



Strong power for efficient operation

Incomparable strong power, excellent loading capacity.

Technical Data For FE Series Electric Counterbalance Forklift

1	Product Model		FE16S	FE18S	FE20S	FE15	FE18	FE20	FE25	FE30	FE35		
2	Loading Capacity	kg	1600	1800	2000	1500	1800	2000	2500	3000	3500		
3	Load Center	mm	500	500	500	500	500	500	500	500	500		
4	Truck Weight(Without battery)	kg	3420	3520	3760	3280	3400	4170	4410	5100	5350		
5	Type												
6	Tyre Type(Non-pneumatic/pneumatic)		solid	solid	solid	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic (rear solid)		
7	Front Wheel Size		18x7-8	18x7-8	18x7-8	6.50-10-10PR	6.50-10-10PR	7.00-12-12PR	7.00-12-12PR	28x9-15-12PR	28x9-15-12PR		
8	Rear Wheel Size		16x6-8	16x6-8	16x6-8	5.00-8-10PR	5.00-8-10PR	18x7-8-14PR	18x7-8-14PR	18x7-8-14PR	18x7-8-14PR		
9	Fork, Front	W3 mm	924	924	924	890	890	960	960	1000	1000		
10	Fork, Rear	W4 mm	208	208	208	920	920	950	950	980	980		
11	Wheelbase	L1 mm	1460	1460	1460	1420	1420	1510	1510	1700	1700		
12	Lifting Height	h3 mm	3000	3000	3000	3000	3000	3000	3000	3000	3000		
13	Fork Dimensions (LxWxT)	mm	920x120x35	920x120x35	1070x120x40	920x120x35	920x120x35	1070x120x40	1070x120x40	1070x125x45	1070x125x50		
14	Mast Tilt Angle (Front/Rear)	α/β °	5/7	5/7	5/7	6/12	6/12	6/12	6/12	6/12	6/12		
15	Overall Height with Mast Closed	H1 mm	2010	2010	2010	1995	1995	2070	2070	2115	2150		
16	Free Lift	H3 mm	95	95	95	105	105	125	125	125	125		
17	Height with Mast Extended (with basket)	H2 mm	3940	3940	3940	3940	3940	4070	4070	4175	4175		
18	Backrest Height	H6 mm	910	910	910	910	910	1045	1045	1140	1140		
19	Maximum Rise (with basket)	W5 mm	240-970	240-970	240-970	240-970	240-970	240-1040	240-1040	250-1100	250-1100		
20	Overall Length (without fork)	L/L mm	2100/3020	2100/3020	2100/3170	2190/3110	2190/3110	2360/3430	2360/3430	2610/3680	2615/3685		
21	Overall Width (Chassis)	W1 mm	1100	1100	1100	1090	1090	1160	1160	1230	1230		
22	Overhead Guard Height	H4 mm	2055	2055	2055	2195	2195	2240	2240	2250	2250		
23	Distance from the Face of Seat to Overhead Guard	H7 mm	990	990	990	1020	1020	1020	1020	1020	1020		
24	Front Overhang	L2 mm	410	410	410	420	420	465	465	480	485		
25	Rear Overhang	L3 mm	230	230	230	350	350	385	385	430	430		
26	Min Turning Radius	r mm	1690	1690	1690	2010	2010	2075	2075	2350	2350		
27	Min Ground Clearance	H5 mm	90	90	90	110	110	110	110	140	140		
28	Min. Fork Width for pallets 1000x1000 (fork along side)	Ra mm	2300	2300	2300	2050	2050	2250	2250	2425	2425		
29	Min. Fork Width for pallets 1000x1000 (fork along front)	RAS mm	3400	3400	3400	3600	3600	3740	3740	4070	4070		
30	Max Travel speed (loaded/unloaded)	km/h	13/14	13/14	13/14	13/14	13/14	13/14	13/14	13/14	13/14		
31	Max Lifting speed (loaded/unloaded)	mm/s	340/400	320/400	300/400	320/380	300/380	300/380	270/380	300/380	280/360		
32	Max Lowering speed (loaded/unloaded)	mm/s	< 600 / > 300	< 600 / > 300	< 600 / > 300	< 600 / > 300	< 600 / > 300	< 600 / > 300	< 600 / > 300	< 600 / > 300	< 600 / > 300		
33	Gradeability (loaded)	%	15	15	15	15	15	15	15	15	15		
34	Battery (Voltage/Capacity)	V/Ah	48/490	48/490	48/560	48/400	48/450	48/560	48/630	80/500	80/550		
35	Motor (Theoretical)	Kw	4.5x2	4.5x2	4.5x2	8	8	11	11	15	15		
36	Motor rating	Kw	8.6	8.6	8.6	8.6	8.6	8.6	8.6	12	12		
37	Controller Brand		CURTIS/ZOWELL			CURTIS/ZOWELL			CURTIS/ZOWELL			CURTIS/ZOWELL	
38	Type of drive control		AC			AC			AC			AC	
39	Hydraulic system operating pressure	Mpa	14.5			14.5			17.5			17.5	



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Reminder: All photos here are for reference only and are subject to the physical product if there is any difference. Suzhou Pioneer Material Handling Equipment & Technology Co., Ltd reserves final right of explanation.



FE Series Electric Counterbalance Forklifts



Comfortable operation to relieve fatigue

Ergonomic control layout, easy & flexible operation.

Side-mounted operation lever
 Increase comfort of arm and reduce fatigue of muscle.



Lighter and easier steering control
 Racing formula steering wheel with small diameter, more flexible for steering.

Optimum angle pedal layout
 Ergonomic design ensures comfortable driving posture.



Surrounded seat (optional feature)
 The seat is adjustable and can relieve fatigue after driving for a long time.



Big space for foot
 Surplus space shows its superiority.

FE 4 wheel electric counter balance stacker



Reliable Operation
Ensure the Safety

Comply with international safety standards, provides more protection.

FE 4 wheel electric counter balance stacker

Easy Maintenance
Low Cost.



Easy to maintain, save time, energy and money.

FE 3-wheel electric counter balance stacker

FES 3-wheel electric counterbalance forklift

3-wheel series forklift is in accordance with the design concept of high performance and it is an ideal selection for storage in small area. Compact and streamlined design ensures tasks can be successfully carried out in narrow space and aisle which will save a lot of money for special forklift suitable for limit area.



Configuration advantages

Curtis/Zapi Controller(Full AC technology)
ZF Gear Box(Double drive)

American Brand Curtis/ZAPI Controller (Full AC System)
German Brand ZF Gearbox (Double Driving System)

3 wheel

Successful cases,carrying reputation

Thanks to strict definition of technology and quality, we get lots of trust from customers, satisfy their more and more requirements for high reliability, energy conservation and environment protection.

Our products are well used in different kinds of industries and creat high additional value for customers continuously.

Client Cases

Client Cases

 Das Auto.	 统一企业		 pepsi	 美的 Midea®	 华润万家 vanguard
	 普利司通轮胎			 顺丰速运	 好孩子
	 迎驾贡酒	 飞鹤 FIRMUS	 上汽集团 SAIC MOTOR	 nepia BABY NAPPY	 南汽
 南山集团 NANSHAN GROUP	 五粮液 WULIANGYE	 双汇集团 SHENWAY GROUP	 第一汽车	 三精制酱 Sanjinhua	 HONDA

Strong overhead guard

Well protect operator without worrying about the safety.

High steering point

More stable in horizontal position, reduce rollover accidents.

Driver seat built-in sensing switch for safety

Operator presence sensing system is built-in driver seat.

Wide tyre

High stability and safety.



Full AC system

Excellent performance control, motor for life maintenance-free.



Excellent noise reduction technology

Rational layout, aseismic design, low noise.

70% of the components are massive produced by moulds

Ensure the reliability of the forklift.

70%



Battery side extraction

Battery can be pulled out from the side, which saves the time of replacement and improves working efficiency, especially for high intensity working conditions.