

Neo 2

Cylindrical cleaning head
technical specifications



Avidbots®

Neo 2 technical specifications

PHYSICAL

	24" CYLINDRICAL	32" CYLINDRICAL
Length	1,516 mm / 59.7 in	1,516 mm / 59.7 in
Width	760 mm / 29.9 in	935 mm / 36.8 in
Height	1,374 mm / 53.1 in	1,374 mm / 53.1 in
Gross Vehicle Weight (GVW)	663 kg / 1,462 lbs*	688 kg / 1,518 lbs*
Empty Weight	285 kg / 629 lbs	290 kg / 638 lbs

CLEANING

	24" CYLINDRICAL	32" CYLINDRICAL
Total Pad / Brush Width	588 mm / 23.15 in	790 mm / 31.1 in
Nominal Pad / Brush Diameter	146 mm / 5.75 in	146 mm / 5.75 in
Squeegee Assembly Width	907 mm / 35.7 in	1,066 mm / 42.0 in
Nominal Cleaning Head Applied Weight		
Level 1	Up to 15 kg (33 lb)	Up to 45 kg (99 lb)
Level 2	Up to 25 kg (56 lb)	Up to 47 kg (103 lb)
Rotating Speed of Pads, Brushes and Brooms	700 RPM	700 RPM
Rated Debris Bin (Hopper) Volume Capacity	6.8 L / 1.80 gal	9.3 L / 2.45 gal
Recovery Tank Capacity	135 L / 35.7 gal	135 L / 35.7 gal
Solution Tank Capacity	109 L / 28.8 gal	109 L / 28.8 gal
Maximum Theoretical Performance	2,950 m ² /hr 31,754 ft ² /hr	3,941 m ² /hr 42,426 ft ² /hr

VACUUM

	24" CYLINDRICAL	32" CYLINDRICAL
Vacuum Suction	15 kPa / 60.5 inH2O	15 kPa / 60.5 inH2O

MOVEMENT

	24" CYLINDRICAL	32" CYLINDRICAL
Minimum Aisle Turn-Around Width (Autonomous)	3.05 m (120 in)**	3.05 m (120 in)**
Maximum Working Mode Speed	4.9 km/h / 3.0 mph	4.9 km/h / 3.0 mph
Maximum Scrubbing Grade	0.5% / 0.28°	0.5% / 0.28°

*Includes batteries, and full cleaning solution tank

**Typical; refer to Aisle Width Guidelines document for details

Neo 2 technical specifications

AUDIO

24" CYLINDRICAL

32" CYLINDRICAL

Operating Sound Pressure Level

75 dB(A)

75 dB(A)

Maximum Audio System Sound Pressure Level

83 dB(A)

83 dB(A)

VISUAL

Color-changing status indicator light, turn indicators, amber strobe light, front headlights, rear brake lights and the Blue Light.

ELECTRICAL

24" CYLINDRICAL

32" CYLINDRICAL

Rated Operating Voltage

36 VDC

36 VDC

Battery Format

AGM, 250 Ah @
20h, Qty 6, 6V each

AGM, 250 Ah @
20h, Qty 6, 6V each

Calculated Nominal Current Consumption

30 A

30 A

Typical Battery Run-Time

4 – 6 hours

4 – 6 hours

Rated Power Input

3,100 W / 4.16 hp

3,100 W / 4.16 hp

Motor specifications

Drive

36V, 500 W / 0.67 hp

36V, 500 W / 0.67 hp

Cleaning Head

36V, 450 W / 0.6 hp

36V, 450 W / 0.6 hp

Vacuum

36V, 565 W / 0.76 hp

36V, 565 W / 0.76 hp

ENVIRONMENTAL

24" CYLINDRICAL

32" CYLINDRICAL

Ambient Humidity

5% – 85%

5% – 85%

Operating Temperature

5°C – 35°C / 41°F – 95°F

5°C – 35°C / 41°F – 95°F

Storage Temperature

-20°C – 50°C / -4°F – 122°F

-20°C – 50°C / -4°F – 122°F

SENSING

24" CYLINDRICAL

32" CYLINDRICAL

2-D Lidar Range

20 m / 65.6 ft

20 m / 65.6 ft

Lidar FOV

360°

360°

Lidar Height

385 mm / 15.2 in

385 mm / 15.2 in

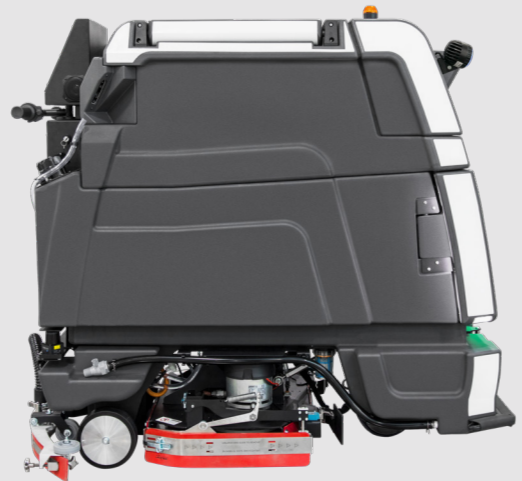
3-D Sensor Range

3 m / 9.8 ft

3 m / 9.8 ft

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.



sales@avidbots.com



[+1.855.928.4326](tel:+18559284326)



avidbots.com



Avidbots Corp
45 Washburn Drive
Kitchener, ON N2R 1S1
Canada

Avidbots Chicago
5400 Newport Drive STE 7
Rolling Meadows, IL 60008
United States of America

Avidbots®

BR-CYL-06282021

©2023 Avidbots Corp. All rights reserved. "Avidbots", "Neo", "Command Center" and their respective logos are trademarks of Avidbots Corp.

