

Middle East & Africa Flanges Market Size and Forecast (2021 - 2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Type (Weld Neck, Slip-On, Socket Weld, Lap Joint, Blind, and Others), Material (Stainless Steel, Carbon Steel, Alloy Steel, and Others), and Industry (Oil & Gas, Chemical & Petrochemical, Power Generation, Manufacturing, Water Management, Food & Beverages, Others)

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Abstracts

The flanges market in the Middle East and Africa is projected to grow significantly, with an expected market size of approximately US\$ 530.28 million by 2031, up from US\$ 395.01 million in 2023. This growth represents a compound annual growth rate (CAGR) of 3.8% from 2023 to 2031.

Executive Summary and Market Analysis

The Middle East is recognized for its substantial natural gas production potential, primarily due to the vast gas fields located in the Arabian Iranian basin. The region's abundant natural gas reserves, coupled with an increasing demand for gas across various applications, are driving the expansion of oil and gas pipeline infrastructure. This, in turn, is broadening the application scope for flanges. The demand for flanges is further amplified by offshore oil drilling activities. For example, in January 2023, Masirah Oil, a subsidiary of Singapore-based Rex International, completed an offshore drilling campaign in Oman's Block 50. Additionally, in October 2023, KCA Deutag unveiled its first locally manufactured rig in Oman, marking a significant milestone in the region's

drilling capabilities.

Government initiatives and rising investments in water management projects are also contributing to the growth of the flanges market in the Middle East and Africa. In 2023, a collaboration between Metito, Orascom Construction, and Hassan Allam led to the development of an agricultural wastewater treatment plant in El Hammam, North Coast, with a capacity of 7.5 million cubic meters of water per day. Such developments in water and wastewater management facilities are expected to further stimulate the flanges market in the region over the forecast period.

Market Segmentation Analysis

The Middle East and Africa flanges market can be segmented based on type, material, and industry.

Type: The market is divided into several types of flanges, including weld neck, slip-on, socket weld, lap joint, blind, and others. In 2023, weld neck flanges held the largest market share.

Material: The flanges market is categorized by material into stainless steel, carbon steel, alloy steel, and others. Alloy steel flanges dominated the market in 2023.

Industry: The market is segmented into various industries such as oil and gas, chemical and petrochemical, power generation, manufacturing, water management, food and beverages, and others. The oil and gas sector accounted for the largest share of the market in 2023.

Market Outlook

Flange manufacturers globally are investing in research and development to enhance the performance and durability of their products. Innovations in flange materials, including carbon steel, stainless steel, and alloy steel, have improved their resistance to corrosion, temperature, and pressure, ensuring longevity and reliability under challenging conditions. Additionally, there is a growing emphasis on energy efficiency and reducing environmental impact, which is driving demand for flanges designed for high energy efficiency. Flanges with optimized sealing features can significantly reduce leakage, leading to energy savings.

Manufacturers are also focusing on designing flanges that minimize pressure drops, thereby improving overall system efficiency. The integration of digital technologies, such as the Internet of Things (IoT) and cloud computing, is beginning to positively influence the flanges market. By incorporating sensors and real-time monitoring, the performance of flanges can be continuously tracked, facilitating predictive maintenance and minimizing downtime. Digitalization also enhances inventory management and supply chain optimization. Furthermore, advancements in manufacturing technologies, including computer numerical control (CNC) machining, 3D printing, automation, robotics, and machine learning, are expected to be key trends in the flanges manufacturing sector in the coming years. These innovations are anticipated to drive market growth in the near future.

Country Insights

The flanges market in the Middle East and Africa includes key countries such as South Africa, Saudi Arabia, the UAE, and the broader region known as the Rest of Middle East & Africa. In 2023, the Rest of Middle East & Africa held the largest market share. Major countries in this segment include Qatar, Nigeria, Oman, Iran, Bahrain, Kuwait, Turkey, and Egypt. The increasing offshore gas field activities aimed at discovering new locations for expanding the oil and gas pipeline network, along with rising production targets for oil and gas, are propelling the flanges market in these countries. For instance, in November 2023, Shell Egypt announced the successful completion of drilling its first well in a three-well exploration campaign named Mina West, located in the Mediterranean Sea. This surge in offshore gas exploration is driving demand for flanges across the Rest of Middle East & Africa, alongside a growing focus on developing water and wastewater management facilities.

Company Profiles

Key players in the Middle East and Africa flanges market include AFG Holdings Inc., Armetal Stainless Pipe, Coastal Flange, Inc., FLANGE WORKS BEBITZ GMBH, General Flange & Forge LLC, Kerkau Manufacturing Inc., KME Germany GmbH, London Fittings & Flanges Ltd., Metalfar Prodotti Industriali S.p.A., and Texas Flange, among others. These companies are employing various strategies such as expansion, product innovation, and mergers and acquisitions to enhance their product offerings and increase market share.

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