

NEWHAM DOCKSIDE

Using smart technology to deliver safer, more consistent cleaning

OVERVIEW

Juniper Bright introduced a robotic scrubber dryer at Newham Dockside, a large local authority building in East London, to explore how automation could improve cleaning standards and support the on-site team.

The site's large atrium spaces and high footfall made it well suited to trial a more efficient approach. The aim was to strengthen consistency and safety, while supporting staff rather than replacing them.



CASE STUDY

Newham Dockside

THE CHALLENGE

Atrium floors were cleaned using a traditional push along scrubber dryer, taking around two hours per area across three large atriums.

The process relied on operator availability and could be impacted by competing priorities. The machine's cables also created practical issues, including trip risks, equipment damage and additional set up time.

THE APPROACH

Working with RS Machinery, Juniper Bright introduced a PUDU CC1 robotic scrubber dryer on a structured trial.

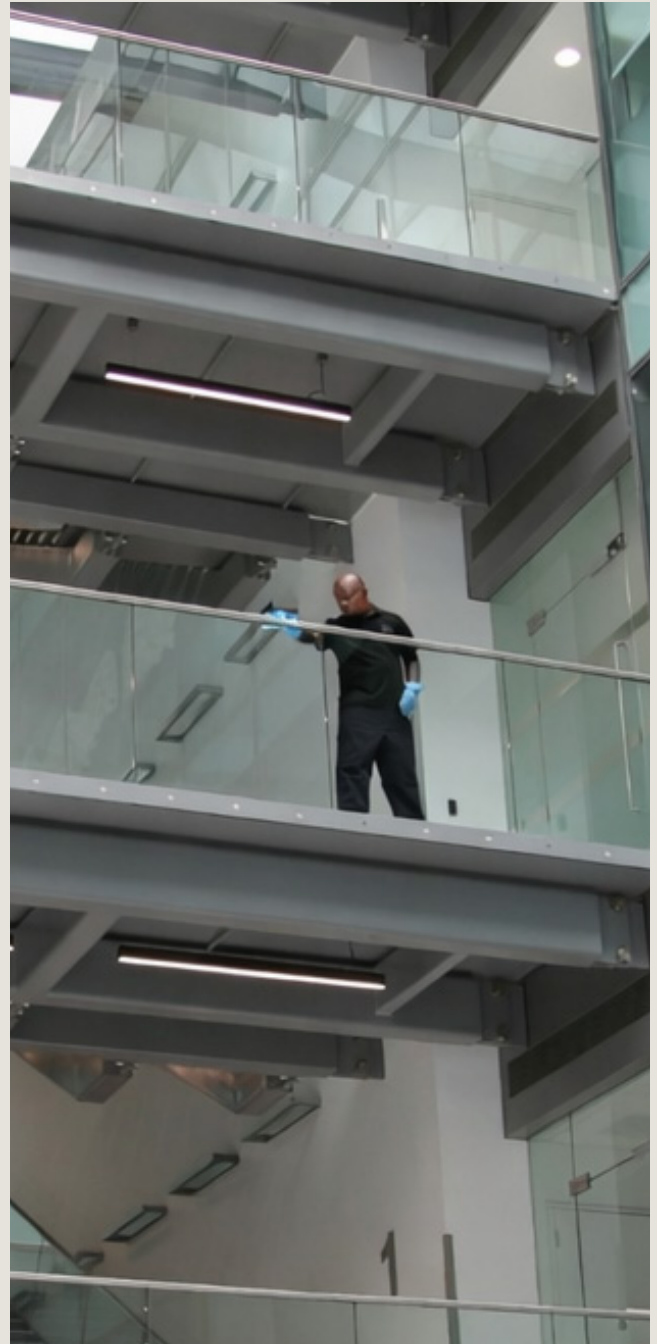
The machine was mapped to the space, with training provided to the on-site team.

When a flooring issue was identified in the central atrium, the programme was quickly adjusted with supplier support to ensure safe and effective use.

WHAT CHANGED

The robot took over the repetitive scrubbing of large atrium areas.

It could be set up by one operative and run independently, removing manual cleaning time and allowing the team to focus on higher priority tasks across the building.



“The introduction of the robotic scrubber dryer at Newham Dockside has been a positive step for the site. It has helped improve consistency across the large atrium areas, reduced some of the manual strain on the cleaning team, and allowed staff to focus more time on detailed tasks around the building. What has been important is that the technology has been introduced in a practical way, supporting the team rather than replacing the value of their work”

Suraya Ali - Assistant Director Building Services

CASE STUDY

Newham Dockside

THE IMPACT

Cleaning standards improved in consistency across suitable floor areas, with uniform coverage and reduced reliance on manual correction.

Removing cable-powered equipment reduced trip risks and eliminated a common cause of breakdowns. The machine also reduced physical strain on staff and supported a safer working environment.

Time savings allowed the team to focus on detailed and hygiene critical areas, while maintaining strong overall standards across the site.

The machine uses less water and chemicals than traditional manual methods. Compared with a standard 5 litre mop bucket, the robotic scrubber uses an estimated 2 to 3 litres less water per

clean through controlled dispensing and recovery technology, while accurate dosing reduces chemical overuse.

Based on two cleaning cycles per week, this equates to an estimated annual saving of more than 200 litres of water, alongside lower chemical use and reduced waste.



PEOPLE IMPACT

Initial concerns from staff centred on whether the technology would replace roles.

Through clear communication, the robot was positioned as a tool to support the team rather than replace it. Manual tasks such as edging and detailed cleaning remained essential.

Feedback quickly became positive:

“The trial showed that technology can support, rather than replace, a cleaning team. The robot improved consistency in large areas and allowed staff to focus on tasks that require judgement and attention.”
John - Cleaning Operations Manager



“It really does a good job; it is easy to use and gives you time to do other tasks”
Victor Frimpong - Cleaning Supervisor

KEY LEARNING

The trial highlighted the importance of assessing floor types early. The robot performed well on sealed surfaces, with adjustments needed for stone flooring.

CONCLUSION

The Dockside trial demonstrated how automation can be introduced in a practical and considered way to strengthen cleaning services.

By automating repetitive floor scrubbing, Juniper Bright improved consistency, reduced physical strain on staff and allowed teams to focus on tasks where human judgement matters most.

This reflects Juniper Bright's approach to innovation: **grounded in real operational needs, delivered responsibly, and always centred on people.**