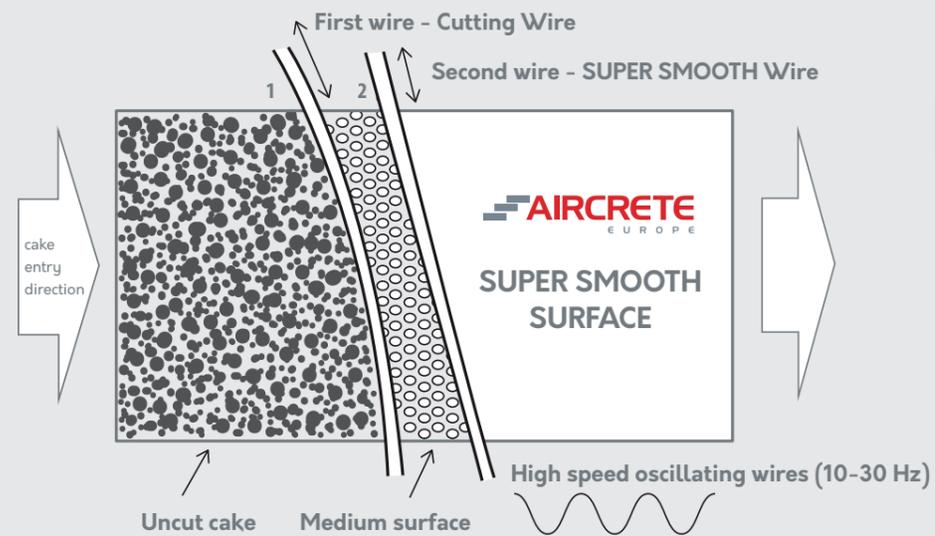
- **Minimum cake handling** – limiting cake damage and material/capacity loss
- **No tilting of the cake** – no tilting back
- **No product surface sticking** – no separation needed
- **Double oscillating wires** – in the High-Speed-Cutting-Frame
- **Mould opens up fully with hinged doors** – easy to clean
- **Accurate top and bottom profiling in green stage** – 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
- High raw materials flexibility: sand and fly-ash



LEADING PANEL PRODUCTION SYSTEM - PROVEN PERFORMANCE WORLDWIDE



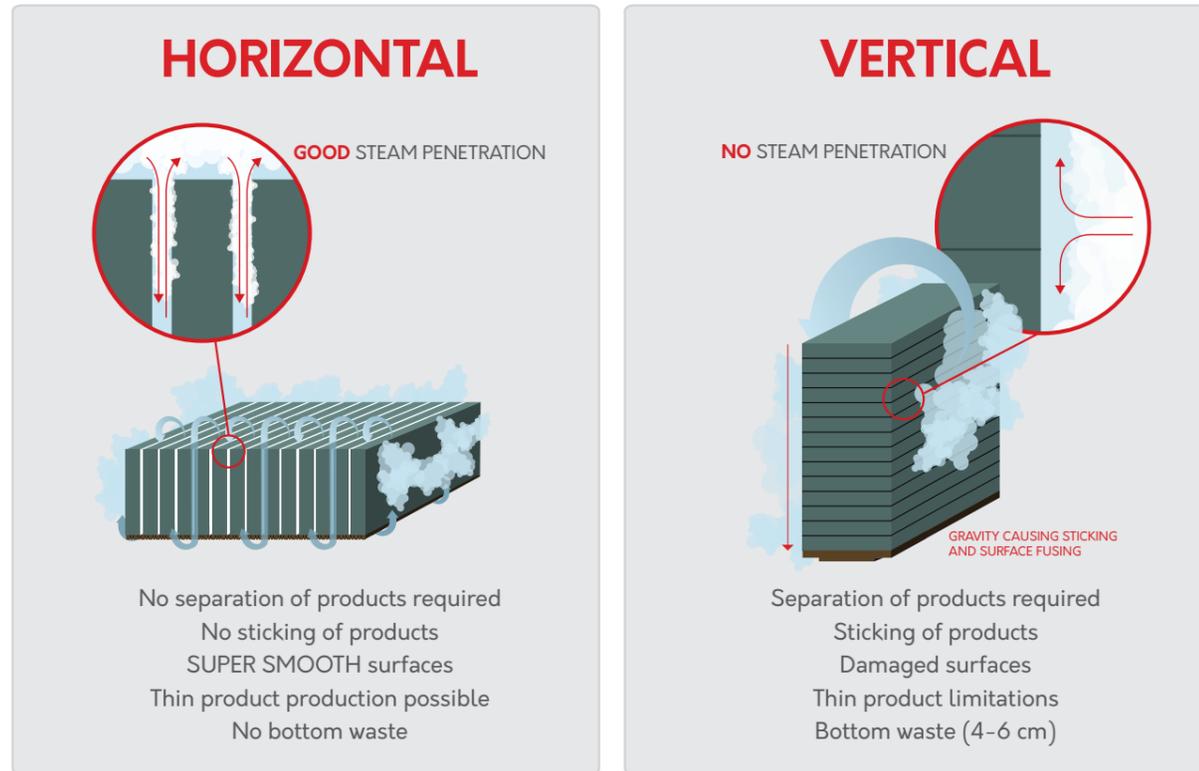
EXCLUSIVE TECHNOLOGY - DOUBLE OSCILLATING WIRES

The first cutting wire is followed by a second smoothing wire for precision and SUPER SMOOTH surfaces.

PRODUCT CHARACTERISTICS

UNIQUE SURFACE QUALITY AND COMPLETE PRODUCT RANGE FOR A NEW OR MATURE MARKET

- **Flexible product portfolio** – any sizes and densities 300 – 800 kg/m³
- **Blocks & Panels with thickness** – 40mm to 500mm
- **Geometrical accuracies within +/- 1mm** – EN 771-4 and EN 12602 standards
- **100% Blocks or 100% Panels production possible**
- **The only technology to make 8 meter long panels**
- **SUPER SMOOTH surface**



AIRCRETE FLAT-CAKE

Positioning With Crane
Cutting (Horizontal Cake)

Flat Autoclaving

Packaging

4 STEPS

TILT-CAKE

with **White** Separator

Tilting (°90)
Cutting (Vertical Cake)

Vertical Autoclaving

'White' Product Separation
'White' Bottom Layer Removal

Packaging

6 STEPS

with **Green** Separator

Tilting (°90)
Cutting (Vertical Cake)

Back Tilting
'Green' Bottom Layer Removal
'Green' Product Separation
Flat Autoclaving

Packaging

7 STEPS

OPERATIONAL EFFICIENCY

ELIMINATED WASTE, RECYCLED MATERIALS AND IMPROVED PLANT'S OPERATIONAL PERFORMANCE

- **Largest cutting window** – process flexibility and raw materials tolerance
- **Zero process related green waste** – 100% recycled
- **No bottom layer** – saving raw materials
- **Minimum white waste** – blocks < 1%, for panels < 3%
- **Adjustable cake lengths** – no by-products in production
- **Horizontal autoclaving** – excellent steam penetration
- **Fast cycle time** – achieving full designed capacity



FLEXIBLE PRODUCTION PROCESS

High-volume, large-variety and just-in-time production of reinforced panels is possible (100% blocks are also possible).



COMPLETE PRODUCT PORTFOLIO

Largest variety of products as the production process allows for more complex and thinner shapes and structures: panels of 40mm – 500mm thickness, up to 8m long and traditional blocks.



SUPERIOR PRODUCT QUALITY

Minimum cake handling and double-wired cutting technology result in high accuracy (<1mm tolerances) and superior SUPER SMOOTH product surfaces.



ENERGY EFFICIENT PLANT OPERATION

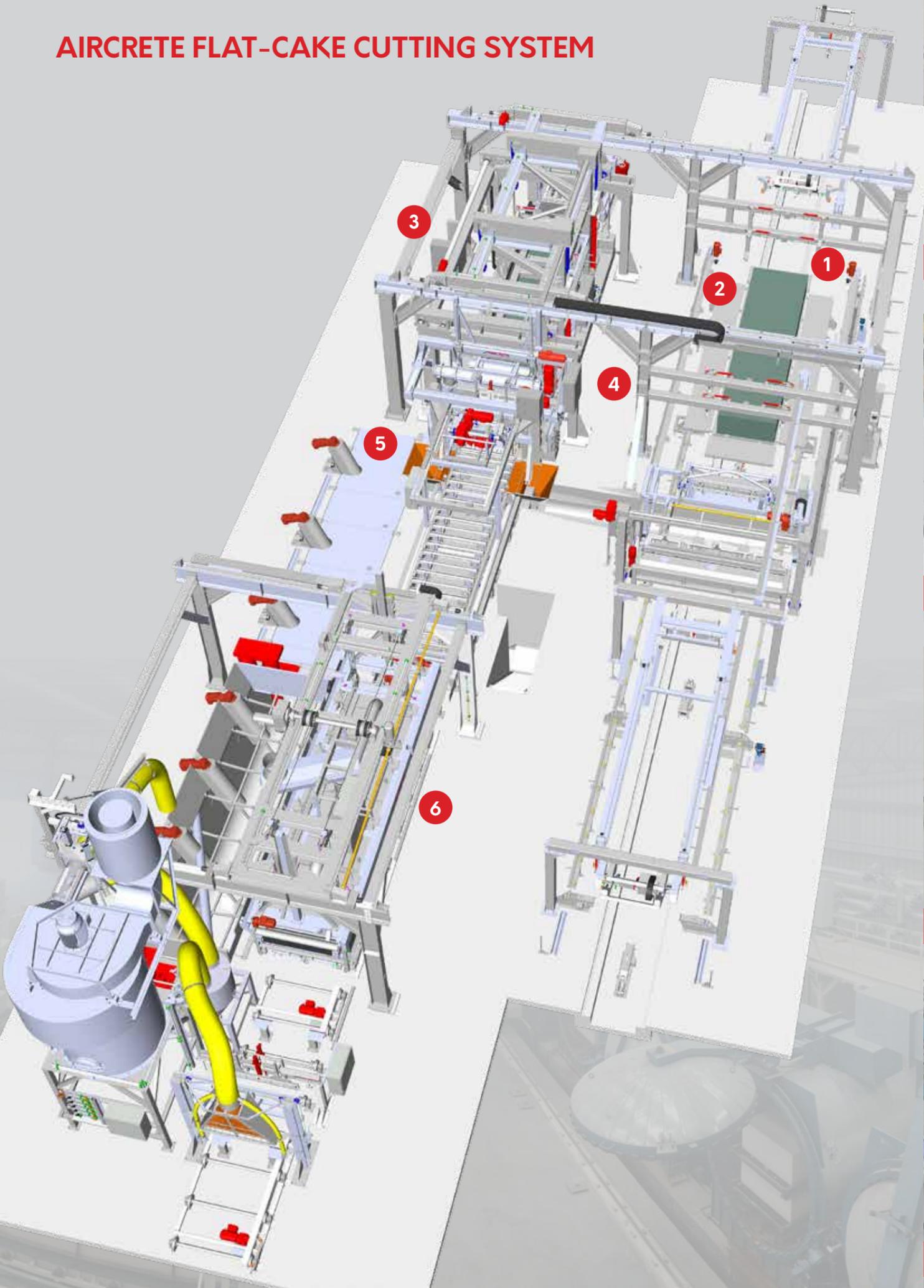
Fewer handlings than (conventional) tilt-cake process resulting in efficiency, less breakage, and minimum energy usage.



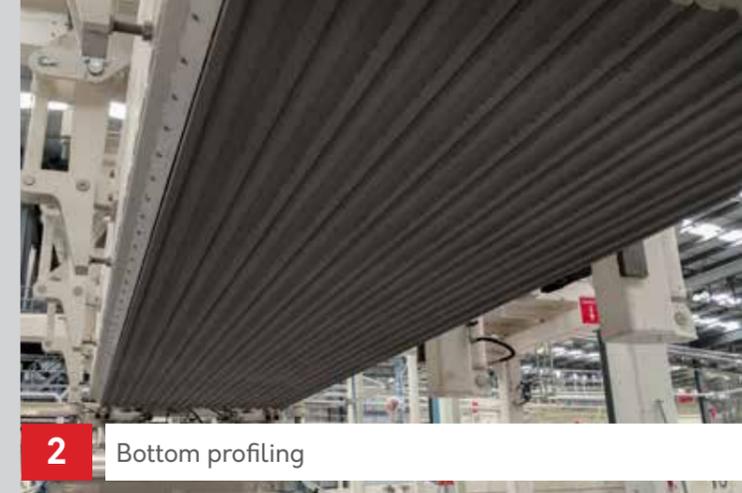
SIMPLIFIED MACHINE INFRASTRUCTURE

Less cake handling results in simplified foundations and no requirement of overhead cranes.

AIRCRETE FLAT-CAKE CUTTING SYSTEM



1 Open mould & grabbing crane



2 Bottom profiling



3 Inclined frame during cross-cut



4 High Speed Cutting Frame- horizontal & vertical cut



5 Side crust recycling (100%)



6 Recycling top and end crusts (100%)



7 Flat stacking



8 Flat autoclaving



With decades of experience in over 100 different AAC plants and clients in over 60 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!



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