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10Q Paint Robot



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De Challenge

Traditional human-centric coating techniques such as rolling and spraying have remained unchanged for more than a hundred years, which means that the quality and efficiency of the coating operations did not improve much through the years. This also means in major industries such as storage tanks, applying protective coatings can be very time-consuming, expensive, and unsafe for workers due to exposure to paint chemicals and working at dangerous heights.

Qlayers has developed an innovative robotic solution to overcome these coating drawbacks.

De Solution

Qlayers' 10Q robot is the industry's first automated coating crawler to apply top-quality anti-corrosion coatings on storage tanks with high speed, precision and no contaminating overspray. The 10Q robot consists of a magnetic crawler and a trailer. The crawler is equipped with a unique spray shielding system that allows coating in a consistent manner while preventing contaminating overspray from being released into the environment. The trailer is the smart link between the crawler and the operator. It includes the paint systems, a 2k pump and a control panel allowing the user to set painting parameters & monitor the process.



De Businesscase

Qlayers' patented spray shielding system allows a high-quality and efficient paint application, saving up to 20% of paint. Moreover, automating the process improves working conditions and reduces the need for access equipment such as scaffolding, saving costs and shortening asset downtime. Last, the high coating speed of up to 200 m²/h is multiple times faster than manual rolling, allowing completion of more projects with the same number of workers.

Since 2019, our robots have been deployed in over 20 coating projects and demos at tank terminals in the EU, ME, APAC and the USA. Case studies are available upon request.
