

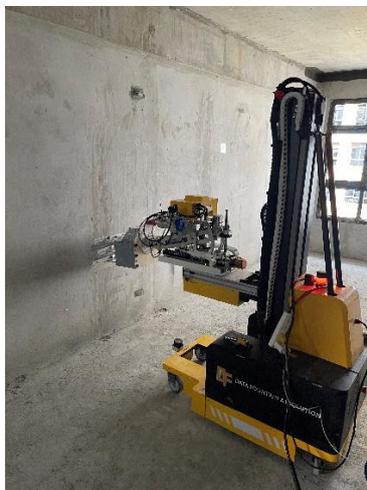
Trial of Architectural Finishing Robot at BTO Site

In response to HDB's call for proposals to enhance construction productivity in 2023, Teambuild Engineering and Construction Pte Ltd proposed to collaborate with HDB to trial construction robots at HDB construction sites.

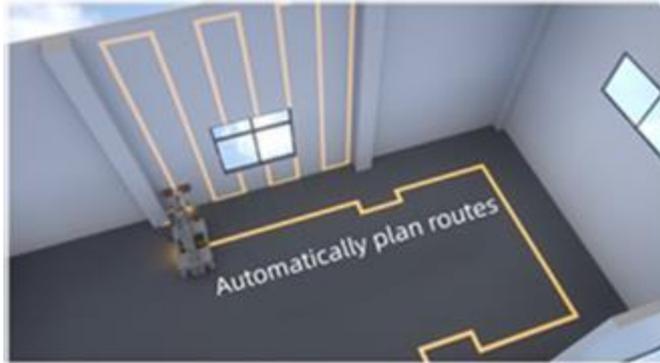
2 The Architectural Finishing Robot performs multiple functions— skimming, sanding, and painting. Sensors aid the robot's navigation when it is applying finishing works on interior surfaces (i.e. walls and ceilings), thereby enabling the robot to accomplish its tasks efficiently and effectively. Moreover, automation allows the robot to maintain consistency in the finishing works, which enhances the quality of our internal surfaces.

3 A 2-year trial for the robot started in August 2023 at a BTO project site in Yishun North and HDB has been working closely with Teambuild to assess the potential benefits of using this technology. Based on the trials, the use of this robot has helped to improve trade productivity by up to 30 per cent. This means that workers can produce more physical output per hour, resulting in increased efficiency, reduced labour cost and better resource and manpower utilisation.

4 Upon successful completion of the trial, the technology could be scaled up and deployed in other HDB projects.



The Architectural Finishing Robot at work. [Photo credit: Dafang Intelligent Technology Co.Ltd]



In-built sensors allow the robot to plan routes and to apply finishing works. [Photo credit: Teambuild]