

EFLA251B

2500kg Li-ion Cushion Tyre Forklift Truck

 **COSMEC**



- Small wheelbase, compact truck size and cushion tyres suitable for indoor applications
- Effortless and simple usage in narrow aisles and confined spaces
- Fast lifting and lowering speed for maximum efficiency
- High residual capacity of 1000kg at 6.55m for high utilization of racking systems
- 80V/460Ah Li-ion battery as option ensures productive operation and long runtime
- Enhanced lifting performance thanks to the optimized hydraulic valve
- Driving compartment with superior visibility and suspension seat allows comfort operation



Manufacturer			COSMEC
Model designation			EFLA251B
Drive			Electric
Load capacity	Q	kg	2500
Load center distance	c	mm	500
Service weight		kg	4510
Retracted mast height	h1	mm	2110
Lift height	h3	mm	4800
Height, mast extended	h4	mm	5838
Length to face of forks	l2	mm	2329
Overall width	b1/b2	mm	1065
Fork dimensions	s/e/l	mm	40/122/1070
Turning radius	Wa	mm	1990
Travel speed, laden/unladen		km/h	13/14
Lifting speed, laden/unladen		m/s	0.61/0.64
Lowering speed, laden/unladen		m/s	0.5/0.5
Max. gradeability, laden/unladen		%	15/16
Drive motor rating S2 60 min		kW	8.5
Battery voltage/nominal capacity		V/Ah	80/230

FEATURE

■ Compact design and cushion tyres for indoor operations

With a compact wheelbase of 1485mm and an overall width of 1065mm, the EFLA251B model achieves an impressive turning radius of 1990mm, which is 15% smaller than the general purpose EFL253 for indoor and outdoor use. EFLA251B's dimension allows it to be operated effortlessly in narrow aisles. The cushion tyres are best on smooth concrete surfaces and also help with handling in tight spaces.



■ Li-ion Technology: High energy in a compact size and zero emission

EFLA251B is equipped with 80V/230Ah Li-ion battery and 80V/460Ah Li-ion battery as an option, which offers numerous benefits over lead-acid electric trucks. Li-ion batteries have a high energy density, allowing them to store a significant amount of energy in a relatively small and lightweight body. This makes them ideal for applications where space and weight constraints are crucial.

More importantly, the zero-emission feature of Li-ion battery makes EFLA251B the golden choice for indoor use as Li-ion trucks emit no toxic gas or chemicals.



■ Lift Higher and Faster

The lifting and lowering speeds have been improved thanks to a larger hydraulic oil hose and optimized valve design, enhancing overall operational efficiency.

EFLA251B offers an optional four-stage mast with three cylinders that can reach up to 6550 mm, ensuring that even at heights of up to 6.55 meters, the forklift maintains a residual capacity of 1000 kg.



■ Ergonomics and superior visibility

Despite its compact size, EFLA251B does not compromise on operator comfort. The driving compartment is designed with ample space for ergonomic efficiency, featuring a standard suspension seat that allows for fatigue-free operation. EFLA251B has optimized visibility through improved cylinder layout providing the operator with a clear view of their surroundings.

The excellent heat regulation and the standard cushion tyres also contribute to noise reduction, creating a quieter working environment that enhances operator focus and comfort.



✓ A dependable equipment prioritizing safety, efficiency and ease of maintenance.

EFLA251B incorporates several advanced features to ensure the well-being of the operator and the efficiency of operations:

✓ Safety

Floor mat is carved to prevent slippage and enhance safety by providing better traction for the operator.

A speed control system comes as a standard function, ensuring safe turning and reducing the risk of tipping.

An optional mast buffer automatically slows down the lifting speed as the mast reaches the top, preventing abrupt stops and ensure smooth operation.



✓ Easy Maintenance

Maintenance is made easy with a non-bolted front floor and a removable floor mat, allowing for quick repairs or parts replacement, ensuring minimal downtime and maximum productivity. Additionally, the incorporation of a bolted overhead guard (OHG) design further simplifies the maintenance process, with bolted design allowing easy disassembly and reassembly, facilitating access to components that may require servicing or replacement.



✓ Less Noise, More Comfort

The motor controller is strategically placed beside the counterweight for optimal heat regulation, eliminating the need for extra fans.



✓ And more.....

The upgraded look of the forklift, with a rectangular shield-shape counterweight design that complements the overall robust style, makes it not only functional but also aesthetically pleasing.

Additionally, the EFLA251B offers an optional clamp for added versatility. The clamp interlock safety function ensures that the control switch must be activated to operate the clamp, adding an extra layer of safety.

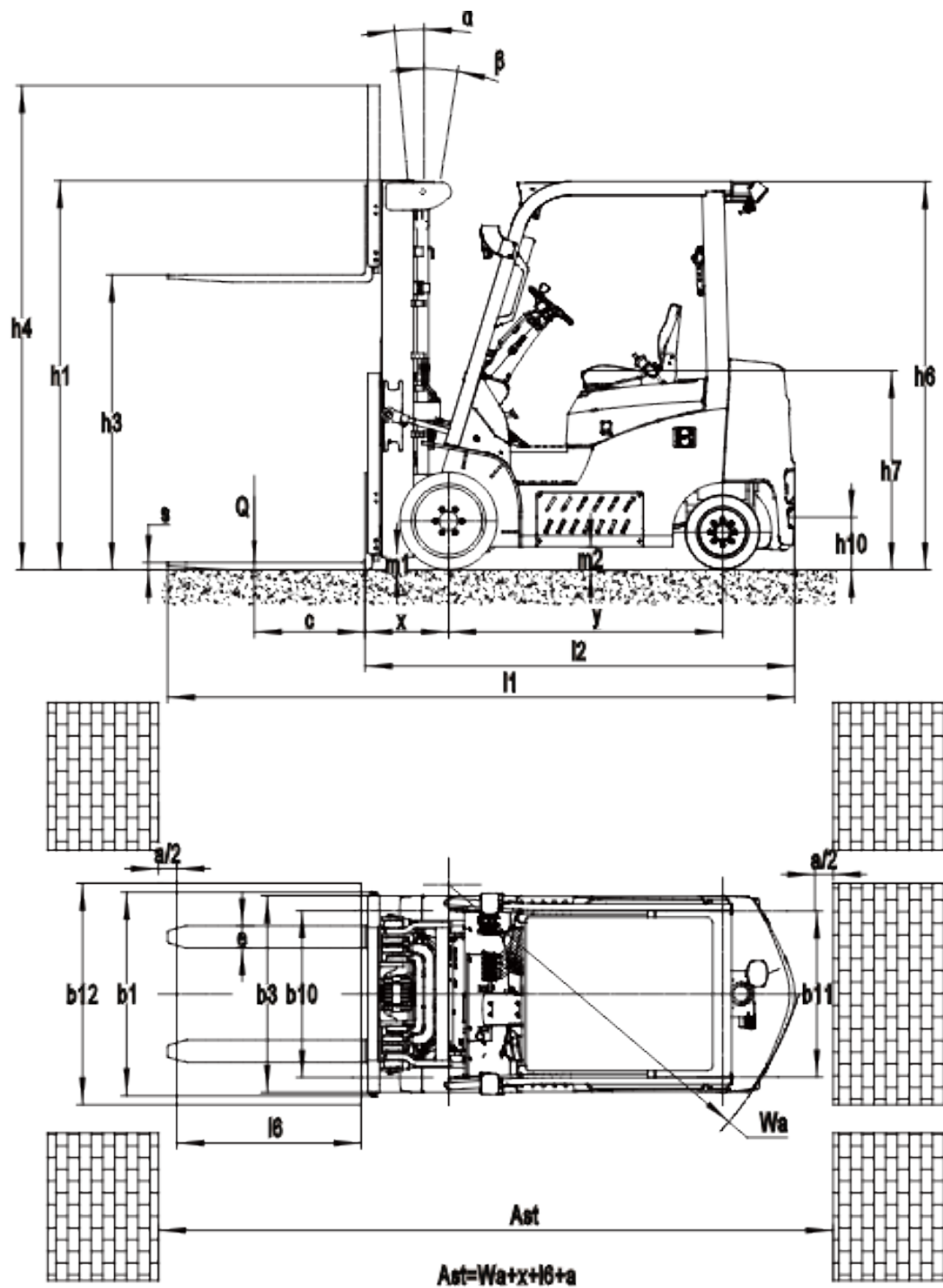


2500kg Li-ion Cushion Tyre Forklift Truck

EFLA251B

Distinguishing mark	1.1	Manufacturer			COSMEC
	1.2	Model designation			EFLA251B
	1.3	Drive			Electric
	1.4	Operator type			Seated
	1.5	Load capacity	Q	kg	2500
	1.6	Load center distance	c	mm	500
	1.8	Load distance, centre of drive axle to fork	x	mm	454
	1.9	Wheelbase	y	mm	1485
Service weight	2.1	Service weight		kg	4510
	2.2	Axle loading, laden front/rear		kg	6114/896
	2.3	Axle loading, unladen front/rear		kg	2008/2502
Tyres/chassis	3.1	Tyre type			Solid rubber
	3.2	Tyre size, front			21x7-15
	3.3	Tyre size, rear			16x6-10.5
	3.5	Wheels, number front/rear (x=drive wheels)		mm	2x, /2
	3.6	Tread width, front	b10	mm	905
	3.7	Tread width, rear	b11	mm	900
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/5
	4.2	Retracted mast height	h1	mm	2110
	4.3	Free lift	h2	mm	1468
	4.4	Lift height	h3	mm	4800
	4.5	Height, mast extended	h4	mm	5838
	4.7	Height of overhead guard (cabin)	h6	mm	2105
	4.8	Seat height/standing height	h7	mm	1105
	4.12	Tow coupling height	h10	mm	280
	4.19	Overall length	l1	mm	3399
	4.20	Length to face of forks	l2	mm	2329
	4.21	Overall width	b1/b2	mm	1065
	4.22	Fork dimensions	s/e/l	mm	40/122/1070
	4.23	A,B Fork carriage class/type A, B			2A
	4.24	Fork carriage width	b3	mm	1040
	4.31	Ground clearance, laden, below mast	m1	mm	95
	4.32	Ground clearance, center of wheelbase	m2	mm	110
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	3664
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	3864
	4.35	Turning radius	Wa	mm	1990
Performance data	5.1	Travel speed, laden/unladen		km/h	13/14
	5.2	Lifting speed, laden/unladen		m/s	0.61/0.64
	5.3	Lowering speed, laden/unladen		m/s	0.5/0.5
	5.8	Max. gradeability, laden/unladen		%	15/16
	5.10	Service brake			Hydraulic
	5.11	Parking brake			Mechanical
Electric-engine	6.1	Drive motor rating S2 60 min		kW	8.5
	6.2	Lift motor rating at S3 15%		kW	26
	6.4	Battery voltage/nominal capacity		V/Ah	80/230
	6.5	Battery weight		kg	295
Addition data	8.1	Type of drive control			AC
	10.5	Steering design			Hydraulic
	10.7	Sound pressure level at the driver's ear		dB(A)	68

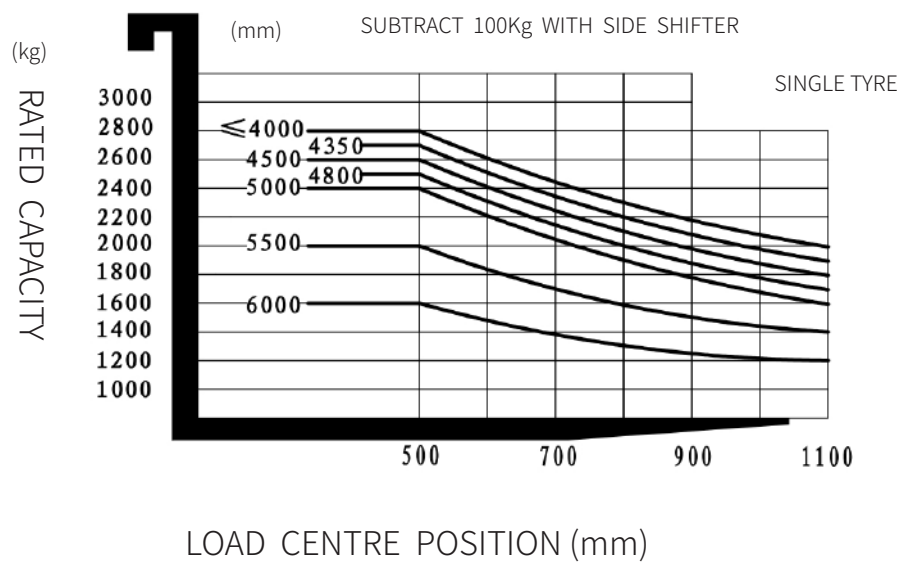
If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.



Mast Option

Mast types	Lift height (h3)	Height, Mast			Height, Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No shelving	With shelving
			No shelving	With shelving		
	mm	mm	mm	mm	mm	mm
3-Free Mast	4000	1945	4663	5046	1303	920
	4300	2015	4973	5356	1373	990
	4500	2095	5213	5596	1453	1070
	4800	2110	5455	5838	1468	1085
	5000	2285	5663	6046	1643	1260
	5500	2535	6163	6546	1893	1510
	6000	2785	6663	7046	2143	1760

RATED CAPACITIES AND LOAD CENTERES GRAPH



Option

No.	Optional items	EFLA251B
1.1	Fork dimension	122*40*920 122*40*1070 122*40*1150 122*40*1220 122*40*1370 122*40*1500 122*40*1600 122*40*1700 122*40*1820 122*40*1900 122*40*2000 122*40*2200
1.4	Fork carriage width	1040mm - Yes and customizable
1.5	Backrest height	1066mm (42in) 1220mm (48in) 1520mm (60in)
2.5	Front wheel material	- Smooth cushion tires - Treaded cushion tires - Non-marking smooth cushion tires - Non-marking treaded cushion tires - Wide cushion tires
2.6	Rear wheel material	- Smooth cushion tires - Treaded cushion tires - Non-marking smooth cushion tires - Non-marking treaded cushion tires
2.7	Battery capacity	80V230AH 80V460AH
2.8	Charger	- No 80V35A(Internal) 80V100A 80V200A
2.9	Battery indicator	With hourmeter
2.10	Seat type	- Comfortable - Suspension - Suspension with armrest and headrest
2.11	Attachments	- No - Built-in sideshifter - External shifter - Adjustable fork
2.13	Traction pin	Yes and not customized
2.14	Anti-static chain	Yes and not customized
3.5	Front lamp	LED
3.6	Rear lamp	- No - LED
3.7	Warning lamp	Yes and not customized
3.8	Turn signal light	LED
3.9	Blue lamp	- None - One on the front+ one on the rear - One on the rear - Two on the front + one on the rear
3.10	Area warning lamp	- None - Red, one on each sides - One on each sides + one on the rear
3.11	Rearview mirror	- One rearview mirror - Double rearview mirrors
3.12	Hummer	Yes and not customized
3.17	OPS system	- Yes and not customized - No
3.19	USB interface	Yes and not customized
3.23	Telematics	- Yes and not customized - No
4.5	Proportional lift system	Yes and not customized
4.7	Overhead guard	- Standard overhead guard - Yes and customizable

Note: ●Standard ○Optional