



MCKINNEY INDEPENDENT SCHOOL DISTRICT

DEPENDABLE AND EFFICIENT ROBOTICS HELP KEEP MCKINNEY ISD CLEAN AND SANITIZED

Among the challenges facing K12 schools today are two leading issues: meeting a higher expectation of cleanliness while dealing with limited resources. The post-Covid era has heightened attention on school cleanliness and sanitation methods. At the same time, employee recruitment continues to be a struggle.

McKinney Independent School District found one solution that solves both problems: robotic floor cleaning machines. In September 2021, the district installed auto-scrubbers in two of its high schools to clean large hard surfaces, including the gymnasiums, cafeterias and large corridors. The scrubbers can clean these areas every night efficiently and reliably, ensuring schools are consistently ready for students the following day.



TOTAL CLEANABLE SQUARE FOOTAGE:
McKinney High School 563,852 sq. ft.
McKinney Boyd High School 662,418 sq. ft.

SQUARE FOOTAGE CLEANED BY ROBOTS:
McKinney High School 55,000 sq. ft.
McKinney Boyd High School 60,000 sq. ft.

DAILY RUN TIME FOR EACH ROBOT:
5 hours



The auto-scrubbers have been a huge advantage during our struggles with current labor shortages. We are delighted that Aramark had the vision to suggest that the district partner with them to make this long-term equipment investment.”

- W. Greg Suttle, Chief Operations Officer, McKinney Independent School District



We are experiencing many benefits with our new robotic floor scrubbers. The mundane task of cleaning and sanitizing our gym, cafeteria, and corridor floors are automatically completed every night which allows the remaining Aramark staff time to concentrate on the more detailed cleaning tasks and projects throughout the schools. We are happy we made the investment.”

- W. Greg Suttle, Chief Operations Officer, McKinney Independent School District



ROBOTIC INNOVATION AT WORK

Each morning as students and staff enter McKinney High School and McKinney Boyd High School, they can depend on consistency in floor cleanliness thanks to two newly installed autonomous floor scrubbers. These Nilfisk Liberty SC 50 units use UV-C disinfection technology, which maximizes cleanliness without supervision. The scrubbers employ an Ultraviolet Germicidal Irradiation (UVGI) light located at the rear of each machine to kill bacteria, viruses, and other pathogens as they independently navigate spaces such as hallways and gymnasiums. [UVGI technology](#), long utilized in the healthcare sector, has seen significant growth across industries since the beginning of the COVID-19 pandemic due to its effectiveness and efficiency in limiting the spread of the SARS-CoV-2 virus.

Once a path is mapped out by an operator, the robot will run the same route every day, with the ability to fill in missing space, and safety features that allow it to avoid obstacles and drop-offs. The robots run at a slow consistent speed, leading to a dependably thorough clean. Data analytics reports connected to each scrubber provide real-time insight into their performance to reduce down time and optimize cleaning schedules, as well as details on where, when and who cleaned a space. Over the past decade, ROI for the devices has significantly improved thanks to advancements in battery life, tracking and object recognition.

OPTIMIZING CLEANING STAFF DUTIES

With the robots handling large floor areas, cleaning staff are free to focus on other projects and tasks that need to be accomplished each night. Because the robots are preprogrammed to independently clean a designated space, employees can simply start the scrubbers and focus on performing other, human-centric duties, such as moving furniture, special project work like setting up the cafeteria and auditorium for events, and cleaning before and after evening basketball games. Additionally, the use of robotic scrubbers enables the custodial team to increase cleaning frequencies of high traffic areas. The result is optimized staff work hours and a better overall ROI on cleaning costs.

ROBOTICS ON THE RISE

Students, parents, teachers and staff have higher standards for health and wellness than ever before, accelerating the need for adoption of new cleaning innovations. These innovations are transforming school districts in important ways — making them safer and more comfortable places to learn and work.

The use of robotic cleaning machines has gained traction during the pandemic. Industry experts place the [expected compound annual growth rate for the robotic cleaning market](#) at 16% through 2026, as an increased number of individuals and organizations adopt the technology for everyday use.



ROBOTIC FLOOR SCRUBBER RESULTS

So far, the machines are delivering seven critical advantages for McKinney ISD:

- **Consistent, reliable results**
- **5 labor hours freed each day for staff to complete additional projects or tasks**
- **Improved optimization of cleaning staff time**
- **Opportunity for reprioritization of labor**
- **Increased confidence in cleanliness levels and sanitization of floors**
- **Reduced cost per sq. ft. of cleanable space**
- **Perception of innovation, health and safety**

STUDENTS WILL NAME THE ROBOTS

In 2022, McKinney ISD will be running a survey asking its students to name the floor scrubbing machines, further engaging students and staff.

Learn more about how Aramark innovates to ensure clean, safe and efficient facilities in K-12 school districts. Contact us today.

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