Cleanfix S170-2 SIM

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Commercial Certification IEC 60335-2-69

Accredited by TÜV, SGS in cooperation

EU-LAB

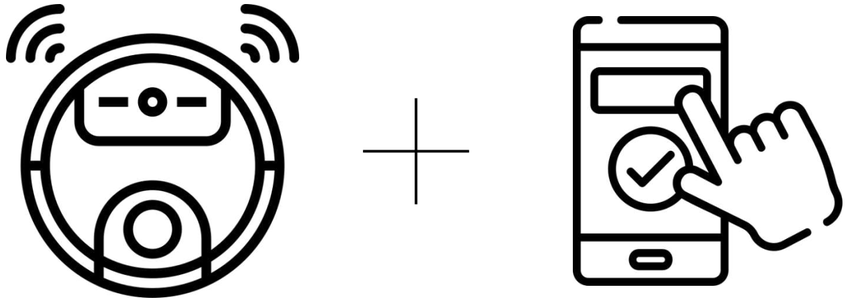
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www.cleanfix.com

Cleanfix S170-2 SIM

VANTAGE

(Vacuum Autonomous Networked Technology with All Global Engagement)



S170-2 SIM + FieldBots Control App

Autonomous Vacuum Management Network

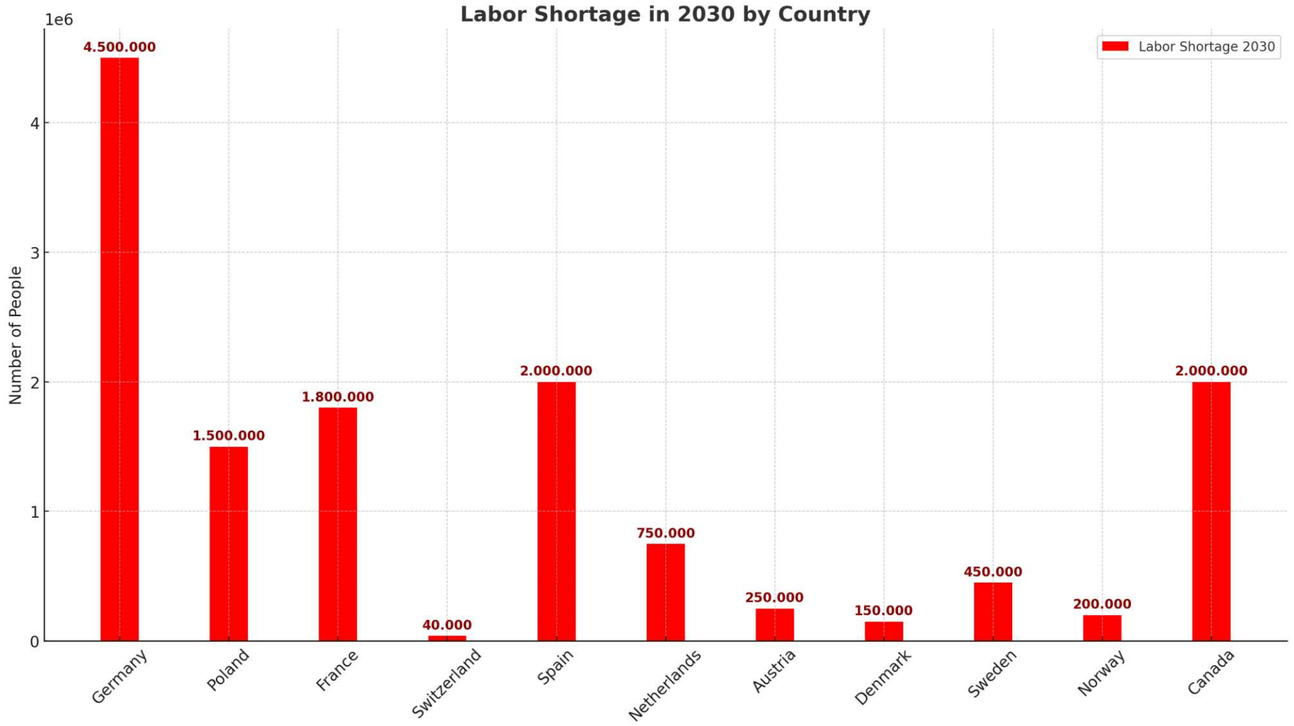
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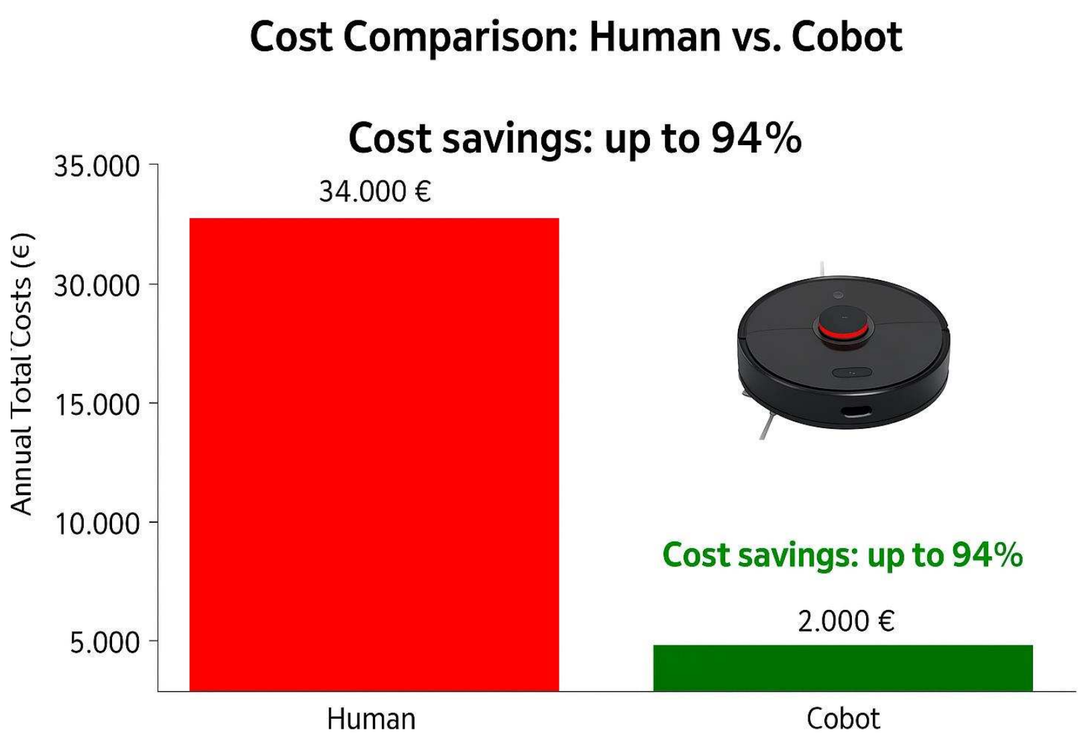
1. Framing the Challenge
2. The Cleanfix Solution
3. Product Features & Differentiation
4. Competitor Comparison
5. Fleet & Integration (VANTAGE)
6. Software Benefits (VANTAGE)
7. Additional Insights

Section 1:
Framing the Challenge



Europe's 2030 Labor Deficit





As labor costs climb and service providers face price pressure, streamlining processes becomes essential.

Collaborative robots (cobots) bolster a limited workforce, helping keep both costs and output steady.

Sources: EU Commission, Korn Ferry, BCG, national statistics | Cobots: Collaborative robots from Cleanfix & partners

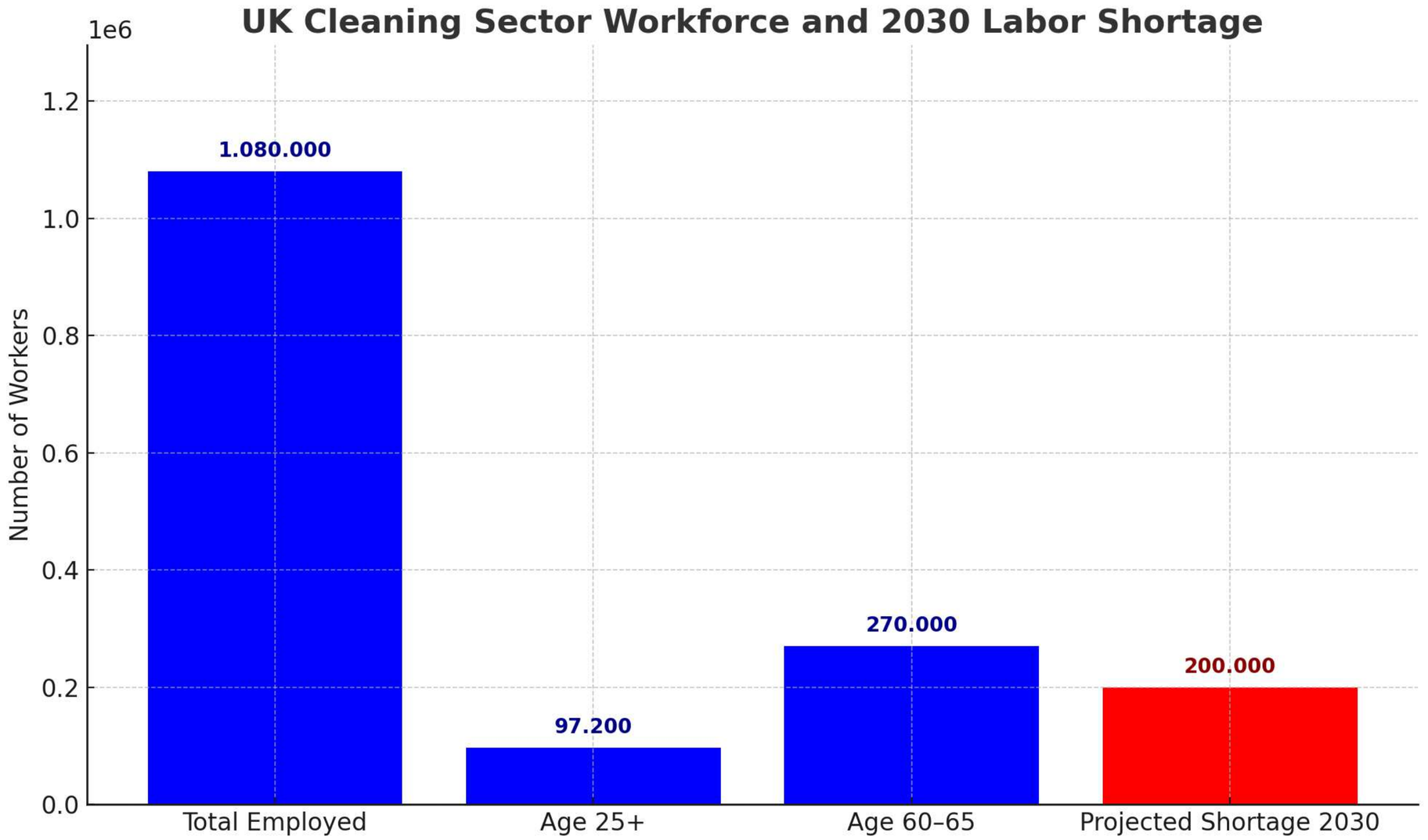
2030 Talent Gap Snapshot & Insights

Market	Gap by 2030	What's driving it
European Union (aggregate)	15,000,000 shortage	Wave of retirements + too little intra-EU mobility
Germany	4,500,000 shortage	Largest single-country gap in Europe; acute in finance, business services & advanced manufacturing
Spain	2,000,000 shortage	Aging population and high youth emigration, compounded by skills-mismatches in construction, tourism & ICT
France	1,800,000 shortage	Ageing workforce plus skills-mismatch in ICT & finance
Switzerland	40,000 shortage	Very low domestic birth-rate; half-million workers projected to be missing even after immigration
Canada	2,000,000 shortage	Baby-boomer retirements + insufficient domestic training, exacerbated by immigration backlogs

Sources: EU Commission, Korn Ferry, BCG, national statistics, Consultancy.eu, Schweizerischer Arbeitgeberverband; Bruegel, The demographic divide: inequalities of ageing across the European Union, Bank of Spain, Annual Report 2023, Chapter 3, Business Europe, Analysis of labour and skills shortages, Statistics Canada, "Daily — Labour force characteristics, August 2024" , IRCC, Labour shortages, Reuters, "Some migrants in Canada lose work status while applications languish" (Apr 21, 2025)

A look at UK's Cleaning Industry 2030

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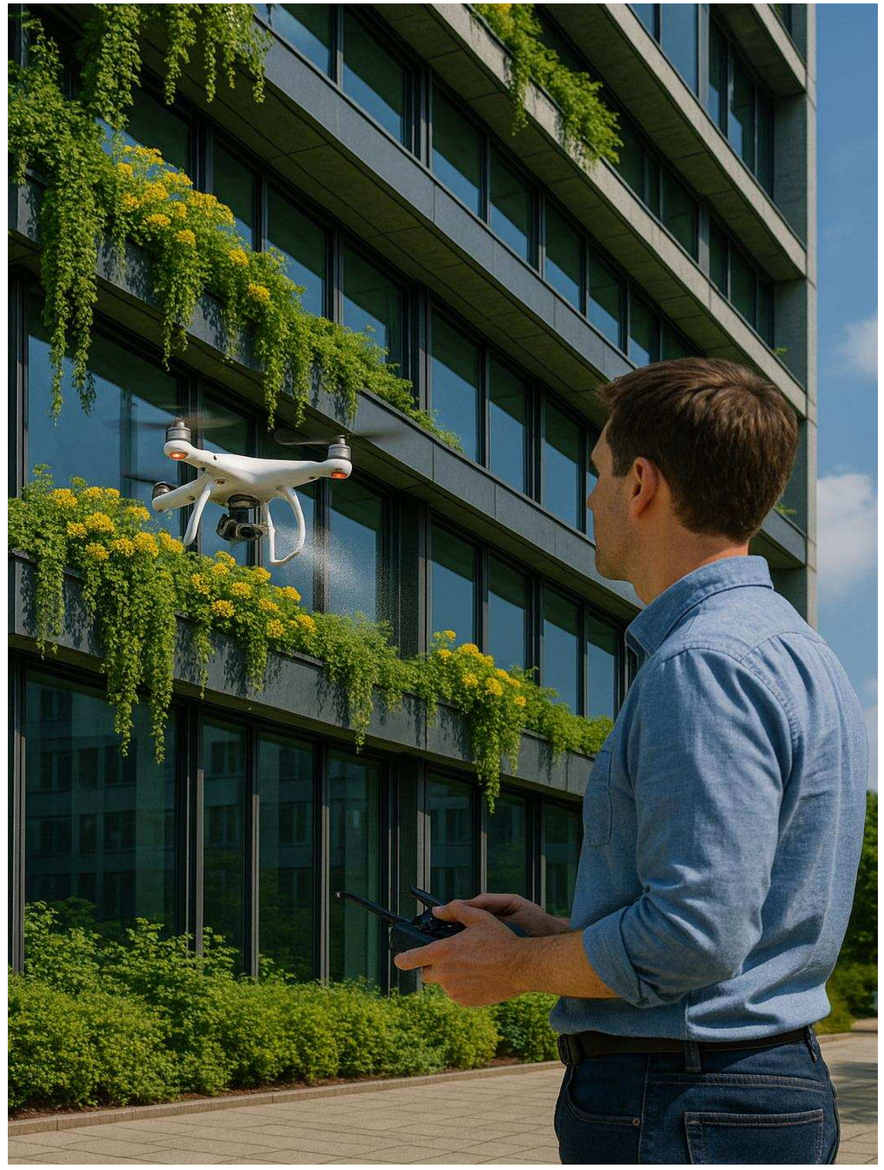
Cobots: Your Labor Insurance Plan

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Plug Immediate Gaps: Deploy Cobots in cleaning to offset labor shortages.

Protect Margins: Automate repetitive tasks—hedge against rising wages

Scale Effortlessly: Add capacity without hiring headcount.



The future isn't about replacing people with robots. It's about working smarter side by side with COBOTs to address labor challenges.

Section 2:
The Cleanfix Solution



Meet the Cleanfix S170-2 SIM Cobot

Main Unit

- Robot (Main Unit)



- Remote Control



- Side Brush
- Roller Brush
- Filter Kit



- Front Bumper Extension (Optional)



Docking Station

- Docking Station



- Dust bag (replaceable)



- Cable
- Cable Holder
- Base plate (optional)



Others

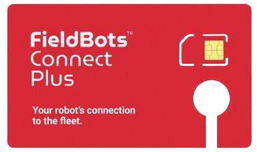
- Cleaning Tool
- Owner's Manual



Cleanfix S170-2 SIM - Features

Connectivity

- ✓ Integrated SIM Card + Wlan 2.4 & 5.0 Ghz (failover)
- ✓ EU cloud data storage
- ✓ No cameras or microphones





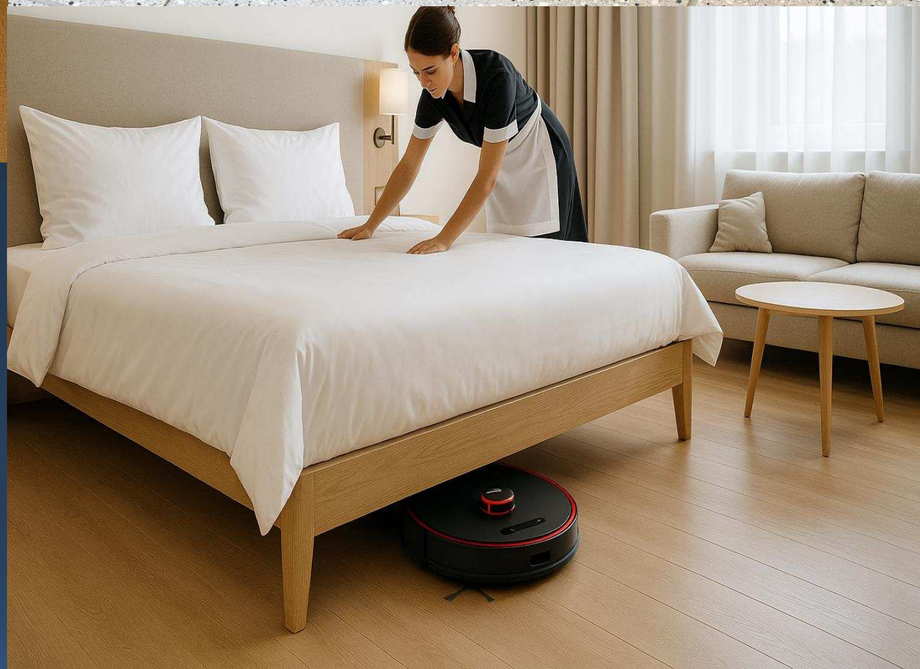
Performance & Safety

- ✓ *Professional use certification IEC 60335-2-69*
- ✓ *Reinforced suction motor at 4000 Pa*
- ✓ *HEPA filter in docking station and UVC light*
- ✓ *Drop-and-Go modus with 10 % speed increase*
- ✓ *Equipped with cliff sensors to prevent cobot from falling off stairs or elevated edges.*









Primary Application Areas

Primary Application Areas

- Hospitals (mainly administrative areas)
- Senior residences
- Hotels including Drop-and-Go application
- Offices (including security areas)
- Entrance areas in all facilities
- Corridors (if not too large)
- Single-room areas
- Small retail shops (shoe and fashion stores)



Flat Design for Tight Spaces



Tables and Chairs

Beds, sofas, dressers

Equipment

All low obstacles







Why upgrade from manual vacuuming

cleanfix

Cleans for hours: 4–5 hours nonstop	No rework needed: One pass is enough
Always on: Runs 24/7 without blocking staff	Truly autonomous: Simple app, no hassle
Energy smart: Runs light, saves power	Privacy-first: No cameras, no watching
Zero distractions: Quiet and focused	Goes where others can't: Slides under tables, chairs, tight spots



"Manual vacuuming accounts for up to 25% of total cleaning costs in offices and hotels!"

Why Upgrade from Manual Vacuuming

	Hand Vacuum (850 W upright)	S170-2 SIM (50 W, SIM-enabled)
Cleaning pattern	1 quick pass → patchy results	4–5 autonomous passes/day → uniform quality
Labour time	1 h / day → 250 h / year	0 direct labour hours
Electricity used	212 kWh / year	63 kWh / year
Energy cost*	$ 68.60	$ 20.18
Under-furniture reach	Limited	95 mm low-profile
Noise & disruption	Operator present	Runs off-hours, quiet
Security / Privacy	Staff on site with smartphone!	No cameras, GDPR-safe
Scalability	1 machine = 1 operator	Manage 1 000+ bots from a dashboard

*Example electricity rate: $0.3228 per kWh.

What Powers the S170-2 SIM

Cleanfix S170-2 SIM - Key Features



Fleet Management Software
- Planner & Group Start
- Maintenance View
- Statistics & Logs

Performance Specifications
- Working width: 170 mm
- Side brush width: 275 mm
- Dust tank: 0.28 L
- Dust collector: 2.5 L
- Battery charging: 5.5–6 hrs

Battery and Communication
- Lithium-ion battery
- Size: 345 × 345 × 97 mm
- Power: 110–240 VAC 50/60 Hz
- HEPA filter with UVC

Hardware & Operation
- Auto Dustbin Panel
- Dustbin Status
- Battery Display
- Auto Dust Collection

Software Functions
- Carpet boost
- App control
- Selective room cleaning/No-go zones

Connectivity
- Wi-Fi 5 GHz connection
- Integrated SIM card
- 4000 Pa reinforced suction
- Optimized docking base plate
- UVC light cable management

Section 3:
Product Features & Differentiation



Stay Connected with Sim Card

- In large organizations, IT approval for Wi-Fi integration can take weeks or never materialize. The S170-2 SIM operates independently via SIM — no delays, no red tape
- Wi-Fi coverage is often unreliable, in hotels where guest access is limited or in retail stores frequently where there is only partial or no Wi-Fi coverage, The S170-2 SIM operates reliably in locations with weak or no Wi-Fi—ideal for hotels, offices, and retail spaces.





Why is Drop-and-Go so important

- Portable, dock-free deployment—just place the robot anywhere, press Start and walk away
- Uses onboard SIM instead of Wi-Fi, so it works even in connectivity dead-zones
- Drop & Go firmware adds ≈ 10 % cleaning-speed boost

Drop it, press one button, get spotless floors—while your team tackles the tasks that only people can do.

Privacy-Safe & Quiet Night Operation

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Zero Privacy Risk

- ✓ 100 % LiDAR navigation — no cameras, no microphones, no visuals recorded
- ✓ Removes "cleaner-as-spy" risk — nothing and no one left to snoop



Runs Quietly at Night — Without Staff

- ✓ ≈ 4 hours runtime per charge — covers the entire floor overnight
- ✓ After-hours scheduling — building remains locked and unmanned
- ✓ ≤ 62 dB operation — no disturbance alarms or guest complaints
- ✓ Self-dock & auto-empty — zero need for night-shift personnel

Case in point: A 2022 MIT Technology Review revealed test Roombas leaked private photos (e.g., a woman using the toilet) online — camera-free design avoids this risk.

Sources: https://www.technologyreview.com/2022/12/19/1065306/roomba-irobot-robot-vacuums-artificial-intelligence-training-data-privacy/

Allergy-Reducing Solutions

- ✓ Reduces hay fever triggers and dust allergies for hotel guests and office workers
- ✓ HEPA filters trap allergens and fine dust particles
- ✓ UVC light in robot neutralizes bacteria
- ✓ No airborne dust released during cleaning cycles
- ✓ Helps maintain clean indoor air quality throughout the day
- ✓ Operates quietly without stirring up dust
- ✓ SIM-based connectivity provides real-time filter status and maintenance alerts, ensuring peak allergen-removal performance
- ✓ Ideal for allergy-friendly hotels, hospitals, and office environments



Dust under Bed !

Section 4:
Competitor Comparison



Our Main Competitors

✅ List Price (Net): €986.00



Approximate Price: €3,000!



Approximate Price: €2,990!



	Cleanfix S170-2 SIM	ZACO X 1000	Nexaro NR 1700
Navigation	LiDAR-based; no camera; privacy-focused	Camera-based navigation with app control	High-precision laser sensor; advanced AI navigation
Connectivity	Cloud via EU servers; BMS integration	Basic app control	IoT-enabled; Requires Nexaro App & Software
Cleaning Capacity	Up to 320 m² per charge	700–1000 m² per cycle (Realistic is 500 m²)	700–1000 m² in Eco Mode (Only about 150 m² in standard mode)
Dust Capacity	2.5 L docking station; 0.28 L onboard; Dustbag in docking station	Bagless system – hygiene concerns from manual cleaning and bacteria spread	1.4 L Frequent manual emptying required
Fleet Management	Yes; via FieldBots platform	No advanced fleet platform	Yes; Nexaro HUB
Others	Can clean under low furniture, also has built-in UVC disinfection light and automatic speed adjustment for different floor types	Cannot clean under low furniture	Cannot clean under low furniture

Professional vs. Consumer Bots

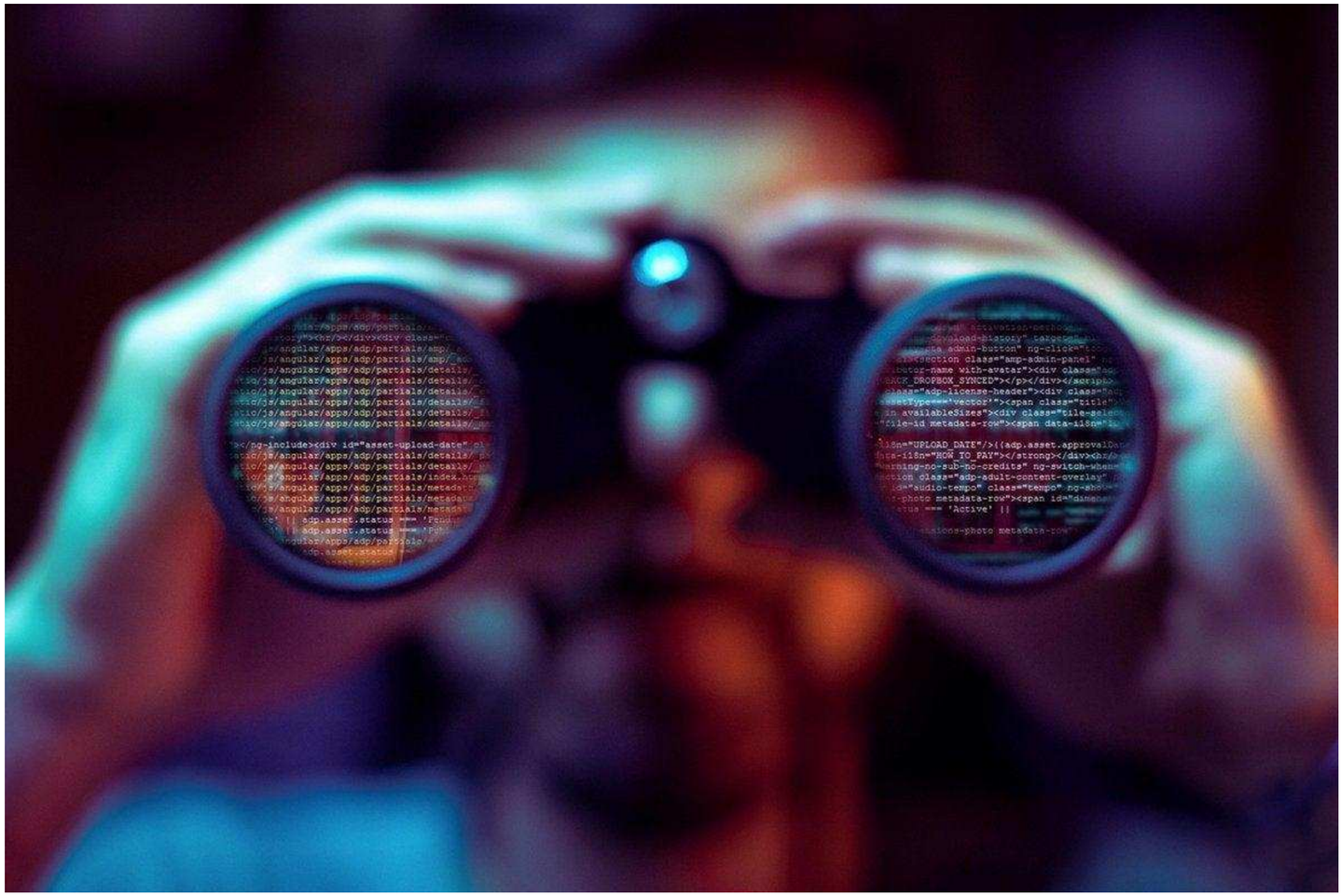
Understanding the difference between professional-grade Cleanfix S170-2 SIM and consumer bots

✓ S170-2 SIM has German OS operated Software:

- GDPR compliant
- Secure servers
- Controls 1000+ bots
- No cameras or microphones
- Minimal Data Risks

🚫 Other machines have Chinese OS Software:

- No data security
- No protection protocols
- Limited app control
- Often uses cameras/microphones for navigation (privacy risk)



Professional vs. Consumer Bots

Understanding the difference between professional-grade Cleanfix S170-2 SIM and consumer bots

Designed only for home use:

- Weak sensors
- Short runtime
- Spare parts often hard to find

Most consumer bots: 2.3–2.8 kg — limited endurance and suction power



Professional Grade Build:

- Accurate mapping
- Longer runtime, covers more area
- Easy access to spare parts
- Certified for commercial use
- Front Bumper to prevent bumping into small obstacles

S170-2 SIM 2: 3.54 kg — built for durability

Section 5:
Fleet & Integration



Software as part of the solution

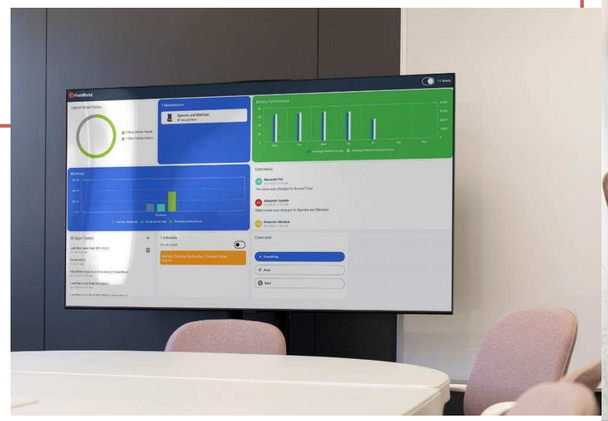
Fleet Management Features

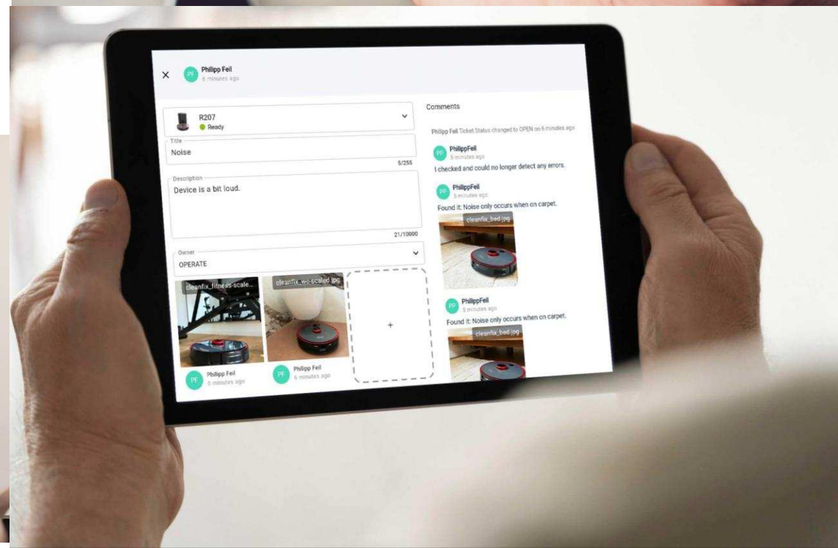
- Scalable control for thousands of units
- Central planner with group start
- Maintenance overview
- Statistics and reporting
- Easy access via mobile, tablet, or PC
- Supports integration with other robots

Powered by FieldBots Software

- Easy setup via QR code
- European software, ready to use out of the box
- Data stored securely on European servers
- Continuous software updates and improvements
- Major updates delivered directly









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Manage your Swarm of Bots

- **Plan, Control & Customize**
  User can define cleaning zones, create no-go areas, assign cleaning schedules, and generate zone-specific reports — all in a few clicks

- **Scale Easily & Integrate Seamlessly**
  Effortlessly add new robots, users, and locations. Integration into existing operations and software platforms is simple

- **Analyze, Improve & Report**
  Track activity and performance at a glance. Export detailed reports on usage, runtime, and productivity with one click

- **Auto Refill Supplies**
  Get automated alerts and trigger orders for consumables like dust bags, brushes, or filters — no manual tracking needed

Real Fleet Management

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Why Choose Us?

✅ Scalable Fleet Management

- 75,000+ robots already managed via FieldBots OS
- Easily add new robots, users, or entire buildings

✅ Centralized, Cross-Site Control

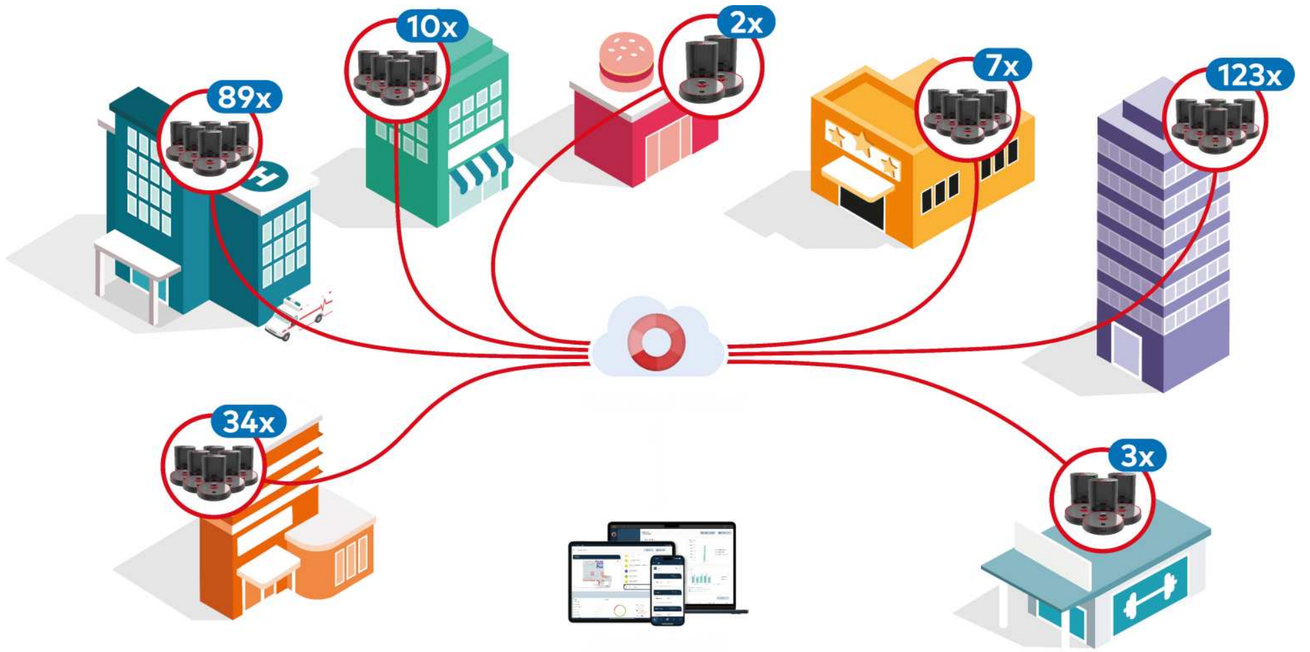
Manage fleets across multiple buildings and locations

Full control via one dashboard — PC, tablet, or mobile

Works remotely — control robots offsite, anytime

✅ Smart Cleaning Configuration

- Assign zones, create no-go areas, and schedules
- Auto-generate reports, logs, and usage statistics
- Get alerts for errors and maintenance needs for all cobots



Ready to unlock the full potential of FieldBots? Contact us for a comprehensive onboarding — it's the key to fully understanding and selling the benefits of this powerful solution!

Integrate existing fleet – Easily and Securely

S170 SIM-2 SIM

✓ Direct FieldBots connection

✓ Full security & server integration

✓ Easy to switch from your existing machine

Other Brands?

Can be integrated, but they are still mostly connected via the server of the manufacturer to FieldBots Connect



Why offer multi-brand support?

Let customers keep their current machines, while testing the S170-2 SIM —all managed in one app.



Why switch to S170-2 SIM ?

Third-party integrations carry IT risks and are harder to migrate. S170 offers a simpler, safer connection.

Section 6:
Software benefits



User Roles & Permissions

Free Version (Starter License)

- Up to 2 Bots
- Compatible with iOS, Android, and Tablet Apps
- Access to Robotic News, Lists & Rankings
- Map-based zone control — create virtual walls to restrict robot movement



Full Plan – €12.50/mo (including SIM card, Cloud & Data)

- Unlimited Fleet Management
- Cross-platform support (Web, iOS, Android, Tablet)
- Advanced Features:
  - ➢ Map History & Recovery
  - ➢ Team Management
  - ➢ Export & Reporting
  - ➢ Inventory & Place Management (with QR codes)

Each customer can operate two free licenses. These offer limited features

Annual Fee per Unit



Tiered Pricing Structure:

- Up to 25 Robots: €150/unit/year
- Up to 50 Robots: €140/unit/year
- Up to 100 Robots: €120/unit/year
- Up to 200 Robots: €100/unit/year

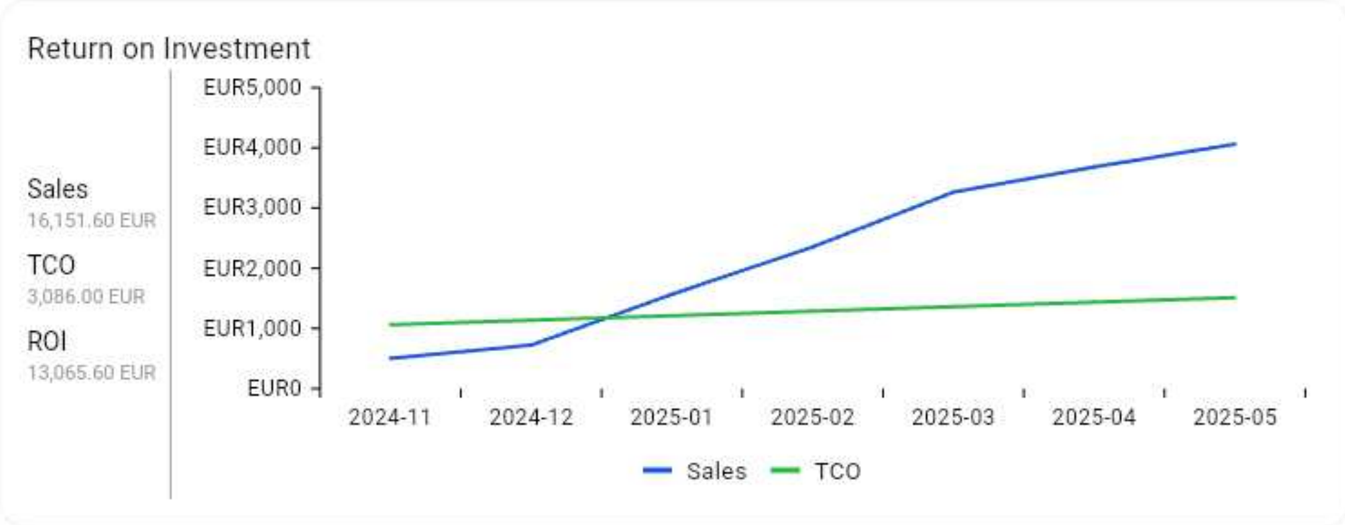
License fee is €150 per unit/year
Now includes data usage via SIM card in most countries!

Cost-Benefit-Analysis
150 Euro License Fee
Per Year & Cobot

Time savings 5 Minutes per day to check robot (30 Hours x 15 Euro)	+ 450 €
Avoiding long down times (e.g. 2 days at 50 Euro per day)	+ 100 €
Optimizing via reports processes (less electricity, wear, routines)	+200 €
Total extra costs without license	**750 €**
License Fee per Cobot / Year	– 150 €
Net benefit	600 €
Net benefit	**~ 600€**

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Cost-Benefit Calculation



Another benefit of the professional license is that you can track the return of investment of your robot including the yearly extra costs against its real time performance and the cost you charge to your customer

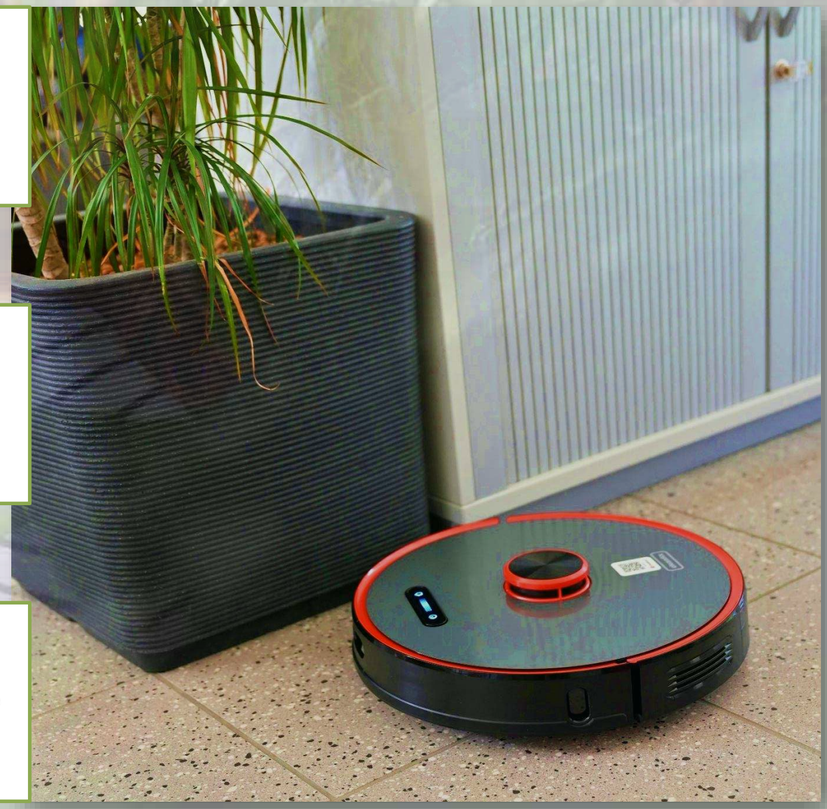
Section 7:
Additional Insights



Built for a Greener Future

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- Consumes less energy than traditional vacuum cleaners
- HEPA + UVC system promoted better indoor air quality
- Durable components mean fewer replacements and less waste



Have Questions?

To get in touch, please reach out to,

www.cleanfix.com

info@cleanfix.com

s170@cleanfix.com

Or

Scan me!





Thank You

Let's shape tomorrow together—partner with Cleanfix, your trusted automation partner!