

GEN-X

Robotic Vacuum

Redesigned from the ground up, the GEN-X vacuum leverages technologies developed for laptops, cell phones, and automobiles to be smarter, safer, more productive, and even more cost effective than anything yet available.

Advanced Autonomous Navigation allows the GEN-X to clean complex floor plans with only 30-minutes per shift required from an operator. This greatly increases productivity without adding staff or time. The GEN-X is a fixed cost, not subject to wage increases, overtime or holiday pay.

An intuitive, icon-based touchscreen makes the GEN-X easy for any user to learn and operate, with the routine service items easily accessed.

A lighting package and 360-degree sensor array ensure safe navigation. If an obstacle or person is encountered, the robot simply navigates around it. Touch sensors on all sides of the robot and an emergency stop button can bring the robot to a quick halt should contact ever be made, protecting both people, walls and furnishings alike.

Cleaning performance is improved compared to large sweepers because the GEN-X uses an agitator brush and powerful vacuum motors to pull debris from deep within carpet fibers. The performance of the GEN-X can prolong the service life of carpeting. A large filter bag provides hours of uninterrupted cleaning, and washable air filters protect indoor air quality.



Diagnostics and Reporting

All GEN-X Robots bring an exciting new capability to the floor care industry: Accountability. Operators must log into the robot using a unique personal identification number (PIN). The robot keeps a record of each operator, all areas that were cleaned, how long the robot was in operation, and if any errors were encountered. This information is compiled into reports that can be accessed on the touchscreen, e-mailed, or uploaded to the Intellibot website for access.

GEN-X robots bring a new level of preventative maintenance to floor care as well. A onboard diagnostic system allows operators to quickly check the status of all major subsystems, track wear on components, and schedule maintenance to prevent unwanted downtime.



Control Panel

The touch screen user interface uses icon-based menus to simplify training and eliminate language barriers. Help screens are available in English and Spanish.



Filter Bag

A 14-gallon filter bag holds an entire shift's worth of vacuuming without loss in performance. Two washable cartridge air filters help protect air quality.



Easy Access

A large clamshell-style main door gives easy access to brush drive belts and vacuum hoses for ease of routine maintenance and clearing any accidental clogs.



Battery Pack

The battery pack of the GEN-X features four sealed gel cell batteries for power and safety, housed in a protective case with a molded handle for convenience. Packs can be quickly exchanged to double run time of the robot with no heavy lifting or electrical connections to make.



Side Brush

The GEN-X Vacuum features an advanced navigation system that allows the robot to precisely maintain a fixed distance from side walls. A rotary side brush ensures that every inch of carpeting is thoroughly cleaned.

GEN-X Robotic Vacuum Specifications

INTELLIGENT FEATURES

Main Computer	Monitors all functions; commands robot to perform stored cleaning routes
Drive Subsystem	Monitors and controls the robot's movement and position
Controls	Manual and electronic
Navigation	14 sonars sensors provide a complete, 360-degree view around robot
Front Touch Shield	Full width, black ABS, touch-sensitive shield provides immediate braking
Rear Touch Shield	Full width, black ABS, touch-sensitive shield provides immediate braking
Security	User-specific password protection to prevent unauthorized use
Safety Systems	Virtual sonar touch shield, infrared floor sensors, touch shields, emergency stop button

VACUUM RECOVERY SYSTEM

Tank Volume	2.25 Cubic Feet or 16.77 gallons.
Airflow Speed	132 cfm
Motor Type	24VDC, 1/2 HP, 2-stage tangential bypass

CLEANING HEAD

Brush Head	Carbon-impregnated carbon bristles, herringbone pattern
Brush RPM	1390 RPM
Brush Width	27" (68.58 cm)
Brush Diameter	4.5" (11.43 cm)
Side Broom Diameter	12" at 90 RPM

DRIVE SYSTEMS

Drive Motors	Two 24 VDC precision motors, built-in encoders, high traction tread
Brush Drive Motors	One 24 VDC, 3/4 HP, 1800 RPM, permanent magnet type, belt drive

PRODUCTION

Cleaning Rate	10,230 sq. ft. (950 sq. m) per hour (avg.)
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BATTERY SYSTEM

Battery Options	Sealed gel cell deep cycle, 180 AH, 24 VDC output
Run Time	Approximately three to four hours dependant upon floor surface
Charger Unit	20 Amp, 24 VDC output, 115 VAC input with automatic shutoff

CONSTRUCTION

Frame	Powder-coated 5052 aluminum and stainless steel
Exterior	High-density, molded, seamless polyethylene
Machine Length	50" (127 cm)
Machine Height	43" (109 cm)
Machine Width	34.5" (87.6 cm)

ENVIRONMENT

Temperature:	59° to 86° F (15° to 30° C) operation, -22° to 140° F (-30° to 60° C) storage
Humidity:	20% to 75% relative humidity
Noise	75db normal operation, optional noise reduction kit



Helical Brush

Nylon bristles impregnated with carbon help to reduce vibration and dissipate static buildup, while pulling debris from deep within carpet fibers.



34.5"



50"

43"

IntelliBOT

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