

10Q Robot

COATING STORAGE TANKS WITH A UNIQUE SOLUTION



What is 10Q?

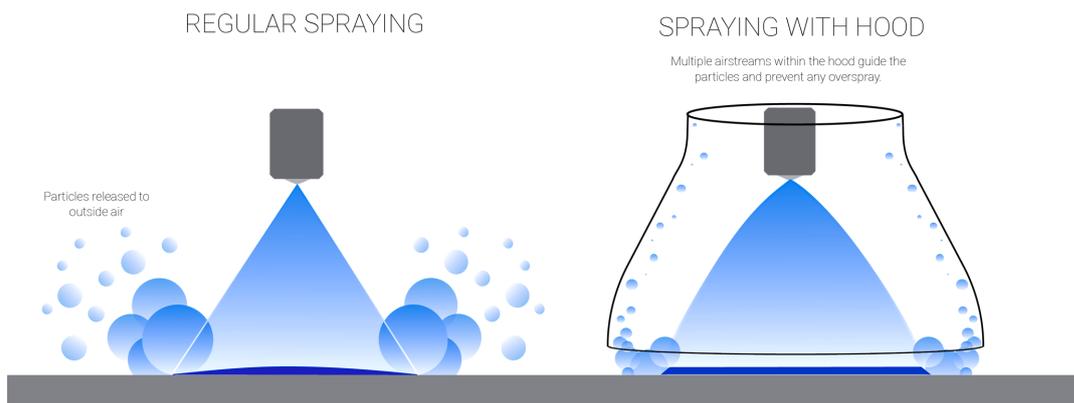
Meet industry's first automated paint robot able to coat storage tanks in a fast, safe, high quality and reliable way.

Qlayers put years of development into the latest 10Q robot which uses cutting-edge technology that transforms the traditional method of coating large-scale industrial surfaces into fully controlled, efficient, and safe process.

The robots are tested to operate in the most demanding environments. The controls are designed to be intuitive for operation by a crew not necessarily experienced to work with (semi-) automated equipment.

Technology

A unique feature of the 10Q crawler is the special hood that can coat storage tanks with less than 1% overspray when coating outside. The Qlayers hood works up to windforce 6bft. The way it works is shown here below.



Qlayers' solution enables clients to have full control over every aspect of the automated painting process. Layer thickness is reported for every position of the tank.

Advantages

Comparing to the current manual coating process, our patented technology offers the following advantages:



Up to 50% more paint efficient



Consistent automated performance
Automated quality control on every position of the tank



No overspray
All layer thicknesses are possible



Limited risks for people
Almost no people working at the heights



Accurate layer



Environmentally friendly process

qlayers

Applying coatings of the future

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General specifications

- **Coating Speed** 200m²/hour with 200µm epoxy
- **Crawler speed** 0 –0,3m/s
- **Coating Coverage tank** At least 50cm from obstacles
- **Control report** Layer thickness per position on tank
- **ATEX** Suction system
- **Hood** Less than 1% paint outside hood (clearance of hood is +-20mm, depending per case)
- **Layers & Paints** Min 50µm dry per layer - max 600µm dry per layer 2K protective coatings, mixing ratio from 1:1 to 1:10
- **Airless Nozzle** 2K pump →Paint Flow / Spray distance / Spray width / Overlap→ Depending on paint and layer thickness requirement of client
- **Environmental limitations** No rain, wind max 6 bft, min 5 degrees Celsius and max 40 degrees Celsius
- **Tank limitations** Max height of tank 30m. Minimum tank diameter 20m→Smaller diameters will be evaluated case by case. Needs to be space for equipment next to tank
- **Needed from client** Electricity, bracket for fall arresters and electrical winch, paint
- **Operators requirement** VCA and 10Q training
- **Maintenance** Daily and weekly maintenance to be done by coating contractor. Monthly and yearly maintenance to be done by Qlayers



Delivery

The whole system together is delivered within the container (20ft, PSG-15 requirements) to the customer, including:

- 10Q Crawler on its dolly
- Cart
- Compressor
- Air hoses (length per client request)
- Suspension system
- Paint storage
- Accessories
- Safety equipments
- Paint Hoses (length per client request, stored on reels)
- Air operated 2k pump + Flushing pump + Communication cabinet

