

Global Omnidirectional Steering Wheel Module Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Omnidirectional Steering Wheel Module market size is expected to reach \$ 291 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032).

In 2025, global Omnidirectional Steering Wheel Module production reached approximately 3,667 k units?with an average global market price of around US\$ 60 per unit, and a gross profit margin of approximately 20%-40%. Omnidirectional Steering Wheel Modules are integrated electromechanical drive assemblies designed to provide independent wheel propulsion and steering for automated guided vehicles, autonomous mobile robots, and industrial mobile platforms. A typical module combines a drive motor, steering motor, precision reducer, wheel, encoder, brake, bearings, controller, and structural housing. By independently controlling wheel speed and steering angle, multiple modules enable forward, backward, lateral, diagonal, curved, and in-place rotational movement. The category includes vertical, horizontal, differential, single-wheel, dual-wheel, and heavy-duty steering modules but excludes passive casters, conventional fixed drive wheels, and standalone Mecanum wheels. The industrial chain of Omnidirectional Steering Wheel Modules covers upstream materials and components such as permanent magnets, electrical steel, copper wire, aluminum housings, polyurethane wheels, bearings, gears, planetary reducers, encoders, brakes, servo drives, controllers, sensors, cables, and connectors. The midstream includes electromagnetic design, motor winding, gear machining, reducer assembly, wheel molding, structural processing, electronic-control development, module integration, software calibration, load testing, steering-accuracy testing, durability testing, and quality inspection. Downstream applications include automated guided vehicles, autonomous mobile robots, robotic forklifts, heavy-load transport platforms, assembly-line carriers, inspection robots, service robots, and specialized industrial vehicles.

Supporting activities include system integration, installation, commissioning, maintenance, replacement, and technical services.

This report studies the global Omnidirectional Steering Wheel Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Omnidirectional Steering Wheel Module and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Omnidirectional Steering Wheel Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Omnidirectional Steering Wheel Module total production and demand, 2021-2032, (K Units)

Global Omnidirectional Steering Wheel Module total production value, 2021-2032, (USD Million)

Global Omnidirectional Steering Wheel Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Omnidirectional Steering Wheel Module consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Omnidirectional Steering Wheel Module domestic production, consumption, key domestic manufacturers and share

Global Omnidirectional Steering Wheel Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Omnidirectional Steering Wheel Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Omnidirectional Steering Wheel Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Omnidirectional Steering Wheel Module market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ebm-papst, Framo Morat, SPINEA, Metalrota, Motiontech, TUKU Singapore, Nidec Drive Technology, Zhongda Leader Intelligent Transmission, MOONS?, Shanghai Tongyi Automation Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Omnidirectional Steering Wheel Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Omnidirectional Steering Wheel Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Omnidirectional Steering Wheel Module Market, Segmentation by Type:

Horizontal

Vertical

Global Omnidirectional Steering Wheel Module Market, Segmentation by Wheel Diameter:

Wheel Diameter: 150mm

Wheel Diameter: 200mm

Wheel Diameter: 250mm

Others

Global Omnidirectional Steering Wheel Module Market, Segmentation by Application:

Automated Guided Vehicles (AGVs)

Autonomous Mobile Robots (AMRs)

Unmanned Forklifts

Others

Companies Profiled:

ebm-papst

Framo Morat

SPINEA

Metalrota

Motiontech

TUKU Singapore

Nidec Drive Technology

Zhongda Leader Intelligent Transmission

MOONS?

Shanghai Tongyi Automation Technology

H-EDrive

Hubei Kofon Intelligent Transmission

PhoenixPower

TZBOT

BeUDMKE

HKT Robot

EED Transmission

Key Questions Answered:

1. How big is the global Omnidirectional Steering Wheel Module market?
2. What is the demand of the global Omnidirectional Steering Wheel Module market?
3. What is the year over year growth of the global Omnidirectional Steering Wheel Module market?
4. What is the production and production value of the global Omnidirectional Steering Wheel Module market?
5. Who are the key producers in the global Omnidirectional Steering Wheel Module market?
6. What are the growth factors driving the market demand?

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