

Middle East & Africa Autonomous Mobile Manipulator Robots Market Forecast to 2030 - Regional Analysis - by Component (Hardware and Software & Services), Type (Picking Robots, Self-Driving Forklifts, and Autonomous Inventory Robots), and End Use (Manufacturing and Distribution & Warehousing)

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Abstracts

The Middle East & Africa autonomous mobile manipulator robots market is expected to grow from US\$ 12.98 million in 2023 to US\$ 57.49 million by 2030. It is estimated to grow at a CAGR of 23.7% from 2023 to 2030.

Autonomous Mobile Manipulator Robots with Advanced Charging Systems Drives Middle East & Africa Autonomous Mobile Manipulator Robots Market

Mobile manipulators are increasingly used in the automotive, healthcare, warehouse, logistics, and manufacturing industries to enhance productivity and workflow operations. The use of mobile manipulators link the benefits of autonomous mobile robots (AMR) and collaborative robots (cobots) as versatile tools that help to handle complex physical tasks in an industrial ecosystem that were formerly performed by humans, which creates a demand for AMR and cobots. However, the robotic arm and cobots use their own energy system to perform various operations. As the robotic arm is installed on the mobile platform, the AMR requires additional energy to carry it. The battery in AMR is sufficient to work for longer hours; however, it uses additional energy and runs for less time if it also carries a robotic arm. This restricts the functioning of the overall system as AMR and robotic arms need to be charged individually. Hence, to solve this issue, Wiferion developed an inductive charging technology power module that enables instantaneous and effective energy supply to the robotic arm and AMR platform. This technology consists of an etaLINK wireless charging system and etaStORE high-performance batteries, which transmit electrical energy and charges the machines

without any contact. The advanced charging system helps the users of AMMR technology to boost the functioning of AMMR and increase its production output. Thus, these factors lead to the growing adoption of AMMR with advanced charging systems, which is expected to fuel the Middle East & Africa autonomous mobile manipulator robots (AMMR) market during the forecast period.

Middle East & Africa Autonomous Mobile Manipulator Robots Market Overview

The Middle East & Africa autonomous mobile manipulator robots market is segmented into Saudi Arabia, the UAE, South Africa, Iran, and the Rest of Middle East & Africa. The growing oil & gas, retail, pharmaceutical, and logistics industries slowly boost the implementation of automated storage in the Middle East. For cost savings and better operational efficiencies, these industries lookout for solutions that can optimize their inventories, deliver products on time to the consumers, and maintain a perfect balance between supply and demand.

The increasing demand for manufacturing products and building materials in Gulf countries, such as Saudi Arabia, is estimated to encourage the installation of AMMR in the country in the coming year. The robust retail and food & beverage sectors are creating a huge demand for autonomous mobile manipulator robots in the Middle East & Africa. African companies are also highly involved in providing ASRS to several industries to stay competitive. Racking Africa, a South Africa-based company providing ASRS to surge warehouse productivity and offers great reliability and control of stocks. All these factors bolster the market growth in the Middle East & Africa.

Middle East & Africa Autonomous Mobile Manipulator Robots Market Revenue and Forecast to 2030 (US\$ Million)

Middle East & Africa Autonomous Mobile Manipulator Robots Market Segmentation

The Middle East & Africa autonomous mobile manipulator robots market is segmented into type, payload, application, end user industry, and country.

Based on type, the Middle East & Africa autonomous mobile manipulator robots market is bifurcated into differential and omni-directional. In 2023, the differential segment registered a larger share in the Middle East & Africa autonomous mobile manipulator robots market.

Based on payload, the Middle East & Africa autonomous mobile manipulator robots market is segmented into -5 kg, 5-10 kg, 10-20 kg, and 20 kg & Above. In 2023, the 10-20 kg segment registered the largest share in the Middle East & Africa autonomous mobile manipulator robots market.

Based on application, the Middle East & Africa autonomous mobile manipulator robots market is segmented into sorting, pick & place, inventory management, and others. In 2023, the pick & place segment registered the largest share in the Middle East & Africa autonomous mobile manipulator robots market.

Based on end user industry, the Middle East & Africa autonomous mobile manipulator

robots market is segmented into healthcare, space, assembly, and others. In 2023, the others segment registered the largest share in the Middle East & Africa autonomous mobile manipulator robots market.

Based on country, the Middle East & Africa autonomous mobile manipulator robots market is segmented into South Africa, the UAE, Saudi Arabia, Iran, and the Rest of Middle East & Africa. In 2023, South Africa registered the largest share in the Middle East & Africa autonomous mobile manipulator robots market.

OMRON, Kuka AG, Hans Laser Technology, and Zebra technologies (Fetch Robotics) are some of the leading companies operating in the Middle East & Africa autonomous mobile manipulator robots market.

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