

Machine Safety Market Outlook 2035: Doubling in Size to US\$ 11.1 Bn at 6.07% CAGR | Transparency Market Research

Rising automation drives machine safety shift from compliance to strategic, real-time solutions ensuring worker welfare and uptime.

WILMINGTON, DE, UNITED STATES, September 4, 2025 /EINPresswire.com/ -- The global [machine safety market](#), valued at US\$ 5,732.91 Mn in 2024, is projected to expand steadily at a CAGR of 6.07% from 2025 to 2035, reaching US\$ 11,146.90 Mn by the end of 2035. This growth is underpinned by stringent safety regulations, the accelerating pace of automation, and the widespread adoption of Industry 4.0 practices.



Machine safety is no longer viewed as a compliance requirement alone—it has become a strategic business enabler. As organizations adopt [robotics](#), smart machines, and AI-driven processes, ensuring the safety of workers, machines, and production lines is central to maintaining productivity and minimizing risks. Beyond safeguarding human lives, machine safety systems protect expensive equipment, reduce downtime, and support operational continuity, making them an indispensable element of modern manufacturing.



Machine safety is no longer just compliance it is a driver of efficiency, uptime, and trust in modern manufacturing."

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Market Overview: The machine safety market encompasses devices, systems, and practices designed to

prevent accidents and reduce operational risks. This includes emergency stop controls, safety sensors, interlock devices, safety relays, light curtains, and guarding mechanisms that comply with global safety standards such as ISO 13849, IEC 62061, and OSHA regulations.

Machine safety plays a crucial role in high-risk sectors such as automotive, heavy machinery, packaging, metalworking, and industrial automation, where safety and uptime are critical to business outcomes. By integrating advanced safety technologies with automation and connected systems, companies are not only mitigating hazards but also achieving greater efficiency and sustainability.

Key Drivers of Market Growth

1. Growing Awareness of Workplace Safety

Employers are increasingly prioritizing workplace safety due to the risks posed by advanced machinery. Organizations are focusing on preventive measures, safety workshops, and system monitoring to build a culture of shared responsibility. These initiatives significantly reduce workplace accidents and downtime while improving productivity.

2. Rising Automation Across Industries

The rapid adoption of robotics, AI, and automated machinery is driving the need for advanced safety systems. Automated processes demand integrated safety sensors, emergency stop features, and predictive monitoring tools to ensure smooth human-machine collaboration.

3. Stringent Regulatory Frameworks

Governments and international bodies are imposing strict workplace safety regulations. Compliance is not only mandatory but also financially advantageous, as it reduces liability and protects brand reputation.

4. Technological Advancements

Innovations in machine safety technologies—such as laser scanners, smart interlocks, and safety programmable controllers—are improving responsiveness, reliability, and flexibility in industrial settings.

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Key Players and Industry Leaders

The global machine safety industry is highly competitive, with several companies leading innovation and adoption:

- ABB
- Balluff GmbH
- Banner Engineering Corp.
- Bihl+Wiedemann GmbH
- Emerson Electric Co.
- Festo AG
- HIMA
- Honeywell International Inc.
- IDEC Corporation
- IFM Electronic

- Keyence Corporation
- Mitsubishi Electric Corporation
- Omron Corporation
- Pilz GmbH & Co.KG
- Rockwell Automation, Inc.
- Schneider Electric SE
- Sick AG
- Siemens AG
- Yokogawa Electric Corp
- Among Others

Recent Developments

- January 2025 – Mitsubishi Electric Corporation launched MELSEC iQR safety local IO modules RX40NC6S-TS and RY48PT20S-TS, designed to reduce safety costs and enhance efficiency in industrial automation.
- December 2023 – Balluff GmbH introduced the CIP Safety I/O module, enabling integration of safety-rated I/O devices with IP67 protection for harsh environments.
- ABB, Rockwell Automation, and Schneider Electric have also expanded portfolios to include AI-based safety monitoring systems and smart relays, enhancing predictive capabilities.

New Opportunities and Challenges

Opportunities:

- Integration with Industry 4.0: Demand for real-time monitoring, predictive maintenance, and connected safety solutions.
- Emerging Markets: Expanding industrialization in Asia-Pacific, Latin America, and the Middle East is fueling adoption.
- Human-Robot Collaboration (Cobots): Requires advanced safety systems to ensure seamless and safe operations.

Challenges:

- High Implementation Costs: Advanced machine safety systems demand significant investment, posing a barrier for SMEs.
- Legacy Systems Integration: Retrofitting older machinery with modern safety components requires specialized expertise and raises costs.
- Complexity of Standards: Multiple regional regulations make compliance challenging for global companies.

Latest Market Trends

- Smart Safety Systems: Integration of IoT and AI to enable predictive analytics and real-time safety monitoring.

- **Wireless and Remote Monitoring:** Increasing adoption of cloud-enabled safety systems for large-scale operations.
- **Customizable Safety Solutions:** Tailored safety solutions for specific applications such as packaging, metalworking, and material handling.
- **Collaborative Robotics (Cobots):** Development of advanced safety solutions to support human-machine interaction.
- **Sustainability-Driven Safety:** Companies are embedding safety solutions into broader ESG (Environmental, Social, Governance) frameworks.

Future Outlook

The machine safety market is expected to double by 2035, with safety becoming integral to automation strategies. Analysts emphasize that companies adopting safety early will become pioneers of sustainable and responsible manufacturing.

As AI, IoT, and robotics converge, safety systems will shift from reactive mechanisms to proactive, adaptive solutions capable of real-time decision-making. By 2035, machine safety will not only reduce risks but also enhance overall production resilience, sustainability, and competitiveness.

Market Segmentation

- **By Implementation:** Individual Components, Embedded Components
- **By Components:** Safety Sensors, Interlock Switches, Safety Controllers, Emergency Stop Controls, Machine Guards, Two-Hand Controls, Others
- **By Application:** Assembly, Material Handling, Metalworking, Packaging, Robotics, Others
- **By End-use Industry:** Automotive, Aerospace & Defense, Chemicals, Food & Beverages, Oil & Gas, Pharmaceuticals, Semiconductor & Electronics, Metals & Mining, Healthcare, Others
- **By Sales Channel:** Direct, Indirect

Application Highlight – Assembly Segment

The assembly segment held 38.33% market share in 2024 and remains the most significant contributor to machine safety adoption. Assembly processes involve high-risk machinery and robotics, necessitating strict safety integration to prevent accidents and enhance productivity.

Regional Insights

- **East Asia (Leading Region – 28.13% in 2024)**

Countries like China, Japan, and South Korea dominate due to advanced manufacturing, strict regulations, and rapid adoption of smart factories.

- **North America**

Driven by strong regulations (OSHA, ANSI), high automation adoption, and presence of leading safety technology providers.

- **Europe**

Emphasis on worker welfare, ESG policies, and Industry 4.0 initiatives drive machine safety investments in Germany, the U.K., and France.

- **South Asia & Latin America**

Emerging industrial hubs with growing demand for cost-effective safety solutions.

- Middle East & Africa

Gradual adoption driven by expanding oil & gas, mining, and manufacturing activities.

Why Buy This Report?

- Comprehensive Market Analysis – Covers growth drivers, restraints, opportunities, and emerging trends.
- In-Depth Competitive Landscape – Detailed profiles of leading players with product portfolio, strategies, and recent developments.
- Forecast Accuracy – Data-backed projections from 2025 to 2035.
- Regional and Segmental Insights – Helps identify high-growth regions and industry applications.
- Strategic Advantage – Enables businesses to align investments with future safety requirements and evolving regulations.

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