

Global Warehouse Robot Safety Scanner Market Growth 2026-2032

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Abstracts

The global Warehouse Robot Safety Scanner market size is predicted to grow from US\$ 567 million in 2025 to US\$ 1154 million in 2032; it is expected to grow at a CAGR of 10.8% from 2026 to 2032.

In 2025, global Warehouse Robot Safety Scanner production reached approximately 580 thousand units, with an average global market price of around USD 1000 per unit.

The gross profit margin of major companies in the industry was approximately 30%–48%.

In 2025, global production capacity of Warehouse Robot Safety Scanner was approximately 745 thousand units.

Warehouse Robot Safety Scanners are safety-rated sensing devices used on autonomous mobile robots, AGVs, and warehouse automation systems to detect people, obstacles, and hazardous zones. Most systems use safety laser scanning, LiDAR, or related optical sensing technologies to create configurable protective fields around moving equipment. They support collision avoidance, speed reduction, emergency stopping, navigation assistance, and compliance with industrial functional-safety requirements.

The industrial chain of Warehouse Robot Safety Scanner includes upstream lasers, photodetectors, optical components, motors, encoders, processors, safety controllers, housings, and connectors; midstream covers optical design, sensor assembly, safety-algorithm development, firmware development, calibration, functional-safety testing, certification, and packaging; downstream applications mainly include AMRs, AGVs,

warehouse robots, logistics centers, automated factories, distribution centers, and material-handling systems.

United States market for Warehouse Robot Safety Scanner is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Warehouse Robot Safety Scanner is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Warehouse Robot Safety Scanner is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Warehouse Robot Safety Scanner players cover SICK AG, KEYENCE CORPORATION, OMRON Corporation, Leuze electronic GmbH + Co. KG, Pepperl+Fuchs SE, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Warehouse Robot Safety Scanner Industry Forecast" looks at past sales and reviews total world Warehouse Robot Safety Scanner sales in 2025, providing a comprehensive analysis by region and market sector of projected Warehouse Robot Safety Scanner sales for 2026 through 2032. With Warehouse Robot Safety Scanner sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Warehouse Robot Safety Scanner industry.

This Insight Report provides a comprehensive analysis of the global Warehouse Robot Safety Scanner landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Warehouse Robot Safety Scanner portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Warehouse Robot Safety Scanner market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Warehouse Robot Safety Scanner and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging

pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Warehouse Robot Safety Scanner.

This report presents a comprehensive overview, market shares, and growth opportunities of Warehouse Robot Safety Scanner market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Laser Safety Scanners

Vision-based Safety Scanners

Radar-based Safety Scanners

Segmentation by Detection Coverage:

Two-dimensional Area Scanners

Three-dimensional Volume Scanners

Multi-sensor Fused Scanners

Segmentation by Safety Detection Range:

Short-range??5 m?

Medium-range??5–15 m?

Long-range??15 m?

Segmentation by Application:

Obstacle and Personnel Detection

Protective Field Monitoring

Collision Avoidance and Emergency Stop

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

SICK AG

KEYENCE CORPORATION

OMRON Corporation

Leuze electronic GmbH + Co. KG

Pepperl+Fuchs SE

Hokuyo Automatic Co., Ltd.

Pilz GmbH & Co. KG

Rockwell Automation, Inc.

Banner Engineering Corp.

Hesai Technology Co., Ltd.

Shenzhen RoboSense Technology Co., Ltd.

Nanjing Wavelength Opto-Electronic Science & Technology Co., Ltd.

Shanghai Slamtec Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Warehouse Robot Safety Scanner market?

What factors are driving Warehouse Robot Safety Scanner market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Warehouse Robot Safety Scanner market opportunities vary by end market size?

How does Warehouse Robot Safety Scanner break out by Type, by Application?

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