



Liberty SC60

Autonomous Scrubber

The power of large-scale intelligence

Built on Brain Corp's powerful Brain OS – the world's most widely-used autonomous operating system – the high-performance Liberty SC60 has long runtime and minimal downtime requirements.

Its significant cleaning capability makes it ideal for maximizing floorcare quality and efficiency across the world's largest indoor spaces. And because it's a Liberty solution, its extensive programmability means operators can adapt the SC60 to any layout, in any environment, in a single run.

Safer, more productive cleaning

Like all Nilfisk Autonomous solutions, the Liberty SC60 is safety-certified, fully autonomous, and designed for consistent results with minimal oversight. This high level of operational safety allows staff to focus on tasks that benefit the most from valuable human effort, and provides the means for unmatched productivity in any large-scale cleaning operation.

- **Smart obstacle-detection and avoidance** – Sensor array tracks obstacles around the machine
- **Independent safety system** – Creates a safety zone around the machine and detects any danger in the surroundings
- **Robotic-safety certification** – World's only 3rd party-certified autonomous machine (CSA/ANSI C22.2 No. 336-17)
- **Simultaneous localization and mapping (SLAM)** – Eliminates time-consuming, expensive pre-mapping

Programmable performance to match your needs

The Nilfisk Liberty SC60 gives you programmable floorcare that adapts to your needs. Three distinct cleaning modes give you the power to optimize productivity, and as a 3rd party-certified autonomous cleaning solution, it's ideal for operation in a variety of populated environments.

- **CopyCat™ mode** – Replicate a cleaning path mapped out in a single run
- **Multi-Plan mode** – Link and assign up to six pre-recorded cleaning plans per location tag, per site
- **Manual mode** – Take complete control over movement and cleaning for ad hoc tasks

Smarter solutions for better business

Optimized productivity deserves optimized support, and Nilfisk Service offers the best means of ensuring that the Liberty SC60 performs at its best – every time.

- Attractive service packages that offer full-scope coverage to safeguard fleet performance
- Flat-fee, all-inclusive maintenance and repairs*
- Highly skilled technicians trained and certified by Nilfisk
- Digital solutions for performance monitoring and reporting
- Constant connectivity and proactive response to maximize uptime
- 24-hour response time in the event of service request*

Liberty SC60

A smarter standard of clean

- Nilfisk Autonomous solutions are designed using innovative technology that increases productivity to reduce your cleaning costs
- We offer expert service and maintenance provided by factory-trained personnel around the world, as well as fast spare-parts delivery



1. The worlds most adopted autonomous navigation system powered by Brain OS for excellent performance

2. Independent safety-system machine sensors

3. Wrap-around squeegee ensures 100% water pick-up and dry floors

4. Intuitive touchscreen interface, controlling all the autonomous cleaning operations

5. Nilfisk family look panel embedding all the Nilfisk patented cleaning parameters


6. Ergonomic seat position with enough legroom for easy on/off

7. Safety dead man switches positioned on the user panel and on the back of the unit for the maximum security

8. Rear polyurethane tires for outstanding traction and durability

Technical Specifications

Models	SC60
Cleaning technology	Disc and cylinder
Cleaning width	28 in (71cm)
Solution Tank	26.1 gal (99 L)
Recovery Tank	27.74 gal (105 L)
Time between dump and refill	2.5 hours between dump and refill
Machine Voltage	24 V
Battery Capacity (max)	4.5-5.5 hours (application dependent)
Battery type	AGM – Maintenance-free
Scrub Brush Speed	215-260 RPM
Max Transport Speed – Manual Fwd.	1.90 m/sec
Max Transport Speed – Manual Rev.	1.24 m/sec
Max Speed Autonomous	2.46 mph / 1.1 m/s
Max Theoretical Productivity in Autonomous	2811 m ² /hr
Sound Pressure Level (IEC 60335-2-72)	57 dB(A)/20µPa
Gradeability – Manual Transport	16% (9.09°)
Gradeability – Manual Cleaning	9% (5.14°)
Gradeability – Autonomous	2% (1.15°)
Minimum Aisle Turn Width – Manual	74 in (1.88 m)
Squeegee Width	32.6 in (82.9 cm)
Length	66.7 in (169.5 cm)
Width	31.9 in (81.1 cm)
Height (top of the beacon)	57.4 in (145.9 cm)
Model Numbers	56123290 (US P/N)
European Part numbers	56123292 (EU P/N)

Specifications are subject to change without notice 

SAFETY SYSTEM

Separate system independent of the mapping, obstacle-detection, and path-planning systems. Overrides autonomous system and can immediately stop in the event of unsafe conditions. Dual safety-rated sensors provide 360-degree coverage, and drop-off sensors detect drops like loading docks, stairs, escalators, steps, and more



APPLICATIONS

- Schools and universities
- Hospitals/healthcare facilities (SC60 is EMC Certified)
- Entertainment and convention centers
- Large retail centers
- Airports
- Office buildings
- Facility management
- Grocery stores
- Warehousing & logistics

DIGITAL SOLUTIONS



The SC60's digital solutions enable you to take proactive actions by providing timely information specific to your site and machine, including:

- Cleaning-task reports detailing where cleaning occurred, as well as when and by whom
- Real-time operators updates regarding machine performance, sent to their cellphone through TextAssist

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