

China Leading Hot Melt Adhesive Coating Machine Manufacturer: NDC Showcases Sustainable Innovation at Drupa



Quanzhou, Fujian Jul 16, 2026 ([Issuewire.com](https://www.issuewire.com)) - Rising regulatory pressures regarding volatile organic compound (VOC) emissions alongside an industry-wide push for material reduction are reshaping contemporary converting operations. Today, manufacturing plants must achieve micron-level coating uniformity at high mechanical speeds while simultaneously transitioning to thinner, temperature-sensitive substrates that reduce overall environmental footprints. At Drupa, the premier international trade fair for printing and converting technologies, [NDC \(NDC Engineering & Manufacturing \(Fujian\) Co., Ltd\)](#) showcased structural engineering solutions designed to address these precise operational constraints.

Recognized as a premier global provider and China leading hot melt adhesive coating machine manufacturer, the company presented its latest automated coating configurations, illustrating a clear industrial shift toward resource-efficient, low-emission processing technologies. These advanced, highly flexible machinery configurations successfully demonstrate that standard factory floors can seamlessly adopt sustainable material processing methods without sacrificing structural output precision or long-term component durability in heavy-duty production lines.

Drupa: The Hub of Print and Packaging Innovation

Held in Düsseldorf, Germany, Drupa serves as an essential benchmark for global developments in the printing, packaging, and converting industries. Bringing together over 1,600 exhibitors and thousands of international professionals, the exhibition acts as a primary forum where emerging material science intersects with large-scale industrial machinery.

In recent years, the market focus within the fair has adjusted significantly. While graphic applications historically dominated the floor, a substantial portion of technology integration now centers on packaging conversion, label manufacturing, and post-press processing. The underlying drivers behind this realignment are clear: brand owners require highly automated, smart manufacturing systems capable of reducing energy footprints while ensuring full compatibility with recyclable or bio-based flexible substrates.

The NDC Drupa Debut: Expanding Global Technical Perspectives

The participation of NDC Engineering & Manufacturing (Fujian) Co., Ltd at Drupa marks an intentional step in the company's long-term international engagement strategy. Established in 1998, the enterprise has evolved from a regional equipment supplier into an advanced developer of custom industrial coating machinery. By deploying its core technical and research teams directly to the exhibition floor in Düsseldorf, the organization established direct communication lines with global converters, raw material suppliers, and specialized process engineers.

The company's presentation area drew significant traffic from technical buyers focused on high-speed label stock production and technical textile lamination. Rather than presenting standard, rigid equipment frameworks, the technical team utilized the platform to discuss specific operational parameters, such as rheological behavior variations in modern adhesives and automated tension control under high mechanical stress. This collaborative approach facilitated deep technical exchanges with multiple multinational brands, establishing new benchmarks for cross-border equipment customization.

Translating Technology into [Sustainable Coating Solutions](#)

A primary objective of the presentation at Drupa was demonstrating how specific engineering choices directly support environmental compliance. The industrial shift away from solvent-based formulations due to rising VOC containment costs has accelerated demand for alternative application methods. As a highly specialized hot melt adhesive coating machine manufacturer, NDC addressed this need by showcasing its advanced machinery configurations designed for UV-curable hot melts and sophisticated water-based adhesive formulas.

The technical presentation highlighted several critical processing capabilities:

- **UV Silicone and Hot Melt Integration:**Advanced configurations allow the sequential application of solvent-free UV silicone release agents and hot melt pressure-sensitive adhesives (PSAs) in a continuous, single-pass inline process. This setup is particularly effective for linerless label production, eliminating the traditional matrix waste associated with standard carrier papers.
- **Micro-Precision Slot Die Technology:**For thin-film labels and delicate breathable membranes used in medical isolation garments, maintaining coat-weight uniformity is vital. The precision-machined slot die systems demonstrated consistent cross-web distribution, minimizing adhesive consumption while preventing thermal deformation of sensitive substrates.
- **Multi-Substrate Lamination:**The equipment exhibited precise multi-layer bonding capabilities, handling everything from porous nonwoven filter materials to dense, non-porous barrier films.

This versatile performance is highly relevant for industries producing baby diapers, medical underpads, and building waterproof membranes.

Agile R&D: Overcoming Modern Converter Challenges

The operational needs of modern converting plants vary widely based on regional material specifications and specific product designs. To remain competitive, equipment developers must adopt a highly responsive research and development model. The presence of NDC engineers at the exhibition allowed the company to collect real-time data regarding European and American market demands, which immediately informed ongoing design updates for its modular coating heads and unwinding stations.

This market-responsive approach underpins the company's broader transition from a traditional hardware supplier to an integrated provider of complete coating process solutions. Industrial operators no longer search solely for a robust mechanical frame; they require an optimized production system where the melting unit, slot die geometry, delivery hoses, and web-handling controls operate as a synchronized, digitally monitored unit. By focusing on in-house manufacturing—where over 70% of structural and functional machinery components are processed internally using high-precision German, Japanese, and Italian computer numerical control (CNC) systems—the manufacturer maintains strict control over structural tolerances, component longevity, and custom modification lead times.

Future Outlook: International Industrial Integration

The international visibility gained at Drupa reinforces the strategic position of the company within the global manufacturing landscape. Moving forward, the enterprise is accelerating the deployment of next-generation smart diagnostic systems and real-time coating thickness monitoring modules across its entire equipment lineup. This systematic focus on digital integration and adaptive mechanical design ensures that processing facilities can maintain optimal throughput even when switching between diverse, complex adhesive formulas and evolving sustainable backing materials.

The long-term development strategy centers on strengthening local technical support frameworks and deep-tier customization capabilities within mature Western markets. By participating in fundamental industry dialogues at events like Drupa, the company ensures its engineering roadmap aligns closely with emerging material sciences and evolving safety protocols. For global converters searching for reliable, high-value alternatives to traditional coating setups, NDC Engineering & Manufacturing (Fujian) Co., Ltd offers a combination of reliable machine precision, rapid delivery timelines, and flexible engineering configurations.

To explore detailed technical specifications of the slot die systems, UV integration modules, and custom laminating lines, please visit the official corporate website at <https://www.ndccn.com/>



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