

TCMC



FBM25-35LHUQ

LITHIUM-ION ELECTRIC
COUNTERBALANCED
PNEUMATIC TYRE

2.5-3.5 Tons

FBM25-35LHUQ

Introducing the FBM25-35LHUQ, an economical electric forklift trucks that merges elements from both conventional Internal Combustion forklift trucks and Lithium-Ion Powered electric forklift trucks. It prides itself on providing a roomy driving area and facilitating a comfortable working experience. As a standard feature, it incorporates a Lithium-Iron Phosphate (LFP) battery that ensures efficient rapid charging.

This forklift trucks is equipped with a standard full AC control system and supports REMA/Anderson charging connections. Moreover, it offers the flexibility of opting for advanced automotive-style intelligent plug-in high-frequency charging technology.



- ✓ Ample space for operators and guarantees operator comfort.
- ✓ Mast system, front and rear axles, and chassis durability are comparable to those of traditional Internal Combustion forklift trucks.
- ✓ IPX4 rating and substantial ground clearance for versatile applications.
- ✓ Combination of Internal Combustion durability and Li-Ion electric forklift layout advantages results in a lighter weight and an optimised centre of gravity.

Exceptional Design and Stellar Performance

Our forklift trucks stands out with its intelligently designed LED display, offering a spacious and highly visible large screen. This display simplifies the forklift's operation and control, offering a comprehensive view of the truck's status from every angle.

Additionally, the lifting motor is strategically placed at an elevated position. This setup enables the forklift trucks to excel in environments where water or liquid is a concern on the ground, ensuring both top-notch performance and safety.

Effortless Control, Superb Visibility

- ✓ **Intuitive Operation:** The truck is designed for effortless operation, featuring a user-friendly long tiller with a reliable ratchet parking brake.
- ✓ **Enhanced Safety:** With its ratchet-type parking brake, the truck can securely hold its position on slopes with gradients of up to 15%, delivering peace of mind when it comes to safety.
- ✓ **Customised Comfort:** Operators have the freedom to adjust their driving position for optimum comfort, thanks to the conveniently located combination switch near the seat.
- ✓ **Effortless Manoeuvrability:** The U-shaped steering wheel design, coupled with a strategically placed multiway valve at the front of the truck, ensures a smooth and comfortable operation, reducing operator fatigue.



Insights into Our Lithium-Ion Battery

- ✓ Our Li-Ion battery is distinguished by its exceptional performance and convenience, showcasing the following features:
- ✓ **Accelerated Charging:** Achieve a complete charge in a mere 2-3 hours, which significantly minimises any potential downtime.
- ✓ **Advanced Charging Technology:** The intelligent high-frequency charger incorporates state-of-the-art automotive charging technology, resulting in an impressive operational efficiency of over 95%. This level of efficiency outpaces the 80% efficiency typically achieved by conventional low-frequency chargers.
- ✓ **Optional Upgrade:** Furthermore, we offer an optional enhancement in the form of an automotive-type intelligent plug-in charging gun equipped with high-frequency charging technology, further enhancing the overall charging convenience.



Efficient Charging Solution

The Li-Ion battery's impressive rapid-charging capability positions it as the optimal choice for multi-shift operations. In contrast to traditional lead-acid batteries, there is no need to switch batteries during shifts or arrange backup batteries and designated charging areas for Li-Ion-powered trucks. Fast charging allows for battery changes during regular operational intervals, greatly extending the truck's working hours.

Additionally, lithium batteries do not retain any memory of charging cycles, ensuring that their battery lifespan remains unaffected. This feature eliminates the requirement to confine the lithium charger to a specific location, courtesy of the eco-friendly nature of lithium batteries, which grants essential operational flexibility.

Environmentally Conscious Choice

Lithium batteries are a mindful choice for the environment, offering several compelling benefits:

- ✓ **Clean Charging:** Charging lithium batteries generates no acid evaporation, unpleasant odours, or harmful pollution, promoting a cleaner and safer charging process.
- ✓ **Silent and Emission-Free Operation:** Li-Ion powered trucks operate quietly and produce zero carbon dioxide emissions, making them exceptionally well-suited for industries with environmental concerns, such as food processing, chemical production, and pharmaceutical sectors.
- ✓ **Minimal Battery Requirements:** Each lithium truck only requires a single battery, thanks to its rapid charging capabilities, regardless of the number of work shifts.
- ✓ **Extended Lifespan:** Lithium batteries boast a lifespan three times longer than that of lead-acid batteries, making a substantial contribution to sustainability and cost-effectiveness.
- ✓ **Low Maintenance:** The maintenance-free characteristic of lithium batteries translates to significantly enhanced cost performance when compared to lead-acid alternatives.



FBM25-35LHUQ

SPECIFICATIONS

Identification					
1.1	Model		FBM25LHUQ	FBM30LHUQ	FBM35LHUQ
1.2	Drive: Electric (battery or mains), diesel, petrol gas, manual)		Electric	Electric	Electric
1.3	Type of operation (hand, pedestrian, standing, seated, order-picker)		Seated	Seated	Seated
1.4	Load capacity/rated load	Q(kg)	2500	3000	3500
1.5	Load centre distance	C(mm)	500	500	500
1.6	Load distance, centre of drive axle to fork	x(mm)	478	488	488
1.7	Wheelbase	y(mm)	1620	1800	1800
Weights					
2.1	Service weight incl. battery (see line 6.5)	kg	3800	4300	4640
2.2	Axle loading, laden front/rear	kg	5660/640	6540/760	7230/910
2.3	Axle loading, unladen front/rear	kg	1620/2180	1880/2420	2030/2610
Wheels, Chassis					
3.1	Type: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic
3.2	Tyres size, front		7.00 - 12 - 12PR	28 x 9 - 15- 14PR	28 x 9 - 15- 14PR
3.3	Tyres size, rear		6.00 - 9 - 10PR	6.50 - 10 - 10PR	6.50 - 10 - 10PR
3.4	Wheels, number front/rear (X = driven wheels)		2X / 2	2X / 2	2X / 2
3.5	Track width, front	b10(mm)	973	1004	1004
3.6	Track width, rear	b11(mm)	982	982	982
Basic Dimensions					
4.1	Mast/fork carriage tilt forward/backward	∂/β (°)	6/10	6/10	6/10
4.2	Lowered mast height	h1(mm)	2070	2075	2185
4.3	Free lift	h2(mm)	135	140	145
4.4	Lift height	h3(mm)	3000	3000	3000
4.5	Extended mast height	h4(mm)	3974	4079	4079
4.6	Overhead load guard height	h6(mm)	2150	2150	2150
4.7	Seat height / standing height	h7(mm)	1130	1130	1130
4.8	Coupling height	h12(mm)	580	580	580
4.9	Overall height	l1(mm)	3568	3773	3818
4.10	Length to face of forks	l2(mm)	2498	2703	2748
4.11	Overall width	b1(mm)	1150	1226	1226
4.12	Fork dimensions	s/e/l(mm)	40/120/1070	45/125/1070	50/125/1070
4.13	Fork carriage DIN15173 - ISO2328,class/type A, B		ISO2328 2A	ISO2328 3A	ISO2328 3A
4.14	Fork carriage width	b3(mm)	1040	1100	1100
4.15	Ground clearance, Laden, under mast	m1(mm)	135	140	145
4.16	Ground clearance, centre of wheelbase	m2(mm)	150	150	150
4.17	Aisle width for pallets 1000 x 1200 crossways (buffer of 200mm included)	Ast(mm)	3908	4083	4123
4.18	Aisle width for pallets 800 x 1200 lengthways (buffer of 200mm included)	Ast(mm)	4108	4283	4323
4.19	Turning radius	Wa(mm)	2230	2400	2440
Performance					
5.1	Travel speed, laden/unladen P-mode	km/h	19/20	19/20	17/19
5.2	Lift speed, laden/unladen	m/s	0.46/0.56	0.46/0.56	0.40/0.56
5.3	Lowering speed, laden/unladen	m/s	<0.6	<0.6	<0.6
5.4	Max. Gradient performance, laden/unladen S2 5min	%	20/28	20/28	20/28
5.5	Service brake		Hydraulic	Hydraulic	Hydraulic
E-Motor					
6.1	Drive motor rating S ₂ 60min	kW	15	16	16
6.2	Lift motor rating at S ₃ 15%	kW	24	26	26
6.3	Battery standard		Li-Ion	Li-Ion	Li-Ion
6.4	Battery voltage, nominal capacity K ₅	V/Ah	76.8/277 76.8/412/554 (option)	76.8/277 76.8/412/554 (option)	76.8/277 76.8/412/554 (option)
6.5	Battery weight	kg	240	240	240
6.6	Battery dimensions l/w/h	mm	770/600/680	770/600/680	770/600/680
Others					
7.1	Type of drive control		AC	AC	AC
7.2	Operating pressure for attachments	Mpa	17.5	17.5	17.5
7.3	Oil volume for attachments	l/min	36	36	36
7.4	Sound level at driver's ear according to EN 12 053	dB(A)	75	77	78

