What if your materials handling operation could achieve higher operational productivity, eliminate cumbersome battery charging infrastructure and deliver consistently high performance? It may be possible with lift trucks powered by hydrogen fuel cells.

There are four major benefits to adopting hydrogen-fueled lift trucks:

**INCREASED UPTIME**
Currently, most electric lift trucks use lead-acid batteries. Once the battery charge expires, the battery must be removed and taken to a charging room, and a freshly charged battery must be installed. This equates to 20 minutes of lost productivity every four to eight hours.

Hydrogen fuel cells can be rapidly refueled in as quickly as three minutes—similar to an internal combustion powered lift truck. In multi-shift operations with two or more battery replacements per day, the quick-refueling fuel cells save time and increase operator efficiency. Furthermore, since lift truck operators can refuel hydrogen themselves, operations can keep business moving and make more efficient use of labor resources.

**SMALLER FOOTPRINT**
Hydrogen equipment consists of an indoor hydrogen fuel dispenser and indoor or outdoor hydrogen storage in the form of a trailer delivered by a hydrogen provider or an on-site hydrogen generator. This eliminates the significant floor space required for battery charging and storage. The existing space can be used for more productive purposes to further grow throughput capacity and productivity. This is especially beneficial for operations located close to urban centers with higher real-estate costs, helping them to avoid investing in an expansion or a larger facility.

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A fuel cell is an energy conversion device used to capture and use the power of hydrogen. It produces electricity from hydrogen and oxygen, with water vapor and heat as the only byproducts. Since these byproducts don’t produce any emissions or pollutants, hydrogen fuel cells serve as an ideal choice for warehouse, manufacturing, retail and food applications. A steady, cost-effective supply of hydrogen is critical to the success of any hydrogen dependent operation and is an important requirement for any decision maker considering the implementation of hydrogen fuel cell-powered lift trucks. Hydrogen delivery and on-site hydrogen production are two of the major methods used in today’s market.