

New Dual-Sided Green Cake Separation Technology launches in Thailand

As the demand for high-quality, sustainable building materials accelerates across Southeast Asia, Keda Suremaker has successfully brought a highly automated autoclaved aerated concrete plant into stable, high-yield operation in Thailand. Partnering with a prominent local building materials manufacturer, this new project marks the successful debut of the world's first Intelligent Dual-Sided Green Cake Separation AAC production line developed by Keda Suremaker.



To meet the high standards of the local market, an AAC producer in Thailand has adopted Keda Suremaker's holistic AAC plant solution which features the Dual-Sided Green Cake Separation Technology.

Shifting market demands met with stable production

The Thai construction industry is undergoing a structural shift towards greener practices and higher building standards. Producing advanced AAC products requires absolute precision to prevent mechanical damage and ensure flawless surface quality. To meet these stringent market expectations, an AAC producer from Thailand adopted Keda Suremaker's holistic autoclaved aerated concrete plant solution. Now, the facility has successfully transitioned out of the commissioning phase and is running exceptionally stably, continuously delivering premium high-precision AAC blocks with outstanding efficiency.



*State-of-the-art
production workshop
delivered by
Keda Suremaker.*

Advancing the science of green cake separation

A key factor in this plant's stable output of premium products is the resolution of a persistent industry challenge: the bonding of green cake during autoclaving. Separating finished products after autoclaving ("white cake separation") may result in damage. Keda Suremaker has continuously refined green cake separation solutions – separating the semi-finished products before hydration reactions occur – making it the ideal solution to ensure very high dimensional accuracy for AAC products.

This new facility perfectly integrates Keda's self-engineered, next-generation green cake separation machine, introducing key engineering upgrades to the global market.

Keda's world's first Intelligent Dual-Sided Green Cake Separation

As the first production line globally to implement this technology, the newly upgraded equipment features servo motor-driven operation, ensuring high precision and smooth action. The machine's gripper heads automatically adjust to the preset splitting thickness, and the dual-sided grippers synchronize their actions to split the entire green body in one go, significantly boosting production efficiency.

By executing vertical cutting – green cake separation – flat cake autoclaving workflow, the risk of post-autoclave sticking can be completely avoided.



Intelligent Dual-Sided Green Cake Separation – the dual-sided grippers synchronize their actions to split the entire green body in one go.



Flat cake autoclaving is one of the key technologies for producing thin AAC elements in the new Thai AAC plant.

Flexible and seamless integration

Equipped with quick-change grippers designed to adapt to different AAC product sizes, the green cake separating machine allows for maximum flexibility. The intelligent control systems ensure the separating rhythm syncs with the rest of the highly automated production line.

A four-stage roadmap to stable operation

The successful implementation of this pioneering technology and the plant's current stability are not coincidental. Keda Suremaker's project execution is guided by a comprehensive four-stage service roadmap. This Thai facility demonstrates this full-lifecycle approach in action:

Stage 1 – Planning and design:

Keda Suremaker collaborated closely with the client to analyze local raw materials, customize the layout, and conduct a rigorous feasibility study.

Stage 2 – Production and logistics:

All core equipment, including the initially launched Dual-Sided Green Cake Separation Machine, underwent strict ex-factory commissioning.

Stage 3 – On-site installation and commissioning:

Keda's expert team worked seamlessly with the local crew for precise installation and process optimization.

Stage 4 – After-sales service:

Today, the project is firmly in Stage 4. Supported by comprehensive operator training and continuous lifecycle service, the plant is achieving its current stable, continuous output.

Maximizing ROI through sustainability

By virtually eliminating reject rates caused by sticking or edge damage, the Thai facility maximizes its raw material utilization and delivers a stronger Return on Investment (ROI).

"Seeing this Thai facility operating so stably across all shifts is a testament to both our continuous R&D efforts and our rigorous project execution," stated Mr James Lee, the Sales Director of Keda Suremaker. "We are not just supplying machinery; we are guiding our partners through every step – from Stage 1 planning to Stage 4 lifecycle service – providing technological guarantees that allow them to confidently expand their premium AAC product market share with the world's most advanced Green Cake Separation technology." ●



The new AAC production line is designed for highest flexibility and high-quality output.



The Thai building materials manufacturer's main goal is to expand its market share in the premium AAC product sector.



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