Robot Self-Piercing Rivet Cells Market to Reach $2.39 Billion by 2029 with 11.3% CAGR

The Business Research Company's Robot Self-Piercing Rivet Cells Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

Robot Self-Piercing Rivet Cells Global Market Report 2025

LONDON, GREATER LONDON, UNITED KINGDOM, December 3, 2025 /EINPresswire.com/ -- "Get 20% Off All Global Market Reports With Code ONLINE20 – Stay Ahead Of Trade Shifts, Macroeconomic Trends, And Industry Disruptors

What Is The Robot Self-Piercing Rivet Cells Market Size And Growth?
The market size for robot self-piercing rivet cells has witnessed substantial growth in the past few years. The market is anticipated to expand from $1.40 billion in 2024 to $1.56 billion in 2025, representing a compound annual growth rate (CAGR) of 11.7%. Factors driving this growth include a surge in adoption of lightweight aluminum body structures, an escalation in the manufacture of electric vehicles, a growing demand for enhanced fuel economy and emission reduction, the proliferation of mixed-material vehicle architectures, and a rising need for dependable cold-joining methods over traditional welding.

> Get 20% Off All Global Market Reports With Code ONLINE20 – Stay Ahead Of Trade Shifts, Macroeconomic Trends, And Industry Disruptors"
>
> *The Business Research Company*

The market for robot self-piercing rivet cells is predicted to witness a significant expansion in the coming years, escalating to a worth of $2.40 billion by 2029, at a compound annual growth rate (CAGR) of 11.3%. Multiple factors such as rising manufacturing volumes of electrification and battery packs, increased focus on vehicle emissions and recyclability regulations, growing requirement for multi-material and composite joining solutions, increased production of autonomous and luxury vehicles, and a higher investment in Industry 4.0 and smart factory integration are all attributing to the market's growth in the forecast period. Moreover, the upcoming trends in the forecast period would include improvements in servo-electric actuator enhancing energy efficiency and control, advancements in in-line vision and real-time quality

inspection, introduction of coated and engineered rivets for different materials, investments in research and development for hybrid joining methods, and the rise of modular flexible robot self-piercing rivet cells.

Download a free sample of the robot self-piercing rivet cells market report:
https://www.thebusinessresearchcompany.com/sample.aspx?id=29966&type=smp

What Are The Current Leading Growth Drivers For Robot Self-Piercing Rivet Cells Market?
The increasing popularity of electric vehicles (EVs) is predicted to stimulate the expansion of the robot self-piercing rivet cells market in the future. This surge in demand is largely driven by stricter emission targets set by various governments and purchase incentives, both of which speed up the adoption and market penetration of EVs. Robot self-piercing rivet cells offer high-speed, consistent and accurate joining for multilayer and mixed-material assemblies, beneficial for manufacturers to increase electric vehicle body production and achieve lightweighting goals. For example, in 2024, as per the International Energy Agency, an intergovernmental energy organization, electric cars constituted roughly 18% of all car sales in 2023, up from 14% in 2022. Hence, the escalating demand for electric vehicles is bolstering the robot self-piercing rivet cells market's growth.

Which Companies Are Currently Leading In The Robot Self-Piercing Rivet Cells Market?
Major players in the Robot Self-Piercing Rivet Cells Global Market Report 2025 include:
• ABB Ltd.
• Atlas Copco AB
• Autoriv GmbH
• FANUC Corporation
• Yaskawa Electric Corporation
• Böllhoff GmbH & Co. KG
• Stanley Black & Decker Inc.
• GESIPA Blindniettechnik GmbH
• Suzhou Kiande Electric Co. Ltd.
• Eckold GmbH & Co. KG

What Are The Key Trends And Market Opportunities In The Robot Self-Piercing Rivet Cells Sector?
Key players in the robot self-piercing rivet cells industry are focusing on technology advances, like automated riveting cells featuring integrated robot systems and smart control platforms, to boost fastening accuracy, production adaptability, and operational performance. Automated riveting cells are completely automatic robot systems designed to apply self-drilling rivets or inserts into composite or metal parts without human intervention. These systems blend advanced motion management, adaptive force monitoring, and automatic feed mechanisms to ensure high-speed and consistent joining performance across intricate geometries. For example, in January 2025, Belotti SpA, an industrial automation company based in Italy, showcased the Automatic Riveting Cell (ARC) at JEC World 2025, a top international composites event. The ARC

from Belotti is a robotic riveting platform that can machine and join composite frames and components used in the automotive and aerospace industries, delivering improved accuracy, lower cycle durations, and live demonstrations of its cutting-edge robotic performance.

How Is The Robot Self-Piercing Rivet Cells Market Segmented?
The robot self-piercing rivet cells market covered in this report is segmented –
1) By Component: Robots, Riveting Tools, Control Systems, Safety Systems, Other Components
2) By Cell Type: Standalone Cells, Integrated Cells
3) By Application: Automotive, Aerospace, Electronics, Construction, Other Applications
4) By End-User: Original Equipment Manufacturer (OEMs), Tier 1 Suppliers, Contract Manufacturers, Other End-Users

Subsegments:
1) By Robots: Articulated Robots, SCARA Robots, Cartesian Robots, Collaborative Robots (Cobots), Gantry Robots
2) By Riveting Tools: Hydraulic Riveting Tools, Pneumatic Riveting Tools, Electric Riveting Tools, Servo-Driven Riveting Tools, Portable Riveting Heads
3) By Control Systems: Programmable Logic Controllers (PLC), Human Machine Interface (HMI), Motion Control Systems, Vision Systems, Feedback and Sensor Modules
4) By Safety Systems: Safety Light Curtains, Emergency Stop Systems, Safety Mats And Barriers, Interlock Switches, Safety Controllers
5) By Other Components: Tool Changers, End Effectors, Fixtures And Positioners, Conveyors And Material Handling Units, Power Supply And Cabling Assemblies

View the full robot self-piercing rivet cells market report:
https://www.thebusinessresearchcompany.com/report/robot-self-piercing-rivet-cells-global-market-report

Which Is The Dominating Region For The Robot Self-Piercing Rivet Cells Market?
For the year specified in the Robot Self-Piercing Rivet Cells Global Market Report 2025, North America stood as the predominant region. It is anticipated that Asia-Pacific will exhibit the most rapid growth in the ensuing forecast period. The report encompasses a broad geographic spectrum, incorporating regions such as Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

Browse Through More Reports Similar to the Global Robot Self-Piercing Rivet Cells Market 2025, By The Business Research Company

Wound Closure Devices Global Market Report 2025
https://www.thebusinessresearchcompany.com/report/wound-closure-devices-global-market-report

Robotic Surgery Devices Global Market Report 2025

https://www.thebusinessresearchcompany.com/report/robotic-surgery-devices-global-market-report

Surgical Stapling Devices Global Market Report 2025
https://www.thebusinessresearchcompany.com/report/surgical-stapling-devices-global-market-report

Speak With Our Expert:
Saumya Sahay
Americas +1 310-496-7795
Asia +44 7882 955267 & +91 8897263534
Europe +44 7882 955267
Email: saumyas@tbrc.info
The Business Research Company - www.thebusinessresearchcompany.com

Follow Us On:
• LinkedIn: https://in.linkedin.com/company/the-business-research-company"

Oliver Guirdham
The Business Research Company
+44 7882 955267
info@tbrc.info
Visit us on social media:
LinkedIn
Facebook
X
