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**ELECTRIC
FORKLIFT**

PFE400TC

PFE450T

PFE500TC

PFE700T

PFE1000T

POWERPLUS T Series Lithium Battery Counterbalance Forklift

Capacity 4,000kg to 10,000kg



POWERPLUS has developed a 4.0 - 10.0 ton lithium battery forklift. The POWERPLUS T Series 4.0 - 10.0 ton Li-ion forklift features a robust design inspired by our internal combustion forklifts, incorporating a durable chassis, frame, counterweight, and mast.

We source high-quality lithium batteries, along with ZAPI controllers and the BMS control system.



Our electric forklift provides an optimal solution for cost savings and environmental sustainability, ensuring customer satisfaction.

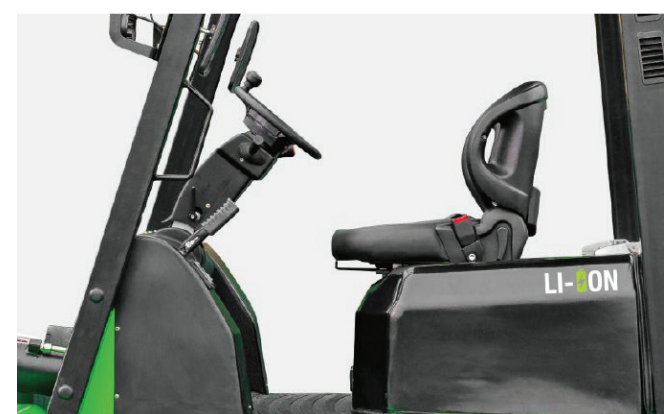
Our range of batteries boosts power output, significantly enhances performance and efficiency, and extends operational hours.

Robust and Durable Chassis

Built with a durable and reliable IC truck structure, along with a mast, axles, and tires that have been proven in the market for over 20 years.



Comfort and Ergonomic Design



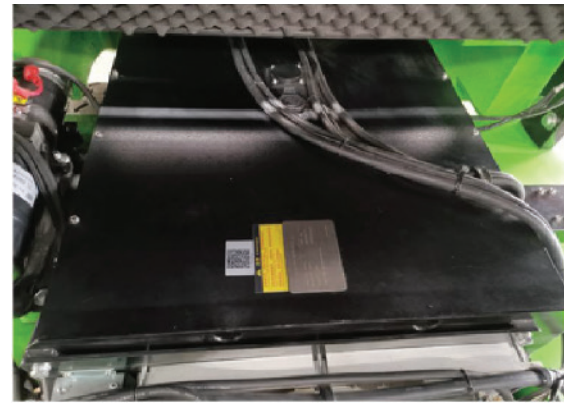
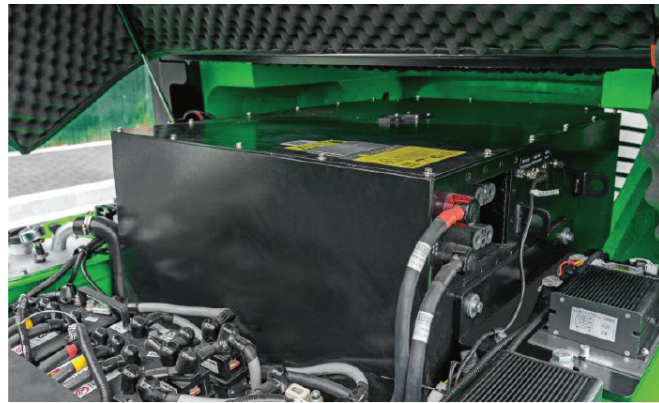
Provides more spacious legroom compared to standard Li-ion forklifts. The robust IC forklift structure enhances stability, ensuring a comfortable driving experience for operators, especially when turning.



The ZAPI controller, featuring a large LED screen, offers excellent visibility and clear readability. The CAN-bus system enables operators to continuously monitor the forklift's performance.



Extended Durability and Performance



The battery is capable of approximately 4,000 charge and discharge cycles. With a long lifespan and a 5-year warranty on the lithium battery, customers can have peace of mind regarding its reliability.

Fast Charging



Equipped with two charging sockets, the battery can be fully charged in just 2 to 2.5 hours, and it can be charged at any time throughout the day to support multiple shifts.



Versatile Site Applications

With IC forklift structures featuring higher ground clearance, it is designed to operate both indoors and outdoors, offering excellent waterproof and dustproof performance.

Low Total Ownership Cost (TOC)

- Higher than a Stage 3 engine IC forklift but lower than a Stage 5 engine IC forklift.
- No fuel costs or maintenance fees for air filters, oil filters, or engine oil changes, compared to a conventional IC forklift.
- Offers a lower total cost of ownership (TCO) in the long run.

Advantages of Lithium Battery Technology LI-ION

- Fully charged in approximately two hours, and reaches 80% charge in just 1.5 hours.
- Charging can be paused at any time.
- Maintenance-free, with no odors from gases or battery acid buildup.
- Offers a longer service life and requires less maintenance compared to lead-acid batteries.



A 5-year battery warranty with a lifespan of approximately 4,000 charge and discharge cycles.



Security and Ease of Use

The anti-slip feature on inclines, along with the accumulator and optional OPS, enhances operational safety. The accumulator ensures the brakes remain functional multiple times, even if the battery runs out.



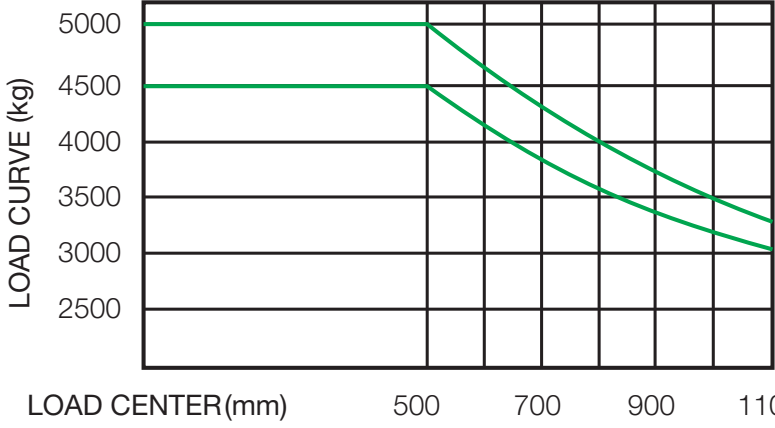
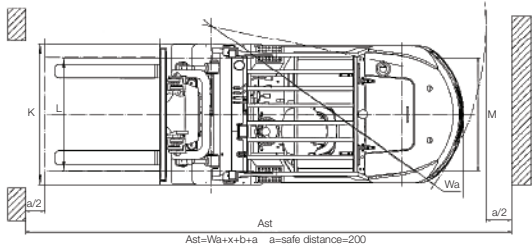
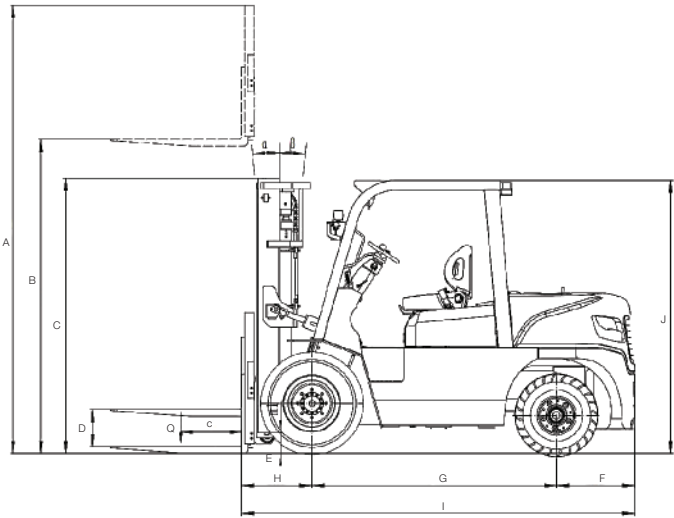
The specialized hydraulic system ensures the steering remains functional while the brakes are applied. The CAN-bus and BMS systems continuously monitor and protect the truck. The wide opening angle provides easy access to all parts.



Model			PFE400T	PFE450T	PFE500TC
Operator Type			Seated		
Drive Type			Electric (Li-ion)		
Battery		V/Ah	76.8V/450AH		
Load Capacity	Q	kg	4000	4500	5000
Total Weight		kg	6306	6505	6805
Load Centre Distance	c	mm	500		
DIMENSION					
Lifting Height	B	mm	3000		
Free Lift Height	D	mm	140		
Fork Size		mm	1070 x 150 x 55		
Tilt of Mast / Fork Carriage Forward/Backward	α/ β	°	6/12		
Front Overhang	H	mm	574		
Rear Overhang	F	mm	640		
Ground clearance (Laden, below mast)	E	mm	170		
Overall Length (Without fork)	I	mm	3215		
Overall width	K	mm	1485		
Mast lowered height	C	mm	2260		
Mast extended height (With backrest)	A	mm	4260		
Overhead guard height	J	mm	2260		
Wheelbase	G	mm	2000		
Turning radius	Wa	mm	2880		
Aisle width for pallets 1000x1200 crossways	Ast	mm	4655		
Aisle width for palets 800x1200 lengthways	Ast	mm	4855		
PERFORMANCE					
Travel speed (Laden / Unladen)		km/hr	14 / 15		
Liting speed (Laden / Unladen)		mm/s	290 / 400		
Lowering Speed (Laden / Unladen)		mm/s	600 / 300		
Max. Gradeability (Laden)		%	15		
CHASSIS					
Tire size, Front * 2		mm	300-15-18PR		
Tire size, Rear * 2		mm	7.00-12-12PR		
Front tread	L	mm	1190		
Rear tread	M	mm	1195		
POWER & TRANSMISSION					
Drive Motor		KW	21.5		
Lift Motor		KW	25.4		
Operating Pressure (For Attachment)		Mpa	19		

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)						Overall Height (mm)			Free Lift (mm)		Tilt Angle
									Lowered	Extended		Without Backrest	With Backrest	
			4.0t	4.0t (Double)	4.5t	4.5t (Double)	5.0t	5.0t (Double)		4.0t / 4.5t / 5.0t				
Wide View Mast	RM300	3000	4000	4200	4500	4750	5000	5300	2260	3730	4260	140	140	6-12
	RM330	3300	4000	4200	4500	4750	5000	5300	2410	4030	4560	140	140	6-12
	RM350	3500	4000	4200	4500	4750	5000	5300	2510	4230	4760	140	140	6-12
	RM370	3700	4000	4200	4500	4750	4850	5150	2610	4430	4960	140	140	6-12
	RM400	4000	4000	4200	4500	4750	4650	4850	2810	4780	5260	140	140	6-6
	RM430	4300	3800	4000	4200	4450	4300	4600	2960	5080	5560	140	140	6-6
	RM450	4500	3600	3800	4000	4250	4200	4500	3060	5280	5760	140	140	6-6
	RM470	4700	3300	3500	3700	3950	3800	4100	3160	5480	5960	140	140	6-6
	RM500	5000	3000	3200	3500	3750	3650	3900	3310	5780	6260	140	140	6-6
	RM550	5500	2300	2500	2700	2950	2800	3100	3560	6280	6760	140	140	3-6
RM600	6000	2000	2200	2400	2650	2500	2800	3860	6830	7260	140	140	3-6	

Mast Type	Mast Name	Max. Fork Height (mm)	Load Capacity (kg)						Overall Height (mm)			Free Lift (mm)		Tilt Angle
									Lowered	Extended		Without Backrest	With Backrest	
			4.0t	4.0t (Double)	4.5t	4.5t (Double)	5.0t	5.0t (Double)		4.0t / 4.5t / 5.0t	4.0t / 4.5t / 5.0t			
3 - Stage Full Free Wide View Mast	TFM400	4000	3800	4000	4300	4550	4600	4900	2205	4820	5265	1380	935	6-6
	TFM435	4350	3400	3600	3800	4050	4100	4400	2320	5165	5610	1495	1050	6-6
	TFM450	4500	3300	3500	3700	3950	4000	4300	2370	5315	5760	1545	1100	6-6
	TFM470	4700	3000	3200	3300	3500	3600	3900	2435	5510	5955	1610	1165	6-6
	TFM500	5000	2800	3000	3100	3350	3400	3700	2535	5810	6255	1710	1260	6-6
	TFM550	5500	2300	2500	2600	2850	2900	3200	2700	6144	6675	1875	1430	3-6
	TFM600	6000	1800	2000	2000	2250	2300	2800	2970	6915	7260	2045	1700	3-6



Model			PFE700T	PFE1000T
Operator Type			Seated	
Drive Type			Electric (Li-ion)	
Battery		V/Ah	76.8V/700AH	76.8V/840AH
Load Capacity	Q	kg	7000	10000
Total Weight		kg	9760	12900
Load Centre Distance	c	mm	600	
DIMENSION				
Lifting Height	B	mm	3000	
Free Lift Height	D	mm	217	220
Fork Size		mm	1220 x 150 x 65	1220 x 150 x 80
Tilt of Mast / Fork Carriage Forward/ Backward	α/ β	°	6/12	
Front Overhang	H	mm	592	721
Rear Overhang	F	mm	705	760
Ground Clearance (Laden, below Mast)	E	mm	200	245
Overall Length (Without fork)	I	mm	3547	4281
Overall Width	K	mm	1995	2165
Mast Lowered Height	C	mm	2615	2845
Mast Extended Height (With Backrest)	A	mm	4437	4260
Overhead Guard Height	J	mm	2450	2540
Wheelbase	G	mm	2250	2800
Turning Radius	Wa	mm	3360	3900
Min. Aisle width for Pallets	Ast	mm	5365	6045
PERFORMANCE				
Travel Speed (Laden / Unladen)		km/hr	14 / 15	13 / 15
Lifting Speed (Laden / Unladen)		mm/s	350 / 400	270 / 320
Lowering Speed (Laden / Unladen)		mm/s	600 / 300	
Max. Drawbar Pull (Laden)		N	35000	38000
Max. Gradeability (Laden)		%	14	12 / 13
CHASSIS				
Tire size, Front * 4		mm	8.25-15-14PR	9.00-20-16PR
Tire size, Rear * 2		mm	8.25-15-14PR	9.00-20-16PR
Front Tread	L	mm	1470	1600
Rear Tread	M	mm	1700	
POWER & TRANSMISSION				
Drive Motor		KW	25	35
Lift Motor		KW	21X2	25.4X2
Operating Pressure (For Attachment)		Mpa	19.5	

Mast Type	Mast Name		Max. Fork Height (mm)		Load Capacity (kg)		Overall Height (mm)					Free Lift (mm)		Free Lift (mm)	Tilt Angle	
							Lowered	Extended		Lowered	Extended	Without Backrest	With Backrest			
	7.0t	10.0t	7.0t	10.0t	7.0t	10.0t		7.0t						10.0t		7.0t
2 - Stage Wide View Mast	M300	M250	3000	2500	7000	10000	2615	4067	4437	2595	3770	217	217	220	6-12	6-12
	M330	M300	3300	3000	7000	10000	2765	4367	4737	2845	4270	217	217	220	6-12	6-12
	M350	M350	3500	3500	7000	10000	2865	4567	4937	3095	4770	217	217	220	6-12	6-12
	M375	M400	3750	4000	7000	10000	2990	4817	5187	3395	5320	217	217	220	6-12	6-12
	M400	M450	4000	4500	7000	10000	3165	5067	5437	3645	5820	217	217	220	6-12	6-12
	M430	M475	4300	4750	7000	10000	3365	5367	5637	3770	6065	217	217	220	6-12	6-6
	M450	M500	4500	5000	7000	10000	3415	5567	5937	3895	6320	217	217	220	6-12	6-6
	M475	M550	4750	5500	7000	9000	3540	5817	6187	4195	7115	217	217	220	6-6	3-6
	M500	M600	5000	6000	7000	8000	3665	6067	6437	4445	7615	217	217	220	6-6	3-6
	M550		5500		6600		3965	6567	6937			217	217		3-6	
M600		6000		6400		4215	7067	7437			217	217		3-6		

Mast Type	Mast Name		Max. Fork Height (mm)		Load Capacity (kg)		Overall Height (mm)					Free Lift (mm)		Free Lift (mm)	Tilt Angle	
							Lowered	Extended		Lowered	Extended	Without Backrest	With Backrest			
	7.0t	10.0t	7.0t	10.0t	7.0t	10.0t		7.0t						10.0t		7.0t
3 - Stage Full Free Wide View Mast	TFM400	TFM360	4000	3600	7000	8000	2610	5112	5437	2565	4940	1478	1165	1200	6-6	6-12
	TFM435	TFM400	4350	4000	6500	8000	2725	5462	5787	2695	5330	1594	1280	1330	6-6	6-12
	TFM450	TFM435	4500	4350	6000	8000	2775	5612	5937	2815	5690	1644	1330	1450	6-6	6-12
	TFM480	TFM450	4800	4500	6000	7800	2875	5912	6237	2865	5840	1744	1430	1500	6-6	6-12
	TFM500	TFM480	5000	4800	6000	7500	2940	6112	6437	2965	6140	1808	1495	1600	3-6	6-6
	TFM550	TFM500	5500	5000	5700	7500	3105	6612	6937	3030	6335	1974	1660	1665	3-6	6-6
	TFM600	TFM540	6000	5400	5400	7000	3320	7112	7437	3220	6755	2144	1875	1855	3-6	3-6
		TFM600		6000		6000				3420	7355			2055		3-6

