

Neo 2W

Cylindrical cleaning head
technical specifications



Avidbots®

Neo 2W 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 / 54.1 in	1,374 mm / 54.1 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

► DEBRIS MANAGEMENT SYSTEM

	24" CYLINDRICAL	32" CYLINDRICAL
Debris Manager (Catch Bin)	Included	Included
Debris Diverter	1 Front, 2 Rear	1 Front, 2 Rear

► 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	3% / 1.7°	3% / 1.7°
Advanced Obstacle Detection	Included	Included
Bulk Navigator	Included	Included
Home Base	Included	Included

*Includes batteries, and full cleaning solution tank

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

Neo 2W technical specifications

► AUDIO

	24" CYLINDRICAL	32" CYLINDRICAL
Operating Sound Pressure Level	75 dB(A)	75 dB(A)
Maximum Audio System Sound Pressure Level	80 dB(A)	80 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

Meet the Avidbots family of cleaning robots

Why Avidbots?

Buying an Avidbots robot 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-powered advanced autonomy 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 expand humanity's potential through robotics and automation. Our groundbreaking fully autonomous solutions — Neo, Neo 2W, and Kas — allow organizations to simplify their cleaning process, becoming more efficient, productive, and cost effective. Trusted by leading organizations across the world, our robots open new possibilities for businesses and their workers, making cleanliness a stepping stone to a more prosperous future. Founded in 2014 and headquartered in Kitchener, ON, Canada, Avidbots is offering comprehensive service and support to customers on five continents. Avidbots is backed by top global venture capital firms, including True Ventures, Next47, GGV Capital, BDC, Felicis Ventures, Real Ventures, and Golden Ventures.

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*Specifications are subject to change

BR-N2WCYL-05222024

Neo 2W

Warehouse



Neo 2

All-purpose



Kas

Commercial



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