

China Professional Guide to Reliable High-speed In-flight marking Solutions: Kecmark at PFP EXPO Sino-Pack 2026

HANGZHOU, ZHEJIANG, CHINA, June 17, 2026 /EINPresswire.com/ -- PFP EXPO Sino-Pack 2026: The Compass for High-Speed Packaging Identification

The demand for Reliable High-speed In-flight marking Solutions from China has reached a pivotal point as global manufacturing transitions toward smarter, faster, and more traceable production lines. As industrial automation accelerates, the ability to apply precise, permanent identifiers onto moving products without interrupting flow remains a technical benchmark for operational efficiency. In the context of modern packaging, "in-flight marking" refers to the seamless integration of laser and inkjet technology into conveyor systems, where speed and reliability determine the overall output quality of the facility.

PFP EXPO Sino-Pack 2026 stands as a premier platform for the entire packaging industry chain in South China. Organized by Adsale Group, this event focuses heavily on the "Smart Packaging" and "Product Identification" sectors. It has become the preferred venue for professionals in the food, beverage, daily chemical, and pharmaceutical industries to evaluate high-speed identification equipment. The exhibition serves as a barometer for technical trends, highlighting how manufacturers address the most pressing challenges in the field.

Live Technical Demonstrations: Real-World Scenarios at the Kecmark Exhibit



During the event, [Hangzhou Kechuang Mark Technology Co.,Ltd](#) demonstrates its technical capabilities within the specialized product identification zone. The focus centers on a multi-technology approach to high-speed marking, showcasing how different systems interact with various packaging materials. Visitors observe the transition of raw surfaces into fully coded products in fractions of a second, highlighting the maturity of modern industrial integration. Technical experts provide onsite consultations to bridge the gap between exhibition demos and factory realities. For instance, engineers conduct parameter matching for production lines running at speeds such as 300 bottles per minute. This level of interaction offers a professional guide for manufacturers who require specific data on pulse frequency, focal length, or ink viscosity to optimize their unique throughput requirements. This practical approach emphasizes service-oriented technical support over mere equipment sales.

A Professional Guide to Selecting [High-Speed In-Flight Marking Systems](#)

Selecting the appropriate marking solution requires a balance of three critical technical elements: precision synchronicity, structural reliability, and material versatility. These factors ensure that the high-speed investment translates into long-term operational stability, minimized downtime, and full compliance with global traceability standards across diverse industrial substrates and harsh production environments.

1.Synchronicity and Velocity: Preventing Ghosting and Omissions

The first priority in high-speed marking is the precise synchronization between the marking output and the movement of the workpiece. At extreme speeds, even a millisecond of delay causes "ghosting" or distorted characters. Advanced laser systems, such as the Fiber 700 and UV 900 series, utilize high-resolution encoder signals to track moving objects with absolute precision. By integrating servo-synchronization technology, the system adapts its firing rate to the actual speed of the conveyor. This ensures that every mark remains complete and centered, even if the line speed fluctuates during startup or shutdown phases.

2.Operational Reliability: Engineering for Harsh Industrial Environments

Manufacturing environments are rarely pristine. Food and beverage facilities often contend with high humidity, dust, and significant mechanical vibrations. Equipment reliability hinges on protective design and internal stabilization. Robust systems, like the Bag-feeding Fiber laser marker, feature IP65 waterproof ratings and 304 stainless steel construction to shield sensitive components from moisture and corrosive cleaning agents. Furthermore, Small Character Inkjet (CIJ) printers like the KM800 are built with embedded LINUX systems to ensure continuous operation, minimizing downtime losses in demanding plant conditions.

3.Material Versatility: Matching Technology to Substrates

A versatile marking system must handle everything from clear plastics to hard metals and flexible bags without compromising legibility. The choice of technology depends heavily on the material:

□UV Lasers: Ideal for "cold marking" on sensitive plastics and pharmaceuticals, preventing thermal damage.

□Fiber Lasers: Optimized for high-speed marking on hard, dense materials like metal cans, cables, and electronic housings.

□CO2 Lasers: A reliable choice for organic materials, glass, and various coated substrates.

□CIJ Inkjet Printers: Provide high-speed, non-contact coding using various inks, suitable for dark materials or high-adhesion requirements.

Seamless Integration: Adapting to Diverse Packaging Environments

While equipment performance is paramount, true operational efficiency stems from how these systems integrate within the existing production framework. Real-world applications demonstrate that high-performance marking units must adapt to various mechanical configurations, such as vertical form-fill-seal (VFFS) machines, horizontal flow wrappers, and high-speed paging systems. For instance, compact laser models are often embedded directly into pouch-filling lines or stretch film applicators to maintain a small footprint while achieving continuous output. This integration capability ensures that whether the substrate is a flexible film, a rigid carton, or a pre-made pouch, the marking process remains a non-disruptive, value-added component of the broader production cycle.

Bridging Exhibition Solutions with Factory Implementation

The transition from a successful demonstration to a functional factory installation requires a comprehensive service loop. Modern identification providers focus on the full lifecycle of the equipment. This process begins with preliminary sample testing to determine the optimal technology—whether laser or inkjet—based on wavelength, power, or ink type. Following the initial validation, technical teams provide onsite installation and integration with existing ERP or MES systems. This ensures that the digital data for anti-counterfeiting and traceability flows seamlessly from the office to the marking head.

By prioritizing technical rigor and objective performance metrics, manufacturers can secure identification solutions that grow alongside their production demands. The evolution of industrial marking continues to drive the digitalization of the global supply chain, turning every package into a data-carrying asset.

For more information on industrial marking technologies, please visit: <https://www.kec-smark.com/>

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