

ROBOTIC AUTOMATION IN FOOD & BEVERAGE



In an ever-changing global landscape, the Food & Beverage industry is subject to various economic, political and social influences and stimuli. Nevertheless, from a technological point of view, it is crucial to examine the market in order **to respond to customer needs through accurate and effective strategic support processes**. Among the innovations that push the food and beverage industry to expand is the **use of robotics and industrial automation systems to replace many of the manual procedures**.

Estimates for the Mobile Robot Market in Food & Beverage



The growing demand for automation in the sector has specifically concerned **mobile robots**, whose market has experienced significant development in recent years. The increasing focus on food safety regulations and the need for cost-effective solutions has also convinced several Food & Beverage companies to adopt these advanced technologies.

This is also demonstrated by a recent report published by *Fact.MR*, a research company specialising in a variety of sectors such as logistics, healthcare, automotive, manufacturing, electronics, etc. It is estimated to reach a valuation of around **USD 2.47 billion in 2023 for the global robotic automation market in the Food & Beverage sector**. The research also showed a **Compound Annual Growth Rate (CAGR) of 12% for global food robotics demand** between 2023 and 2033.

The countless applications and remarkable benefits



Their multiple applications range from food and beverage **warehouses** to **distribution centres**, but also within **production facilities** to improve productivity and operational efficiency. In fact, by taking advantage of robotic automation, logistical operations and resource utilisation are optimised and also human errors are reduced, resulting in increased productivity.

Furthermore, mobile robots ensure **maximum precision**, both in intralogistics processes and in activities such as handling, packaging and quality control, while maintaining product integrity.

In an industry where hygiene and safety are priorities that must be totally fulfilled, these special vehicles are able to fully comply with the imposed guidelines, **minimising the risk of contamination and ensuring consumer safety.**

This specific business sector also includes the use of automated solutions for the **efficiency of production processes**, for the connection of manufacturing lines (e.g. between the warehouse and the palletising station), for the replenishment of raw materials and boxes, for the removal of waste material, as well as for the packaging and distribution of diverse materials.