

Europe Antistatic Brushes Market Forecast to 2030 – COVID-19 Impact and Regional Analysis – by Filament Material (Nylon, Stainless Steel, Brass, Aluminum, Carbon Fiber, and Others), Brush Type (Tufted Strip and Plate Brushes, Disk Brushes, Cylindrical Brushes, and Others), and Application (Automotive, Metalworking, Electronics, Industrial Machinery, and Others)

<https://marketpublishers.com/r/E252B508B576EN.html>

Date: August 2023

Pages: 107

Price: US\$ 3,000.00 (Single User License)

ID: E252B508B576EN

Abstracts

The Europe antistatic brushes market is expected to grow from US\$ 54.07 million in 2022 to US\$ 70.23 million by 2028. It is estimated to grow at a CAGR of 4.5% from 2022 to 2028.

Increasing Automation and Industry 4.0 Implementation in Industrial Sector Drives Europe Antistatic Brushes Market

According to the World Economic Forum, robots would replace humans in 50% of work tasks by 2025. These industries require precise assembly processes that often involve delicate electronic components —such as printed circuit boards, integrated circuits, and sensitive sensors, which are highly susceptible to electrostatic discharge damage.

Thus, the implementation of automation technologies results in a need to integrate effective static control measures within the automated systems. Antistatic brushes are specially designed tools that help dissipate static charges and minimize ESD risk. They typically feature conductive materials (such as carbon fibers or metal filaments) integrated into their bristles. When brushes come into contact with the surface of

electronic components or assembly lines, they help neutralize or divert static charges, preventing the accumulation of electrical potential differences. These brushes can be integrated into automated machinery, production lines, or robots to ensure continuous static control and remove contaminants from the surface of components or conveyor belts during manufacturing.

Industry 4.0 facilitates the production of smaller, more delicate electronic components with higher sensitivity to static electricity. It involves the integration of advanced automation technologies, such as robotics, IoT devices, and smart manufacturing systems. Countries such as the US, Sweden, Singapore, and Japan have been harnessing Industry 4.0 to grab significant growth opportunities. In Sweden, initiatives such as 'Smart Industry Sweden' and 'Smart Production' focus on digitalization, automation, and AI in manufacturing processes. In October 2021, the Government of the UK launched the National AI Strategy, which outlines its plan for turning the UK into a global AI powerhouse in the next 10 years. Automated systems handle various components, materials, and products, which increases the potential for static charge accumulation. The modernization of manufacturing processes with the growth trend of miniaturization is associated with the increased risk of ESD-induced damage. Thus, an upsurge in investments, and emphasis on digitalization and technological advancements on a global scale drive the demand for antistatic brushes in the manufacturing industry.

Europe Antistatic Brushes Market Overview

Europe antistatic brushes market is segmented into countries such as Germany, France, Italy, the UK, Russia, and the Rest of Europe. The growing automotive, electronic, and metalworking industries in the region are boosting the Europe antistatic brushes market growth. Led by Irish University College Cork (UCC), has been awarded US\$ 9.5 million to develop the next phase of Europe's strategically important artificial intelligence infrastructure known as the AI-on-demand (AIOD) platform through the Horizon Europe Programme (Artificial Intelligence and Robotics) and the AI4Europe project. The consortium led by UCC includes 23 partners from 14 other European countries: Belgium, Finland, France, Germany, Greece, Italy, the Netherlands, Norway, Portugal, Romania, Slovakia, Slovenia, Spain, and Sweden. The European Commission plans to invest US\$ 1.1 billion per year in AI, targeting an annual investment of US\$ 21 billion by 2028, collecting additional investments from the private sector and the Member States. As part of digital transformation initiatives, the increase in demand for AI platforms and applications in Europe is expected to influence the Europe antistatic brushes market positively. Furthermore, in April 2023, the European Council and the

European Parliament agreed to invest US\$ 3.6 billion in European Union funds to attract a further US\$ 43.7 billion in private investment to build Europe's semiconductor manufacturing capabilities. Like the US, Europe is growing with a fast-changing semiconductor marketplace as governments worldwide increasingly adopt more restrictive policies on importing and using chips from overseas. Antistatic brushes are widely used to eliminate static electricity and dust in semiconductors. The growing automotive industry in the region is boosting the antistatic brushes growth. The automobile industry is one of the most rapidly growing and most important industries in the European economy. According to the European Commission (EU), Europe is among the world's largest producers of motor vehicles. The automobile industry employs 13.8 million Europeans directly and indirectly, accounting for 6.1% of overall employment in the EU. According to the International Organization of Motor Vehicle Manufacturers (OICA), the EU produced 13.0 million vehicles in 2021.

Europe Antistatic Brushes Market Revenue and Forecast to 2028 (US\$ Million)

Europe Antistatic Brushes Market Segmentation

The Europe antistatic brushes market is segmented into filament material, brush type, application, and country.

Based on filament material, the Europe antistatic brushes market is segmented into nylon, stainless steel, brass, aluminum, carbon fiber, and others. In 2022, the others segment registered a largest share in the Europe antistatic brushes market.

Based on brush type, the Europe antistatic brushes market is segmented into tufted strip and plate brushes, disk brushes, cylindrical brushes, and others. In 2022, the tufted strip and plate brushes segment registered a largest share in the Europe antistatic brushes market.

Based on application, the Europe antistatic brushes market is segmented into automotive, metalworking, electronics, industrial machinery, and others. In 2022, the industrial machinery segment registered a largest share in the Europe antistatic brushes market.

Based on country, the Europe antistatic brushes market is segmented into Germany, France, Italy, the UK, Russia, and the Rest of Europe. In 2022, Germany segment registered a largest share in the Europe antistatic brushes market.

Gordon Brush Mfg Co Inc; KIST + ESCHERICH GmbH; KOTI Industrial & Technical Brushes BV; and Ultrafab Inc are the leading companies operating in the Europe antistatic brushes market.

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