

Global Robot Task 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 Task Planning Engine market size was valued at US\$ 2377 million in 2025 and is forecast to a readjusted size of US\$ 9855 million by 2032 with a CAGR of 22.5% during review period.

A robot task planning engine is a core decision-making software layer deployed within robot operating systems, industrial automation platforms, embodied AI platforms, or multi-robot orchestration systems. It primarily addresses the automated decomposition, sequencing, validation, dispatch, and feedback loop from high-level goals to executable robot actions. This type of product typically integrates environmental perception, semantic understanding, task decomposition, skill invocation, motion planning, path obstacle avoidance, resource scheduling, execution monitoring, and failure-driven replanning into a unified framework, enabling robotic arms, mobile robots, humanoid robots, or heterogeneous robot fleets to complete multi-step tasks in complex workcells, warehouses, service environments, and open-world settings. Its technical paradigms include rule-based and PDDL-based symbolic planning, task and motion planning, behavior tree orchestration, optimization solving, multi-agent task allocation, vision-language model reasoning, and world model prediction. Product forms include open-source frameworks, commercial SDKs, low-code development platforms, cloud-based SaaS offerings, and bundled deliveries with robot controllers, digital twin software, warehouse management systems, or complete robotic solutions. Major customers include robot manufacturers, system integrators, manufacturing enterprises, logistics operators, research institutions, and embodied AI development teams.

The industrial value of robot task planning engines is shifting from whether a robot can

move to whether a robot can autonomously complete a task. Traditional industrial robots rely on expert teaching, fixed trajectories, and closed controllers, which are well suited to highly repetitive and stable production rhythms. However, when facing high-mix materials, dynamic obstacles, temporary orders, and multi-robot collaboration, manual programming costs rise quickly. A robot task planning engine integrates high-level goals, environmental states, robot capabilities, tool constraints, and execution feedback into a unified decision framework, enabling robots to automatically choose task sequences, invoke skill modules, request motion planning, and replan after failures. As manufacturing and logistics enterprises move from point automation to flexible automation, task planning engines are becoming the core software layer that transforms robot systems from programmable devices into autonomous execution units. Their commercial value lies not only in reducing deployment time, but also in improving changeover efficiency, lowering dependence on senior robot programmers, increasing equipment utilization, and enabling robots to cover complex tasks that were previously difficult to automate through fixed scripts.

From a technology evolution perspective, robot task planning engines are forming multi-paradigm architectures. Rule-based symbolic planning is suitable for expressing task preconditions, object states, and constraint logic. Task and motion planning can jointly validate task sequences and continuous-space feasibility. Behavior trees are well suited to engineering execution and exception handling. Optimization solvers are suited to multi-robot task allocation, path conflict resolution, and cycle-time compression. Vision-language models and world models are enhancing robot understanding of open-ended instructions, complex scenes, and long-horizon tasks. Future products will not rely on a single algorithm, but will form layered systems around skill libraries, scene models, digital twins, real-time control, cloud optimization, and edge execution. Industrial customers place greater emphasis on determinism, stability, and safety boundaries. Embodied AI customers place greater emphasis on generalization, natural language interaction, and cross-embodiment transfer. Research customers focus more on open interfaces and extensible algorithm stacks. These differences will lead to a market structure in which open-source frameworks, commercial SDKs, SaaS orchestration platforms, embedded controllers, and bundled robot-system solutions coexist.

From a market outlook perspective, task planning engines sit at the intersection of three growth curves: robot software, industrial automation software, and physical AI. As the installed base of industrial robots and collaborative robots expands, customers are no longer buying only mechanical structures and controllers; they increasingly value deployment efficiency, application reuse, flexible changeover, and cross-site replication. High-frequency orders, complex SKUs, and dense multi-robot operations in warehouse

logistics will continue to drive demand for task dispatch, fleet orchestration, and dynamic replanning. The development of humanoid robots and general embodied AI platforms will further extend task planning from industrial software into more open scenarios such as home services, commercial services, medical assistance, research and education, and special operations. In the short term, competition will center on stable deployment in specific industry tasks. In the medium term, it will center on the accumulation of cross-task skill libraries and industry templates. In the long term, it will center on building software ecosystems deeply coupled with robot bodies, AI models, simulation platforms, and enterprise systems.

This report is a detailed and comprehensive analysis for global Robot Task Planning Engine market. Both quantitative and qualitative analyses are presented by company, by region & country, by Planning 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 Task Planning Engine market size and forecasts, in consumption value (\$ Million), 2021-2032

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

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

Global Robot Task 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 Task 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 Task 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 NVIDIA Corporation, PickNik Inc., Realtime Robotics, Inc., Mujin, NEC Corporation, Intrinsic, InOrbit, Inc., Siemens AG, ABB Ltd, Wandelbots GmbH, etc.

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

Market segmentation

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

Market segment by Planning Paradigm

Rule-Based Symbolic Planning Robot Task Planning Engine

Task and Motion Planning Robot Task Planning Engine

Behavior Tree Orchestration Robot Task Planning Engine

Large Model Reasoning Robot Task Planning Engine

Optimization Scheduling Robot Task Planning Engine

World Model Prediction Robot Task Planning Engine

Other

Market segment by Robot Object

Robotic Arm Robot Task Planning Engine

Mobile Robot Task Planning Engine

Humanoid Robot Task Planning Engine

Multi-Robot Fleet Robot Task Planning Engine

Heterogeneous Robot System Robot Task Planning Engine

Other

Market segment by Capability Focus

Semantic Task Understanding Robot Task Planning Engine

Task Decomposition Robot Task Planning Engine

Skill Invocation Robot Task Planning Engine

Real-Time Obstacle Avoidance Robot Task Planning Engine

Multi-Robot Task Allocation Robot Task Planning Engine

Failure Feedback Replanning Robot Task Planning Engine

Other

Market segment by Application

Industrial Assembly

Warehouse Picking

Logistics Handling

Mobile Inspection

Commercial Service

Research and Development

General-Purpose Humanoid Robot Tasks

Multi-Robot Collaborative Scheduling

Other

Market segment by players, this report covers

NVIDIA Corporation

PickNik Inc.

Realtime Robotics, Inc.

Mujin

NEC Corporation

Intrinsic

InOrbit, Inc.

Siemens AG

ABB Ltd

Wandelbots GmbH

RoboDK Inc.

Open Source Robotics Foundation

AGIBOT Innovation (Shanghai) Technology Co., Ltd.

Beijing Humanoid Robot Innovation Center Co., Ltd.

FANUC Corporation

OSARO, Inc.

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 Task Planning Engine product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Robot Task 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 Planning Paradigm and by Application, with consumption value and growth rate by Planning 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 Task Planning Engine market forecast, by regions, by Planning 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 Task Planning Engine.

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

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