

EFL403

HIGH CAPACITY ELECTRIC COUNTERBALANCED FORKLIFT 4T

 4000 kg  3000 mm  96 V Li-Ion



Perfect for manufacturing, building materials, logistics hubs, and metal processing industries, the EFL403 provides exceptional performance and durability in intensive applications. Its large chassis, high ground clearance, and robust mast design make it suitable for uneven surfaces and demanding loading tasks, replacing traditional IC forklifts with a cleaner, more efficient solution.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-Ion
Battery nominal capacity		Ah	560
Battery voltage		V	96
Load capacity	Q	kg	4000
Load centre distance	c	mm	500
Service weight		kg	6450
Retracted mast height	h ₁	mm	2250
Lift height	h ₃	mm	3000
Height, mast extended	h ₄	mm	4177/3835
Overall length		mm	4125
Overall width	b ₁ /b ₂	mm	1495
Length to face of forks	I ₂	mm	3055
Fork dimensions	s/e/l	mm	50×150×1070
Turning radius		Wa	2680
Operator type			Seated
Load distance, centre of drive axle to fork		mm	545

Features

High-Capacity 96V Li-ion Battery (560 Ah)

Provides powerful, consistent energy delivery equivalent to IC engine performance — with zero emissions, fast charging, and long service life.



Rugged and Durable Chassis

A reinforced frame and wide-stance counterweight ensure outstanding stability and safety during heavy lifting operations.

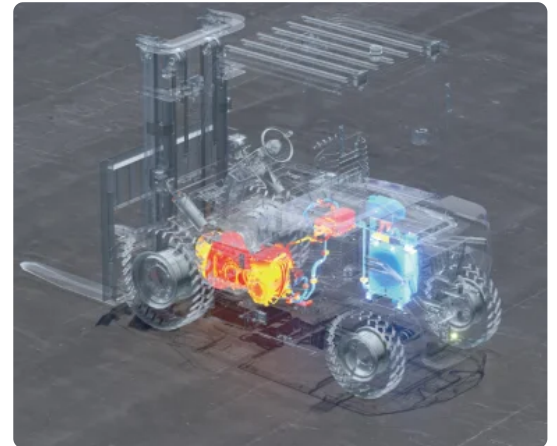
Smart and reliable strategy for thermal management

The high-capacity trucks utilize three distinct cooling systems to ensure optimal performance and reliability. Specifically, two water cooling systems are employed for the motor and the battery, while an oil cooling system is dedicated to the hydraulics system.

The water cooling systems provide superior cooling performance, preventing the truck from overheating even under the most demanding conditions or in the heat of summer. Water's higher heat transfer capacity compared to air allows it to dissipate heat more efficiently from critical components like the motor and battery. This efficient heat dissipation helps maintain the battery temperature around 30~35 °C , protecting these vital components from overheating and potential damage or failure. Consequently, this enhances the overall reliability and longevity of the high-capacity trucks.

Additionally, water cooling systems typically operate with less noise compared to air cooling systems that rely on high-speed fans. This noise reduction is particularly beneficial in applications where a quieter operation is desirable, such as in urban areas or indoor facilities.

The oil cooling system, on the other hand, is used for the hydraulics system. This system ensures that the hydraulic components remain within optimal temperature ranges, thereby maintaining their efficiency and preventing overheating. By effectively managing the temperature of the hydraulics system, the oil cooling system contributes to the smooth and reliable operation of the truck's hydraulic functions.



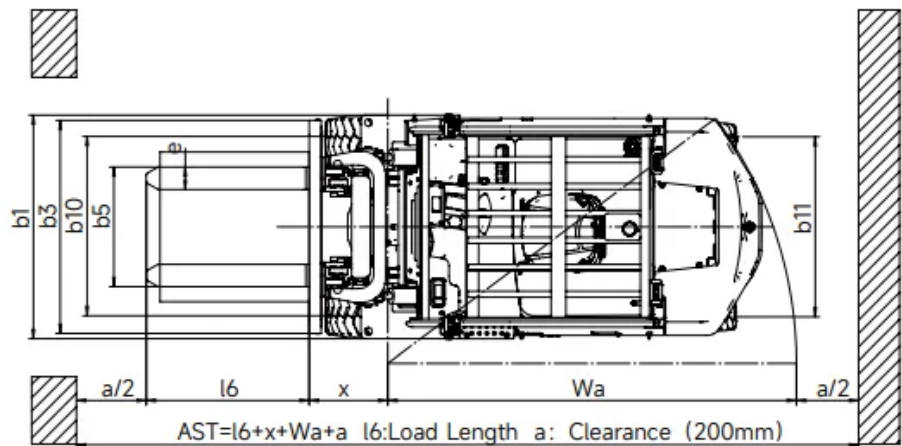
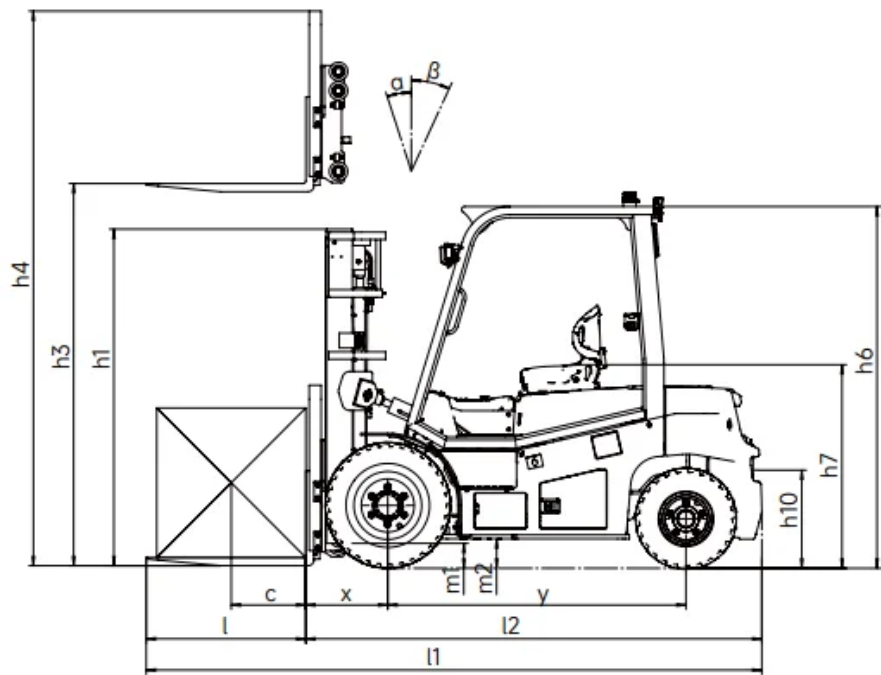
Sustainability : Zero emissions for cleaner environment

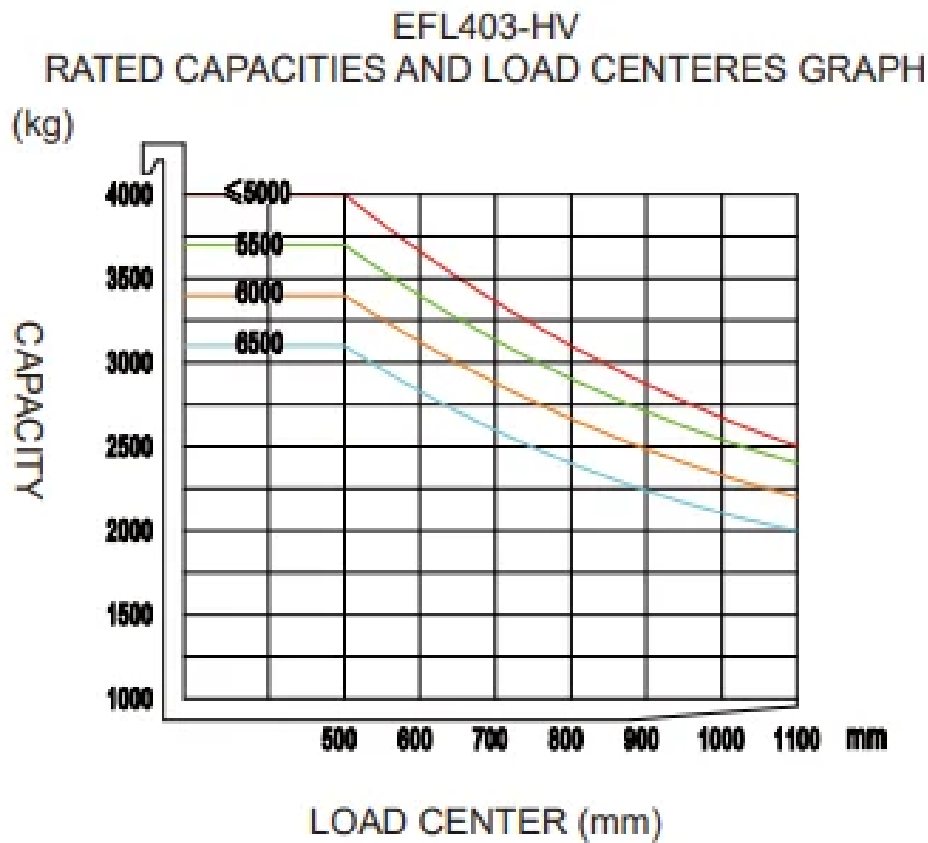
As fully electric trucks powered by lithium-ion batteries, these forklifts produce zero emissions during operation, eliminating exposure to toxic fumes like carbon monoxide and nitrogen oxides. Unlike lead-acid batteries which can leak corrosive acid, lithium-ion batteries do not risk hazardous spills.

VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.4	Operator type			Seated
1.5	Load capacity	Q	kg	4000
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork		mm	545
1.9	Wheelbase		mm	2000
2.1	Service weight		kg	6450
2.2	Axle loading, laden front/rear		kg	9442/1008
2.3	Axle loading, unladen front/rear		kg	3352/3098
3.1	Tyre type			Pneumatic
3.2	Tyre size, front			8.25-15-14PR
3.3	Tyre size, rear			7.00-12-12PR
3.5	Wheels, number front/rear (x=drive wheels)			2x/2
3.6	Tread width, front	b ₁₀	mm	1176
3.7	Tread width, rear	b ₁₁	mm	1190
4.1	Tilt of mast/fork carriage forward/backward		°	6/12
4.10	Height of wheel arms		mm	1290
4.12	Tow coupling height		mm	640
4.13	Loading height, unladen			150
4.15	Lowered height			2250
4.19	Overall length		mm	4125
4.2	Retracted mast height	h ₁	mm	2250
4.2.1	Overall height			4177
4.20	Length to face of forks	I ₂	mm	3055
4.21	Overall width	b ₁ /b ₂	mm	1495
4.22	Fork dimensions	s/e/l	mm	50×150×1070
4.23	A,B Fork carriage class/type A, B			3A
4.24	Fork carriage width		mm	1380 (1424)
4.3	Free lift		mm	150
4.31	Ground clearance, laden, below mast		mm	150
4.32	Ground clearance, centre of wheelbase		mm	180
4.34.1	Aisle width for pallets 1000×1200 crossways		Ast	4495
4.34.2	Aisle width for pallets 800×1200 lengthways		Ast	4495

SPECIFICATION		REF	UNIT	VALUE
4.35	Turning radius		Wa	2680
4.36	Internal turning radius			2680
4.4	Lift height	h ₃	mm	3000
4.4.1	Max lift height		mm	7000
4.5	Height, mast extended	h ₄	mm	4177/3835
4.6	Initial lift		mm	150
4.7	Height of overhead guard (cabin)		mm	2400
4.8	Seat height/standing height		mm	1290
5.1	Travel speed, laden/unladen		km/h	24/25
5.10	Service brake			Hydraulic
5.11	Parking brake			Mechanical
5.2	Lifting speed, laden/unladen		m/s	0.46/0.53
5.3	Lowering speed, laden/unladen		m/s	0.41/0.42
5.8	Max. gradeability, laden/unladen		%	25/30
6.1	Drive motor rating S2 60 min		kW	30
6.2	Lift motor rating at S3 15%		kW	27.8
6.4	Battery nominal capacity		Ah	560
6.4	Battery voltage		V	96
6.4.1	Battery type			Li-Ion
6.5	Battery weight		kg	473
8.1	Type of drive control			PMSM
10.7	Sound pressure level at the drivers ear		dB(A)	/





Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
2-Standard Mast	3000	22250	3835	4177	150	150
2-Standard Mast	3500	2500	4335	4677	150	150
2-Standard Mast	4000	2750	4835	5177	150	150
2-Standard Mast	4500	3050	5385	5677	150	150
2-Standard Mast	5000	3300	5885	6177	150	150
2-Standard Mast	5500	3600	6435	6677	150	150
2-Standard Mast	6000	3850	6935	7177	150	150
2-Standard Mast	6500	4150	7485	7677	150	150
2-Free Mast	3000	2250	-	4244	860	1364
2-Free Mast	3500	2500	-	4744	1110	1614

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
2-Free Mast	4000	2750	-	5244	-	-
3-Free Mast	4500	2247	5242	5677	1525	1091
3-Free Mast	5000	2413	5742	6177	1692	1258
3-Free Mast	5500	2580	6242	6677	1859	1425
3-Free Mast	6000	2797	6792	7177	2026	1642
3-Free Mast	6500	2963	7292	7677	2193	1809
3-Free Mast	7000	3130	7792	8177	2360	1976

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	1070mm forks (500mm LC) /1220mm forks (600mm LC) Customized fork length/non-standard accessories Hook-on forks
Fork carriage width option	1424mm Customized fork carriage width
Backrest height	Fork backrest with hook on type fork Customized fork backrest
Attachments	Hook-on sideshifter Hook-on fork positioner with sideshifter Fork positioner: Pin-type forks
Battery capacity	309V173Ah LFP battery
Charger	20kw (3 phase AC 370V-460V, 50-60HZ, 32A plug) 40kw (3 phase AC 370V-460V, 50-60HZ, 63A plug)
Buzzer	Yes
OPS system	Yes
Telematics	Yes
Overhead guard	Standard overhead guard
Heating system during lithium battery charging	Yes
Rear armrest horn	Yes Upgrade mechanical suspension seat with armrest + headrest + safety belt switch
Fork length	150