

Stretch[®]

for Case Pick

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Building Every
Order With Power
and Precision



BostonDynamics



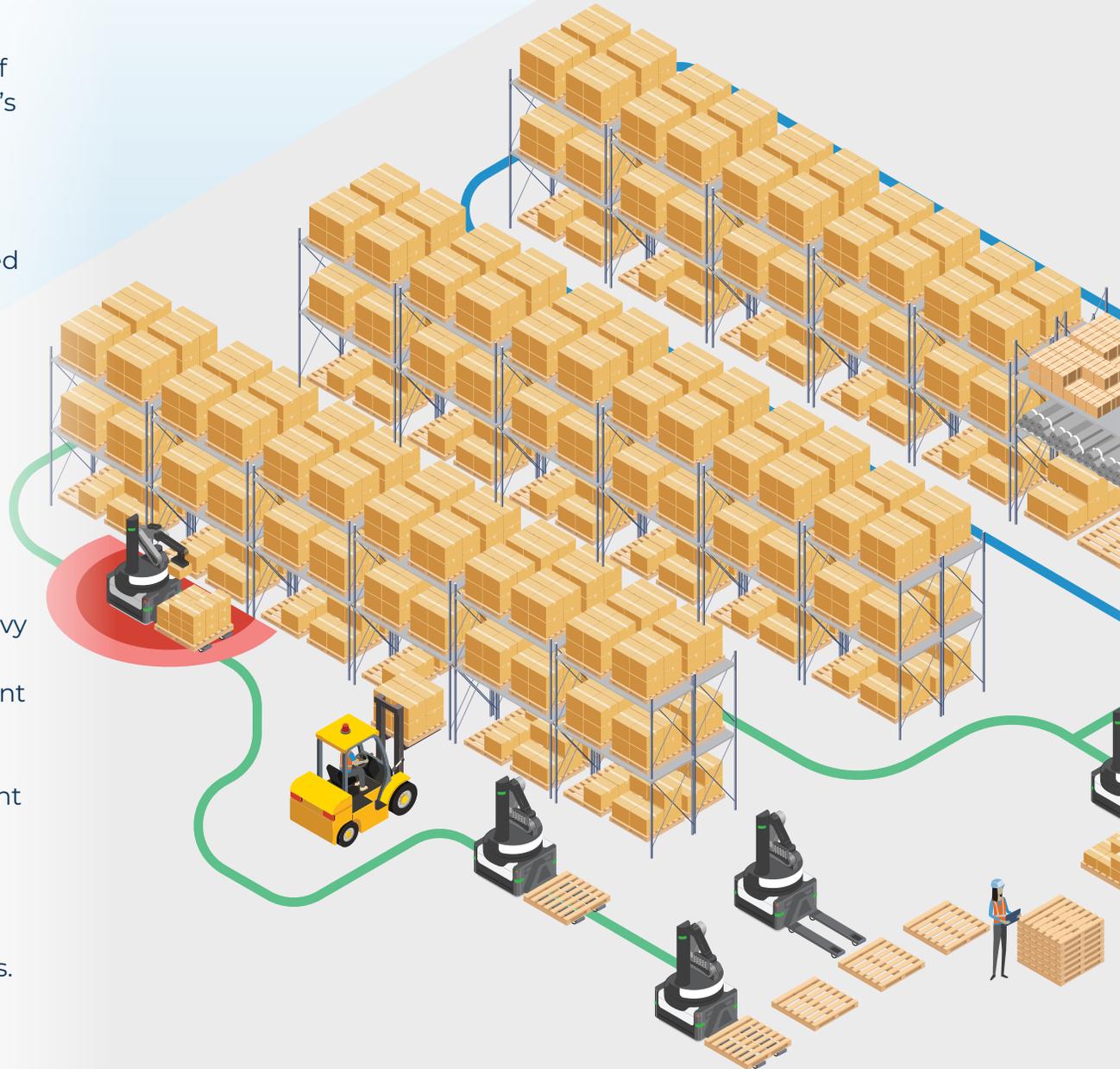
CASE PICKING WITH STRENGTH & INTELLIGENCE

Build orders with ease and efficiency. The Stretch® robot takes on the repetitive strain of high-volume picking and powers your facility's most demanding shifts.

Phase out the physical demands of roaming aisles and lifting heavy boxes with the switch to automated case picking. Using its advanced vision system, Stretch identifies, grasps, and stacks boxes, building palletized orders that are ready to be shipped to your customers. See order accuracy improve as Stretch works with precision, and better throughput predictability as Stretch works at a steady pace with long runtime.

Integrate seamlessly

Stretch provides automation without the heavy infrastructure, so there's no need to redesign your site. Fully mobile with a compact footprint the size of a standard pallet, Stretch is made to work across the warehouse and integrates seamlessly with your Warehouse Management System (WMS) via our Orbit™ software. Starting with wide-aisle picking in ambient racking, Stretch's development will graduate to progressively narrower aisles, open pallet storage fields, and cold storage environments.





In sync with your system

Manage your Stretch case picking fleet and operation in Orbit, using live maps to monitor performance and dashboards to analyze trends. The Orbit Case Pick API is WMS-agnostic to interface with any warehouse management system.



Flexibility for freight and environment

With a custom-built arm designed to work under racking, Stretch can grasp cases from various angles and orientations, easily maneuvering to access boxes. The robot's extra joint enables optimized arm movements, so Stretch can maintain a top-up orientation without compromising product integrity.

Stretch works with a wide range of taped cardboard boxes, with a minimum case length of 6 inches (15 cm) in two dimensions and up to 36 inches (91 cm) in any dimension, with the possibility to support smaller cases depending on configuration. The robot can work with a wide range of exception cases, including shrink wrap, damaged cases, slip sheets, and misplaced labels.

Building pallets with precision

Stretch builds dense, stable pallets up to 6 feet (1.8 m) tall with mixed height layers and a variety of SKUs. Stretch supports common pallet sizes including standard GMA and EUR pallets. When finished, the robot tows pallets to staging locations for outbound shipment preparation.

Stretch ensures inventory accuracy by scanning relevant pick slot or LPN barcodes before picking, and sending updates back to your WMS as it picks and places cases.

SPECIFICATIONS

Maximum case weight

50 pounds (23 kg)

Towable pallet weight

Up to 2,866 lbs (1,300 kg)

Maximum vertical and horizontal reach

10.5 feet (3.2 m) | 6.4 feet (1.95 m)

Eligible types of cases

Rectangular cardboard boxes with taped or glued flaps; most common case wear and tear is acceptable

Suitable area for operation

Aisles at least 10 feet wide (3 meters)

Pallet sizes supported

Standard GMA, EUR/EPAL, and square pallets

Supported case size

At least 6 inches (15 cm) in two dimensions and up to 36 inches (91 cm) in any dimension, with the possibility to support smaller cases depending on configuration

Battery life

Lasts up to 16 hours

Charging time

Reaches 90% of charge in 1 hour 45 minutes with Fast Charger

Driving speed

Up to 2 meters/second

Operating environment temperatures

41° - 113° F | 5° - 45° C

Footprint

40 x 48 inches (1 x 1.25 m)

Robot's weight

3,307 pounds (1,500 kg)



GET STARTED WITH STRETCH TODAY

Contact our sales team to learn more about how you can implement the Stretch robot on your team:
bosdyn.co/stretch

Visit our website at:
www.bostondynamics.com

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