

Adhesives and Adhesive-Appling Equipment: Technologies and Global Markets

Market Research Report | 2024-12-24 | 161 pages | BCC Research

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Report description:

Description

Report Scope

Adhesives and adhesive-applying equipment industries are vital in the ever-changing global economy, providing binding solutions for complex productions in numerous sectors. The function of adhesives and their associated equipment and machinery is to enhance the bonding of the substrates, giving them durability, strength and the ability to meet the requirements in different applications. The effective operation of adhesive equipment ensures consistency, precision and minimal wastage in the substrate surface bonding. Adhesive equipment therefore improves the end user's cost-effectiveness and assists in providing new opportunities in the adhesive market.

For this analysis, the global markets for adhesives and adhesive-applying equipment were segmented into:

- Adhesives: By curing technique (e.g., physically hardening, chemically curing, pressure sensitive); by technology (e.g., hot-melt adhesives, solvent-based adhesives, water-based adhesives, reactive adhesives); by chemicals (e.g., acrylic, cyanoacrylate, epoxy, polyurethane, silicone); by end use (e.g., packaging, transportation, building and construction, woodworking, consumer/do-it-yourself [DIY]).

- Adhesive-applying equipment: By type (e.g., auxiliary equipment, application process equipment, dispensing equipment, unloading equipment). By end user (e.g., packaging, transportation, building and construction, others).

The auxiliary equipment category is further segmented into robotics and automatic, web-handling, curing and other equipment.

The application process equipment category is further segmented into spray, dots and beads, wheel, brush and others. The dispensing equipment category is further segmented into hot-melt/dispense, meter mix and others. The unloading equipment category is further segmented into tubes and cartridges, drums, pails and totes, pallets, slats and bricks;

This report also covers the global adhesives and adhesive-applying equipment market's current dynamics, the strategies and trends driving the demand for adhesives, the key manufacturers of these products, recent environmental, social and governance (ESG) developments and a competitive landscape in which companies are operating within this market. A brief profile of the major global manufacturers in this market is also provided. The adhesives and adhesive-applying equipment market is also analyzed

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from international and regional perspectives to understand the industry's growth potential. The report segments the market by region into North America, Europe, Asia-Pacific and the Rest of the World (RoW).

This report provides market estimates and sizes in terms of value (\$ million). Market forecasts are given for 2024 through 2029, with 2023 serving as the base year. Regional-level market sizes with respect to segmentation are also provided.

Report Includes

- 119 data tables and 50 additional tables
- Analyses of the global market trends, with sales data for 2023, estimates for 2024, forecasts for 2025, and projections of compound annual growth rates (CAGRs) through 2029
- Estimates and forecasts for the market size for adhesives and adhesive-applying equipment based on technology, curing technique, chemical, end user and geographical region
- Discussion of the technologies involved in the manufacturing of different types of adhesives, including the value of such products produced and used globally as well as in different regions
- Analysis of the current market trends, and discussion of the technological and regulatory elements affecting the future market
- A discussion of ESG challenges and practices of the industry
- Coverage of mergers and acquisitions, partnerships, collaborations and joint ventures
- Profiles of the leading companies, including Henkel AG & Co. KGaA, H.B. Fuller CO., Dow, Arkema, and Sika AG

Executive Summary

Summary:

The adhesive and adhesive-applying equipment market has grown considerably in recent years, driven by the increasing demand for binding and joining materials across various end-use industries. The packaging, automotive, consumer goods and construction industries have significantly contributed to the growth of the adhesive and adhesive-applying equipment market. Dots and beads, spray and web coating, which are classified under application process adhesive equipment, are widely used in packaging, labeling, automotive and construction applications in which high-strength and durable bonds are required. The market has witnessed a significant shift toward robotics and automation, with major manufacturers such as Nordson and Graco introducing robotics and automation dispensing systems. In electronics, companies such as DELO are developing ultra-precise dispensing systems capable of handling adhesive as small as 100 micrometers to 200 micrometers for microelectronics assembly.

Growing adhesive technologies and the rising preference for lightweight, strong bonding materials are also driving the market. In the automotive sector, adhesives are among the most common replacements for mechanical fasteners, effectively helping manufacturers to reduce the weight of vehicles while allowing more straightforward binding and joining of parts and accessories. The packaging industry remains a significant market for adhesives, particularly with the growth of e-commerce. Hot-melt adhesives are in demand and supplied by many companies, especially H.B. Fuller, which supplies special products that enhance packaging and elevate the bonding durability of the surface.

Due to the growing uptrend for sustainable products, the adhesive industry has witnessed significant trends shaping the market's growth. Companies such as Henkel, Jowat, H.B. Fuller Co. and Arkema (Bostik) offer a line of bio-based adhesive products that will help to reduce environmental impact and replace traditional chemical adhesives. Incorporating water-based adhesives for binding surfaces enhances the strong bonding properties and reduces or eliminates the emissions of harmful gases formed by chemical adhesives.

The regions making up the adhesives and adhesive-applying equipment market are North America, Asia-Pacific, Europe and the Rest of the World. In 2023, the adhesives market is anticipated to grow due to the increase in end-user applications. Stringent environmental regulations, however, are among the few challenges that may limit the market's growth. The adhesives-applying

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equipment is expected to grow due to the growing global demand for adhesives. The initial capital investment and ever-changing adhesive characteristics and types, however, may hamper market growth. The Asia-Pacific region dominated the adhesives and adhesive-applying equipment market. Major contributors to this market include China and the U.S., as these countries are among the top manufacturers and exporters of automotive, building, construction, electronics and packaged goods.

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DOW
GLUE MACHINERY CORP.
GRACO INC.
H.B. FULLER CO.
HENKEL AG & CO. KGAA
ITW DYNATEC
NORDSON CORP.
ROBATECH AG
SIKA AG
VALCO MELTON
WACKER CHEMIE AG

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