

# Europe Soft Robotics Market Size, Share, Trends & Analysis by Type (Crawling Robots, Edible Robots, Inflatable Robots, Soft Exoskeletons, Soft Grippers, Swimming Robots, Others), by Component (Hardware, Software), by End-User (Healthcare, Advanced Manufacturing, Food and Beverages, Logistics, Others) and Region, with Forecasts from 2025 to 2034.

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## Abstracts

The Europe Soft Robotics Market is expected to witness strong growth between 2025 and 2034, driven by advancements in automation technologies, material science, and the increasing adoption of robotics across diverse industries. Soft robotics uses flexible and compliant materials to mimic biological systems, enabling safer human-robot interactions and handling of delicate or irregular objects. The market is gaining traction in healthcare, manufacturing, logistics, and food industries as organizations seek efficient, adaptive, and sustainable robotic solutions. Valued at USD XX.XX billion in 2025, the market is projected to grow at a CAGR of XX.XX%, reaching USD XX.XX billion by 2034.

## Definition and Scope of Soft Robotics

Soft Robotics refers to a new generation of robotic systems designed with deformable and bio-inspired materials to enhance flexibility, adaptability, and safety. Unlike traditional rigid robots, soft robots are capable of performing complex movements and handling fragile tasks. The market encompasses crawling robots, edible and inflatable robots, soft exoskeletons, swimming robots, and soft grippers, alongside their hardware and software components. These solutions are being adopted across healthcare, advanced manufacturing, logistics, and food & beverage industries to improve efficiency

and human-machine collaboration.

## **Market Drivers**

**Rising Adoption in Healthcare:** Growing use of soft exoskeletons and rehabilitation robots for elderly care, patient recovery, and surgical assistance is boosting demand.

**Advancements in Manufacturing Automation:** European manufacturers are increasingly deploying soft robotics to enhance precision, safety, and productivity in production lines.

**Food and Beverage Industry Growth:** Demand for soft grippers to handle fragile products such as fruits, vegetables, and baked goods is expanding in compliance with EU food safety standards.

**Innovation in Material Science and AI Integration:** Ongoing R&D in smart materials, sensing technologies, and AI-driven control systems is enhancing the efficiency and capabilities of soft robotic solutions.

## **Market Restraints**

**High Development Costs:** Advanced design, prototyping, and production costs of soft robotics limit widespread adoption, particularly among SMEs.

**Durability and Performance Challenges:** Limited load-bearing capacity and wear resistance pose technical barriers for certain industrial applications.

**Skill Shortages:** A lack of specialized workforce trained in robotics, AI, and materials engineering is slowing down market adoption.

## **Opportunities**

**Expansion of Soft Exoskeletons in Industrial and Defense Applications:** Growing interest in wearable robotics to improve worker safety and soldier endurance presents significant opportunities.

Integration with IoT and AI: Smart, connected robotic systems can enhance automation, predictive maintenance, and real-time adaptability.

Rising Adoption in E-commerce and Logistics: Soft robotic handling systems are being increasingly applied in warehouses and packaging operations.

Biodegradable and Edible Robotics Research: Innovations in environmentally friendly and health-focused robotic designs present niche opportunities in Europe's sustainability-driven markets.

## Market Segmentation Analysis

### By Type

Crawling Robots

Edible Robots

Inflatable Robots

Soft Exoskeletons

Soft Grippers

Swimming Robots

Others

### By Component

Hardware

Software

### By End-User

Healthcare

Advanced Manufacturing

Food and Beverages

Logistics

Others

## Regional Analysis

**Germany:** Germany leads Europe's soft robotics market, driven by strong industrial automation, advanced manufacturing technologies, and government support for robotics innovation.

**UK:** The UK's soft robotics market grows with rising healthcare automation, AI integration, and increasing research in flexible robotic systems.

**France:** France experiences robust growth due to advancements in robotic materials, strong R&D infrastructure, and adoption in aerospace and medical applications.

**Italy:** Italy's soft robotics market benefits from automation in manufacturing and food processing, alongside strong academic-industry collaborations and innovation funding.

**Spain:** Spain's growing focus on robotics in agriculture and logistics, coupled with supportive government initiatives, drives the expansion of soft robotics.

**Rest of Europe:** The Rest of Europe shows steady growth supported by increasing investments in industrial robotics, research programs, and cross-border technological collaborations.

The Europe Soft Robotics Market is positioned for robust expansion, driven by automation needs, sustainability initiatives, and technological innovation. With industries increasingly demanding safe, adaptive, and intelligent robotic solutions, the market will see rising opportunities across healthcare, logistics, and manufacturing sectors.

## Competitive Landscape

The Europe Soft Robotics Market is competitive, with companies investing in R&D, partnerships, and pilot projects to expand applications. Key players in the market include:

Soft Robotics Inc.

RightHand Robotics

Festo AG & Co. KG

ABB Ltd.

KUKA AG

Schunk GmbH & Co. KG

Ekso Bionics Holdings Inc.

Bionik Laboratories Corp.

Yaskawa Electric Corporation

ReWalk Robotics Ltd.

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