



Replacing diesel lift trucks with Yale® BOPTs and Electric Stackers helps a leading construction equipment manufacturer to reduce indoor air pollution.

About construction equipment companies

Companies which are into manufacturing of earth moving & construction equipment have massive plants spread over thousands of square meters. These plants have several long manufacturing bays, a large number of workstations and also large inventory of parts. Frequent movement of material throughout the factory is inevitable for feeding components to each workstation and transferring semi-assembled parts from

one workstation to another. In a large manufacturing plant, maintaining indoor air quality (IAQ) is challenging due to its vast expanse. At the same time, maintaining IAQ is important to ensure good health and safety of workers and to maintain their efficiency levels. With this view, companies are making every effort to adopt non-polluting and enviro-friendly processes, machinery and equipment in their plants.

To address the challenge of maintaining good indoor air quality, a globally leading construction equipment manufacturing company wanted a solution to replace their fleet of diesel operated lift trucks.

A global company manufacturing construction equipment was using diesel operated lift trucks for material handling in its manufacturing plant. Not only were they facing the problems of air and noise pollution, but the trucks were also not comfortable to use. The company was in search of a better alternative to overcome these issues and hence approached ElectroMech Yale for a pertinent solution.



Challenges

As the customer was using diesel lift trucks for the past several years, the deployment of the fleet was perfectly synchronised and properly scheduled. The operators were trained and were habituated to material movement cycles during the day. This ensured smooth material flow and availability of parts and components to each workstation, just in time.

When the customer approached us with the requirement, they wanted us to address three major challenges while suggesting the right solution.

- The suggested equipment had to be electrically / battery operated
- Downtime had to be minimum during battery change and maintenance
- Appropriate equipment was to be allocated in each area only after a time and motion study of the shop-floor material movement

Further, the recommendations had to be backed by extensive trials using the same type of equipment.



Solution

ElectroMech Yale was confident of meeting the requirement through its BOPTs and Electric Stackers but a thorough study was conducted to determine the exact numbers and appropriate deployment. Our team suggested using total 18 nos. of equipment consisting of 8 nos. of BOPTs and 5 nos. of Electric Stackers for the manufacturing plant, and 1 no. of BOPT and 4 nos. of Electric Stackers for the assembly plant. As a 'proof of concept', thorough trials were conducted before delivering the entire fleet.

Features

Battery Operated Pallet Truck (2t, Ride On) model MP20XUX:

Advanced AC control system eliminates motor brushes and limits maintenance requirements. Low skirting on the main chassis, all pivot points have grease fittings and serviceable brushing which reduce component wear and tear. Formed heavy gauge steel provides maximum fork strength and longevity.

Electric Stacker (1.5t, Ride On) model MS15 - 5.6m and 4.5m Height of Lift:

Maintenance-free AC motor, cushioned ergonomic platform, emergency power disconnect switch, emergency reversing button, low speed switch, variable speed control, simple electronic components make troubleshooting and servicing more efficient. Hall effect sensors reduce wear and tear and increase component life.

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.

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Customer speak

We are impressed with the approach of the ElectroMech Yale team while recommending the optimal solution for our requirement. They have invested lot of time and efforts to ensure suitability of the recommended equipment by conducting extensive trials. We are happy with the performance of the new equipment.

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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.

Benefits

The new BOPTs and Electric Stackers have completely eliminated the problem of pollution caused due to diesel fumes and considerably reduced noise levels. Besides this, there are several other benefits like –

- **Improved indoor air quality (IAQ):** There is a significant improvement in indoor air quality, resulting in improved productivity and reduced health hazard to the workforce.
- **Lower maintenance:** Electrically operated equipment has lower number of moving parts compared to diesel vehicles. Besides, Yale® equipment has longer service intervals, minimising maintenance requirements.
- **Lower downtime:** Lesser maintenance and quick battery change mean high uptime compared to diesel operated trucks of other makes.
- **Perfectly synchronised material movement cycles:** A methodical and well-studied approach has evolved into perfect cycle planning and streamlined operations.
- **Higher safety:** Electrically operated vehicles are safe to operate. Moreover, Yale® equipment offers great stability even while carrying loads at a height or on turns/bends.
- **Operator comfort:** Yale® equipment has an ergonomic design meaning great comfort to the operator which reflects into higher efficiency even at the end of the shift.



Case Study 111/ Construction Equipment - 021220 / KaleidoscopeB2B.com



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