

# Global Connectors for Robots Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Connectors for Robots market size was valued at US\$ 432 million in 2025 and is forecast to a readjusted size of US\$ 960 million by 2032 with a CAGR of 11.9% during review period.

Connectors for Robots are Interconnect products used in robots to reliably transmit power, control signals and high-speed data, typically delivered as connector + contacts/terminals + seals + cable/harness + tested cable assembly. Key requirements include continuous flex (drag-chain), vibration/shock resistance, oil/coolant resistance, EMC shielding, quick/field installation, and ingress protection (IP per IEC 60529). In 2025, global robotic connectors production reached approximately 14314 k units. Upstream inputs include copper/copper-alloy contacts, engineered plastics for insulators and housings, metal shells and EMI shielding materials, elastomer seals for IP protection, and highly flexible cables designed for continuous bending/torsion in robotic dress packs (e.g., robot cable families emphasizing torsional durability). Downstream demand comes from robot OEMs (industrial robots/cobots/AMRs), end-effector and tool-changer suppliers, factory-automation system integrators, and sensor/vision ecosystems that require robust power and high-integrity data links in harsh, high-vibration environments.

The market for connectors for robots is experiencing steady growth, driven by the continued expansion of industrial robots, collaborative robots, and mobile robots across global manufacturing and logistics sectors. As factories evolve toward higher levels of automation, flexibility, and digitalization, robotic systems increasingly require interconnect solutions that support high-speed data transmission, reliable power delivery, vibration resistance, ingress protection, and rapid maintenance. As a result,

connectors are shifting from being generic electronic components to becoming mission-critical, high-reliability system elements. While industrial circular connectors such as M8 and M12 remain the dominant formats, demand is rising for push-pull locking mechanisms, hybrid power-and-data connectors, industrial Ethernet, and fiber-optic interfaces to enable higher density, miniaturization, and bandwidth. Regionally, demand is concentrated in China, Europe, Japan, and North America, where robot deployment and automation intensity are highest. Overall, the market is characterized by rising technical barriers, a trend toward integrated and modular interconnect solutions, and strong correlation with the investment cycle of the robotics industry, making it a structurally attractive growth niche within the industrial components sector.

This report is a detailed and comprehensive analysis for global Connectors for Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Connectors for Robots market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Connectors for Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Connectors for Robots market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Connectors for Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Connectors for Robots

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Connectors for Robots market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HIROSE ELECTRIC, IRISO, Amphenol, TE Connectivity, HARTING, Phoenix Contact, Belden, Molex, Weidumlller, Samtec, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Connectors for Robots market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Power Connectors

Signal Connectors

Pneumatic / Fluid Interfaces

Others

Market segment by Mating Mechanisms

Threaded

Bayonet

Push-Pull

Others

## Market segment by Form Factor

Round

Rectangular

Board-level

Others

## Market segment by Channels

Online

Offline

## Market segment by Application

Industrial Robots

Collaborative Robots

Medical Robots

AMR / AGV

Others

## Major players covered

HIROSE ELECTRIC

IRISO

Amphenol

TE Connectivity

HARTING

Phoenix Contact

Belden

Molex

Weidumlller

Samtec

Beisit Electric

Binder

LEMO

Shenzhen Taihua Electronics Co., Ltd

Nextronics Engineering Corp

WCON

JCTC

ODU Group

NorComp

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East)

& Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Connectors for Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Connectors for Robots, with price, sales quantity, revenue, and global market share of Connectors for Robots from 2021 to 2026.

Chapter 3, the Connectors for Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Connectors for Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Connectors for Robots market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Connectors for Robots.

Chapter 14 and 15, to describe Connectors for Robots sales channel, distributors, customers, research findings and conclusion.

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