



Big Ox[®]

Autonomous Cleaning Equipment

No Subscriptions Fees



Run Entire Shift with No Human Intervention!

Auto:



Dock



ELT
SYSTEMS GROUP

www.EasternLiftTruck.com
Automation Division

Ai-32 
Clean 13+ Hours A Day
Or All Night



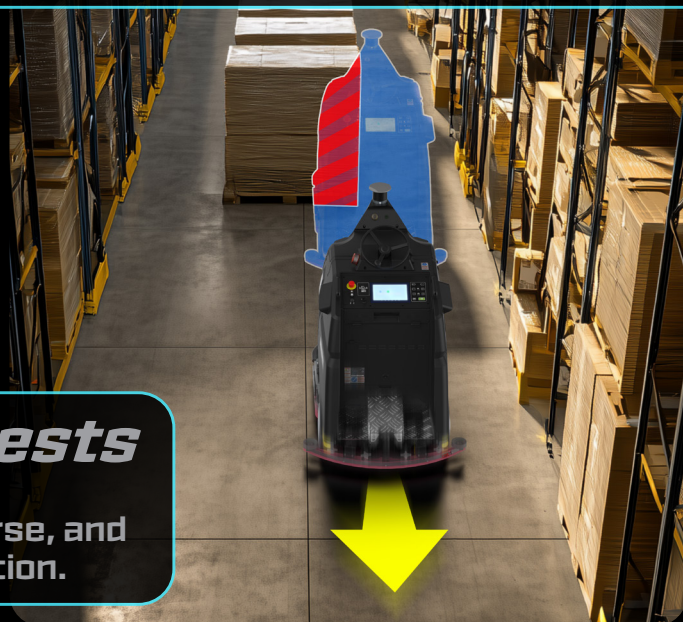
Machine Specifications

- Cleaning Path: 32 in
- Size (L×W×H): 64.2 × 43.3 × 57 in
- Weight: 992 lb
- Max Operating Time: 13+ Hrs / Day*
- Solution Tank: 40 gal
- Recovery Tank: 50 gal

* 60% utilization w/ Dock Station 220 VAC

Climbs Ramps Easily

- Rear Wheel Drive for better traction



Fewer "Help Me..." Requests

- Ai-32's Path will recalculate routes, reverse, and continue cleaning without human intervention.

Applications



Warehouses



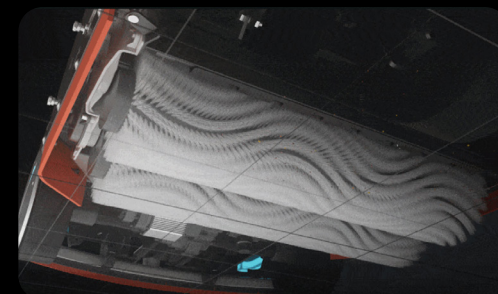
Staging Area



Lights Out

Under The Hood

Powerful Cylindrical Deck



Cylindrical Benefits

- Reduces Pre-Sweeping needs
- Scrub & Sweep Simultaneously



Dirty Water

Clean Water

Auto Self Docking

- Permits hands off lights out autonomy

5 Layers of redundant safety for solution filling.

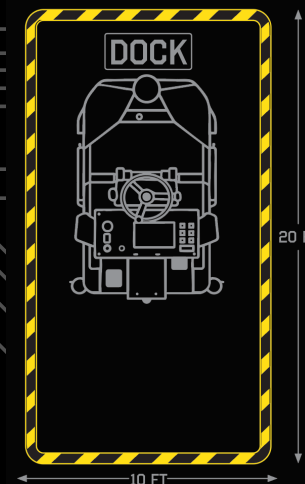
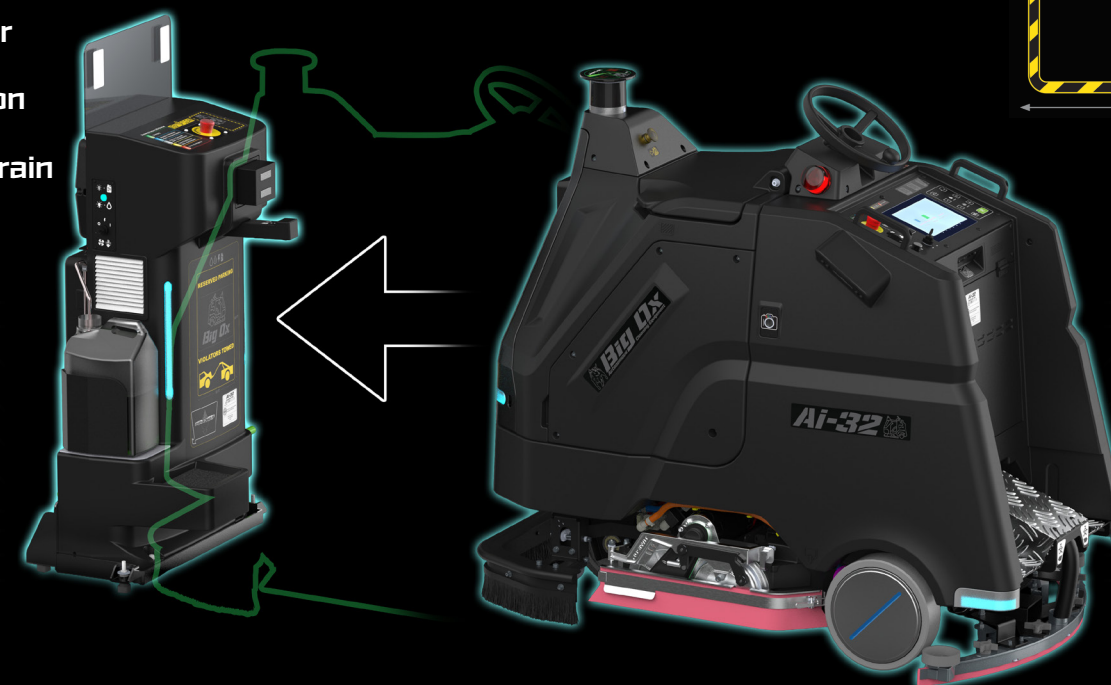
Level Gauge, Float Switch, Timer, Bypass, Auto Close Valve.

Safe Charge

Fresh Water

Soap Dilution

Recovery Drain



Scrubber LED Status



On = Charged
Pulse = Charging



On = Normal
Pulse = Recalculating



On = Service Node Comms Lost
Pulse = MCU + Chassis Node Comm Lost



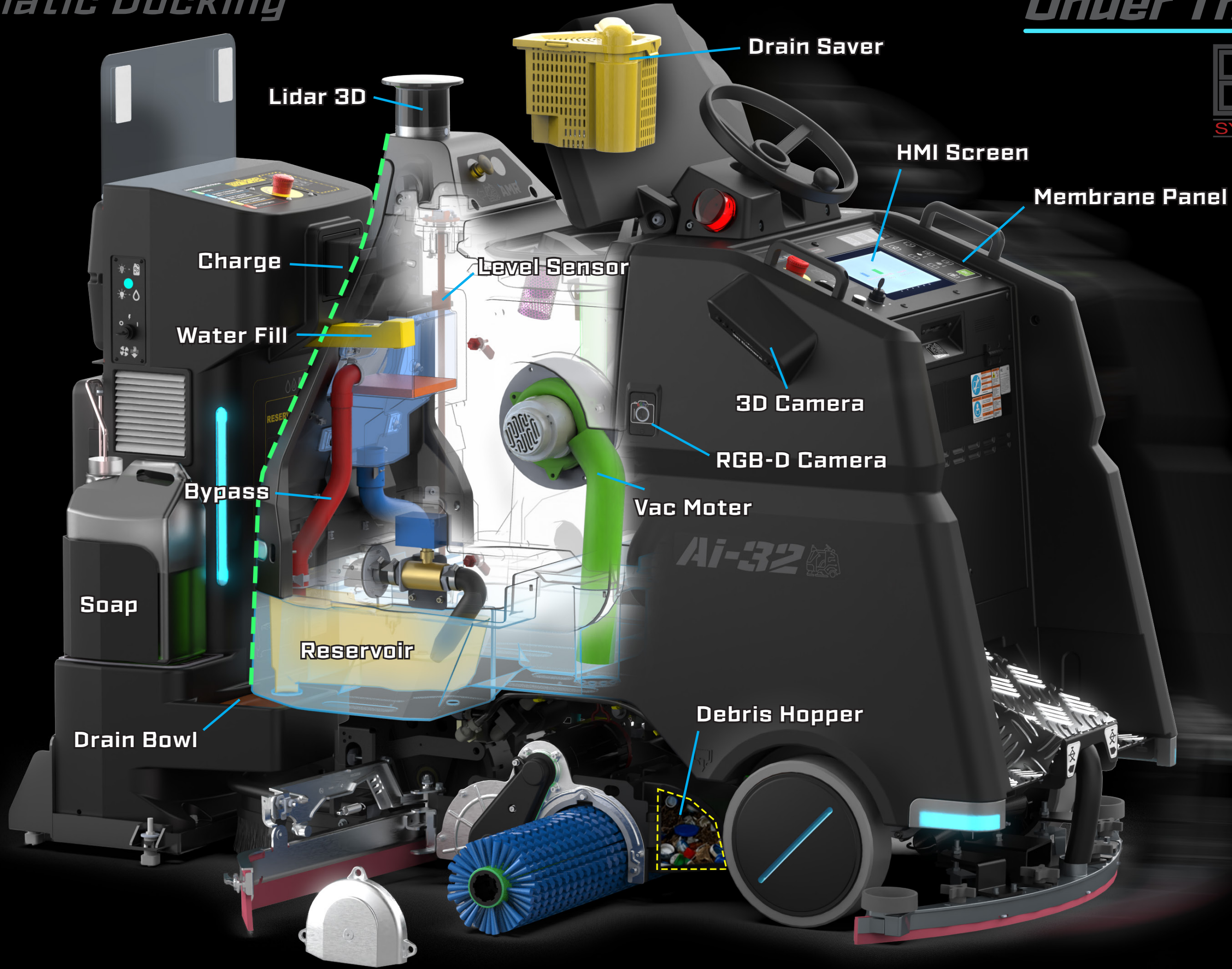
Flash = Reverse/Turn



On = Fault

Automatic Docking

Under The Hood



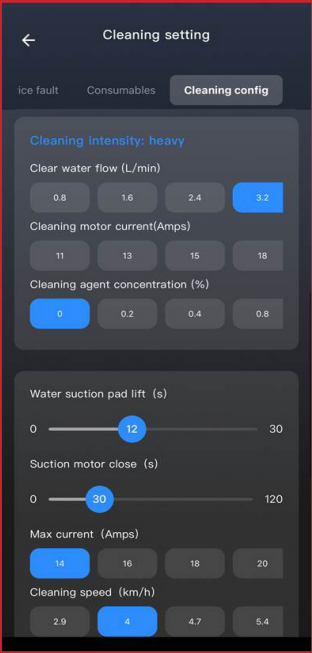
Smart Cleaning

Convenient Phone App - Manage Fleet from your pocket

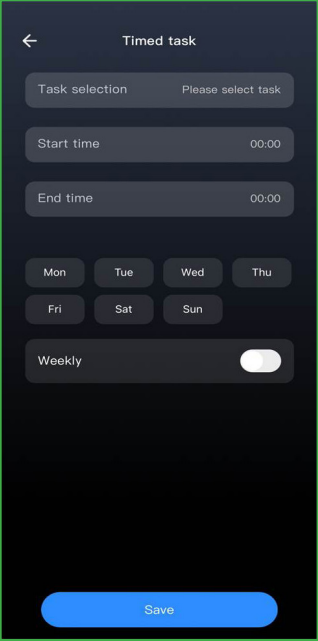
QR code for app >



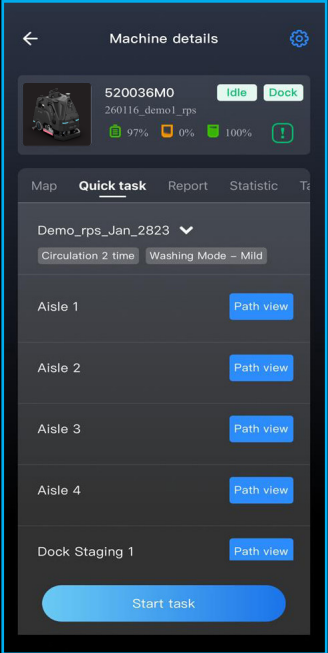
Performance



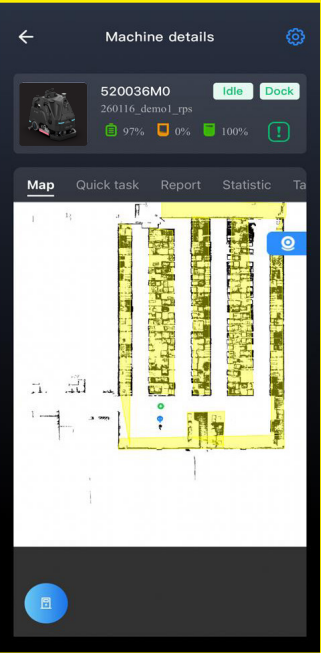
Schedule



Task Edits

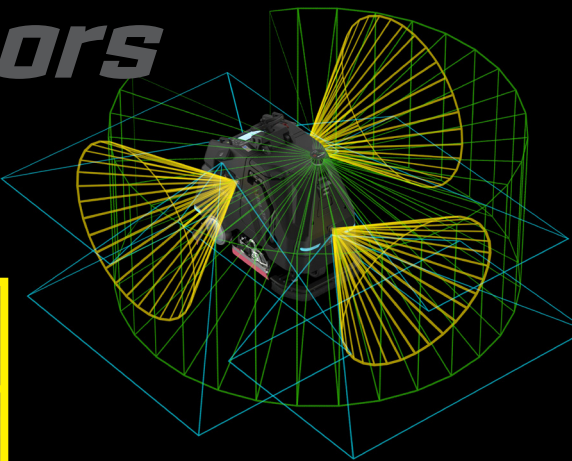


Live Tracking

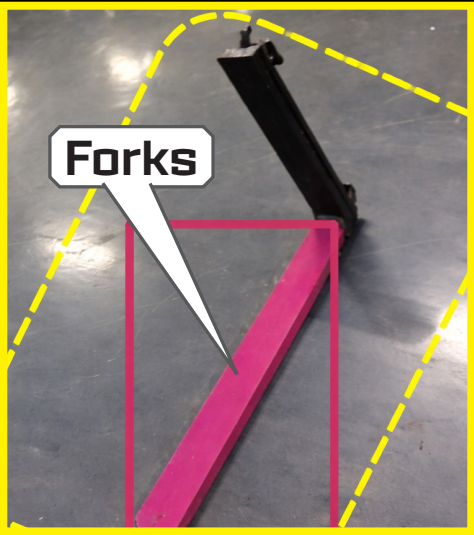
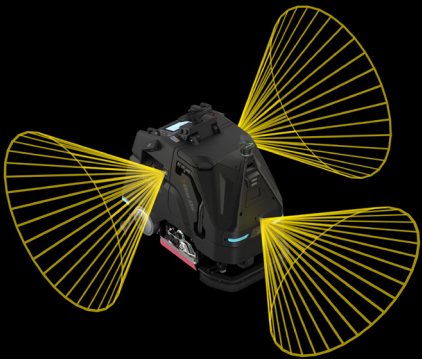


Layered Array Sensors

Ensure better coverage and object recognition for superior navigation. Fewer interruptions allow more cleaning per hour.



RGB-D Camera (3) image

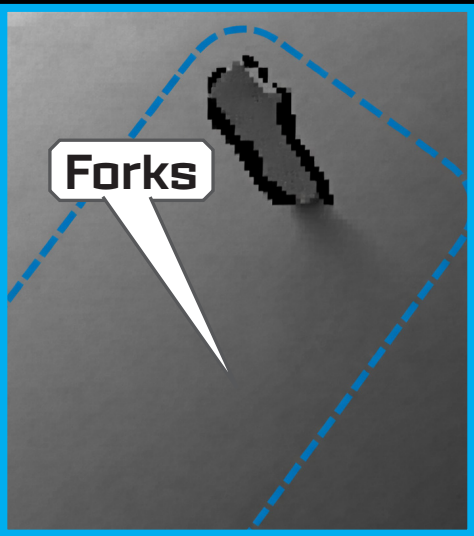
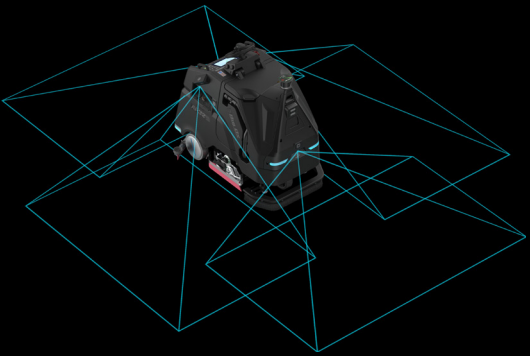


Forks

Actual Fork



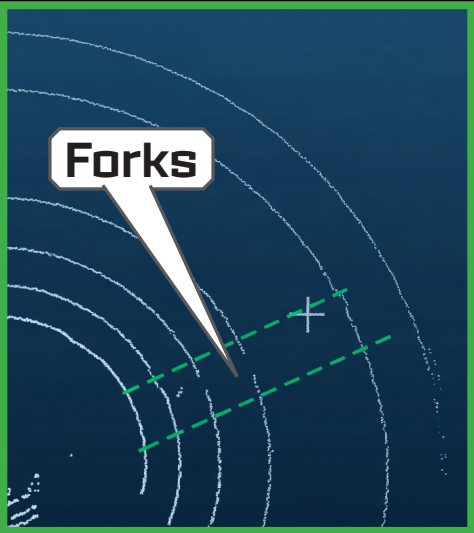
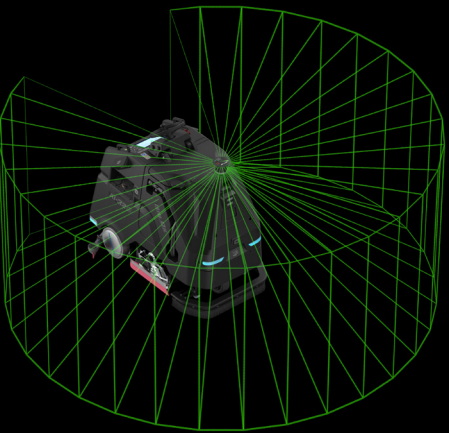
3D Camera (4) image



Forks

Forks

3D Lidar image



Forks

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< Aisle Patterns

Ai Software learning improves coverage with limited turns, developing more efficient paths for the Ai-32.

Lidar, Cameras, Action!

- Powerful On-Board Controller
- Touch Screen for set up HMI
- Simple Membrane Panel for manual control.

