

123BOTS

DISTRIBUTION

MT1 Max

AI-Powered 3D Perception Robotic Sweeper



Built on the proven MT1 platform, the MT1 Max is designed to withstand the demands of high-traffic manufacturing environments. Featuring upgraded 3D LIDAR perception and dual-chip architecture, the MT1 Max excels at navigating complex production lines and fast-moving logistics zones. With improved obstacle-crossing abilities and a fully automated workflow, it keeps your facility audit-ready and free of debris without disrupting your crew's productivity.

KEY FEATURES



**3D PERCEPTION
INTEGRATION**



**MAGIC
CLEANING**



**SMART OBSTACLE
AVOIDANCE UPGRADE**



**EMPTY THE FACILITY
OF
DIRT & TRASH**



**24/7 CONTINUOUS
OPERATION**



**AI ADAPTIVE
CLEANING**



**INTELLIGENT ACTIVE
INTERACTION**



**COVERS UP TO
100,000M²**

TECHNICAL SPECIFICATIONS: MT1 MAX

ENGINEERED FOR HIGH-VELOCITY FACILITIES

1. Performance & Cleaning Power

- **Cleaning Path:** 27.5 inches (includes dual integrated side brushes for flush-to-wall sweeping).
- **Max Coverage (Standard):** ~23,680 sq. ft. per hour.
- **Max Coverage (Spot Cleaning):** ~75,347 sq. ft. per hour.
- **Debris Hopper Capacity:** 9.25 gallons (heavy-duty industrial container).
- **Debris Capability:** Optimized for fine dust, metal shavings, wood scraps, plastic bottles, and discarded packaging materials.
- **Filtration:** HEPA-grade system with Internal Vibration Cleaning to maintain maximum suction in high-dust zones.

2. Intelligence & Navigation

- **Navigation Suite:** Hybrid VSLAM + 3D LiDAR + Marker SLAM for sub-inch precision.
- **3D LiDAR Range:** Scans up to 492 feet (164 yards), providing long-range detection of fast-moving forklifts and personnel.
- **Dual-Chip Computing:** Advanced dual-chip architecture for real-time AI path re-calculation in high-traffic loading docks.
- **Adaptive Safety Features:** * Dynamic Vehicle Avoidance: Pre-programmed yielding protocols for AGVs and manual forklifts.
- **AI Spot Cleaning:** Automatically identifies high-debris spill zones for immediate localized cleaning.

3. Mobility & Build

- **Obstacle Clearance:** Successfully navigates over 2-inch speed bumps, dock plates, and floor transitions.
- **Climbing Grade:** Operates on inclines up to 8 degrees (Standard warehouse ramps/ADA-compliant slopes).
- **Environmental Protection:** IP54-rated (Protected against dust ingress and water splashes from any direction).
- **Personnel Safety:** Integrated 4-foot safety beacon and floor-projection warning lights for high-noise environments.

4. Power & Logistics

- **Runtime:** 5 to 10 hours, depending on floor friction and debris load.
- **Battery:** 60 Ah High-Density Lithium-Ion.
- **Charging Time:** Less than 3.5 hours for a full cycle via autonomous docking.
- **Operational Readiness:** 24/7 capability with "Resume-at-Last-Point" logic after autonomous charging.

UPGRADED VERSATILITY



IMPROVED OBSTACLE AVOIDANCE

Fully upgraded obstacle avoidance system with 3D LiDAR enables smarter dynamic avoidance of both vehicular and human traffic pausing operations to let traffic cross and resuming once the cleaning route is clear.



AI ADAPTIVE CLEANING

Featuring a dual-chip architecture, MT1 Max doubles computing power to enable more precise AI recognition and faster processing. Hardware-software integration allows sensors, hub motors, side brushes, and main brush to work in harmony.

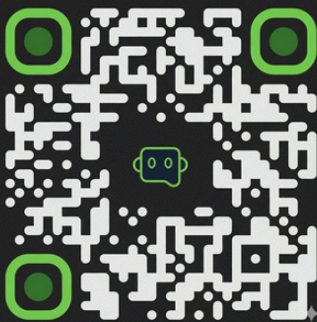


AUTOMATIC FILTER CLEANING

An internal vibration system keeps filters clear in real time, preserving suction and filtration efficiency while extending component life. The process is fully automatic, eliminating manual upkeep and reducing maintenance frequency.

SPECIFICATION SUMMARY

Robot Dimensions (LxWxH)	840 x 600 x 675 mm (33*23.6*26.6 in)
Robot Weight	85 kg (187.39 lbs)
Cleaning Capabilities	Sweeping
Cleaning Performance	Cover Cleaning Max. 2200m ² /h (23680.6 ft ² /h) Spot Cleaning Max. 70000m ² /h (75,347 ft ² /h) <3.5 h
Charging Time	<3.5 h
Run-Time	5-10 h, Standard Mode 8 h
Battery Capacity	60 Ah
Cruise Speed	0.2 m/s ~ 1.2 m/s (0.66 ft/s-3.94 ft/s) (Adjustable)
Cleaning Width	70 cm (27.6 in) (with side brush)
Navigation	VSLAM + Marker + 3D LIDAR SLAM
Waste Container Capacity	35 L (9.25 US gal)



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