

# Neo 2W

by **Avidbots**®

Advanced autonomous  
warehouse cleaning

Built to deliver the ultimate clean in...

- Distribution Centers
- Manufacturing Facilities
- Warehouses



# Warehouse cleaning without compromise

Efficient and effective floor care for dynamic warehouse environments

Purpose-built for dynamic warehouse environments, Neo 2W automates the time-consuming, labor intensive task of floor care. With Neo deployed at your facility, your team can focus on your core KPIs rather than the floors!

## Benefits of deploying Neo include:

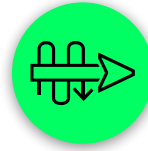
- Labor reallocation
- Improved health and safety
- Reduced labor costs
- Enhanced employee morale
- Increased site productivity



## The Neo 2W advantage:



**Advanced Obstacle Detection** uses machine learning to identify obstacles including pallets and forklift tines, enabling Neo 2W to avoid them and keep cleaning.



**Bulk Navigator** optimizes the cleaning path in dynamic areas\*.



**Debris Diverter System** to manage and divert debris, enhancing Neo 2W's cleaning performance.



**Home Base** ensures you can start Neo 2W from where it's convenient for you.



**Active Cleaning Control System** cleans and disinfects more effectively and efficiently than humans, with speeds up to 1.35 m / 4.43 ft per second.



**High Productivity** means Neo 2W autonomously cleans up to 3,900 m<sup>2</sup> / 42,000 ft<sup>2</sup> per hour<sup>^</sup>.

Engineered to be the highest in quality, Neo 2W utilizes industry-leading technology and software to deliver a consistent and reliable clean.

## Service & support

Avidbots Customer Success focuses on your uptime and utilization. With advanced diagnostics, Neo can detect when any problems arise, streamlining troubleshooting and minimizing downtime.

## Premier technology integration

Neo is powered by Avidbots Autonomy featuring 10 onboard sensors resulting in 360° visibility and advanced obstacle avoidance. Combined with Avidbots Real-Time Monitoring and Remote Assistance, Neo is unmatched in autonomy, navigation and safety.

## Analytics & reporting

Avidbots Command Center, our proprietary web-based software, enables you to monitor, manage and measure your Neo — or an entire fleet of Neo's — remotely and in real time. You'll be able to access highly detailed reports of every cleaning operation!

## Built for industrial spaces

Rugged and robust construction includes separate cleaning solution and recovery tanks. The onboard Debris Diverter reduces the risk of clogs and pushes debris from Neo 2W's path, keeping Neo 2W cleaning. Industrial-strength, swappable batteries deliver 6 hours of cleaning on a single charge.

## Industry-leading safety features

Neo 2W possesses a robust set of advanced safety features for multiple layers of protection. This includes a Blue Light that projects a visible warning light ahead along with e-stop buttons, bumpers, beacons, integrated signaling lights and a sound system.

## Autonomous & manual

Neo operator interface allows it to switch into manual mode with a simple command. Once the manual cleaning is completed, it is easily switched back into automated floor scrubbing mode.



**Neo 2W has one goal:** to maximize cleaning productivity while minimizing human intervention.

\*Our Customer Success Team will assess your site to ensure your environment is a good match.  
<sup>^</sup>Calculated maximum theoretical value.



## Powering the future of autonomous floor cleaning

Our proprietary AI software, Avidbots Autonomy, powers Neo, enabling the cleaning robot to understand its operating environment and take actions to maximize cleaning productivity while minimizing human intervention.

Avidbots Autonomy — leveraging data from a variety of robot sensors — provides situational awareness, enables advanced decision-making capabilities and reliably completes its two key objectives: determining the robot's position within space and finding the best path for the task at hand.

### Advanced Dynamic Planning

When a Neo is deployed in a new facility, the entire space is mapped and a fully customizable cleaning plan is generated. From that point forward, using the onboard suite of sensors, Avidbots Autonomy compares what the space looks like this time to the original cleaning plan. It's determining the best path to maximize cleaning productivity by leveraging advanced dynamic planning.

With Bulk Navigator Neo 2W can clean even more of your facility including structured bulk areas! Frequent and automatic map updates ensure Neo 2W keeps up with changes to the environment.

### Utilizing new-wave localization

Localization is the process of determining where a robot is located with respect to its environment; it's key to the success of Neo.

Avidbots' advanced localization algorithms allow continuous operation in even the most dynamic and challenging environments, resulting in fewer stoppages and more consistent cleaning.

By interpreting long-range lidar sensor data and taking advantage of large and detailed cleaning maps, Avidbots Autonomy provides location level awareness; Neo 2W understands its location relative to items in the environment.

### Market-leading obstacle avoidance, enhanced safety

Neo is unmatched in obstacle avoidance continuously evaluating its surroundings to ensure Neo avoids anything and stops when unexpected obstacles appear. Neo handles dynamic environments with ease.



With Advanced Obstacle Detection for warehouses, Neo 2W goes further, using cutting-edge machine learning capabilities to identify and differentiate floor-level obstacles such as pallets and forklift tines without stopping, maximizing uptime and increasing productivity.

### Advanced autonomy skills: Home Base

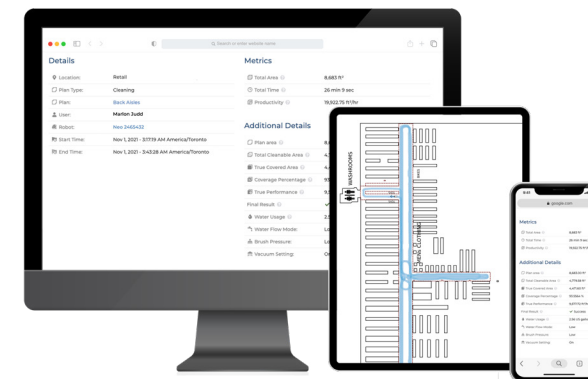
From a single, convenient start location, your team presses "go" and Neo 2W goes, fully autonomously, moving to the designated cleaning area. On arrival, Neo 2W will start cleaning all by itself! Once done cleaning, Neo 2W will return back to the start location.



## Delivering data that will transform your cleaning operations

### Avidbots Command Center: Web-based software to manage Neo 2W

Neo provides you with a level of oversight and performance measurement that you won't find in other commercial floor scrubbers. The proprietary Avidbots Command Center lets you monitor, manage and measure your Neo — or an entire fleet of Neo's — remotely and in real time.



✓ Avidbots Command Center provides details such as identifying who uses Neo 2W along with the start and end time of each cleaning operation.

### In-depth performance reporting

You can understand fleet performance at a glance with configurable cleaning targets to define success. Transforming that data into meaningful insights, your cleaning operation becomes optimized over time.

Viewing productivity metrics, trend reports and visual ratings for each cleaning operation, you'll always be in the know. Issues experienced while cleaning, such as areas or aisles skipped because they were blocked, will be highlighted on your cleaning report for easy review.

- ▣ Total area cleaned
- ⌚ Total cleaning time
- 📊 Productivity
- 💧 Water consumption

### Fleet management

View the online status and location of your robots, as well as the success of each cleaning plan by robot and location.



Identify the percentage of successful cleaning plans executed by the entire fleet of Neos at any given time.



Pinpoint under-utilized Neos via customizable visual indicators.

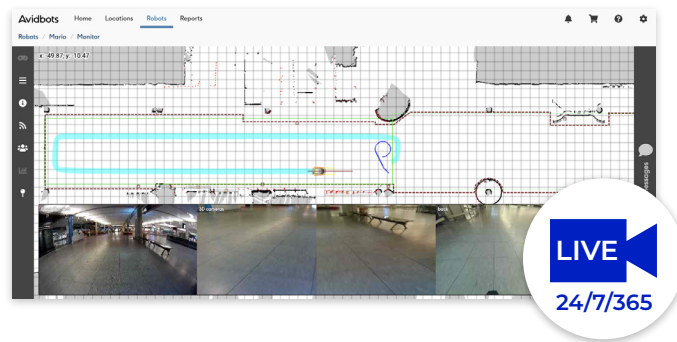


Compare cleaning performance across all locations and then identify Neos in need of improvement.



Investigate any issues within specific cleaning runs at a high-level view with drill-down capabilities as needed.

The Avidbots Command Center provides you with the information needed to improve the effectiveness of your cleaning operation and boost ROI.



### Real-Time Monitoring

In real time, view the online status and location of your Neo at a high level or take a deep dive into each cleaning process with Avidbots Command Center: Real-Time Monitoring.

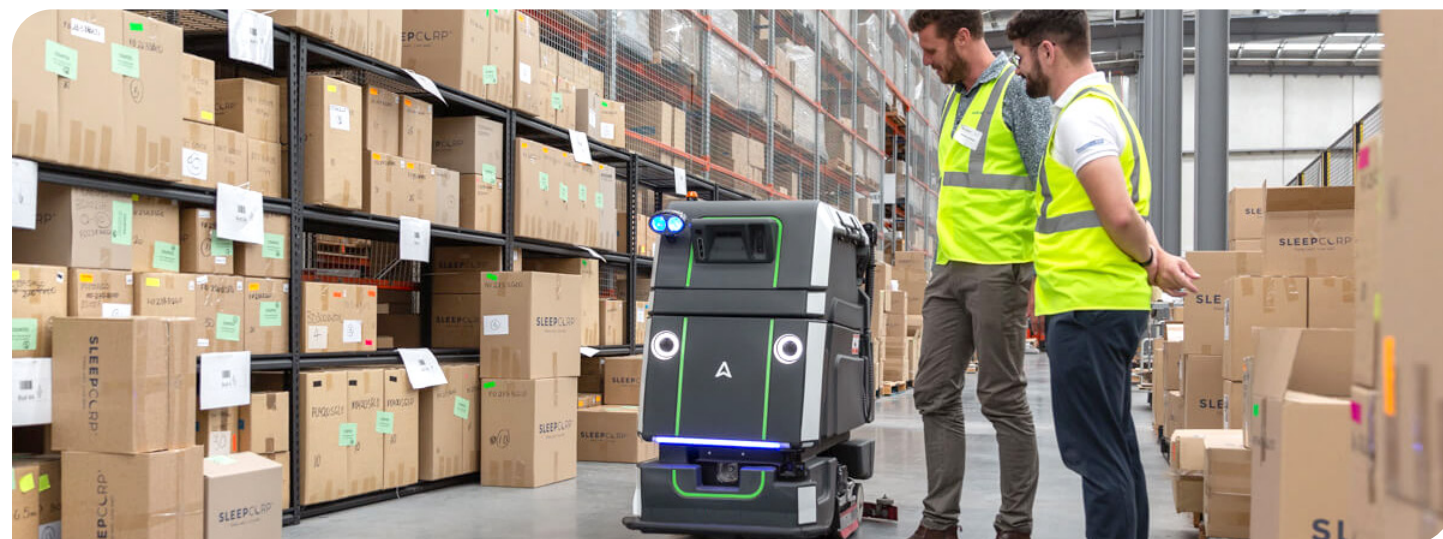
On the go? The Avidbots Command Center supports automated alerts to mobile devices for events such as cleaning completion and performance, required water changes, routine maintenance and other activities.

### Avidbots Customer Success

Whether you are purchasing one Neo — or an entire fleet of Neo's — our world-class customer success program is here to help you.

From the moment you receive your robot, our factory-trained technicians assist with your Neo deployment. This includes creating cleaning plans unique to your facility as well as training your staff on operating and maintaining your Neo.

Post deployment, the Avidbots Customer Success team monitors your Neo, working with you to continuously improve based on any changes to your environment.



### Remote Assistance

Avidbots Autonomy enables Neo to deliver autonomous cleaning in dynamic environments. However, all robots will eventually get stuck when significant environmental changes or blockages occur. What happens then?

Avidbots' Remote Assistance service supports every Neo robot 24/7/365 with a dedicated Avidbots team. Should an issue occur, our experts can remotely assist you, getting Neo back on track using the onboard cameras. Additionally, our experts have the ability to investigate and often resolve stops.



## Avidbots Gold Service Plan

The Gold Service Plan available for Neo is tailored to the specialized needs of your organization. The service is provided by Avidbots-trained and certified technicians, experts who know your Neo and understand what maintenance is needed to keep Neo operating at peak performance.

### Delivering peace of mind!

When Neo is deployed in your facility, it's important that it delivers the same enhanced, fully autonomous clean on day one as it does on day 365! A Neo with the Gold Service Plan lowers the total cost of ownership, increases cleaning efficiency and delivers peace of mind!



### What's included in the Avidbots Gold Service Plan?

Task	Gold Service Plan
Preventive maintenance	Every 480 Hours
Break fix	Included (Up to three visits per year)
All parts and labor	Included

Preventive maintenance should be performed every 480 hours. For example, at 120 hours-per-month usage, Avidbots Service Experts will visit your facility every four months. At 240 hours-per-month usage, maintenance is needed every two months. Additional preventive maintenance service visits beyond the three per year can be scheduled as needed at an additional cost.

Note: For further information or details regarding coverage please refer to the Avidbots Gold Service Plan T&Cs.

## Why Avidbots?

Buying an Avidbots Neo isn't just buying a floor scrubber. It's investing in a technological future that can redefine your cleaning function, making it more productive, more cost effective and easier to run. More importantly, our robotics and AI technology open up new opportunities to make your business even more successful. We realize this isn't just about buying a product, or a technology, or even a business proposition. You want to buy into a trusted partner who can take you into the future of automated operations using cutting edge robotics. At Avidbots, we work side-by-side with our customers to earn that trust and realize all the benefits that robotics can bring them.



## About us

Avidbots is a robotics company with a vision to make robots ubiquitous to unlock humanity's potential with a hyperfocus on autonomous cleaning. Our groundbreaking product, the Neo fully autonomous floor scrubbing robot, is deployed around the world and trusted by leading facilities and building service companies. Headquartered in Kitchener, ON, Canada, Avidbots is offering comprehensive service and support to customers on 5 continents.

## Contact us

Learn more about Neo.



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