

Global Robot Motion Planning Engine Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Robot Motion Planning Engine market size was valued at US\$ 751 million in 2025 and is forecast to a readjusted size of US\$ 2944 million by 2032 with a CAGR of 21.5% during review period.

A robot motion planning engine is a core software module for robotic arms, mobile robots, humanoid robots, multi-robot systems, and autonomous mobile platforms. Its main role is to automatically generate executable and collision-free paths or trajectories that satisfy velocity and acceleration limits, task accuracy requirements, and safety constraints based on task goals, robot kinematic models, environmental maps, obstacle states, and operational constraints. These products typically combine sampling search, graph search, trajectory optimization, model predictive control, reactive motion generation, and learning-augmented methods, while working together with perception, localization, simulation, controllers, and robotics middleware. Common delivery forms include open-source frameworks, commercial SDKs, robot simulation software modules, offline programming plugins, cloud-based motion planning services, and embedded algorithm components supplied by robot OEMs. Major application scenarios include industrial automation, warehouse logistics, mobile inspection, commercial service robots, humanoid robot development, multi-robot coordination, and research simulation validation.

Robot motion planning engines are evolving from standalone algorithm libraries into a foundational robotics software layer that connects perception, simulation, control, and task execution. MoveIt emphasizes a planning pipeline that combines preprocessing, motion planning, and post-processing, while Nav2 treats planners, controllers,

recoveries, and smoothers as the core of navigation tasks. MathWorks Robotics System Toolbox also integrates collision checking, path planning, trajectory generation, forward and inverse kinematics, and dynamics in one toolchain. This shows that industry value increasingly comes from deployable planning pipelines, interface ecosystems, and adaptability across robot forms.

Industrial applications remain the clearest near-term commercialization path, especially in manipulator offline programming, automatic path planning, welding, assembly, material handling, grinding, and multi-robot workcell optimization. ABB RobotStudio Automatic Path Planning focuses on generating optimized collision-free paths in crowded robot cell environments, Siemens Process Simulate X Automatic Path Planner targets collision-free paths for assembly, disassembly, and robotic welding, and RoboDK serves industrial robot simulation and offline programming. These products serve customers with clear budgets, and their benefits can be measured through cycle time, reduced downtime, and shorter commissioning effort.

Future growth will come from dynamic environments, embodied intelligence, and multi-robot coordination. Isaac Sim motion generation materials describe RMPflow for real-time reactive local policies, RRT-family algorithms for global planning in static environments, and cuRobo integration for GPU-accelerated collision-aware motion generation in dynamic scenes. Realtime Robotics positions itself around robot motion planning and control software and offers cloud-based motion planning expertise, indicating that motion planning engines are expanding from local algorithm modules into software services combining cloud optimization, simulation validation, and industrial AI.

This report is a detailed and comprehensive analysis for global Robot Motion Planning Engine market. Both quantitative and qualitative analyses are presented by company, by region & country, by Algorithm Paradigm and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Robot Motion Planning Engine market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Robot Motion Planning Engine market size and forecasts by region and country,

in consumption value (\$ Million), 2021-2032

Global Robot Motion Planning Engine market size and forecasts, by Algorithm Paradigm and by Application, in consumption value (\$ Million), 2021-2032

Global Robot Motion Planning Engine market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Robot Motion Planning Engine

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Robot Motion Planning Engine market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include PickNik Inc., NVIDIA Corporation, The MathWorks, Inc., Realtime Robotics, Inc., ABB Ltd., Siemens AG, RoboDK Inc., Coppelio Robotics AG, Open Navigation LLC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Robot Motion Planning Engine market is split by Algorithm Paradigm and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Algorithm Paradigm and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Algorithm Paradigm

Sampling Search Robot Motion Planning Engine

Graph Search Robot Motion Planning Engine

Trajectory Optimization Robot Motion Planning Engine

Model Predictive Control Robot Motion Planning Engine

Reactive Motion Generation Robot Motion Planning Engine

Learning-Augmented Robot Motion Planning Engine

Other

Market segment by Planning Space

Joint-Space Robot Motion Planning Engine

Cartesian-Space Robot Motion Planning Engine

Configuration-Space Robot Motion Planning Engine

Task-Space Robot Motion Planning Engine

Hybrid State-Space Robot Motion Planning Engine

Market segment by Environmental Dynamics

Static-Environment Robot Motion Planning Engine

Dynamic-Obstacle Environment Robot Motion Planning Engine

Unknown-Environment Robot Motion Planning Engine

Semi-Structured Environment Robot Motion Planning Engine

Highly Congested Environment Robot Motion Planning Engine

Other

Market segment by Constraint Type

Kinematic Constraint Robot Motion Planning Engine

Dynamic Constraint Robot Motion Planning Engine

Collision Constraint Robot Motion Planning Engine

Velocity and Acceleration Constraint Robot Motion Planning Engine

Joint-Limit Constraint Robot Motion Planning Engine

Contact Constraint Robot Motion Planning Engine

Market segment by Application

Industrial Manipulator Trajectory Generation

Warehouse Mobile Navigation

Mobile Inspection Path Execution

Commercial Service Robot Passage

Humanoid Robot Whole-Body Motion Generation

Multi-Robot Cooperative Collision Avoidance

Autonomous Driving Low-Speed Mobility

Research Simulation Validation

Other

Market segment by players, this report covers

PickNik Inc.

NVIDIA Corporation

The MathWorks, Inc.

Realtime Robotics, Inc.

ABB Ltd.

Siemens AG

RoboDK Inc.

Coppelia Robotics AG

Open Navigation LLC

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Robot Motion Planning Engine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Robot Motion Planning Engine, with revenue, gross margin, and global market share of Robot Motion Planning Engine from 2021 to 2026.

Chapter 3, the Robot Motion Planning Engine competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Algorithm Paradigm and by Application, with consumption value and growth rate by Algorithm Paradigm, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Robot Motion Planning Engine market forecast, by regions, by Algorithm Paradigm and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Robot Motion Planning Engine.

Chapter 13, to describe Robot Motion Planning Engine research findings and conclusion.

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