

Today's Electric Material Equipment has:

- Increased travel speeds and acceleration rates that rival internal combustion engine forklifts
- Increased ramp speed and gradeability due to the addition of AC motors and high voltage drive systems
- Pneumatic tire design for outdoor operation
- Rustproof designs for operation in temperature controlled and marine environments
- Sealed, spark-proof and explosion-proof designs for operation in combustible environments

Fast Charging Systems

New, fast charging systems are allowing users of electric material-handling vehicles to become even more efficient. Operators are no longer required to change batteries. Batteries can be rapidly charged during breaks and shift changes, so there's no downtime of equipment

or staff. You need only one battery per piece of equipment, so there's no need for a battery charging room, which saves space, time and money. And it improves safety due to the elimination of battery changes and reduced traffic across the work area. Fast charging systems also allow you to use electric vehicles during multiple shift operations, which increases truck availability and productivity.

Improved Environment

Electric material-handling vehicles are environmentally friendly. They produce no exhaust emissions, so there are no noxious fumes to worry about. This improves the air quality for employees and customers at your facility. And there's no possibility of damage to your work product from engine exhaust, which can occur when using internal combustion vehicles.

Because they have fewer moving parts and no engine or exhaust noise, electric vehicles produce 1/4 of the noise level that internal combustion vehicles do. The lower noise and vibration levels help reduce operator fatigue, and improve productivity and safety.

To learn more about how electric material-handling vehicles can benefit your operations, contact your Alabama Power account manager or call our Business Call Center at **1-888-430-5787**.

All equipment is sold by independent dealers not affiliated with Alabama Power. Alabama Power neither manufactures nor sells the equipment, and does not make any representation or warranty regarding the equipment. Alabama Power will not be liable for any costs or damages related to the selection, purchase, ownership, operations and maintenance of the equipment.



Material Handling

Electric Lift Truck



Always on.™



Always on.™

Electric material-handling equipment

is used in almost every industry to transfer cargo, stock and pallets. Whether in retail, manufacturing or warehousing, these simple-to-operate vehicles are quiet, clean and efficient. But not only are they environmentally and ergonomically friendly, they also can save you thousands of dollars annually per vehicle when compared to gas, propane or diesel alternatives.

Cost Savings

Electric material-handling equipment has overall lower life-cycle costs than internal combustion engine vehicles, which can **save you \$1 or more per hour** for each piece of equipment - that's \$2,000 to \$6,000 annually per vehicle. These cost savings come from:

- 40% lower maintenance costs
 - fewer moving parts to fix or replace
 - reduced number of seals, hoses and fluids to maintain
 - no engine maintenance issues
- 70-80% lower fuel costs
- Approximately 30% longer service life
- Less downtime, which increases productivity



Life-cycle Cost Analysis for Electric Material-Handling Vehicles¹

	Internal Combustion			
	Electric	Propane (LPG)	Gasoline	Diesel
Life Expectancy	9 years	6.5 years	6.5 years	7 years
Initial Cost ² (mfg. suggested list price)	\$29,739 ³	\$21,200	\$20,107	\$22,263
Annual Fuel Cost ²	\$585	\$2,917	\$3,463	\$2,115
Annual Maintenance Cost ²	\$1,655	\$2,800	\$2,800	\$2,800
Total Life Cost	\$49,512	\$58,364	\$60,814	\$56,671
Annual Average Cost	\$5,750	\$8,979	\$9,357	\$8,096

¹ Analysis based on 4,000 lb. load capacity forklift truck. Data from Battery-Powered Industrial Truck, Lead Industries Association.

² National averaged values are used for fuel, maintenance, labor and capital costs.

³ Includes battery and charging equipment.

Performance

Using state-of-the-art technology, electric material-handling vehicles can manage large loads and outdoor work environments with increasingly steeper grades. Electronic controls allow inching and precise placement of loads for increased efficiency and safety. Some of the performance benefits of these electric vehicles include:

- Easy-to-use electronic controls that are simple to learn and reduce operator fatigue
- Smooth handling, which helps with delicate loads and safety issues

- Improved space utilization and performance in tight spaces

In the past, some business owners had concerns about using electric material-handling vehicles because they believed the vehicles were not able to lift heavy loads or work on steeper grades. They also worried about the space, time and money needed for changing batteries. Recent improvements in the performance of electric material-handling vehicles are making these concerns obsolete.