

# Global Lightweight Collaborative Robot Arm Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lightweight Collaborative Robot Arm market size is expected to reach \$ 6350 million by 2032, rising at a market growth of 12.0% CAGR during the forecast period (2026-2032).

In 2025, global Lightweight Collaborative Robot Arm reached approximately 78.9 K units, with an average global market price of around 35,250 USD/unit.

Lightweight Collaborative Robot Arm refers to a compact, low-weight robotic manipulator designed for human-robot collaboration in shared workspaces, typically featuring a lightweight structure (usually 3-15 kg), inherent safety mechanisms (such as force/torque sensing, collision detection), and user-friendly programming interfaces. It integrates precision drive systems, advanced sensors, and flexible control algorithms to ensure safe interaction with humans while completing tasks like picking, assembly, handling, and inspection, and is widely used in scenarios requiring high flexibility and close human-machine cooperation, such as small-batch manufacturing, electronic assembly, and medical auxiliary operations.

Demand for Lightweight Collaborative Robot Arm is primarily driven by the increasing trend of flexible production in manufacturing (adapting to small-batch, multi-variety production needs), the growing emphasis on workplace safety and labor cost optimization, and the expanding application of collaborative robots in emerging fields such as medical care, logistics, and service industries. Business opportunities lie in the development of more lightweight, high-precision models with improved load-to-weight ratios, the integration of AI and vision recognition technologies to enhance autonomous decision-making capabilities, the expansion of cost-effective product lines to meet the needs of small and medium-sized enterprises, and the exploration of customized solutions for specific industries (such as medical surgical assistance and electronic component micro-assembly).

This report studies the global Lightweight Collaborative Robot Arm production, demand,

key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lightweight Collaborative Robot Arm and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lightweight Collaborative Robot Arm that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Lightweight Collaborative Robot Arm total production and demand, 2021-2032, (K Units)

Global Lightweight Collaborative Robot Arm total production value, 2021-2032, (USD Million)

Global Lightweight Collaborative Robot Arm production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Lightweight Collaborative Robot Arm consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Lightweight Collaborative Robot Arm domestic production, consumption, key domestic manufacturers and share

Global Lightweight Collaborative Robot Arm production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Lightweight Collaborative Robot Arm production by Degree Of Freedom (DOF), production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Lightweight Collaborative Robot Arm production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Lightweight Collaborative Robot Arm market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kinova, Universal Robots, F&P Robotics, TECHMAN ROBOT, igus, Kassow Robots, Elite Robots, KUKA, OMRON Robotics, ABB, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lightweight Collaborative Robot Arm market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Degree Of Freedom (DOF), and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

## Global Lightweight Collaborative Robot Arm Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Lightweight Collaborative Robot Arm Market, Segmentation by Degree Of Freedom (DOF):

4-DOF

6-DOF

7-DOF

## Global Lightweight Collaborative Robot Arm Market, Segmentation by Payload Capacity:

Ultra-Light Load Type (5 Kg)

## Global Lightweight Collaborative Robot Arm Market, Segmentation by Mounting & Mobility:

Fixed Type

Mobile Platform-Mounted Type

Desktop Type

Global Lightweight Collaborative Robot Arm Market, Segmentation by Application:

3C Electronics

Automotive Manufacturing

Logistics & New Retail

Medical & Rehabilitation

Others

**Companies Profiled:**

Kinova

Universal Robots

F&P Robotics

TECHMAN ROBOT

igus

Kassow Robots

Elite Robots

KUKA

OMRON Robotics

ABB

Yaskawa

Elephant Robotics

Dobot

LEBAI

Realman

Franka Robotics

**Key Questions Answered:**

1. How big is the global Lightweight Collaborative Robot Arm market?
2. What is the demand of the global Lightweight Collaborative Robot Arm market?
3. What is the year over year growth of the global Lightweight Collaborative Robot Arm market?
4. What is the production and production value of the global Lightweight Collaborative Robot Arm market?
5. Who are the key producers in the global Lightweight Collaborative Robot Arm market?
6. What are the growth factors driving the market demand?

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