

MODEL • AUTONOMOUS SCRUBBER-DRYER

L50

High-capacity
scrubbing for
large floors

Autonomous scrubbing and drying for hospitals, retail, warehouses and airports, working alongside your team. Sold, deployed and serviced by Leaf Robotics.



CLEANING WIDTH

mm

CLEAN WATER TANK

L

MAX. RUNTIME

hrs

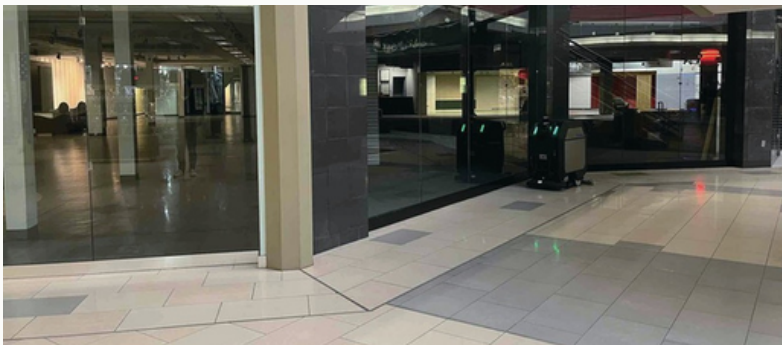
More floor per tank and per charge

55 L clean and waste water tanks and a 120 Ah battery let the L50 cover large areas between refills, with 25 kg brush pressure.

MAX. THEORETICAL	BRUSH PRESSURE
m ² /hr	kg



01	Large-area capacity	55 L clean and waste water tanks, a 120 Ah battery and a 510 mm cleaning width.
02	Navigation hardware	32-beam 3D LiDAR with 150 m range and NVIDIA AI edge chips (up to 100 TOPS). Cleans to within 5 cm of walls.
03	Safety system	Multiple sensors with a 3D, 360-degree safety protection system. Manufacturer-stated.
04	Built to last	Rotationally moulded body and well-tried components, designed for wear resistance.
05	Easy to maintain	Automatic water refill, drainage and charging at the docking station. Modular components for quick servicing.
06	Adapts without callouts	Mapping adapts to changes on site, and free over-the-air software updates need no technician visit.



SHOPPING MALL, MINNESOTA • CENOBOTS DEPLOYMENT



CWS-01 WORKSTATION

Specification

MODEL L50 • UNVERSIONED • SOURCE: CENOBOTS L50 BROCHURE, UNDATED • ALL VALUES STATED BY THE MANUFACTURER, CENOBOTS

DIMENSIONS

PARAMETER	VALUE
Length	1,030 mm • 40.6 in
Width (w/o squeegee)	580 mm • 22.8 in
Height	1,045 mm • 41.1 in
Weight	220 kg • 485 lb
Cleaning width	510 mm • 20 in
Squeegee width	840 mm (770 mm opt.)

CLEANING

PARAMETER	VALUE
Max. theoretical productivity	2,570 m ² /hr • 27,641 ft ² /hr
Brush pressure	25 kg • 55.1 lb
Disc brush speed	220 RPM
Clean water tank	55 L • 14.5 gal
Waste water tank	55 L • 14.5 gal

SENSING AND SOUND

PARAMETER	VALUE
Sensing	32-beam 3D LiDAR, 3D depth camera, bumper, IMU
Sound pressure level	≥ 67 dB(A)

MOVEMENT

PARAMETER	VALUE
Max. speed	1.4 m/s • 3.13 mph
Min. distance from wall	50 mm • 2 in
Min. passable width	940 mm (870 mm opt.)
Gradeability	8%

POWER

PARAMETER	VALUE
Battery type	Lithium iron phosphate
Battery capacity	120 Ah
Rated voltage	24 V DC
Charging time	4 hrs
Max. runtime	6 hrs

KEY COMPONENTS

PARAMETER	VALUE
Processing chip	NVIDIA AI edge chips, up to 100 TOPS
Mapping sensor	3D LiDAR, 150 m range

NAVIGATION AND SAFETY • MANUFACTURER-STATED

150 m

3D LIDAR DETECTION RANGE

100 TOPS

AI PROCESSING, UP TO

< 5 cm

DISTANCE FROM WALL

360°

3D SAFETY PROTECTION

Where the L50 fits, and what it needs

HEALTHCARE Hospital corridors and medical centres.	RETAIL Shopping centres and large stores.	LOGISTICS Warehouses, factories and distribution centres.	PUBLIC SITES Airports, universities and schools.
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ENVIRONMENTS SUGGESTED BY CENOBOTS • SUITABILITY CONFIRMED BY LEAF ROBOTICS SITE SURVEY BEFORE DEPLOYMENT

CONSTRAINTS

- Minimum passable width of 940 mm, or 870 mm with the optional 770 mm squeegee (manufacturer-stated).
- Maximum gradient of 8% (manufacturer-stated).
- Automatic refilling, drainage and charging need the CWS-01 workstation.
- Suitable flooring types and other site limits to be confirmed by Leaf Robotics survey.



HOSPITAL • CENOBOTS DEPLOYMENT



RETAIL • CENOBOTS DEPLOYMENT



STUDIO VIEW • RENDER

Book a site demo

Leaf Robotics is your single contact for site survey, deployment, training and service.

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Leaf
ROBOTICS

TECHNOLOGY BY CENOBOTS

MANUFACTURER

Cenobots

The L50 is designed and manufactured by Cenobots. Product marks shown are Cenobots'. Sold, deployed and serviced by Leaf Robotics, a division of Leaf Hygiene.