

# THE ABCs OF AMRs

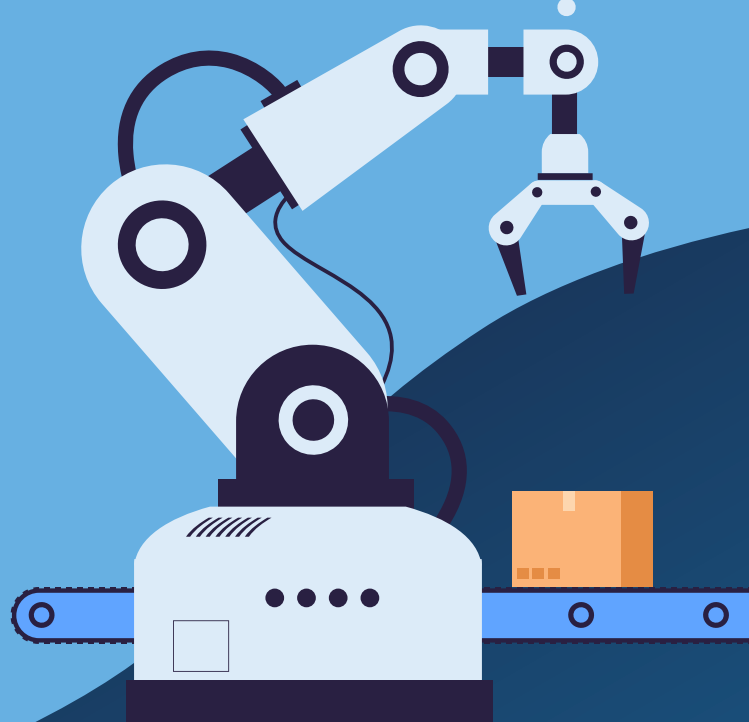
## WAR OF THE MACHINES:

Are Robots Working Overtime to Improve Operational Efficiency in Warehouses and Distribution Centers?



### WHAT ARE AMRs?

**Autonomous mobile robots** or AMRs are shuttling goods down aisles, pulling product off stack after stack—and they're doing it faster, cheaper, and more efficiently than their human counterparts. Most are equipped with **360-degree sensing** to see the work environment in real time and adjust their routes on the fly, avoiding obstacles in their way.



#### THEY CAN:

COMPLETE

4x

the number of orders fulfilled each day.

Move payloads up to

15,000

pounds with ease.

Stock up to

50%

more inventory in the same footprint.



### WALK THIS WAY

In a manual warehouse, a picker typically walks 12-15 miles per shift. An AMR can reduce that to roughly two miles of walking per shift.

The average size of warehouses in 2000 was around 65,000 square feet, compared to

200,000+

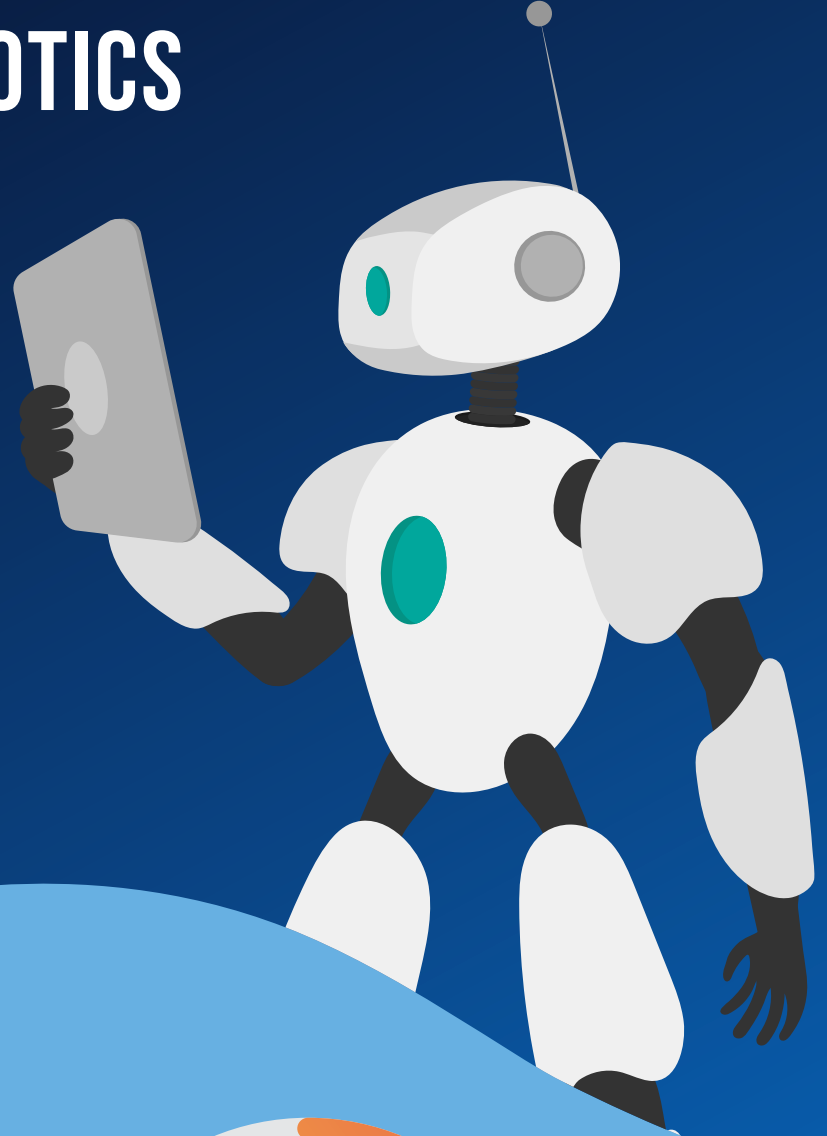
square feet in 2020.



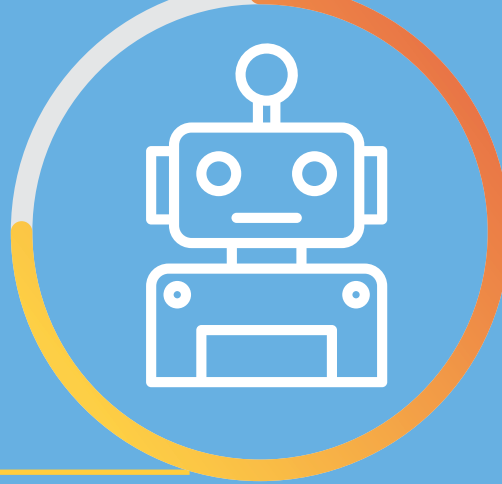
AMRs PERFORM UP TO 80% OF THE MANUAL TASKS, FREEING UP PERSONNEL TO FOCUS ON HIGHER VALUE CRITICAL THINKING TASKS FOR OPERATIONS.

### THE OPTICS ON ROBOTICS ARE BRIGHT

Demand for robots has grown since 2020 as companies have faced massive swings in volume, the explosive growth of ecommerce, and a tightening labor market for logistics and distribution work.



More than **70%** of order fulfillment operations deploying AMRs have noted double-digit improvement in KPIs like cycle time, inventory efficiency, and productivity.



600k

Warehousing robotic units will be in use by the end of 2021—15 times the number in use in 2016.

Mobile robotics in material handling and logistics will become a

\$75B

market by 2027 and

is expected to hit

\$150B

by 2038.



### ARE ROBOTS IN YOUR FUTURE?

With ecommerce on the rise, can distributors stay out in front without leveraging the advantages of AMRs?

Will the benefits of AMRs (lower labor costs, improved cycle times, and increased efficiency) lead to faster deliveries, reduced expenses, happier customers, and higher profits?

Learn more about the use of AMRs in the distribution industry.

[Read the Blog](#)

Sources: ARC Advisory Group, DC Velocity, DHL, Gartner, Inc., Global Warehouse Robotics Market Report, International Data Corporation, International Federation of Robotics, and Robotic Industries Association

**Vistex**

Now it all adds up

[www.vistex.com](http://www.vistex.com) | [info@vistex.com](mailto:info@vistex.com)

© Copyright 2021 Vistex, Inc. All rights reserved.