

30 min
1C Rate Fast Charge

— SUPER MODEL —
LITHIUM FORKLIFT



ALAMTO



CATL

ALAMTO FB30 Super Fast Electric Forklift

The ALAMTO FB30 Super Fast is a 3-ton industrial electric forklift engineered for demanding operations and continuous-duty applications. Equipped with a CATL lithium battery (309V / 96Ah), powerful 30kW motors, a Full AC Controller system, a travel speed of up to 20 km/h, and ultra-fast charging in approximately 30 minutes, the FB30 delivers fast, stable, and highly efficient performance.

Its Lithium Iron Phosphate (LFP) battery technology significantly reduces energy consumption, minimizes maintenance costs, and enables reliable operation in temperatures ranging from -30°C to +60°C. The result is lower operating costs, reduced downtime, and faster return on investment compared to conventional diesel forklifts.



Significantly Lower Energy Costs

The ALAMTO FB30 electric forklift features a CATL lithium battery rated at 309V / 96Ah (approximately 30 kWh) combined with a high-efficiency Full AC drive system and electric motors. This configuration delivers exceptionally low energy consumption.

Under real operating conditions in the UAE, the electricity cost of operating the FB30 is approximately AED 1.6 per hour, while a typical 3-ton diesel forklift consumes around AED 14 per hour in fuel alone. This difference represents approximately 88% lower energy costs per operating hour. On an operational scale, this translates into annual savings of roughly AED 27,000 per unit, excluding additional savings from reduced servicing, oil changes, and consumable parts replacement.

With its 30kW traction and lift motors, 20 km/h travel speed, instant torque delivery, and true 3-ton lifting capacity, the FB30 delivers performance equal to — or even more consistent than — diesel alternatives, while operating at a substantially lower cost.

Elimination of Fuel Costs and Diesel Dependency

The ALAMTO FB30 electric forklift, powered by a CATL Lithium Iron Phosphate battery (309V / 96Ah), completely eliminates dependency on diesel fuel. This means the removal of both direct and indirect costs associated with fuel purchasing, storage, transportation, and on-site fuel handling in industrial facilities, warehouses, and logistics operations.

Unlike diesel forklifts, whose fuel costs are directly affected by market fluctuations, the FB30 operates entirely on electricity — a far more stable, predictable, and cost-effective energy source in the UAE. This allows fleet managers to forecast monthly and annual operating expenses with greater accuracy and without concern over sudden fuel price increases.



Operationally, eliminating fuel also removes several associated risks and inefficiencies:

- ✓ No on-site fuel storage requirements
- ✓ Reduced fire and environmental risks
- ✓ Elimination of fueling-related downtime

The CATL LFP battery offers excellent thermal stability and fast charging capability (approximately 30 minutes), enabling continuous and safe operation even under harsh UAE working conditions, without dependence on fuel logistics.

Significantly Reduced Maintenance Compared to Diesel Forklifts

The ALAMTO FB30 Super Fast uses a Full AC electronic control system and two powerful 30kW permanent magnet motors — one for traction and one for lifting. This fully electric design eliminates many of the high-maintenance components commonly found in diesel forklifts, including:

- ✓ Internal combustion engine
- ✓ Engine oil and filters
- ✓ Injectors, turbochargers, belts, and exhaust systems



As a result, routine maintenance becomes substantially simpler. Regular service is largely limited to battery inspection, brake checks, and hydraulic fluid monitoring. Frequent oil changes and fuel system repairs are completely eliminated.

Economically, this leads to major reductions in:

- ✓ Spare parts and consumable costs
- ✓ Equipment downtime during servicing
- ✓ Dependence on specialized diesel technicians

The CATL Lithium Iron Phosphate (LFP) battery is also virtually maintenance-free, offers extended service life, and maintains stable performance even at temperatures exceeding 60°C — a critical advantage for UAE operating environments.

Reliable Performance in Extreme Heat

The ALAMTO FB30 is equipped with a CATL Lithium Iron Phosphate (LFP) battery rated at 309V / 96Ah. Due to its superior thermal stability, LFP technology is considered one of the most reliable lithium battery solutions for industrial equipment.

Compared to many conventional lithium batteries and lead-acid systems, LFP chemistry offers significantly higher resistance to elevated temperatures and delivers more stable performance in hot environments.

In climates such as the UAE, where ambient temperatures remain extremely high for much of the year, this becomes a critical operational advantage. The LFP battery maintains consistent charging and discharging performance with minimal efficiency loss and lower thermal risk, even in demanding environments.

Combined with the Full AC Controller system and 30kW electric motors, the FB30's powertrain operates under reduced thermal stress, allowing the forklift to deliver smooth and dependable performance during intensive operations.

The result is reduced heat-related failure risk, improved operational safety, and reliable productivity in hot industrial environments — particularly important for companies operating in ports, logistics yards, and outdoor warehouse facilities across the UAE.



Higher Uptime with Fast Charging Technology

The ALAMTO FB30 Super Fast features a 1C fast-charging system for its CATL Lithium Iron Phosphate battery (309V / 96Ah). This technology enables charging in approximately 30 minutes, providing up to 7 hours of operational runtime.

This capability gives warehouses, ports, and logistics centers significantly greater operational flexibility. Operators can perform opportunity charging during short breaks or between shifts and quickly return the forklift to operation without long interruptions.

Although diesel refueling may appear fast, internal combustion forklifts are inherently more vulnerable to mechanical failures, scheduled servicing, and repair-related downtime due to their mechanical complexity. Over time, this results in increased real-world downtime.

In contrast, the FB30's fully electric architecture — including dual 30kW electric motors, a Full AC Controller, and simplified mechanical systems — dramatically reduces maintenance requirements. Combined with 30-minute fast charging, this allows the forklift to spend more time operating and less time out of service.

Operational benefits include:

- ✓ Higher equipment availability
- ✓ Reduced unexpected downtime
- ✓ Improved productivity in high-demand environments such as logistics warehouses and port terminals



Higher Productivity During Every Shift

The ALAMTO FB30 is equipped with two powerful 30kW electric motors — one dedicated to traction and the other to lifting operations. This fully electric design delivers instant torque, meaning maximum torque is available immediately from startup.

Unlike diesel engines, which require increasing RPM to reach peak performance, the electric drivetrain provides immediate response and smooth acceleration from the first movement.

In practical warehouse operations, this results in:

- ✓ Faster acceleration under load
- ✓ More precise pallet handling
- ✓ Smoother vehicle movement



In high-cycle loading and unloading operations, this rapid motor response significantly improves workflow efficiency and cycle times.

Additionally, the Full AC Controller system provides operators with more precise control over travel and lifting functions. Smooth and predictable operation reduces operator fatigue and improves handling accuracy especially during long shifts where productivity and comfort are critical.

Ideal for Indoor Warehouses and Outdoor Operations



One of the most important advantages of the ALAMTO FB30 over diesel forklifts is its zero-emission operation.

Because it does not use an internal combustion engine, the FB30 produces no exhaust gases, particulate emissions, or fuel odors during operation. This makes it particularly suitable for:

- ✓ Indoor warehouses
- ✓ Logistics centers
- ✓ Food and beverage facilities
- ✓ Pharmaceutical industries
- ✓ Modern retail distribution operations

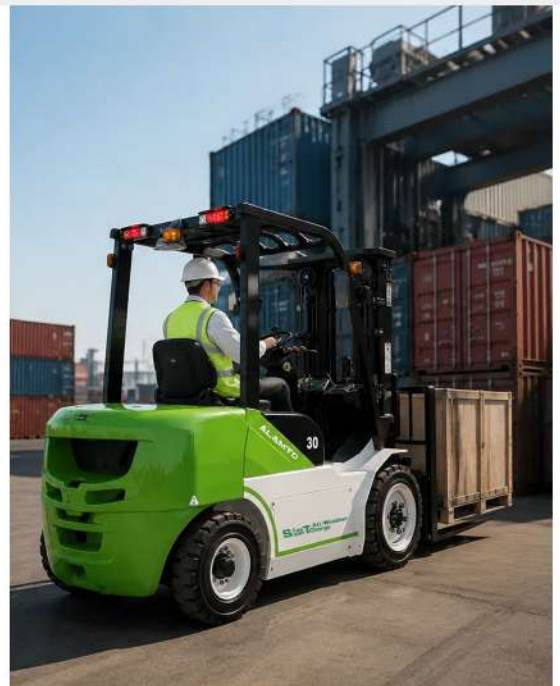
In many such environments, diesel forklifts require expensive ventilation systems to manage exhaust fumes, heat, and air contamination. The FB30 eliminates these issues while also generating significantly less heat than diesel-powered equipment, creating a safer and more comfortable working environment.

However, the FB30 is not limited to indoor applications. With its true 3-ton lifting capacity, 20 km/h travel speed, pneumatic tires, and robust industrial structure, it is equally capable in outdoor operations.

Its CATL Lithium Iron Phosphate battery and operating temperature range of -30°C to +60°C ensure reliable performance in harsh weather conditions, industrial yards, logistics sites, loading areas, and port environments.

The FB30 effectively combines:

- ✓ The cleanliness and safety of an electric forklift for modern warehouses
- ✓ The power and operational capability traditionally associated with diesel forklifts for outdoor use



This makes the FB30 a highly versatile solution for companies operating across both indoor and outdoor environments.

Lower Noise Levels and Improved Human Productivity

Electric forklifts naturally operate much more quietly than diesel models because they do not use internal combustion engines, exhaust systems, or related mechanical vibration systems.

In the FB30, most operational noise comes only from wheel movement and the hydraulic system, which is substantially quieter than a diesel engine.

A quieter work environment improves operator concentration during load handling and vehicle movement, reducing the likelihood of human error while enhancing both safety and productivity.

Lower noise levels also make the FB30 an ideal solution for:

- ✓ Night-shift operations
- ✓ Warehouses near residential or urban areas
- ✓ City-based logistics facilities with noise restrictions





Fully Competitive Performance with Diesel Forklifts

From an operational performance perspective, the FB30 competes directly with 3-ton diesel forklifts. Key specifications include:

- ✓ Rated load capacity: 3,000 kg
- ✓ Travel speed: up to 20 km/h
- ✓ Turning radius: approximately 2,460 mm
- ✓ Standard lift height: 3,000 mm

These specifications demonstrate that the electric drivetrain imposes no compromise on operational capability. The FB30 is fully capable of performing the same demanding tasks expected from a conventional 3-ton diesel forklift — from handling heavy pallets to industrial loading operations.

For this reason, many companies are gradually replacing diesel forklifts with electric models, achieving lower operating costs without sacrificing operational performance.

Lower Total Cost of Ownership (TCO)

Evaluating a forklift solely based on its initial purchase price does not provide an accurate picture of its real long-term cost. In industrial fleet management, the more important metric is Total Cost of Ownership (TCO) — including energy, maintenance, repairs, and downtime throughout the equipment lifecycle.

Several factors enable the FB30 to significantly reduce TCO:

- ✓ Much lower energy costs compared to diesel fuel
- ✓ Elimination of many consumable engine components such as engine oil, filters, and fuel system parts
- ✓ Reduced mechanical failures due to simplified electric architecture
- ✓ Long lifespan and minimal maintenance requirements of the CATL LFP battery



Together, these advantages substantially reduce annual operating expenses. In many real-world applications, the savings in energy and maintenance costs are significant enough that the electric forklift becomes more economical than a diesel model within approximately 2 to 3 years of operation.

Technical Specification

Characteristic				
1.01	Model		FB30(P-series)	FB35(P-series)
1.02	Power Type		CATL Lithium Battery	CATL Lithium Battery
1.03	Rated Capacity	kg	3000	3500
1.04	Load Centre	mm	500	500
1.05	Service weight	kg	4520	4800
Tyre & Chassis				
2.01	Tyre Type (Front/Rear)		Pneumatic	Pneumatic
2.02	Wheel number X = drive wheel (Front/Rear)		2X/2	2X/2
2.03	Tyre Size (Front)		28X9-15-14PR	28X9-15-14PR
2.04	Tyre Size (Rear)		6.50-10-10PR	6.50-10-10PR
2.05	Front Tread	mm	1000	1000
2.06	Rear Tread	mm	970	970
2.07	Wheelbase	mm	1700	1700
Size				
3.01	Fork Size (L x W x T)	mm	1070x125x45	1070x125x50
3.02	Mast Tilt Angle (F/R)	deg	6/12	6/12
3.03	Lift Height	mm	3000	3000
3.04	Mast Lowered Height	mm	2115	2150
3.05	Mast Extended Height	mm	4180	4180
3.06	Length to Face of Fork	mm	2741	2796
3.07	Overall Width	mm	1230	1230
3.08	Distance From Roof to Seat	mm	1020	1020
3.09	Front Overhang	mm	481	506
3.10	Rear Overhang	mm	575	610
3.11	Turning Radius (outside)	mm	2460	2495
3.12	Ground Clearance	mm	140	140
Performance				
4.01	Max.Travel Speed (Full load/No load)	km/h	20/20	20/20
4.02	Lifting Speed (Full load/No load)	mm/s	520/530	430/440
4.03	Lowering Speed (Full load/No load)	mm/s	≤600 / ≥300	≤600 / ≥300
4.04	Max.Gradeability (Full load)	%	20	20
Power & Transmissions				
5.01	Battery(Type)		Lithium Iron Phosphate	Lithium Iron Phosphate
5.02	Battery(Voltage/Capacity)	V/Ah	309.12/96	309.12/96
5.03	Traction Motor Power, S2-60min	Kw	30	30
5.04	Lifting Motor Power, S3-15%	Kw	30	30
5.05	Controller		Full AC	Full AC
5.06	Operating Pressure	Mpa	18	18
5.07	Hydraulic Oil Tank Capacity	L	49	49



Address: SSC Terminal Street S1503, South 6 Jebel Ali
Free Zone (JAFZA) Dubai, United Arab Emirates

P O Box: 64027

Tel: (+971) 52 745 4928

Email: support@carter.ae

Website: www.carter.ae