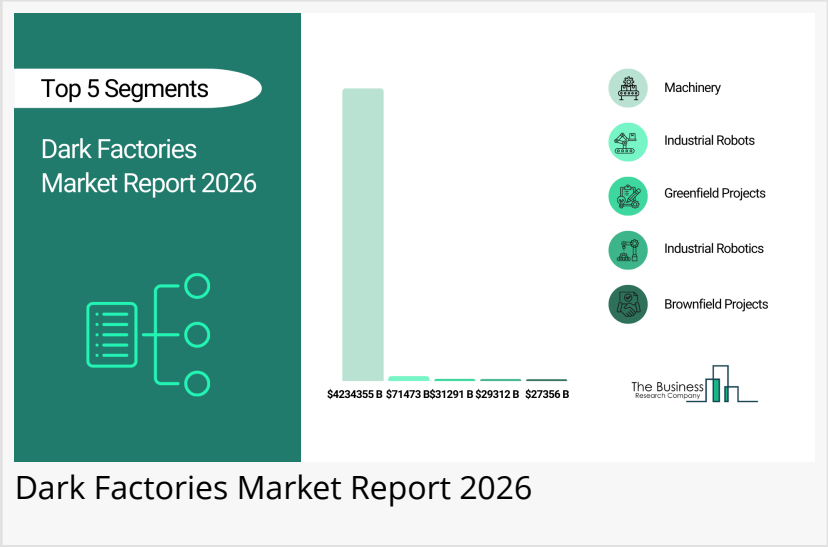
Dark Factories Market 2026 Autonomous Manufacturing Facilities Reshaping Global Production

The Business Research Company's Dark Factories Market Report 2026 – Market Size, Trends, And Global Forecast 2026-2035



Dark Factories Market Report 2026

LONDON, GREATER LONDON, UNITED KINGDOM, March 18, 2026 /EINPresswire.com/ -- Dark Factories Market to Surpass $78 billion in 2030. In comparison, the Industrial Robots which is considered as its parent market, is expected to be approximately $143 billion by 2030, with the Dark Factories market to represent around 55% of the parent market. Within the broader Machinery industry, which is expected to be $5,280 billion by 2030, the Dark Factories market is estimated to account for nearly 1% of the total market value.

> It will grow from $54.64 billion in 2025 to $60.26 billion in 2026 at a compound annual growth rate (CAGR) of 10.3%”
>
> *The Business Research Company*

Which Will Be the Biggest Region in the Dark Factories Market Growth in 2030

Asia Pacific will be the largest region in the dark factories market in 2030, valued at $32,041 million. The market is expected to grow from $20,833 million in 2025 at a compound annual growth rate (CAGR) of 9%. The strong growth can be attributed to the shift toward centralized and remote factory monitoring models and increasing adoption of industrial robots.

Which Will Be The Largest Country In The Dark Factories Market In 2030?

The USA will be the largest country in the dark factories market in 2030, valued at $16,597 million. The market is expected to grow from $12,299 million in 2025 at a compound annual growth rate (CAGR) of 6%. The strong growth can be attributed to the shift toward centralized and remote factory monitoring models and increasing adoption of industrial robots.

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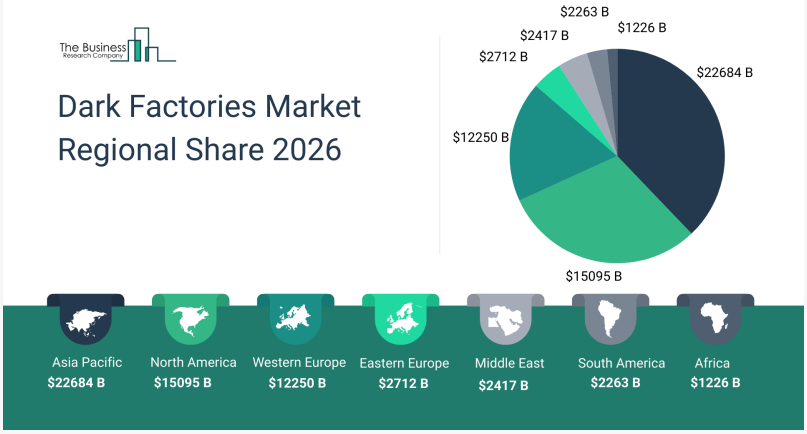
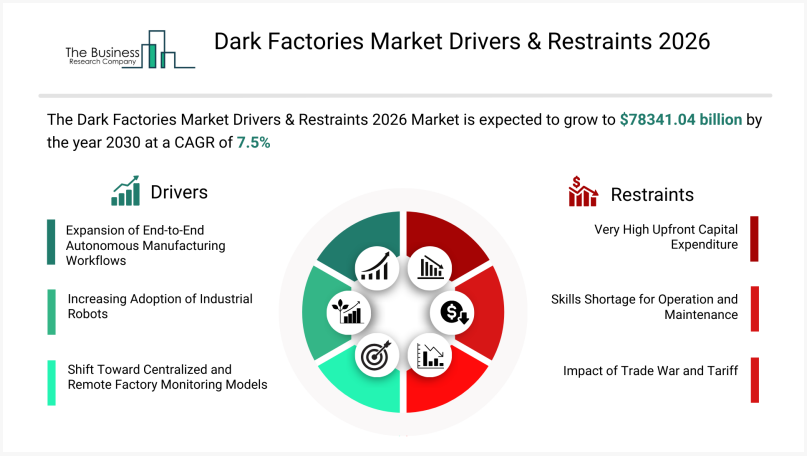


Dark Factories Market Research



Dark Factories Market Insights

What will be Largest Segment in the Dark Factories Market in 2030?
The dark factories market is by type into industrial robotics, additive manufacturing, industrial internet of things (IIoT) and automated guided vehicles (AGVs). The industrial robotics market will be the largest segment of the dark factories market segmented by type, accounting for 48% or $37,469 million of the total in 2030. The industrial robotics market will be supported by the increasing demand for automation to boost productivity and reduce operational costs, the ability of robots to perform complex and repetitive tasks with high precision and consistency, enhanced production efficiency with minimal human intervention, round-the-clock operation without fatigue, integration with AI/ML for predictive maintenance and adaptive performance, rising adoption across automotive, electronics and pharmaceuticals for high-volume manufacturing, and the continuous technological advancements improving robot capabilities and flexibility.

The dark factories market is segmented by deployment into greenfield projects and brownfield projects. The greenfield projects market will be the largest and fastest segment of dark factories market segmented by deployment, accounting for 56% or $43,351 million of the total in 2030. The greenfield projects market will be supported by the preference for building new, fully automated facilities that can integrate advanced robotics and IoT from inception, fewer constraints from legacy systems enabling optimized layout and workflows, greater flexibility to adopt cutting-edge technologies like additive manufacturing and IIoT, ability to design modular and scalable automation architectures, favorable economics in long-term operational efficiency, strategic investments by global manufacturers in next-generation plants, and the drive to future-proof production operations in emerging industrial hubs.

The dark factories market is segmented by end user automotive, pharmaceuticals, aerospace,

electronics and other end-users. The automotive market will be the largest and fastest-growing segment of the dark factories market segmented by end user, accounting for 40% or $30,912 million of the total in 2030. The automotive market will be the supported by high investments in automation to meet quality and production targets, extensive use of robotics for welding, painting, and assembly processes, need for precision and consistency in vehicle manufacturing, integration of additive manufacturing for lightweight and complex components, deployment of IIoT for predictive maintenance and real-time monitoring, adoption of AGVs for internal logistics and parts delivery, and the trend toward electric and autonomous vehicles requiring flexible and efficient manufacturing systems.

What is the expected CAGR for the Dark Factories Market leading up to 2030?
The expected CAGR for the dark factories market leading up to 2030 is 8%.

What Will Be The Growth Driving Factors In The Dark Factories Market In The Forecast Period?
The rapid growth of the global dark factories market leading up to 2030 will be driven by the following key factors that are expected to reshape industrial production, supply chains, and workforce structures worldwide.

Expansion Of End-To-End Autonomous Manufacturing Workflows – The expansion of end-to-end autonomous manufacturing workflows is expected to be a key driver of the growth of the dark factories market in the forecast period. As manufacturers increasingly adopt fully integrated production processes where machines, robots, and software systems perform all manufacturing steps without human intervention, the adoption of autonomous workflows drives the need for seamless, continuous, and high precision operations. Industry projections indicate that the implementation of autonomous manufacturing systems across sectors is rising steadily year on year, reflecting a broader trend toward fully automated, interconnected production environments. As organizations deploy advanced robotics, real time data processing, and closed loop control systems that span material input to final inspection, dark factories enable optimized throughput, reduced cycle times, and consistent product quality, thereby significantly driving demand for end to end autonomous manufacturing solutions. As a result, expansion of end-to-end autonomous manufacturing workflows is anticipated to contributing to a 2.0% annual growth in the market.

Increasing Adoption Of Industrial Robots - The increasing adoption of industrial robots is expected to be a key driver of the growth of the dark factories market in the forecast period. As manufacturers increasingly deploy programmable robots to perform repetitive tasks with precision, speed, and reliability, the widespread use of these machines drives the need for fully automated production systems capable of operating continuously without human supervision. Industry trends indicate that the deployment of industrial robots worldwide continues to expand year on year, reflecting a broader move toward autonomous and highly efficient manufacturing operations. As factories integrate larger fleets of robots into end-to-end production workflows, the use of dark factory systems becomes essential to coordinate operations, optimize productivity, and maintain consistent quality, thereby significantly driving demand for robotic

automation in manufacturing environments. Consequently, increasing adoption of industrial robots is projected to contributing to a 1.5% annual growth in the market.

Shift Toward Centralized And Remote Factory Monitoring Models - The shift toward centralized and remote factory monitoring models is expected to be a key driver of the growth of the dark factories market in the forecast period. As manufacturers increasingly implement digital platforms to observe, control, and optimize production processes from off site locations, the adoption of centralized monitoring drives the need for integrated systems that ensure operational visibility and continuous oversight. Industry projections indicate that manufacturers worldwide are increasingly investing in remote monitoring and digital factory management technologies year on year, reflecting a broader trend toward automated, connected production environments. As organizations deploy more advanced monitoring frameworks that link autonomous machines, sensors, and control systems, dark factories enable real time performance tracking, predictive maintenance, and operational efficiency, thereby significantly driving demand for automated, remotely supervised manufacturing solutions. Therefore, shift toward centralized and remote factory monitoring models is projected to contributing to a 1.0% annual growth in the market.

Increasing Emphasis On Sustainable Manufacturing Promotes - The increasing emphasis on sustainable manufacturing promotes will propel the growth of the dark factories market in the forecast period. As manufacturers adopt production systems that minimize environmental impact, conserve energy, and reduce waste, the focus on sustainability drives the need for automation technologies that optimize resource efficiency and lower emissions. Industry projections indicate that global industrial initiatives to implement sustainable production practices are expanding year on year, reflecting a broader trend toward environmentally responsible and resource-efficient manufacturing. As organizations deploy energy-efficient automated systems and predictive maintenance frameworks, dark factories enable reduced energy consumption, improved resource utilization, and lower carbon footprints, thereby significantly driving demand for sustainable, automated manufacturing solutions. Consequently, increasing emphasis on sustainable manufacturing is projected to contributing to a 0.5% annual growth in the market.

Access the detailed Dark Factories Market report here:
https://www.thebusinessresearchcompany.com/report/dark-factories-global-market-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Mar_PR

What Are The Key Growth Opportunities In The Dark Factories Market in 2030?
The most significant growth opportunities are anticipated in the greenfield lights out factory market, the industrial robotics system dark factories market and the automotive dark factories market. Collectively, these segments are projected to contribute over $34 billion in market value by 2030, driven by rapid advancements in AI-powered automation, intelligent robotics, Industrial Internet of Things (IIoT) integration, and fully digitalized production ecosystems that enable 24/7 human-independent operations. Manufacturers are increasingly investing in greenfield facilities

designed with embedded smart sensors, machine vision, and predictive maintenance capabilities to enhance efficiency and reduce labor dependency. Autonomous industrial robotics and dark factory systems further support real-time decision-making, self-optimizing production lines, and consistent high-precision output. In the automotive sector, dark factory automation strengthens scalable manufacturing, minimizes defects, and supports high-volume production of electric and next-generation vehicles. Overall, the accelerating adoption of Industry 4.0 frameworks is transforming manufacturing infrastructure and fueling substantial growth across the lights-out and dark factory automation landscape.

The greenfield lights out factory market is projected to grow by $14,469 million, the industrial robotics system dark factories market by $9,877 million and the automotive dark factories market by $9,643 million over the next five years from 2025 to 2030.

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