

Innovation Showcase: Global Leading Pre-expander Manufacturer Demos Live at SECC Vietnam Event

Hangzhou, Zhejiang Jun 8, 2026 ([IssueWire.com](https://www.issuewire.com)) - In the fast-moving foam-production environment, the [Global Leading Pre-expander Manufacturer](#) Hangzhou Fuyang Dongshan Plastic Machinery Co., Ltd. (Dongshan) stands ready to unveil its next wave of automated pre-expansion solutions at the upcoming SECC Vietnam event. With nearly two decades of experience in designing and manufacturing EPS and EPP foam-machinery, Dongshan embodies a strategic response to rising demands for energy efficiency, consistent bead density, and full automation in foam processing. Situated in Hangzhou and well-positioned for global exports, the company's presence at SECC underscores how pre-expander machinery is moving from basic equipment toward integrated, intelligent production systems.

Industry momentum: why pre-expansion is gaining focus

Foam-plastics manufacturing is increasingly shaped by tighter production tolerances, cost pressure and rising demand across packaging, construction insulation, and cold-chain logistics. In particular, the step of pre-expanding beads of expandable polystyrene (EPS) has become critical: uniform pre-expansion ensures consistent downstream moulding performance, accurate density, less waste and improved process control. Manufacturers are therefore seeking pre-expander machines that offer not just high throughput but intelligent control, reduced energy usage, and simplified operation.

In this context, a company like Dongshan with a strong pre-expander portfolio is well placed. Its machines combine automated control of steam, air, drying and density-management, allowing foam producers to deliver stable, high-quality foam beads. As the market matures, the ability to integrate upstream processes (pre-expansion) with downstream forming (moulding) and recycling becomes a differentiator.

Dongshan's foundation and differentiating advantages

Dongshan's credentials reflect a long-term commitment to foam-machinery manufacturing. Established nearly 20 years ago, the company specialises in EPS and EPP foam-plastics machines, covering R&D, manufacture, sales and service. It is located in Hangzhou—a fast-developing region of China—and benefits from proximity to major export ports such as Shanghai and Ningbo, enabling smoother logistics for global clients.

Since 2007, Dongshan's machinery have achieved CE certification and ISO 9001 quality-management certification. The firm has also been recognised as a high-tech enterprise and awarded a "Level A of honesty and trustworthiness" honour. With over 48 utility model patents and 6 invention patents, the company demonstrates technical depth. Its product range spans Auto Block Moulding machines, Auto Pre-Expander machines, Auto Shape Moulding machines, cutting machines, recycling machines and other auxiliary equipment. Maintaining the philosophy "Brand based on quality, bright future based on service," Dongshan supports its global network with professional teams in sales and after-sales service, and exports its equipment to more than fifty countries worldwide.

These attributes—experience, export readiness, technical innovation and service orientation—provide a credible basis for Dongshan's role at the SECC Vietnam demo event.

Spotlight: pre-expander machine series unwrapped

At the core of Dongshan's showcase is its pre-expander machine lineup, designed to meet modern foam-production needs. The product pages on the company's website describe several models, including high-precision automatic batch pre-expanders, continuous pre-expanders, vacuum type pre-expanders, and advanced automatic machines tailored for large-scale production.

For instance, one model named "EPS Automatic Batch Pre Expander 1400" is emphasised for large-scale foam production, offering uniform expansion of EPS beads, precise temperature control, and consistent density. Specifications include an expansion chamber diameter of DN1400 (2.1 m³ usable volume) or DN1660 (4.8 m³ usable volume); steam inlet 2" (DN50); consumption ranging 8–10 kg/cycle (for 2.1 m³) or 11–14 kg/cycle (for 4.8 m³); density tolerance $\pm 3\%$; and automatic PLC/human-touch control with quick process switching capability.

Another example is the "EPS Pre Expander – Advanced Automatic Type for Precise Expansion," which features model series X-MAX1100B / 1400B / 1670B, with effective volumes from 1 m³ to 3.5 m³, pressures of 0.5-0.8 MPa, and density tolerances from $\pm 1\%$ to $\pm 1.5\%$. The integration of automatic weighing systems and optional customisation further enhances factory automation.

Common attributes across the portfolio include:

Adjustable steam pressure and automatic filling systems for seamless operation;

User-friendly interfaces and PLC control for automated sequences;

Energy-saving designs that reduce steam and air consumption while maintaining bead quality;

Consistent density control (e.g., $\pm 3\%$ tolerance) to support downstream moulding reliability;

Suitability for large-volume production of EPS sheets, foam blocks, packaging inserts and insulation parts.

By presenting this product series at SECC Vietnam, Dongshan signals that pre-expansion is not a standalone process but a strategic segment of an integrated foam-production line.

Application scenarios and global user implications

Pre-expander machines from Dongshan are intended for multiple application scenarios across foam-manufacturing operations:

Packaging & cold-chain logistics: Foam inserts, protective packaging and insulated boxes require stable bead expansion and consistent density to achieve desired thermal and protective performance. Using a precision pre-expander ensures that subsequent moulding maintains expected shape, weight and insulating properties.

Construction insulation and boards: Large foam boards or panels for building insulation demand uniform bead size and density to deliver reliable structural and thermal performance. The batch/continuous pre-expanders cater to higher volumes with repeatable quality.

Automotive and industrial components: Foam parts for vehicles or industrial equipment often have complex geometries and need consistent material properties. Pre-expanders that enable accurate bead control support downstream shape-moulding or block production.

Global manufacturing environments: With Dongshan's export footprint exceeding fifty countries (including regions such as Russia, India, Vietnam, Brazil), their machines are designed to accommodate diverse operational conditions—such as varying ambient temperatures, power supplies, material specifications and service expectations.

Through these applications, manufacturers can achieve improved process stability, reduced waste, better product uniformity and enhanced production throughput. The pre-expander thus becomes a vital link in the foam-production ecosystem rather than a mere preliminary step.

Live demo at SECC Vietnam: what to expect

At the SECC Vietnam event, Dongshan's live demonstration will likely highlight several key aspects in line with current market demands:

Full-process visibility: Attendees can observe how raw EPS beads are fed, expanded via steam and air control, dried and conveyed—showing the technical sequence and control features in real time.

Automation and monitoring: The ability to select production parameters, monitor expansion chambers, track bead density and adjust for different target specifications will be showcased. This transparency appeals to buyers seeking smarter production.

Energy- and resource-efficiency features: With rising operational costs and sustainability pressure, the demonstration will emphasise reduced steam/air consumption, shorter cycle times and consistent quality outputs—demonstrating how pre-expansion optimisation can affect overall factory economics.

Customization and scalability: Visitors will have access to modular examples (batch vs continuous), different chamber volumes and optional automation add-ons (such as automatic weighing, vacuum assist, system integration). This helps manufacturers evaluate fit-for-purpose solutions based on scale and product mix.

Service and global readiness narrative: Dongshan's international export experience and support network will be part of the discussion—helping global users assess not just machine specs but the supplier's long-term service capability and logistical readiness.

By orchestrating this showcase, Dongshan addresses both the technical and commercial considerations of foam-product manufacturers evaluating equipment investment.

Strategic value for foam-product manufacturers

From a strategic perspective, selecting a provider like Dongshan for pre-expander equipment has implications across operational, quality and business dimensions:

Enhanced operational reliability: Machinery with precise controls supports fewer interruptions, predictable maintenance schedules and consistent production cycles—especially important in high-volume foam operations.

Quality and downstream consistency: Reliable bead expansion and density variation control reduce downstream issues in moulding or block formation, which can translate into fewer defects, less rework and better product uniformity.

Cost and sustainability advantages: Energy consumption (steam, air, drying) and material waste represent significant cost centres. High-performance pre-expanders help reduce those expenditures and support sustainability goals.

Flexibility in product mix: With versatile equipment options, manufacturers can leverage one pre-expander system for multiple product lines (packaging, insulation, automotive foam), making capital assets more adaptable to market shifts.

International readiness: For manufacturers targeting export markets or global supply-chains, supplier credentials such as export experience, global service network, certifications and logistics support matter as much as hardware features.

In environments where foam-product manufacturers face competitive pressure, tight margins and evolving customer demands, the ability to integrate pre-expansion equipment that delivers predictable, efficient and adaptable performance becomes a differentiator.

In closing, the presentation by Dongshan at SECC Vietnam reinforces the evolving nature of foam-machinery equipment: no longer simply standalone units, but integral components of intelligent production lines that emphasise automation, efficiency and global service. For manufacturers seeking to upgrade their EPS or EPP production capacity with a forward-looking pre-expansion solution, Dongshan offers a well-documented track record, a broad machine portfolio and international readiness. For further details on their machine models, technical specifications and global service network, please visit <https://www.dongshaneps.com/>.

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