Artificial Intelligence in Machinery Market Research

TWELVE-YEAR MARKET ANALYSIS AND TECHNOLOGY FORECAST THROUGH 2030

AI TECHNOLOGY IS GROWING IN POPULARITY

The artificial intelligence (AI) in machinery market report focuses and analyzes AI technology, applications, market size, growth, and key trends with a focus on the ISA95 level 1 & 2.

The AI in machinery market is fragmented and only a few machine builders provide AI solutions. Most machine builders are still in the proof-of-concept phase. Each machine builder brings an individualized approach that is dependent on customer problems.

AI adoption and acceptance in the industry is increasing, and ARC foresees a rise in AI solutions tailored for specific applications across industries and markets. ARC has identified several growing applications - predictive maintenance, quality inspections, motion planning, and operational simulation & optimization are some of the applications where AI in machinery is increasing and expected to grow quickly in the future. Machines used in material handling and robotics, among others, are also expected to see increasing adoption of AI technology in the future.

ARC observes different adoption rates for AI technology in machines. This is influenced by various factors such as the availability of technical know-how, lifecycle and R&D costs, AI hype and expectations, regional differences, as well as machine builder/end user strategies. Overall, the aim for AI technology in machinery is to increase manufacturing efficiency and quality while reducing operating costs. This creates value add for machine builders and end users alike.

For more information, please visit us at www.arcweb.com/market-studies/.

STRATEGIC ISSUES

ARC recommends the following strategies:

End users should:
- Assess their production needs and available infrastructure.
- Look for machine builders that understand your real operational context and keep a realistic view of AI solutions in mind.

Machine builders should:
- Work hand in hand with end users to understand their needs.
- Have provisions for lifecycle costs of AI solutions from R&D to field implementation.

RESEARCH FORMATS

This research is available as a Market Intelligence Workbook (Excel) and/or a concise, executive-level Market Analysis Report (PDF), without detailed charts.

RESEARCH FOCUS AREAS

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SCOPE OF RESEARCH

Segmentation by Region
Segmentation by Revenue Category
Segmentation by Application
Segmentation by Technology
Segmentation by Machinery Segment
Segmentation by Customer Type
Segmentation by Sales Channel

MARKET FORECASTS

Total Revenue for AI in Machinery Market
Revenues by Region
   North America
   Europe, Middle East, Africa
   Asia
   Latin America
Revenues by Revenue Category
   Hardware
   Software
   Services
Revenues by Application
   Cybersecurity

Energy Management
HMI
Maintenance
Motion Planning
Operational Simulation & Optimization
Quality Control
Safety
Revenues by Technology
   Intelligent Systems

Machine Learning
   Machine Perception
   Natural Language Processing (NLP)
Revenues by Machinery Segment
Revenues by Customer Type
Revenues by Sales Channel

INDUSTRY PARTICIPANTS

The research identifies all relevant suppliers serving this market.

Worldwide AI in Machinery Market

Energy Management
HMI
Maintenance
Motion Planning
Operational Simulation & Optimization
Quality Control
Safety
Revenues by Technology
   Intelligent Systems

Machine Learning
   Machine Perception
   Natural Language Processing (NLP)
Revenues by Machinery Segment
Revenues by Customer Type
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3 ALLIED DRIVE  DEDHAM MA 02026 USA  781-471-1000  arcweb.com