

Stretch[®]

for trailer and
container unloading

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Heavy Lifting for
Peak Throughput



A POWERFUL HELPING HAND FOR THE WAREHOUSE

Offload the strain and the bottlenecks, and maximize your inbound productivity with improved efficiency and safety.

Stretch does the heavy lifting, unloading floor-loaded trailers and containers autonomously. Daily and in peak season, Stretch helps you meet operational goals reliably.





“

We've continued to roll out the robot and expand its presence in our facilities. We have been able to reduce injury rates, reduce turnover, and improve predictable flow into the building with the robot. So we continue to push it out into our facilities, and we continue to learn from it.”

Matthew Dippold

Director of Operations Excellence - Innovation
DHL Supply Chain



Unloads continuously

Just set Stretch to begin, and the robot will power through up to two shifts, unloading quickly at a rate of 600 to 800 cases per hour. Since Stretch doesn't tire out this rate remains steady, setting a predictable workflow that managers can plan operations around. The robot works autonomously, even recovering boxes that may fall during the unloading process automatically.

Strength and flexibility for a tough task

Stretch works with cartons of many types and sizes, from standard brown to highly graphical. Its vacuum gripper can handle boxes up to 50 pounds.



“

Gap Inc. has found great utility in Stretch across our distribution network, and while we introduce these machines in more facilities across our network, we've been impressed with its potential to increase efficiency and help reduce staff injuries and turnover in our distribution centers.”

Kevin Kuntz

SVP, Global Logistics
Fulfillment at Gap Inc.

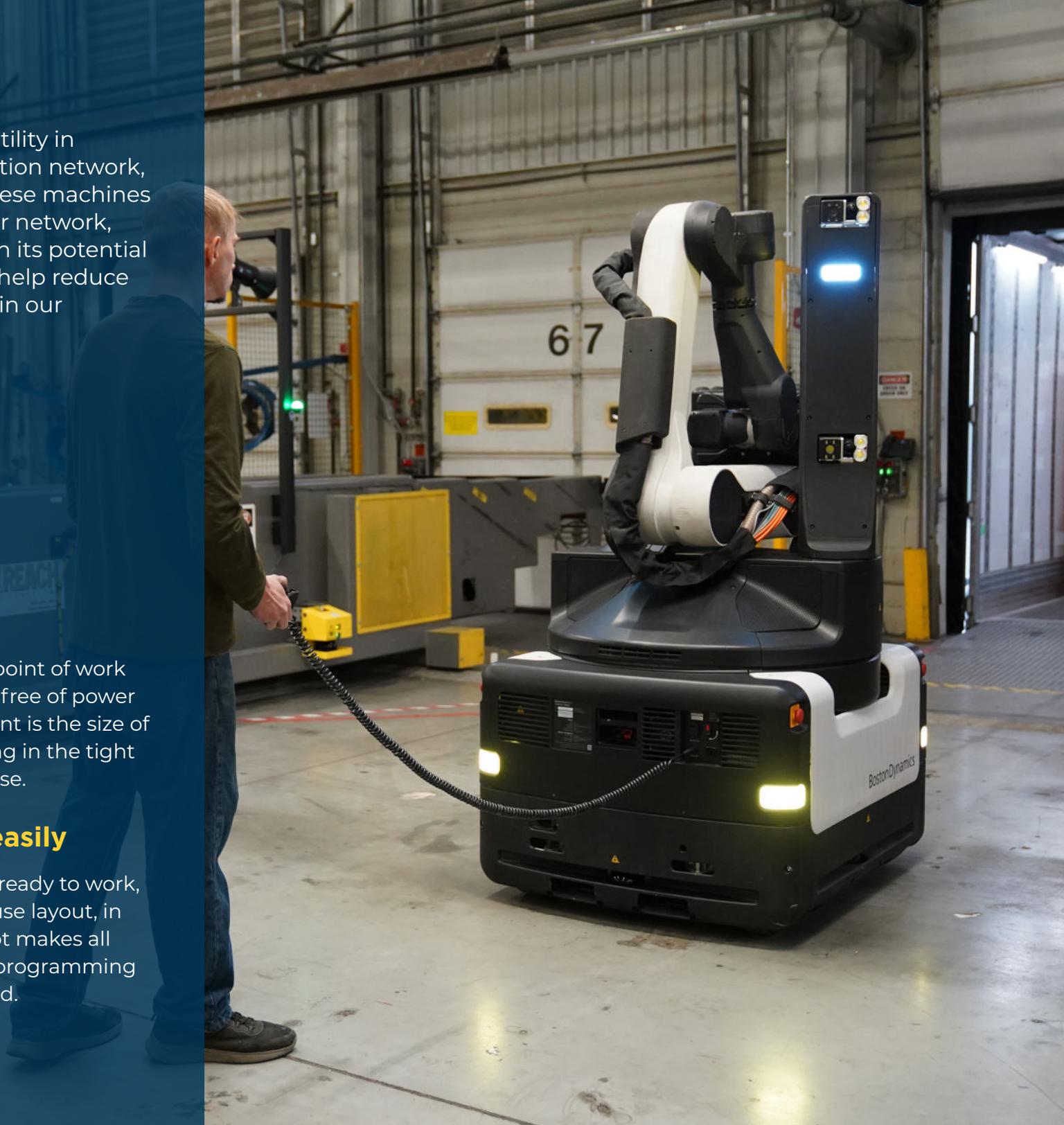
Gap Inc.

Mobile and compact

Stretch can travel from one point of work to another, with full mobility free of power or air lines. The base's footprint is the size of a pallet, ideal for maneuvering in the tight spaces of a truck or warehouse.

Deploy quickly and easily

Stretch can be installed and ready to work, within your existing warehouse layout, in just 5 days or fewer. The robot makes all decisions in real time, so no programming of box sizes or types is needed.





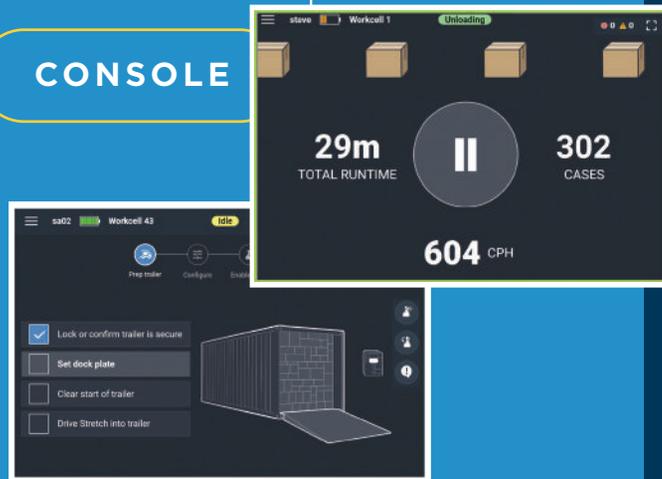
PENDANT



Intuitive controls

Stretch was built with ease of use in mind. Drive the robot into place using the ergonomic pendant. Then switch over to the console, and use the step by step wizard to start up the robot. View the robot's progress through the container, and manage multiple Stretch robots from one console.

CONSOLE



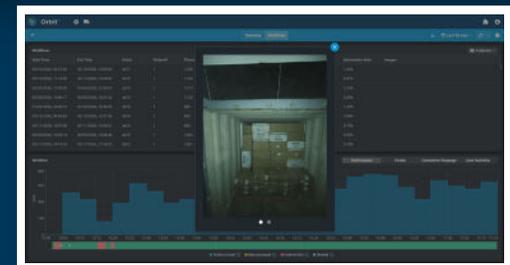
Fast charger

Maximize Stretch's productivity with rapid charging. With a 90% charge in under 2 hours, fast charging adds up to continual unloading.



Translate raw data into peak throughput

Get visibility into what's happening in your trailer. With Orbit's Performance Dashboards, transform unloading metrics into a clear roadmap for efficiency. Dive deep into workflow data, monitor fluctuations in performance like dropped cases or multipicks, and use captured images to see exactly how trailer conditions impact speed.



Label Sense

This feature may be ideal for warehouses with an ASRS or a sortation system with label scanning. Stretch can place cases on the conveyor with the labels facing the same direction each time, enabling cameras to scan each barcode for seamless downstream integration.

Works with common conveyor types

Stretch is already working with all of the major makes and models of telescopic conveyors and can be easily integrated into most. The robot communicates wirelessly with the conveyor, so it extends and retracts with Stretch.

Automatic backout

After Stretch picks the last box in a container, the robot automatically backs up while retracting the conveyor and returns to the entrance of the container — eliminating the need for a person to retract the conveyor and drive the robot out. Stretch will even retrieve any remaining boxes that may have fallen to the ground during the process of unloading. An operator can then drive Stretch over to another dock door to unload.

“

Seasonal planning is very important to our operations. There are often unknowns in the supply chain. With Stretch being very consistent on its unload rate, we can plan additional capacities where we need them. We can also plan for off hours where we may not have a scheduled shift in place, with just one operator putting Stretch into a truck.”

PHILIPP RÜCKER

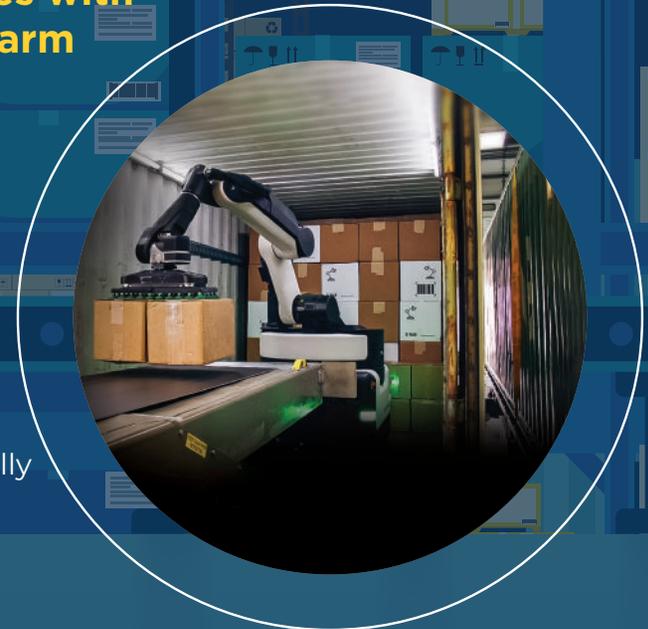
Vice President Logistics Engineering, Arvato

arvato

Pick multiple cases with one swing of the arm

With the Multipick capability, Stretch can grasp multiple boxes with each swing of the arm, boosting work speed and efficiency.

Rather than dumping those boxes on the conveyor, Stretch carefully places and spaces each one, in a way that aligns with sortation systems for scanning.



SPECIFICATIONS

Maximum case weight

50 pounds (23 kg)

Maximum vertical and horizontal reach

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

Footprint

40 x 48 inches (1 x 1.25 m)

Weight

2,866 pounds (1,300 kg)

Suitable trailers for operation

Standard/high-cube containers (20/40 foot), enclosed cargo trailer, and curtainsider trailer

Battery life

Lasts up to 16 hours

Eligible conveyor types

Telescopic conveyors of various brands

Eligible types of cases

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

Eligible case sizes

The minimum length of any surface is 6 inches (15 cm), and the maximum is 36 inches (91 cm).

Unloading case rate

600-800 cases per hour

No required lighting in trailer

Stretch's camera system is equipped with onboard lighting to illuminate the environment for its vision system.

No pre-programming required to handle your boxes

Stretch, using its machine learning-trained vision system, detects cases and makes all case handling decisions in real time.

Operating environment temperatures

41° - 113° F | 5° - 45° C

Fast charger

Typical charge time to 90% under nominal conditions: 2 hours

EU compliance and conformity

Stretch is in conformity with Machinery Directive 2006/42/EC, EMC Directive 2014/30/EU, and Radio Equipment Directive 2014/53/EU. Stretch applies state of the art protective devices and complies with all relevant international safety technical standards.

OUR CUSTOMERS





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

Modified: 02/2026

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