

Middle East Shot Peening Machines Market Size and Forecast (2021 - 2031)

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Abstracts

The Middle East Shot Peening Machines Market is projected to grow significantly, reaching an estimated US\$ 38.2 million by 2031, up from US\$ 29.5 million in 2024. This growth represents a compound annual growth rate (CAGR) of 3.8% from 2025 to 2031.

Executive Summary and Market Analysis

The shot peening machines market in the Middle East is divided into several key regions, including Saudi Arabia, the UAE, Kuwait, Qatar, and the Rest of the Middle East. The market is experiencing notable expansion, primarily driven by the increasing activity in the automotive, aviation, energy, and oil and gas sectors within the region. Notably, Saudi Arabia and the UAE are expected to capture substantial market shares during the forecast period.

Government investments and the growth of the manufacturing industry are significant factors propelling the demand for shot peening machines. Saudi Arabia has emerged as a leading automotive market in the Middle East, with the government implementing various initiatives to bolster the automotive manufacturing sector. For instance, the country aims to produce over 400,000 passenger vehicles by 2030. In September 2023, Lucid Group announced plans to establish the first vehicle manufacturing facility in Saudi Arabia, supported by the Saudi Industrial Development Fund (SIDF), the Ministry of Investment of Saudi Arabia (MISA), and the Economic City at King Abdullah Economic City (KAEC).

Similarly, the UAE government's investments in the aerospace sector have led to significant contracts for aerospace companies. A notable example is the December 2024 contract between EDGE Group and Airbus Atlantic for the manufacturing of

metallic components for ATR aircraft in the UAE. Such government initiatives in both Saudi Arabia and the UAE are driving the demand for surface treatment tools, which in turn supports the growth of the shot peening machines market in the region.

Strategic Insights

Market Segmentation Analysis

The Middle East Shot Peening Machines Market can be segmented based on media type, application, and space:

By Media: The market is segmented into Steel Shots, Ceramic Shots, Glass Beads, and Cut Wire Shots, with Steel Shots holding the largest market share in 2024.

By Application: The market is divided into Space, Aviation, MedTech, Transportation, and Others, where the Others category held the largest share in 2024.

By Space: The market is categorized into Manufacturing and Maintenance, Repair, and Overhaul (MRO), with MRO leading in market share in 2024.

By Aviation: The aviation segment is also split into Manufacturing and MRO, with Manufacturing dominating in 2024.

Market Outlook

The adoption of advanced technologies such as artificial intelligence (AI) and robotics is transforming the surface treatment industry, including shot peening. These technologies enhance the shot peening process, making it more intelligent and adaptable. Robotic shot peening systems integrate traditional techniques with advanced robotic arms and programmable systems, allowing for precise control over the peening process. This precision is crucial for critical industrial components like rotary blades and gears.

Modern robotic systems equipped with AI and machine learning capabilities can collect real-time data on peening intensity and coverage, enabling real-time adjustments to optimize the process. By analyzing historical data, these systems can fine-tune parameters such as media throw, intensity, and exposure time, thereby minimizing

defects and ensuring high-quality components. The increasing adoption of such advanced shot peening systems across industries like automotive, shipbuilding, and manufacturing is a key trend shaping the future of the market.

Country Insights

The Middle East Shot Peening Machines Market is further segmented by country, including Kuwait, Saudi Arabia, the UAE, Qatar, and the Rest of the Middle East. Saudi Arabia is the largest market in 2024, driven by its robust economy and significant manufacturing sector, which contributes approximately 13% to the national GDP.

The manufacturing sector in Saudi Arabia has seen substantial growth in recent years, with a reported 10% increase in the number of industrial units in 2023, totaling 11,549. This growth is largely attributed to government investments aimed at developing the manufacturing sector, including a US\$ 2.66 billion allocation for the Standard Incentives Program. The expansion of manufacturing is leading to increased demand for surface treatment tools like shot peening machines, particularly as the aviation OEM and MRO industries continue to grow.

Saudi Arabia's aviation sector has been recognized as a significant player globally, with ongoing efforts to enhance its capabilities. The country's flagship airline, Saudia, has experienced a year-on-year increase in passenger numbers, necessitating the procurement of new aircraft and subsequent maintenance services, further driving the demand for shot peening machines.

Company Profiles

Key players in the Middle East Shot Peening Machines Market include Rösler Oberflächentechnik GmbH, Pangborn, Goff Inc., Guyson Corporation, COGEM EUROPE SRL, Wheelabrator Group, SINTOKOGIO, LTD, Norblast S.r.l, QINGDAO QINGGONG MACHINERY CO., LTD., Engineered Abrasives, Innovative Peening Systems, and OSK-Kiefer GmbH. These companies are pursuing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their market presence and offer innovative solutions to consumers.

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