

# Advanced Process Control Market Size, Share, Trend & Forecast 2025-2032 | AI, IoT, and Smart Automation Report

Advanced Process Control Market was valued at USD 2.43 Billion in 2024, to grow at a CAGR of 10.6 % from 2025 to 2032, reaching nearly USD 5.44 Billion by 2032

SAVANNAH, GA, UNITED STATES,  
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EINPresswire.com/ -- The Advanced Process Control Market is set to soar from USD 2.43 Bn in 2024 to USD 5.44 Bn by 2032. Discover how AI, IoT, and smart automation are revolutionizing industrial efficiency and predictive process control.

The [Advanced Process Control \(APC\) Market](#) is set to skyrocket from USD

2.43 Bn in 2024 to USD 5.44 Bn by 2032 at a 10.6% CAGR, fueled by AI, Industrial IoT, digital twins, and predictive process optimization. North America leads with 36.8% share, while ABB, AspenTech, Emerson, Honeywell, and Schneider drive innovation through R&D, acquisitions, and \$285M facility investments. Adoption of MPC, ARC, cloud-based APC, and predictive maintenance enhances efficiency, cost savings, and product quality across oil & gas, chemicals, pharmaceuticals, and energy, making APC a high-ROI solution powering smart factories worldwide.

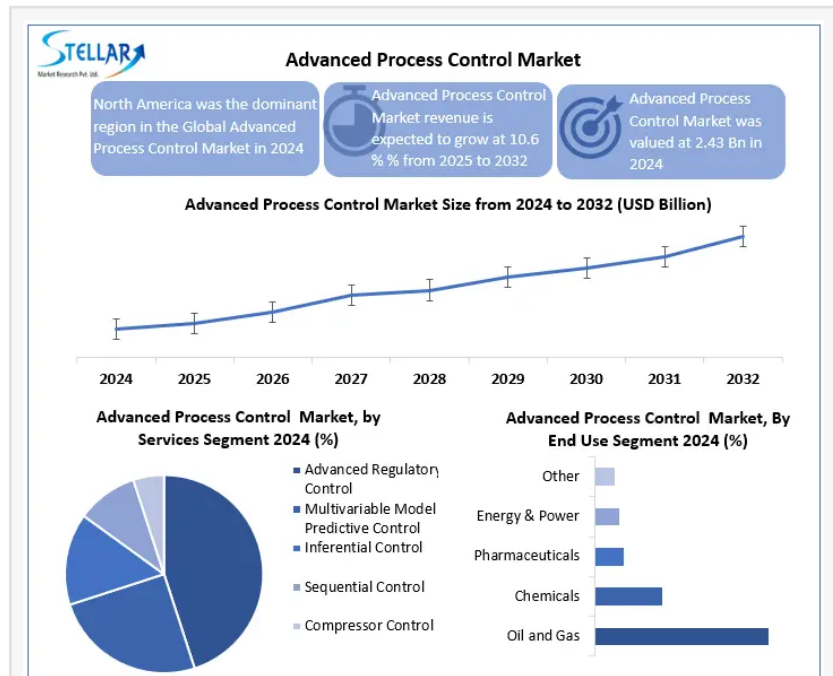
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Advanced Process Control Market is set to revolutionize industrial automation, leveraging AI, Industrial IoT, and predictive analytics to optimize efficiency, reduce costs”

*Dharati Raut*

Advanced Process Control Market 2025: How AI, Industrial IoT, and MPC Are Revolutionizing Manufacturing Efficiency

The Advanced Process Control (APC) market is accelerating,



Advanced Process Control Market

powered by industrial automation, AI, and Industrial IoT. Industries, from oil & gas to chemicals and pharmaceuticals, are leveraging process optimization to boost productivity, cut operational costs, and ensure high-quality output. With stricter regulatory standards on energy efficiency, emissions, and environmental compliance, businesses are racing to adopt APC solutions that deliver smarter, faster, and more sustainable industrial control. Discover how cutting-edge MPC, ARC, and AI-driven APC technologies are transforming manufacturing processes worldwide.

Global Advanced Process Control Market Segments Covered	
By Services	Advanced Regulatory Control Multivariable Model Predictive Control Inferential Control Sequential Control Compressor Control
By Enterprise Size	Large Enterprises Small & Medium Enterprises (SMEs)
By End-User	Oil and Gas Chemicals Pharmaceuticals Energy & Power Others
By Region	<b>North America</b> - United States, Canada, and Mexico <b>Europe</b> – UK, France, Germany, Italy, Spain, Sweden, Russia, and Rest of Europe <b>Asia Pacific</b> – China, South Korea, Japan, India, Australia, Indonesia, Philippines, Malaysia, Vietnam, Thailand, Rest of APAC <b>Middle East and Africa</b> - South Africa, GCC, Egypt, Nigeria, Rest of the Middle East and Africa <b>South America</b> – Brazil, Argentina, Rest of South America

Advanced Process Control Market Segment

□ Access the full Research Description at:  
[https://www.stellarmr.com/report/req\\_sample/advanced-process-control-market/2822](https://www.stellarmr.com/report/req_sample/advanced-process-control-market/2822)

AI, MPC, and Industrial IoT: The Future of Advanced Process Control Market Growth

The Advanced Process Control (APC) market is driving a new era of operational excellence and process optimization. With AI-powered APC, Industrial IoT, MPC, ARC, and predictive analytics, industries from oil & gas to pharmaceuticals are boosting productivity, efficiency, and product quality. Companies adopting cloud-based and modular APC solutions are gaining a strategic edge and unlocking rapid growth amid regulatory and sustainability pressures.

Overcoming Advanced Process Control Market Challenges: Costs, Integration Complexity, and Cybersecurity Risks

Despite its transformative benefits, the Advanced Process Control (APC) market faces hurdles that can't be ignored. High implementation costs, reliance on legacy control systems, and the complexity of AI-powered APC, MPC, and Industrial IoT integration make adoption time-consuming and expensive, especially for SMEs. Workforce gaps in data analytics and system integration, coupled with cybersecurity risks and reliability concerns, further slow deployment. To overcome these barriers, companies can start with modular or cloud-based APC solutions, enabling gradual integration while mitigating costs and operational risks.

AI and Industrial IoT Power the Next Wave of Advanced Process Control Market Innovation

The Advanced Process Control (APC) market is transforming industrial automation with services like MPC, ARC, and Inferential Control. MPC leads, optimizing complex processes in oil & gas,

chemicals, and refining to boost efficiency, product quality, and energy savings. Large enterprises drive adoption, while SMEs embrace cloud-based and modular APC solutions for scalable, cost-effective automation. With AI-powered APC and Industrial IoT integration, industries are unlocking next-level productivity and competitive advantage.

Key Trends in Industrial Automation: Digital Twin Technology and APC Driving Efficiency, Cost Savings, and Optimized Performance

Digital Twin Technology creates virtual system replicas, providing real-time insights and simulations to optimize industrial performance.

Companies are leveraging Advanced Process Control (APC) to enhance operational efficiency, streamline production, and drive significant cost savings. This adoption boosts profitability while optimizing industrial processes.

Key Developments in Advanced Process Control: ABB Expands AI & IoT R&D, Siemens Invests \$285M in U.S. Manufacturing

In January 2024, ABB acquired a majority stake in Meshmind to strengthen its Industrial IoT, AI, and machine vision capabilities. This move boosts R&D for advanced automation solutions in its Machine Automation (B&R) sector.

On March 7, 2025, Siemens announced a \$285 million investment in U.S. manufacturing, including new advanced facilities in California and Texas.

North America Advanced Process Control Market Leads with 36.8% Share, Can APC Innovation and Compliance Keep Fueling Growth?

North America Advanced Process Control (APC) Market surged ahead with a 36.8% revenue share in 2023, fueled by the rapid adoption of sophisticated APC systems and advanced technological infrastructure. Strict regulatory compliance across healthcare and environmental sectors is intensifying demand for APC to ensure operational excellence. With global leaders and new entrants racing to leverage APC advantages, North America is becoming the innovation hub driving automation, efficiency, and next-gen process optimization.

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Advanced Process Control Market Leaders: How ABB, AspenTech, Emerson, Honeywell, and Schneider Are Redefining AI, IoT, and Smart Factory Automation

The Advanced Process Control (APC) market is fiercely competitive, led by ABB, Aspen Technology, Emerson Electric, Honeywell, and Schneider Electric. ABB drives robotics and digital

automation with ABB Ability™, while AspenONE dominates AI-powered process software. Emerson strengthens integrated automation with DeltaV, Plantweb, and its National Instruments acquisition. Honeywell merges IoT, cybersecurity, and efficiency through Honeywell Forge, while Schneider leads energy management and digital twin innovation with EcoStruxure and AVEVA. Fueled by AI, IoT, sustainability, and M&A, these players are racing to power smart factories, predictive maintenance, and energy-efficient automation.

#### Advanced Process Control Market Key Player:

##### North America

Emerson Electric Co.  
Honeywell International Inc.  
General Electric Co.  
Rockwell Automation Inc.  
Aspen Technology Inc.  
Open Systems International (OSI)

##### Europe

Siemens AG  
Schneider Electric SE  
ABB Ltd.  
Valmet Oyj  
Endress+Hauser  
Andritz AG

##### Asia Pacific

Yokogawa Electric Corporation  
Mitsubishi Electric Corporation  
Hitachi Ltd.  
Azbil Corporation  
Tata Consultancy Services (TCS)  
Wipro Ltd.

##### Middle East and Africa

ACWA Power (Saudi Arabia)  
Yokogawa Middle East & Africa  
MegChem (South Africa)  
Honeywell Middle East  
Schneider Electric (Middle East & Africa)

Emerson Automation Solutions (MEA operations)

South America

Eclipse Software (Brazil)

Solinftec (Brazil)

TOTVS (Brazil)

Rockwell Automation (South America)

Emerson Latin America

Siemens Ltd. (Brazil)

Analyst Perspective:

The Advanced Process Control (APC) market is set to soar from USD 2.43 Bn in 2024 to USD 5.44 Bn by 2032 at a 10.6% CAGR, driven by AI, Industrial IoT, digital twins, and predictive process optimization. North America leads with 36.8% share, fueled by advanced APC systems and strict regulatory compliance. Key players like ABB, AspenTech, Emerson, Honeywell, and Schneider are accelerating innovation, highlighted by ABB's Meshmind acquisition and Siemens' \$285M U.S. investment. Adoption of MPC, ARC, cloud-based APC, and predictive maintenance is boosting efficiency, cutting costs, and improving product quality across oil & gas, chemicals, pharmaceuticals, and energy, making APC a high-ROI, transformative solution for smart factories and industrial optimization worldwide.

FAQ

Why this Stellar report?

Provides insights into the APC market, highlighting AI, IoT, MPC, and growth opportunities.

How can APC benefit my company?

Boosts efficiency, cost savings, and product quality across oil & gas, chemicals, pharma, and energy.

Which regions and players drive growth?

North America leads; top innovators include ABB, AspenTech, Emerson, Honeywell, and Schneider.

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