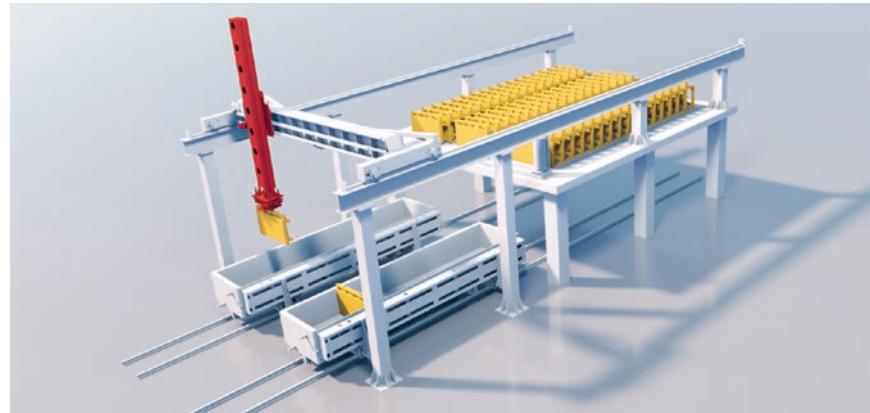


# Automatic partition system for efficient AAC panel production

In the production process of autoclaved aerated concrete panels, the precision and efficiency of mould partition directly determine raw material utilization, waste output, and overall production costs. Traditional manual or semi-automatic operation modes often lead to green cake waste due to positioning deviations. Further, untimely partition cleaning can easily cause waste accumulation, which not only increases material costs but also deviates from the concept of green production.

*Fully automatic partition board positioning helps preventing material waste and boosts production efficiency.*



As an innovative leader in the AAC industry, Jiangsu Runding Intelligent Equipment Technology Co., Ltd. has identified these pain points and developed the Automatic Partition System. Utilizing intelligent technology to redesign the production process, it provides enterprises with a dual-advantage solution that balances cost savings and emission reduction.

## Servo Drive: Unlocking a new experience in unmanned production

The core advantage of the Runding Automatic Partition System lies in the application of its fully automatic servo control system. Abandoning the cumbersome processes of traditional manual operations, it achieves fully automated cycle management – from retrieval, placement, and shifting to recovery and cleaning of partition boards – through the synergy of high-precision servo motors and intelligent algorithms. The entire process requires no manual intervention, not only completely avoiding the risk of human error but also enabling a reduction in labour costs for a single production line by over 30%. The integrated intelligent sensor module monitors the production sequence in real-time, controlling partition placement accuracy within  $\pm 5$  mm. It can adapt to flexible production scenarios of different specifications and batches, achieving high-precision and intelligent operation.



*Strict control of raw material waste: Precise partition positioning and synchronous control effectively avoid issues like slurry overflow and moulding deviations.*

### Reducing consumption and emissions: Activating new momentum for green production

Under the dual objectives of “increasing efficiency while reducing costs” and “energy saving and emission reduction,” the system demonstrates very high industry adaptability:

- Strict control of raw material waste: Precise partition positioning and synchronous control effectively prevent issues like slurry overflow and moulding deviations.
- Reduction of production waste: The automatic cleaning unit can remove adhesion residues in real-time, preventing waste accumulation from contaminating the production environment and reducing the energy consumption associated with recovery and treatment, helping AAC producers to achieve waste reduction at the source.
- Lower comprehensive energy consumption: The servo drive system reduces energy consumption by 25%, compared to traditional hydraulic drives. Combined with process optimization from unmanned operations, it further compresses the entire cycle’s energy consumption, ideally aligning with the Chinese “Dual Carbon” strategy and the green transformation trend of the autoclaved aerated concrete industry.

### Technology as the foundation

As a Chinese high-tech enterprise, Runding Intelligent has always taken “technological innovation driving industry upgrade” as its core mission. The Automatic Partition System is a representative innovative application stemming from Runding’s hundreds of patented achievements. Leveraging the company’s profound technical expertise in intelligent control and process optimization, the system can operate independently or integrate seamlessly with Runding’s intelligent AAC production lines, connecting processes from raw material handling and cutting to finished product packaging, thereby building a truly integrated smart factory solution.

### Innovation leads – Empowering high-quality industry development

From the workshop to the global stage, from equipment R&D to an intelligent ecosystem, Runding Intelligent consistently responds to industry needs through technological innovation. The successful implementation of the Automatic Partition System is not only a best practice of the corporate spirit of “integrity, pragmatism, learning, and innovation” but also provides a replicable technical model for the autoclaved aerated concrete industry to solve the



Showroom of the latest machinery developments at Runding's Headquarters.

challenges of "high loss, high cost, and high emissions."

In the future, Runding Intelligent will continue to deepen its involvement in the field of intelligent equipment for green building materials, empowering the high-quality development of the industry with more core technologies.

Video about  
Runding Automatic  
Partition System:



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