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
- No overspray
- Automated quality control on every position of the tank
- All layer thicknesses are possible
- Limited risks for people
- Accurate layer
- Almost no people working at the heights
- Environmentally friendly process
General specifications

- **Coating Speed**: 200m²/hour for 6 hours in a shift of 8 hours
- **Crawler speed**: 0 – 0.35m/s
- **Coating Coverage tank**: 80%. At least 50cm from obstacles
- **Control report**: Layer thickness per position on tank
- **ATEX**: No ATEX - only suction system will be EX certified
- **Hood**: 0% paint outside hood. Hood very close to surface (+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 3 bft, min 5 degrees and max 40 degrees
- **Tank limitations**: Max height 30m. Minimum tank diameter 20m → Larger heights and smaller diameters will be evaluated case by case. Needs to be space for equipment next to tank
- **Needed from client**: 380V / 40kW, Bracket for fall arresters and electrical winch, Paint
- **Maintenance**: Daily and weekly maintenance to be done by coating contractor, monthly and yearly maintenance to be done by Qlayers

Delivery

The whole 10Q system is delivered within one customized 20ft PSG15 container to the project location and includes:

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