

Intelligent Motor Control Center - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Intelligent Motor Control Center Market is expected to register a CAGR of 9.82% during the forecast period.

Key Highlights

- With the rising labor costs and a highly competitive market, which has led to a low-profit margin for companies, the need for high-efficiency motors with improved control and automated systems has increased considerably.
- The impact on IMCCs, due to advancements in technology, made its components (electromechanical relays, circuit breakers, electronic devices, such as variable frequency drives) more robust, and in turn, increased the robustness of the IMCCs. The lifecycle of an IMCC is more than 20 years, which tremendously reduces the replacement rate of the equipment. Even in case of product defects, end users are likely to replace only the faulty components rather than the entire equipment, which results in the depletion of revenues in the market.
- Automation is a growing trend that is witnessed across various industries. OEMs, contractors, and facility and maintenance managers use intelligent motor control centers to accelerate project timelines, enhance personnel safety, reduce cost, and gain valuable insight into plant operations.
- The growing investments by companies in smart manufacturing facilities are further boosting the demand for intelligent motor control center markets. For instance, in September 2022, Schneider Electric laid the foundation of its smart factory in Telangana. The factory is spread over 18 acres, and it is built at the cost of INR 300 Crore (~USD 36.74 million). The facility is expected to be operational by September 2023.
- The outbreak of COVID-19 has forced the manufacturing industries to re-evaluate their traditional production processes, primarily driving digital transformation and smart manufacturing practices across production lines. The manufacturers are also forced to devise and implement multiple new and agile approaches to monitor product and quality control.
- Also, the pandemic's impact forced organizations to adhere to strict requirements while ensuring the safety of their employees

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and customers. As a result, the need for automated solutions has witnessed a sudden spike. This could be observed as a notable trend in the foreseeable future.

Intelligent Motor Control Center Market Trends

Automotive End User to Account for Significant Share

- IMCC finds applications in the manufacturing plants of automotive and other transport vehicles, such as ships and railway carriages. IMCC demand in vehicle manufacturing is expected to increase steadily, particularly in Germany, the United States, and Japan, owing to a robust automotive manufacturing sector and higher penetration of industrial automation.
- Organisation Internationale des Constructeurs d'Automobiles (OICA) reported that the total number of cars produced in 2021 amounted to 80,145,988 units. The growing demand for automobiles is expected to continue over and beyond the forecast period, creating a demand for effective manufacturing equipment and technologies.
- Automakers like Toyota, Mazda, BMW, Hyundai, etc., are expanding their operations across North America and Asian regions, which can be potential buyers of IMCC over the forecast period. For instance, in June 2022, Deloitte opened a smart factory in the United States, Kansas City. The Smart Factory, Wichita aims to advance the future of manufacturing and spur innovation through digital transformation.
- Furthermore, the vendors in the market are innovating new solutions to have a competitive edge. For instance, in October 2022, Kinetic Technologies announced to showcase of power management, motor control, and smart connectivity solutions serving the consumer, communications, industrial, automotive, and enterprise markets at Electronica 2022.

North America to Account for Major Market Share

- The North American market is relatively mature but still presents ample opportunities to implement new technologies, such as IMCC. The Energy Information Administration (EIA) estimated that nearly half of the electricity used by US manufacturers was for operating machinery, of which machine drives (motors) consumed the most.
- Such estimates determine the need for efficient motor control systems. Connected manufacturing units in the region support the adoption of IMCC as a better alternative for reduced energy consumption. The oil and gas industry is expected to be the most prominent end-user in the North American market.
- Further, the Government in the region is taking various initiatives for energy efficiency in the manufacturing sector. For instance, in February 2022, Government announced initiatives focused on the cleaner industrial sector in the United States. To support this effort, the Environmental Protection Agency will develop proposed rule revisions to strengthen the Greenhouse Gas Reporting Program with respect to CCUS activities, and the Department of the Interior will establish safeguards for geologic sequestration on federal lands.
- IMCCs are predominantly used in the renewable energy industry. Tax incentives have been implemented to encourage the growth of wind energy in the region. According to a report published by the U.S. Department of Energy, wind power remained one of America's fastest-growing energy sources and accounted for 32% of U.S. energy capacity growth in 2021 and provided enough energy to power 40 million American homes.

Intelligent Motor Control Center Industry Overview

The Intelligent Motor Control Center (IMCC) Market is fragmented due to the presence of a large number of vendors in the market.

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The major players with a prominent market share are focusing on expanding their customer base across foreign countries. These companies are leveraging strategic collaborative initiatives to increase their market share and profitability. However, with technological advancements and product innovations, mid-size to smaller companies are increasing their market presence by securing new contracts and by tapping new markets.

September 2022 - Renesas Electronics Corporation announced the development of RISC-V MCU specifically optimized for advanced motion control solutions. The new solution enables customers to benefit from a ready-to-use, turnkey solution for motor control applications with no development cost.

May 2022 - Toshiba Electronic Devices and Storage Corporation expanded its collaboration with MikroElektronika introducing the Clicker 4 for TMPM4K development board for motor control.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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