Why Invest in Autonomous Cleaning Robots?

A guide to selecting the right scrubber robot and calculating your return on investment

SPROUTMATION

Cleanliness Directly Impacts Your Bottom Line

92%

of consumers consider cleanliness vital for repeat business

95%

agree cleanliness elevates a good business to great

90%

would avoid a business after reading negative cleanliness reviews

77%

find stains on flooring or carpeting disturbing

In today's competitive market, maintaining impeccable cleanliness standards is not just about hygiene—it's a critical business differentiator that directly affects customer retention and revenue.

CenoBots Robots Excel Across Diverse Industries

Commercial	Industrial	Municipal
Healthcare	Warehouses	Airports
Retail	Factories	Schools
Office Buildings	Distribution Centers	Government Buildings
Hotels	Manufacturing	Hospitals

Whether you operate a boutique retail store or a massive distribution center, there's a CenoBots solution designed for your specific environment.

SPROUTMATION

01

Advantages of Autonomous Cleaning Solutions

How autonomous robots transform your cleaning operations

Autonomous Robots Handle Repetitive Tasks So Your Team Can Focus on What Matters

- Autonomous solutions handle repetitive, time-consuming tasks like large area floor cleaning without supervision.
- Staff can be redirected to higher-value tasks such as washroom sanitation, detail cleaning, and customer service.
- Cleaning teams can handle a greater number of tasks and deliver a higher standard of clean.
- One autonomous scrubber provides the equivalent performance of an additional cleaner.

Case Study

A US school district found that an autonomous floor scrubber would save $200,000 in wages over a 10-year period while providing equivalent cleaning performance.

Achieve Consistent, Reliable Cleaning Results

Autonomous solutions deliver superior coverage compared to manual operation.

Manual Cleaning	**~85% Coverage**
Autonomous Cleaning	**99.5% Coverage**

- Manual equipment typically misses up to 15% of a space due to skipped aisles or overlooked corners.
- CenoBots robots retrace the same precise path every time—no variation, no missed spots.
- Advanced AI and LiDAR technology ensures thorough edge and corner

Labor Accounts for Up to 90% of Cleaning Costs

Automation Changes the Equation

90%

of total cleaning costs are labor-related

Short Payback Period:

Typically ranges from **14 to 24 months** for facilities cleaned daily

Key Determinants:

Your specific cleaning frequency and full-burden labor cost drive the ROI calculation.

Long-Term Savings:

After the payback period, operational costs drop significantly compared to manual labor.

Financial Impact

By automating floor cleaning, you effectively add a team member that works consistently, never calls in sick, and requires no benefits or overtime pay.

SPROUTMATION

Product Line Overview

02

The CenoBots Scrubber Robot Family

Three models engineered for different environments and requirements

L3 - Compact & Agile

The Master of Tight Spaces and Complex Layouts

Ideal Environments

Retail stores, office lobbies, clinics, hotels, and any facility with narrow aisles (down to 27.6") or high foot traffic.

Key Specifications

Cleaning Width	15.7 in (400 mm)
Max. Productivity	21,674 ft²/hr (2,014 m²/hr)
Solution Tank	6.6 gal (25 L)
Max. Runtime	4 hours
Min. Passable Width	27.6 in (700 mm)
AI Computing	100 TOPS (Intel)
LiDAR	96-beam 3D

Key Features

- Industry-leading obstacle avoidance with 96-beam LiDAR
- Compact design fits through standard doorways & checkouts
- Auto-spot cleaning for spills
- Whisper-quiet operation for daytime cleaning
- Intuitive touchscreen interface

L4 - Versatile & Efficient

The All-Rounder for Commercial Environments

Ideal Environments

Hospitals, schools, shopping malls, airports, and medium-to-large commercial spaces requiring consistent daily cleaning.

Key Specifications

Cleaning Width	19.7 in (500 mm)
Max. Productivity	26,910 ft²/hr (2,500 m²/hr)
Solution Tank	13.2 gal (50 L)
Max. Runtime	5 hours
Min. Passable Width	31.9 in (810 mm)
Brush Pressure	Up to 66 lbs (30 kg)
Sensors	LiDAR + 3D Cameras + Ultrasonic

Key Features

- Perfect balance of size and productivity
- Dual brush system for deep cleaning
- Advanced navigation in dynamic environments
- Long runtime covers large areas on a single charge
- Easy-to-swap battery system for 24/7 operation

L50 - Industrial Powerhouse

Maximum Productivity for Large-Scale Facilities

Ideal Environments

Warehouses, factories, logistics centers, large airports, convention centers, and any expansive facility over 50,000 sq. ft.

Key Specifications

Cleaning Width	20 in (510 mm)
Max. Productivity	27,000 ft²/hr (2,508 m²/hr)
Solution Tank	15.8 gal (60 L)
Max. Runtime	6 hours
Min. Passable Width	33.5 in (850 mm)
Brush Pressure	Up to 88 lbs (40 kg)
Debris Hopper	Included (Sweeping Function)

Key Features

- Heavy-duty design for industrial durability
- Integrated sweeping and scrubbing in one pass
- High-capacity tanks minimize refill frequency
- Powerful down pressure removes stubborn grime
- Compatible with CWS-01 workstation for full autonomy

Model Comparison Matrix

Select the Right Robot for Your Specific Needs

Feature / Model	 L3	 L4	 L50
Best Application	Retail, Narrow Aisles	Hospitals, Schools	Warehouses, Industry
Cleaning Width	15.7 in (400 mm)	19.7 in (500 mm)	20 in (510 mm)
Productivity (Max)	21,674 ft²/hr	26,910 ft²/hr	27,000 ft²/hr
Runtime	4 Hours	5 Hours	6 Hours
Solution Tank	6.6 gal (25 L)	13.2 gal (50 L)	15.8 gal (60 L)
Min. Passable Width	27.6 in (700 mm)	31.9 in (810 mm)	33.5 in (850 mm)
Sweeping Function	No	No	Yes (Integrated)

SPROUTMATION

Calculating TCO and ROI for Autonomous Cleaning Equipment

03

A framework for evaluating your investment

Understanding Total Cost of Ownership

Looking Beyond the Initial Purchase Price

Acquisition Cost

The initial purchase price or monthly lease payments for the equipment.

Labor Cost

Wages, benefits, training, and turnover costs. **This is typically the largest component (up to 90%).**

Maintenance & Support

Service plans, repairs, and software updates to ensure longevity.

Consumables

Ongoing costs for brushes, pads, squeegees, and cleaning chemicals.

COSTS	CAPITAL COSTS one-time large purchases	OTHER COSTS	ANNUAL REVENUE COSTS recurring expenses	ANNUAL CAPITAL COSTS
Home Office Infrastructure Setup	5,000			5,000
Server	2,000			2,000
Server Maintenance	500		500	1,000
Software	2,000		200	2,200
Training	10,000		500	10,500
Remote Support	25,000		25,000	50,000
Headsets	1,000		200	1,200
Laptops	15,000	1,000	2,000	18,000
Home Office Furniture	15,000			15,000
TOTAL COSTS	**$75,500**	**$1,000**	**$28,400**	**$104,900**

BENEFITS	CAPITAL SAVINGS	OTHER SAVINGS	ANNUAL BENEFIT SAVINGS
Increased Staff Retention	11,000	4,000	15,000

The Automation Advantage

While autonomous robots have a higher initial acquisition cost, they drastically reduce the largest ongoing expense: Labor.

Redefining Productivity Standards

Outperforming traditional methods while eliminating labor costs.

Manual Mop & Bucket	1,600 ft²/hr
Walk-Behind Scrubber	12,000 ft²/hr
CenoBots L50	**27,663 ft²/hr**

Efficiency Multiplier: A single CenoBots L50 delivers the coverage of nearly **17 manual cleaners** or **2.3 walk-behind scrubbers** per hour, freeing your staff for detail work.

ROI Calculation Framework

A Step-by-Step Guide to Evaluating Your Investment

01 **Define Labor Costs**

Calculate the fully burdened hourly rate, including wages, taxes, insurance, and benefits (typically +30% of base wage).

02 **Estimate Cleaning Time**

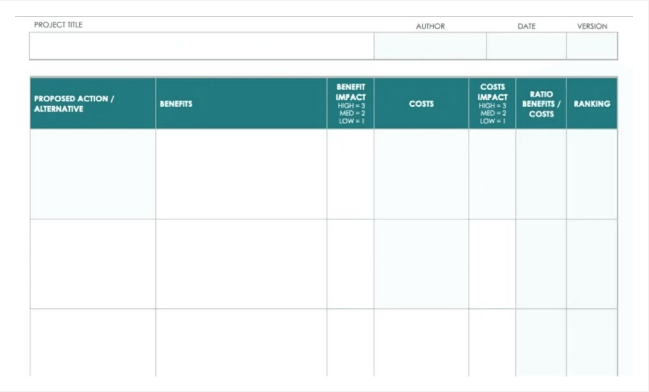
Determine total annual cleaning hours required based on facility size and frequency (e.g., 45,000 sq ft daily).

03 **Calculate Annual Spend**

Multiply the burdened hourly rate by the total annual cleaning hours to find your current manual cleaning cost.

04 **Determine Net Savings**

Subtract the robot's annual operating cost (maintenance + consumables) from the manual cleaning cost.



PROJECT TITLE		AUTHOR	DATE	VERSION

PROPOSED ACTION / ALTERNATIVE	BENEFITS	BENEFIT IMPACT HIGH = 3 MED = 2 LOW = 1	COSTS	COSTS IMPACT HIGH = 3 MED = 2 LOW = 1	RATIO BENEFITS / COSTS	RANKING

The Golden Formula

Payback Period (Months) = Total Robot Investment ÷ Monthly Labor Savings

Sample ROI Scenario

Warehouse Facility Analysis (45,000 sq ft)

Cleanable Area	Labor Rate	Frequency
45,000 ft²	**$25.00 / hr**	**5 Days / Week**

Current Manual Cost
3 hrs/day × $25/hr × 260 days
$19,500 / yr

Autonomous Operation Cost
0.25 hrs/day (staff prep) × $25/hr × 260 days
$1,625 / yr

Annual Savings **$17,875**

LYSIS: TRANSPORTATION PROJ

8% discount	6% discount
-$1,330.00	-$1,440.00
$1,319.00	$2,057.00
$3,333.00	$4,720.00
$3,322.00	$5,337.00
3.5	4.7

ROI Results by Model

Rapid Payback Across the Entire Fleet

Cumulative cash flow turns positive typically within 12-18 months.

Model	Est. Annual Labor Savings*	Est. Payback Period
CenoBots L3	$25,000 - $35,000	**14 - 18 Months**
CenoBots L4	$30,000 - $45,000	**12 - 16 Months**
CenoBots L50	$45,000 - $60,000+	**10 - 14 Months**

*Estimates based on daily usage (5 days/week), standard labor rates ($18/hr fully burdened), and typical productivity rates. Actual results may vary based on facility conditions.

Selection Guide

Selecting the Right CenoBots Robot

Matching the machine to your environment

04

Environment Selection Matrix

Matching the Right Robot to Your Facility

Environment Category	Typical Facilities	Best Fit Model
Compact & Complex	Retail Stores, Offices, Hotels, Clinics, Narrow Hallways	**L3**
Mid-Size Commercial	Schools, Hospitals, Supermarkets, Public Buildings	**L4**
Large Commercial	Airports, Shopping Malls, Convention Centers, Large Lobbies	**L4 / L50**
Industrial	Warehouses, Factories, Logistics Centers, Manufacturing	**L50**

Quick Selection Guide

Find the Right Model Based on Your Constraints

Restricted Space	Standard Commercial	Large Industrial
Passage Width	Passage Width	Passage Width
< 32 inches (Narrow Aisles)	> 32 inches (Standard Halls)	> 36 inches (Open Spaces)
↓	↓	↓
Total Area	Total Area	Total Area
Any Size (Complex Layouts)	20k - 80k ft² (Mid-Size Facility)	> 80k ft² (Large Facility)
Recommended Model	Recommended Model	Recommended Model
L3	**L4**	**L50**

Accessories & Workstations

Enabling True Autonomy and 24/7 Operation

Workstation CWS-01

Recommended

The all-in-one docking station that transforms your robot into a fully autonomous cleaning system. It handles maintenance without human intervention.

- Auto Charging
- Auto Refilling
- Auto Draining

Standard Charging Station

- Automatic docking for battery recharging.
- Compact footprint for flexible installation.

Additional Tools

- **Spray Gun:** For manual spot cleaning and tank maintenance.
- **Squeegee Kits:** Easy-swap replacements for different floor types.

SPROUTMATION

Summary & Key Takeaways

Why CenoBots is the Smart Choice for Your Facility

01

Compelling ROI

With labor accounting for up to 90% of cleaning costs, CenoBots robots typically deliver a payback period of 12-18 months, turning a major expense into a long-term asset.

02

Superior Consistency

Autonomous cleaning guarantees 99.5% coverage every single time, eliminating the missed spots and variability inherent in manual mopping and scrubbing.

03

Versatile Solutions

From the compact L3 for tight retail aisles to the industrial L50 for massive warehouses, there is a purpose-built CenoBots model for every environment.

04

True Autonomy

When paired with the CWS-01 Workstation, these robots handle their own charging, refilling, and draining, enabling true 24/7 "set it and forget it" operation.

Ready to Transform Your Cleaning Operations?

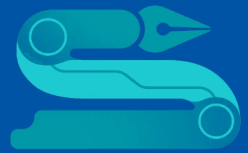
Take the next step towards autonomy, efficiency, and consistency.

Recommended Next Steps

01 **Schedule a Live Demo**

02 **Request a Site Survey**

03 **Get Your Custom ROI Analysis**



Sproutmation

Address

4440 Round Lake Rd W
Arden Hills, MN 55112

Email

sales@sproutmation.com

Website

www.sproutmation.com