

Global SMT Selective Soldering System Market Outlook to 2027

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Abstracts

Surface mount soldering creates circuits using surface mount technology components mounted directly onto the surface of printed circuit boards (PCBs). SMT technology is a crucial driver of the miniaturization of circuits, allowing for smaller, lighter devices with ever-increasing capabilities. According to MarketStack Reports, the SMT Selective Soldering System market is expected to grow at a high growth rate CAGR during the forecast period. The Market for SMT Selective Soldering System was driven due to economic development, increasing urbanization, and industrialization globally. Further increasing demands from the electronic, automotive, telecommunication industries are likely to drive the use of SMT Selective Soldering Systems. However, the negative effect of the COVID-19 pandemic, the high cost of selective soldering, and the creation of a new program for each circuit board for soldering are likely to obstruct the Market's growth. The ongoing R&D to improve the quality of SMT Selective Soldering System and make them more compliant with the ever-changing regulations is likely to act as an opportunity in the coming years.

In the year 2019, the global automotive industry recorded 91.7 million vehicles, and electronic vehicles accounted for around 2.6% of the total global car sales. However, the automotive market declined by 5% from the previous year and is further expected to decrease due to the ongoing global pandemic. Several countries have taken significant steps towards a cleaner future in 2020. Norway is by far the country with the highest share of electric cars in total passenger car sales. Asia-Pacific is the highest vehicle producing region in the world. China is the largest automotive manufacturing country globally, with around 29% of the total global share in 2019. According to the China Association of Automobile Manufacturers (CAAM), sales of battery electric vehicles (BEV) and plug-in hybrids (PHEV) amounted to 1 and 0.25 million in 2020. Ambitious policy announcements at the global level have been critical in stimulating the electric-

vehicle rollout in recent years. In 2019, indications of a continuing shift from direct subsidies to structural measures that include zero-emission vehicle mandates and various fuel economy standards – have set clear, long-term signals to the auto industry and consumers that support the transition in an economically sustainable manner for governments.

Electric vehicles play a key role in the reduced air pollution in highly populated areas, and they are a promising option to contribute to energy diversification and greenhouse gas emissions reduction. Till date, 17 countries have announced 100% zero-emission vehicle targets or the phase-out of internal combustion engine (ICE) vehicles through 2050. France, in December 2019, was the first country to put this intention into law, with a 2040 timeframe. In 2019, electric vehicles that are in operation globally avoided the consumption of approximately 0.6 million barrels of oil products per day. In 2030, if the stated policy scenario is followed, the electric vehicle fleet is likely to displace around 2.5 million barrels per day of oil products. In the Sustainable Development Scenario, it is likely to displace 4.2 million barrels per day of gasoline and diesel. In 2021, Ford announced a USD 1 billion electrification investment for Europe, with the goal of making its entire passenger-car line up in that market all-electric by 2030. The money will be used by the company for electric vehicle production. Ford is planning to roll out its first volume electric car for European customers in 2023. The Global SMT Selective Soldering market is likely to remain significant owing to the demand for electric vehicles in the near future.

Consumer electronics are electronic equipment that is intended for everyday use, typically in private homes. Consumer electronics include devices used for entertainment, communications, and recreation and are usually referred to as black goods. Due to the rapid increase in the use of printed circuit boards in the consumer electronics sector such as smartphones, tablets, and computers, Liquid Crystal Display (LCD), and Light Emitting Diode (LED), among others have led to the increased use of SMT selective soldering as it offers far more electronics components to be packed into a much smaller space as compared to traditional methods. During the onset of the Pandemic phase, the most basic need was for continuity of work and education. Webcam's volume sales surged by 297%, Monitors by 120%, and Notebooks and computing tablets by 62% across France, Germany, Italy, Spain, and Great Britain. This trend continued even post-lockdown. Gaming notebooks witnessed strong sales of an estimated 55%, and gaming monitors were up 62% in the first half of 2020. However, TV sales slumped during the weeks of lockdown but returned to strong positive growth during the Revenge Shopping phase. Overall, the TV market declined by 7% in value and one of the reasons being that TV is considered a big-ticket purchase.

United States is one of the largest markets for consumer electronics and generated and wholesale revenue of approximately USD 301 billion in 2019. Again in 2019, smartphones worth USD 77.5 billion were sold. The demand for smartphones further increased in 2020 due to the pandemic as people started to attend their classes, offices from home, which increased the demand for SMT selective soldering systems in the manufacturing of smartphones. In 2019, in the Aerospace and Defence industry, the total exports accounted for USD 148.1 billion, and the imports accounted for USD 68.7 billion. The U.S. Aerospace & Defence (A & A&D) industry is the global leader in the design, Research, development, and manufacturing of technologically advanced aircraft, space systems, and defense capabilities, with France, United Kingdom, Germany, China being their top export destination. The COVID-19 pandemic and the lockdowns led to the civil aviation sector's temporary shutdown, which led to the reduction of more than 95% reduction in revenue passenger miles and a revenue loss of USD 400 billion is expected. However, the aviation sector demand may return to 2019 levels in the next five years.

In 2020, Kurtz Ersa Inc., a leading supplier of electronics production equipment, launched EXOS 10/26, a convection reflow soldering system. Ersa's EXOS 10/26 offers 22 heating and four cooling zones as well as a heated vacuum chamber to remove voids in the solder contact areas between components and PCB surfaces.

In 2020, Thermaltronics launched the TMT-R9900S robot solder system that functions as an inline production system and is fully equipped with full vision to verify the procedure being undertaken and not simply follow a pre-determined program.

Our SMT Selective Soldering System Market research report provides deep insight into the current and future state of the global SMT Selective Soldering System market across various regions. Also, the study comprehensively analyzes the SMT Selective Soldering System by segments based on type (Offline Selective Soldering System; Inline Selective Soldering System), By Distribution Channel (Automotive, Medical, Telecommunication, Aerospace and Defence, Consumer Electronics and Others) and, by Geography (Asia Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints, along with the impact of Covid-19 are influencing the market growth in detail. The study covers & includes emerging market trend, market estimate, market developments, market opportunities, SMT Selective Soldering System market size, SMT Selective Soldering System sales, market analysis, market revenue, market dynamics, and challenges in the industry. This report also covers extensively

researched competitive landscape sections with profiles of major companies, including their market share/rankings and projects.

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etitive Landscape

of Notable Players in the Market

A, JV, and Agreements

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