

korben

Korben SC 50



AI-Powered Robotic Floor Scrubber.

The SC50 is an innovative cleaning robot specially designed for modern commercial environments.

Equipped with advanced technologies such as LiDAR, depth cameras, and an intelligent sensor system, it offers smooth and precise navigation, even in the most complex spaces.

It covers up to 2500m² per full water tank, excelling at floor cleaning, its 30L clean water tank and 24L waste water tank support steady operation

Thanks to its unique 0 cm edge-cleaning technology with roller brush, the SC50 guarantees impeccable results on a variety of surfaces, including natural stone, tiles, and PVC flooring.

Choose the SC50 to transform your cleaning operations with an intelligent, high-performance solution, ideal for Medium to Large spaces like shopping malls, offices, and hotels.

Key Benefits

3-in-1 Solution

Integrates scrubbing, sweeping, and dust mopping in a single solution.

Smart Obstacle Avoidance

Recognizes passengers and obstacles and makes advanced behavior decisions according to the types and characteristics of obstacles.

Spot Cleaning Mode

Proactively detects and cleans waste using RGB camera and AI algorithms, bringing up to 400% efficiency improvement.

2 Main Brush Options

Choose between a disc brush or a roller brush to suit your specific cleaning requirements.

Water Recycling

Features a built-in multi-stage filtration system that recycles and reuses water, reducing fresh water consumption by approximately 80%.

Zero Distance Edge Cleaning

Roller brush version with side brushes that can reach edges seamlessly (close to the wall).



Product Characteristics

	Disc Brush Version	Roller Brush Version
Size (L*W*H)	810×700×1070 (mm)	810×700×1070 (mm)
Weight	157kg	148kg
Autonomy	Scrubbing 3h, Mopping 8h	Scrubbing 3h, Mopping 6h, Sweeping 6h
Charging Time	2h	2h
Gradeability	4.6°	4.6°
Cleaning Efficiency (Scrubbing)	1827m ² /h	1608 m ² /h
Cleaning Width	Dust Mopping 715mm, Scrubbing 460mm;	Sweeping 780mm, Scrubbing 406mm, Dust Mopping 406/715mm,
Cleaning Water/ Sewage Tank Capacity	30L/ 24L	30L/ 24L
Battery	24V, 60Ah LFP Battery	24V, 60Ah LFP Battery
Minimum Passage Width	800mm	800 mm
Minimum U-turn Width	1100mm	1100 mm
Maximum Cleaning Speed	1.1 m/s	1.1 m/s
Brush Pressure	25Kg	18kg
Maximum Cleaning Clearance	140mm (Disc Brush edge to wall)	0mm
Sensor	SLAM navigation, 1 main LiDAR, 4 safety LiDAR, 1 rear LiDAR, 2 RGB Camera, 3 Depth Camera	

Front Oblique Depth Camera

Wider field of view, improving detection accuracy for stairs, escalators, etc.

Rear RGB Camera

Improving the ability of detecting obstacles at the back, to ensure more efficient and smoother obstacle avoidance

Front RGB Camera

Used for spot cleaning, improving cleaning efficiency in an intelligent way

Filter

There are three filters in the fresh water tank, which constitute a complete 2-stage filtration circulation system, namely, the third-stage filtration and fourth-stage filtration.

Bumper Sensor

Fixed design, no need to disassemble during daily maintenance, meaning it will not easily fall off. Maintenance can be done with quick access via the maintenance cover on both sides

Manual/Automatic Switch and Lock Screen

Located on top of the machine for simplified use.

Water Tanks

Increased capacity (30 L clean water tank and 24 L dirty water tank), reducing the frequency of the robot returning to the workstation for refilling or emptying.

Dust Bag

Upgraded to a stainless steel dust sieve, making it easier to clean.

