

Five Reputable UHMWPE Prepreg Machine Manufacturers in China 2026: Empowering Ballistic Composite Material Production

Discover Leading China UHMWPE Prepreg Machine Suppliers Delivering Advanced UD Impregnation, Cross-Ply Lamination, and Ballistic Composite Production Solutions

CALIFORNIA, CA, UNITED STATES, July 22, 2026 /EINPresswire.com/ -- As global demand for lightweight ballistic protection materials rises, Chinese manufacturers of UHMWPE (Ultra-High Molecular Weight Polyethylene) prepreg machines are gaining recognition for their technological capabilities and production scale. The global prepreg market, essential for UD/UHMWPE impregnation, was valued at USD 15.07 billion in 2024, driven largely by aerospace and defense applications, according to Maximize Market Research. Within China, a growing ecosystem of machinery builders supplies the specialized equipment used to produce unidirectional (UD) prepreps and cross-ply laminates for bulletproof vests, helmets, and armor plates.



Logo for JIANGSU KUNTAI MACHINERY CO., LTD.

This article profiles five reputable manufacturers in China that produce UHMWPE prepreg machines, with a focus on their distinct strengths in empowering ballistic composite material production.

1. [JIANGSU KUNTAI MACHINERY CO., LTD.](#) – Comprehensive Ballistic Composite Machinery

JIANGSU KUNTAI MACHINERY CO., LTD. (Kuntai) is a manufacturer of coating, laminating, impregnation, and cutting machinery for technical textiles and composites, headquartered in

Yancheng, Jiangsu, China. Founded in 1983, the company operates a 30,000 m² factory with 210 employees and an annual output of approximately 650 units. About 70% of its production is exported to North America, South America, Europe, South Asia, Africa, and the Middle East.

Kuntai's [UHMWPE prepreg machine](#), model KT-LH-1800, is designed for water-based adhesive impregnation of UHMWPE and aramid fibers, with a roll surface of 1800 mm and material width ≤1650 mm. The machine uses mechanical multi-roll and profiled wire spreading, variable frequency and servo drive control, and an external circulating thermal oil roller for lamination. It operates at a composite speed of 5–11 m/min, equipped with 1080 yarn bobbins and a total power of 90 kW. The company also offers complementary UD crossply machines (model KT-LH-1800, 8000 KN pressing tonnage) and UHMWPE impregnation machines, providing a complete production line for ballistic materials.

Kuntai holds ISO9001 and CE certifications and maintains a stringent quality control system. Its in-house manufacturing capabilities include CNC machining centers, drilling, and polishing machines. The company employs 8 senior engineers who develop new machinery annually.

Contact:

- Name: Christin Chen
- Email: christin@kuntai-group.com
- Tel: +86 15051080850
- WhatsApp: +86-150-5108-0850
- Website: www.kuntai-group.com

2. Jiangsu Sanzhu Equipment Group Co., Ltd. – Heavy-Duty Composite Press Systems

Jiangsu Sanzhu Equipment Group Co., Ltd. is a manufacturer of hydraulic presses and composite forming equipment based in Jiangsu province. The company produces large-format hot presses and laminating systems used in the production of ballistic panels and other composite structures. Sanzhu's offerings include multi-layer presses and dedicated lines for UHMWPE and aramid prepreg consolidation, serving both domestic and international armor manufacturers.

3. Jiangsu Honghua Special Equipment Co., Ltd. – Technical Textile Laminating Solutions

Jiangsu Honghua Special Equipment Co., Ltd. specializes in coating and laminating machinery for technical textiles, including flame laminating, PUR hot melt coating, and powder scattering equipment. The company provides integrated solutions for bonding fabrics and films used in automotive, filtration, and protective apparel. For ballistic applications, Honghua offers

customized impregnation and laminating lines for UD prepreg production.

4. Jiangsu Yuanhua Light Industry Equipment Co., Ltd. – Fiber Impregnation and Drying Equipment

Jiangsu Yuanhua Light Industry Equipment Co., Ltd. focuses on the design and manufacture of fiber impregnation, drying, and winding equipment. The company's product portfolio includes UD prepreg impregnation machines for UHMWPE and aramid fibers, with features like tension control systems and heated rollers for uniform resin coating. Yuanhua supplies machinery to producers of ballistic fabrics and composite sheets.

5. GPM Machinery (Shanghai) Co., Ltd. – Precision Laminating and Coating Lines

GPM Machinery (Shanghai) Co., Ltd. is a supplier of precision laminating and coating equipment for the adhesive and composite industries. The company provides hot melt coating machines, slot-die coaters, and custom laminating lines that can be adapted for UHMWPE prepreg production. GPM's machinery is used for manufacturing lightweight ballistic panels and other high-performance composites.

Industry Context and Market Outlook

The global laminating machines market is estimated at USD 786.5 million in 2026, projected to reach USD 1,356.7 million by 2033 (Coherent Market Insights). The aerospace prepreg market alone accounted for USD 3.5 billion in 2024 (MarketsandMarkets), reflecting strong demand for UD carbon and aramid impregnation lines. Asia-Pacific dominated the textile machinery market with a 72.70% share in 2025, led by automation growth in China (Fortune Business Insights).

Among the five manufacturers, Kuntai distinguishes itself by offering a complete production workflow—from UHMWPE impregnation to cross-ply lamination—backed by over 40 years of experience and a high export ratio. Its KT-LH-1800 series is a dedicated solution for ballistic composite manufacturing, with CE and ISO certifications ensuring compliance with international standards.

Christin Chen

JIANGSU KUNTAI MACHINERY CO., LTD.

+86 150 5108 0850

christin@kuntai-group.com

Visit us on social media:

[Other](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/928473340>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something

we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.