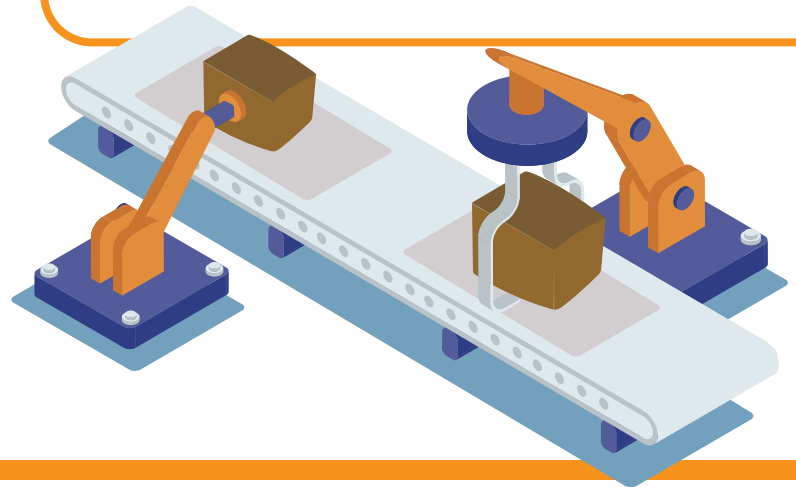


CONCEPT Logistics refers to the use of robotic systems to streamline and optimize the movement of goods and materials throughout the supply chain. This can involve the use of automated guided vehicles (AGVs) and mobile robots to transport items within warehouses and distribution centers, as well as the use of automated picking and packing systems to optimize the order fulfillment process.

APPLICATION

Amazon has been using a fleet of more than 200,000 robots in its warehouses to move goods and materials, reducing the need for human labor and improving efficiency.

By using Kiva robots in their logistics operations, Amazon has significantly reduced order processing times and improved inventory management. The company reports the use of robots has allowed them to store more items in their warehouses and fulfill orders faster, which has contributed to their rapid growth and success.



BACKGROUND

The history of logistics in robotics dates back to the mid-20th century when the first automated guided vehicles (AGVs) were developed. These early systems were simple, using magnetic tape or wires to guide the vehicles around a factory or warehouse. Over time, AGVs and other automated logistics systems became more sophisticated, incorporating advanced sensors, computer vision and artificial intelligence. The use of robotics in logistics has continued to grow in recent years, driven by advances in technology, the need for greater efficiency and cost savings and the rise of e-commerce.