

Adhesive Equipment Advances with Smart Dispensing, Collaborative Robotics, and Eco Friendly Systems | DataMIntelligence

Adhesive equipment evolves with automation, IoT, and eco-friendly UV/EB & hot-melt systems, boosting efficiency in automotive, electronics, and packaging.

MISSOURI, MO, UNITED STATES, July 30, 2025 /EINPresswire.com/ -- Adhesive equipment Market is fueled by growing demand for precision dispensing in automotive, electronics, packaging, and construction industries; increasing adoption of lightweight composite materials; and the need for efficient, high speed production lines.

Advanced bonding techniques such as

Adhesive
Equipment Market

U\$\$ 23.6 billion in 2024

U\$\$ 32.0 billion by 2032

CAGR of 6.2%

Adhesive Equipment Market

UV-curing, hot melt, and 2K metering systems are enhancing product performance, reducing waste, and shortening cycle times. Applications include structural bonding in electric vehicles, micro dispensing of conductive adhesives for wearable electronics, high volume sealing in consumer packaging, and advanced composite assembly in wind turbine blades. As



Precision dispensing equipment combining robotics, real time monitoring, and eco friendly curing has become the backbone of modern manufacturing, driving efficiency and sustainability"

DataM Intelligence

manufacturers pursue automation and sustainability goals, integrated dispensing robotics with IoT connectivity and closed loop quality monitoring are driving equipment upgrades, enabling real time process control and predictive maintenance across diverse production environments. The Adhesive Equipment Market reached US\$\Bigsq23.6\Bigsqbillion in 2024 and is projected to expand at a CAGR of 6.2% through 2031, targeting approximately US\$\Bigsq32.0\Bigsqbillion by 2032.

Download Latest Sample Report Pdf:https://www.datamintelligence.com/downloadsample/adhesive-equipment-market Adhesive equipment Market Recent Key Developments and Technological Advancements:-

July 2025 – Nordson Corporation launched its new AutoJet® 2650+ spray system with enhanced electrostatic atomization, delivering up to 30% better coating uniformity for thin□film adhesives in electronics manufacturing.

June 2025 – Henkel introduced a collaborative robot (cobot) dispensing cell featuring its latest Loctite® 2K adhesives, offering plugandaplay integration and realatime viscosity monitoring for smallabatch and prototype lines.

May 2025 – 3M unveiled the Accuspray AB1000 automatic bead applicator, featuring automated width adjustment and closed loop flow control for consistent sealant application in automotive seam sealing.

April 2025 – Valco Melton released its VisionXpert™ system, embedding machine □vision sensors into adhesive heads to verify bead placement and dimension within ±0.1 □mm, reducing rework and waste in plastic assembly.

Adhesive equipment Market Acquisitions and Mergers:-

In Q2025, ITW Dynatech acquired Adhesive & Equipment, expanding its portfolio in precision microddispensing for medical device and semiconductor packaging applications.

Robatech finalized the purchase of a European nozzle □design specialist in June 2025, enabling in □house development of anti □string and anti □drip dispensing tips for high □throughput industries.

Dymax Corporation formed a strategic alliance with Dispensing Limited in May 2025, combining Dymax's UV\(\text{\text{\text{UV}}\)}\) curable adhesives with Dispensing Limited's automated dosing platforms to target flat\(\text{\text{\text{\text{panel}}}}\) and optical bonding markets.

Adhesive equipment Market Opportunities:-

Electric Vehicles & Composites: Growing EV production drives demand for automated adhesive dispensing systems capable of handling structural epoxy and silicone adhesives for lightweight composite bonding.

Smart Manufacturing & Industry 4.0: Integration of IoT sensors, predictive analytics, and cloud based process monitoring creates opportunities for retrofit solutions and digital service offerings.

In the healthcare and medical devices sector, the precise micro-dispensing of biocompatible

adhesives and sealants is emerging as a rapidly growing niche, particularly in applications such as implantable devices and point-of-care diagnostics.

Sustainable Packaging: Water based and hot melt adhesive equipment that reduce VOC emissions align with environmental regulations, driving upgrades in food and beverage lines.

Aerospace Assembly: High temperature resistant dispensing systems for structural adhesives in aircraft interiors and engine composites require specialized metering and mixing units, representing a high-margin segment.

Adhesive equipment Market Key Players are :-

Henkel
Hernon Manufacturing Inc.
ITW Dynatech
3M
Dispensing Limited
Nordson Corporation
Valco Melton
Adhesive & Equipment
Robatech
Dymax Corporation

Adhesive equipment Market Segmentation:-

By Technology

Hot ☐ Melt Adhesive Systems; UV/EB Curing Equipment; 1K & 2K Metering Machines; Spray & Bead Applicators

By Automation

Level Manual Dispensing; Semi

Automatic Systems; Fully Automated Robotic Cells

By Application

Structural Bonding; Sealing & Gasketing; Electronic Potting; Micro Dispensing; Packaging Sealing

By End Use

Industry Automotive & EV; Electronics & Semiconductors; Packaging; Medical & Healthcare; Aerospace; Construction

By Region

North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Latest News - USA

In July 2025, the U.S. Department of Energy awarded a grant to 3M and ITW Dynatech to develop energy efficient hot melt extruders for large scale palletizing operations. In June 2025, Nordson Corporation opened a new automation center in Detroit, focusing on integrating its AutoJet systems into smart factory applications for the automotive supply chain. In May 2025, Henkel announced expansion of its Irvine, California, technical laboratory to support UV curing adhesive trials for semiconductor packaging.

Latest News - Japan

In July 2025, Dispensing Limited partnered with Toyota Motor Corporation to pilot collaborative dispensing robots for structural adhesive bonding in EV battery packs. In June 2025, Robatech inaugurated its first Asia Pacific R&D hub in Osaka, Japan, focusing on nozzle innovation for precision optical adhesives. In April 2025, Dymax Corporation and Sony Semiconductor coll developed a micro dispensing system for under fill and die attach applications in Japan's advanced image sensor fabrication lines.

Conclusion

The adhesive equipment market is evolving rapidly as end use industries seek faster throughput, higher precision, and lower environmental impact in bonding and sealing operations. Technological advancements spanning smart metering, vision guided dispensing, and collaborative robotics—are enabling next generation manufacturing lines in automotive, electronics, healthcare, and packaging. Strategic acquisitions and partnerships are consolidating specialized nozzle, metering, and curing expertise, while Industry 4.0 integration opens avenues for digital services and predictive maintenance. As sustainability imperatives drive the shift toward water based and energy efficient adhesive processes, equipment suppliers that offer flexible, connected, and eco friendly solutions will capture the greatest growth through 2031.

Unlock 360° Market Intelligence with DataM Subscription Services: https://www.datamintelligence.com/reports-subscription

Power your decisions with real-time competitor tracking, strategic forecasts, and global investment insights all in one place.

Competitive	Lanc	Iscap	oe -	
Sustainability	/ Imp	act /	Analy	/sis

☐ KOL / Stakeholder Insights			
☐ Unmet Needs & Dositioning, Pricing & Dosit			
☐ Market Volatility & Description of the Market Volatili			
□ Quarterly Industry Report Updated			
☐ Live Market & Dricing Trends			
□ Import-Export Data Monitoring			
☐ Consumer Behavior & Demand Analysis			
Have a look at our Subscription Dashboard:			
https://www.youtube.com/watch?v=x5oEiqEqTWg			
Browse related reports -			
Adhesive Tapes Market			

Adhesive Resin Market

Sai Kumar
DataM Intelligence 4market Research LLP
+1 877-441-4866
email us here
Visit us on social media:
LinkedIn
X

This press release can be viewed online at: https://www.einpresswire.com/article/835428169

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.

© 1995-2025 Newsmatics Inc. All Right Reserved.