



For handling material in an inflammable environment at a leading paint and coatings factory, no lift truck was suitable except the Yale® Electric Flameproof Stacker.

About the Paint Industry

Paint is formed of various pigments, solvents, resins, and additives. The typical solvents used in the process are volatile liquids. This includes mineral spirits and aromatic solvents such as alcohols, esters, benzol, ketones, and acetone which are inflammable in nature. Also, commonly used resins (e.g. linseed, coconut and soybean oils, acrylics, epoxies, polyurethanes, etc.) can also easily catch fire. All these elements make paints highly inflammable and require special care during manufacturing, storage and handling.

After manufacturing and packing, the paint drums are stored in a warehouse and therefore require a reliable flameproof equipment for storage and retrieval of drums.

A leading paint company required advanced lift truck solutions that would be safe to operate in explosion-prone areas and would have telemetry features.

A leading paint company was setting up its factory to manufacture speciality paints for marine vessels. They were in search of an appropriate lift truck solution that could effectively operate in a hazardous environment and a lift truck with telemetry to manage its operations in an open yard.



Challenges

The new plant will be manufacturing paints required for specialised applications. These paints and their raw materials are inflammable and the work environment in such plants is classified as Zone-1. Keeping in mind these aspects, the new plant is designed with the help of world renowned consultants to ensure the highest level of safety.

After manufacturing and packing, the paint drums will be stored in a warehouse. During handling, accidental leakages can easily catch fire and hence it is essential to use flameproof equipment even for the storage and retrieval of drums.

Another requirement was for suitable equipment for handling material in the open yard of the warehouse, particularly for transporting and loading drums in the containers. Considering the vastness of an open yard, for this particular equipment, the company was expecting a telemetry solution for effectively managing its operations.



Solutions

ElectroMech, in association with Hyster-Yale® offers a wide range of forklifts and lift trucks. The range comprises of solutions to meet the requirements of practically every industrial sector. When the consulting firm for this project approached us for suitable handling equipment, we had ready answers and recommended two types of solutions.

Yale® Flameproof Electric Stacker

The first requirement of flameproof equipment could be best addressed through the Yale® Flameproof Electric Stacker model MS15X that is designed to operate safely in the hazardous area classified as Zone-1. It is particularly suitable for storage and retrieval of material from the storage racks and allows the use of the complete available height. The sleek design of our stacker crane displays great manoeuvrability even in narrow aisles thus saving valuable floor space. We have supplied 3 nos. of Yale® Flameproof Electric Stackers, each having 1500kg load capacity and 3.5m height of lift.

Diesel Forklift with Yale Vision – Lift truck telemetry

For the open yard, we recommended using our Diesel Forklift with Yale Vision. Yale Vision is a Wireless Asset Management tool that provides effective control and ease of monitoring in order to reduce operational costs as well as optimise productivity. With GPS connectivity, it provides fleet data for tracking the status of all forklifts and monitoring individual operator performance. The various features of Yale Vision include:

- **Wireless Monitoring** – A key performance indicator that monitors utilisation, impacts, fault codes, maintenance/breakdown schedules and tracks the truck location at site
- **Wireless Access** – Adds a proximity card reader to the system, increasing the level of safety at site by preventing unauthorised operations by untrained operators and automatic shutdown of the equipment when not in use
- **Wireless Verification** – Enables the operator to perform/complete mandatory OSHA checklists before truck operation

The forklift also includes additional accessories such as **Blue Spotlight** (forward and reverse), **Spark Arrestor** and **Reverse Alarm Sensor** (volume of alarm increases as it nears the obstacle).

For after-sales service, all ElectroMech Yale equipment are supported by our expert team at Cranedge, a subsidiary of ElectroMech, and a service specialist for material handling equipment of various makes.

Benefits

The consultant and the customer have both appreciated the solutions suggested by us. While placing the order, ElectroMech Yale was the preferred partner as compared to others including a company that had earlier supplied them several conventional forklifts. A few of the benefits experienced include:

- Assurance of a high level of safety in the warehouse due to our proven model of Yale® Flameproof Electric Stacker.
- High storage density with the use of the Electric Stacker which requires narrow aisle space and can reach up to 3.5m height.
- Complete control on forklift with Yale Vision and additional accessories to ensure safe operation.
- Enhanced productivity with real-time control on operations and timely alerts on maintenance with the help of Yale Vision.
- Yale Vision also helps in managing operations cost-effectively.



ElectroMech Yale offers a range of forklifts and lift truck solutions to effectively meet the challenging requirements of warehouses and various other industries. To know more, get in touch with us today.



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