

Truck Unload

Automated Trailer Unloading

Unload your floor loaded trailers, trucks, and containers with the push of a button. The Dexterity Truck Unloader gets boxes into your warehouse quickly for downstream sortation, order building or storage. Our mobile robot unloads at the speed of your operations and can navigate between dock doors easily so your automated truck operations run continuously.

Full Trailer Reach

Reach the full dimensions of the trailer with robots that have software to unload your trucks or containers with minimal human intervention

Ready for Your Operations

Dexterity's picking and packing algorithm has been hardened by millions of picks in complicated production environments. We're ready to unload mixed size cases, dropped boxes, and toppled walls.

Workflow Flexibility

Dexterity robots streamline your workflow, unloading trucks, and trailers, and seamlessly integrate with your existing conveyance systems. With a mobile base, our unloader can move between dock doors wherever you need unloading done.

One Platform

Our truck-loading solution's plug-and-play software architecture seamlessly integrates with other Dexterity warehouse products, facilitating effortless warehouse transformation all on one efficient truckload and unload hardware and software platform, without the need for costly integration.

Key Performance Metrics

500-700 CPH

operational rate

Unload to Pal

fully integrated solution to build pallets

2.23 m (87.8 in)

robot reachability

<0.09%

packages damaged

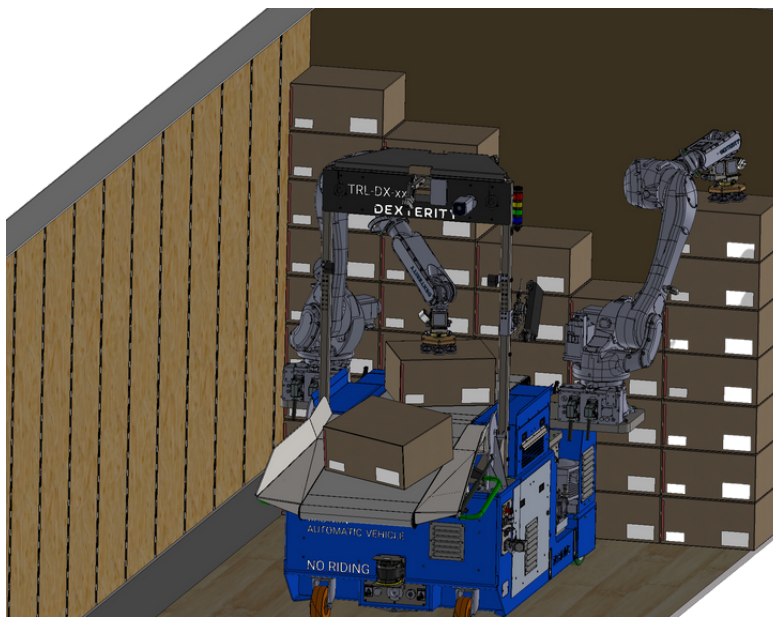
Multi-Dock Coverage

optimize utilization by moving robot between dock doors

24/7

production support





Truck Unload Specifications

Performance

Cases per Hour: 500 - 700

Operating Temperature: 0-45 C

Standard System Dimensions

Overall height: 94.5" (2.403m)

Overall width: 47" (1.196m)

Base length: 87.5" (2.224m)

Base height: 41.75" (1.060m)

Standard Case Range

Max Case Weight: <33lbs

Min Case Size: 8"x8"x1"

Max Case Size: 24"x24"x24"

Facilities

Power: 24A, 3-Phase 208V input

Network: Required only for SW updates, logs, and debugging; not required for normal operations
3-5MBps

Features

Dock Ready Robots: Guide the rover into the dock and the system will autonomously drive in and out of the truck as it unloads.

Safety Driven Design: Hardware and software integrate with an approachable user interface to ensure safe operations both inside and outside the truck. Safety features include: Onboard E-Stop, Detachable E-Stop, Stack Light with Audible Alarm, Safety Laser Scanners, Reverse Spot Light

Handles Real World Case Mix: High SKU eligibility with variable box sizes and conditions. Adapts to dropped boxes and toppled walls.

Seamless Deployment: Working with best-in-class partners, Dexterity's truck solutions integrate easily with existing dock infrastructure.

One Hardware and Software Platform: Use one hardware and software platform for both load and unloading operations.