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# Productive & Efficient

## AX SERIES

### 2.5-3.5 TON



AX Series Electric Counterbalance Forklift Truck



# maximal



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## AX SERIES Product Features

### Structure

- Mature and tested structure design is ideal for indoor and outdoor working conditions.
- Ergonomic design and optimized cab improve driving experience.
- Wide view mast provides good front view.
- High and intensive test ensures durability.

### Dynamic system

- Highly integrated power system simplifies high voltage wiring harnesses and reduces failure rate.
- BMS and controllers are equipped with leakage detection system and real-time monitoring which ensures safety.
- High voltage interlock detection and overvoltage detection system will trigger protection state in time for safety.
- High efficiency PMS motor and controller system provides up to 95% working efficiency, and reduces comprehensive energy consumption by 20%.

### Applicability

- IPX4 waterproof rating ensures continuous operation in rainy days.
- The truck can work in -20 ° C cold storage even after 15 hours of parking.
- Lithium battery with automatic heating function ensures timely temperature recovery during discharge and before charging.
- Large tire size and high ground clearance ensures good passing performance on bumpy outdoor roads.

### Other configuration

- Standard curve deceleration function improves truck turning stability and safety performance.
- Standard fast charging interface without opening cover when charging provides convenience.
- LED lights are bright and energy saving.



## AX SERIES AX SERIES FBAX25-35 Specification

Features	1.1	Manufacturer		HYM	HYM	HYM	HYM	HYM	HYM
	1.2	Product Type		FBAX	FBAX	FBAX	FBAX	FBAX	FBAX
	1.2.1	Model		FBAX25-YWL	FBAX25-YTH	FBAX30-YWL	FBAX30-YTH	FBAX35-YWL	FBAX35-YTH
	1.3	Drive: battery		Battery	Battery	Battery	Battery	Battery	Battery
	1.4	Operator type: seated		Seat	Seat	Seat	Seat	Seat	Seat
	1.5	Rated Capacity	Q (kg)	2500	2500	3000	3000	3500	3500
	1.6	Load center	c (mm)	500	500	500	500	500	500
	1.8	Load Distance	x (mm)	476	476	491	491	510	510
	1.9	Wheelbase	y (mm)	1600	1600	1700	1700	1700	1700
Weight	2.1	Service weight	kg	3805	3930	4275	4330	4685	4820
	2.2	Axle loading, laden front/rear	kg	5485 / 820	5594 / 836	6329 / 946	6377 / 953	7083 / 1102	7189 / 1131
	2.3	Axle loading, unladen front/rear	kg	1465 / 2340	1513 / 2417	1710 / 2565	1732 / 2598	1827 / 2858	1880 / 2940
Wheels and tires	3.1	Tyres: L = pneumatic, V = cushion, SE = Pneumatic Shape Solid		Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire
	3.2	Tire size, front		7.00-12-12PR	7.00-12-12PR	28×9-15-14PR	28×9-15-14PR	28×9-15-14PR	28×9-15-14PR
	3.3	Tire size, rear		6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-10PR
	3.5	Number of wheels, front/rear (X=drive wheels)		2 / 2	2 / 2	2 / 2	2 / 2	2 / 2	2 / 2
	3.6	Tread, front wheel	b <sub>10</sub> (mm)	970	970	1000	1000	1000	1000
	3.7	Tread, rear wheel	b <sub>11</sub> (mm)	980	980	970	970	970	970
	Size	4.1	Tilt of mast/fork carriage forward/backward	degrees	6 / 12	6 / 12	6 / 12	6 / 12	6 / 12
4.2		Height, mast lowered	h <sub>1</sub> (mm)	2010	2010	2150	2150	2150	2150
4.3		Free lift height	h <sub>2</sub> (mm)	160	160	165	165	170	170
4.4		Fork lift height	h <sub>3</sub> (mm)	3000	3000	3000	3000	3000	3000
4.5		Height, mast extended	h <sub>4</sub> (mm)	3990	3990	4100	4100	4100	4100
4.7		Height of overhead guard	h <sub>6</sub> (mm)	2180	2180	2205	2205	2205	2205
4.8		Seat height relating to SIP/stand height	h <sub>7</sub> (mm)	1190	1190	1215	1215	1215	1215
4.12		Coupling height	h <sub>10</sub> (mm)	250	250	260	260	260	260
4.19		Overall length	l <sub>1</sub> (mm)	3691	3691	3788	3788	3876	3876
4.20		Length to face of forks	l <sub>2</sub> (mm)	2621	2621	2718	2718	2806	2806
4.21		Overall width	b <sub>1</sub> (mm)	1160	1160	1228	1228	1228	1228
4.22		Fork size	s/e/l (mm)	40/122/1070	40/122/1070	45/122/1070	45/122/1070	50/122/1070	50/122/1070
4.23		Fork carriage ISO 2328, class/type A, B		II A	II A	IIIA	IIIA	IIIA	IIIA
4.24		Fork carriage width	b <sub>3</sub> (mm)	1040	1040	1100	1100	1100	1100
4.31		Ground clearance, laden, below mast	m <sub>1</sub> (mm)	125	125	140	140	140	140
4.32		Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	130	130	160	160	160	160
4.33		Aisle width for pallets 1000 X 1200 wide	Ast (mm)	4226	4226	4352	4352	4430	4430
4.34	Aisle width for pallets 800 X 1200 long	Wa (mm)	2350	2350	2461	2461	2520	2520	
4.35	Turning radius	b <sub>13</sub> (mm)	745	745	823	823	823	823	
Performance	5.1	Travel speed, laden / unladen	km/h	15 / 15	19 / 19	15 / 15	19 / 19	15 / 15	19 / 19
	5.2	Lift speed, laden / unladen	mm/s	400 / 430	510 / 540	350 / 380	430 / 500	350 / 380	430 / 500
	5.3	Lowering speed, loaded/unloaded	mm/s	420 / 500	420 / 500	420 / 500	420 / 500	420 / 500	420 / 500
	5.8	Gradeability laden / unladen, 30 minute rating	%	15 / 15	20 / 20	15 / 15	20 / 20	15 / 15	20 / 20
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Motor	6.1	Drive motor rating	kW	15	21.6	15	21.6	15	21.6
	6.2	Lift motor rating	kW	15	22.6	15	22.6	15	22.6
Battery parameters	6.4	V / Ah (5 hours)	V/Ah	115.2V/230Ah	153.6V/230Ah	115.2V/230Ah	153.6V/230Ah	115.2V/230Ah	153.6V/230Ah
	其他	Working pressure of attached tools	MPa	140	140	140	140	140	140
	10.7	Noise near the driver's ear	dB (A)	64	66	64	66	64	66

## AX SERIES FBAX25 Electric forklift truck mast

Mast Type	Specification	Maximal lift Height h <sub>3</sub> (mm)	Mast height			Full Free Lift Height h <sub>2</sub>		Load Distance x (mm)	Mast tilt		Load Capacity	
			Lower Height h <sub>1</sub> (mm)	Extended Height h <sub>4</sub>		W/O LBR (mm)	W/ LBR (mm)		Forward (Deg)	Backward (Deg)	Load Center (500mm)	
				W/O LBR (mm)	W/ LBR (mm)						Front Single Tyres (kg)	Front Dual Tyres (kg)
2 LFL mast	M300	3000	2010	3575	3990	160	160	465	6	12	2500	2500
	M330	3300	2160	3875	4290	160	160	465	6	12	2500	2500
	M350	3500	2260	4075	4490	160	160	465	6	12	2500	2500
	M370	3700	2360	4275	4690	160	160	465	6	6	2500	2500
	M400	4000	2560	4575	4990	160	160	465	6	6	2500	2500
	M450	4500	2810	5075	5490	160	160	465	6	6	2100	2400
	M500	5000	3060	5575	5990	160	160	465	6	6	1600	1900
2 FFL mast	M550	5500	3360	6075	6490	160	160	465	3	6	1200	1700
	M600	6000	3610	6575	6990	160	160	465	3	6	900	1400
	FM300	3000	2010	3590	3990	1420	1020	480	6	12	2500	2500
	FM330	3300	2160	3890	4290	1570	1170	480	6	12	2500	2500
3 FFL mast	FM350	3500	2260	4090	4490	1670	1270	480	6	12	2500	2500
	TFM435	4350	2010	4867	5340	1390	1020	485	6	6	2200	2400
	TFM450	4500	2060	5017	5490	1440	1070	485	6	6	2000	2300
	TFM480	4800	2160	5317	5790	1540	1170	485	6	6	1700	2000
	TFM500	5000	2260	5517	5990	1640	1270	485	6	6	1500	1800
	TFM550	5500	2425	6017	6490	1800	1430	485	3	6	1100	1500
	TFM600	6000	2610	6517	6990	1990	1620	485	3	6	800	1300
TFM650	6500	2825	7017	7490	2215	1835	485	3	6	500	1000	

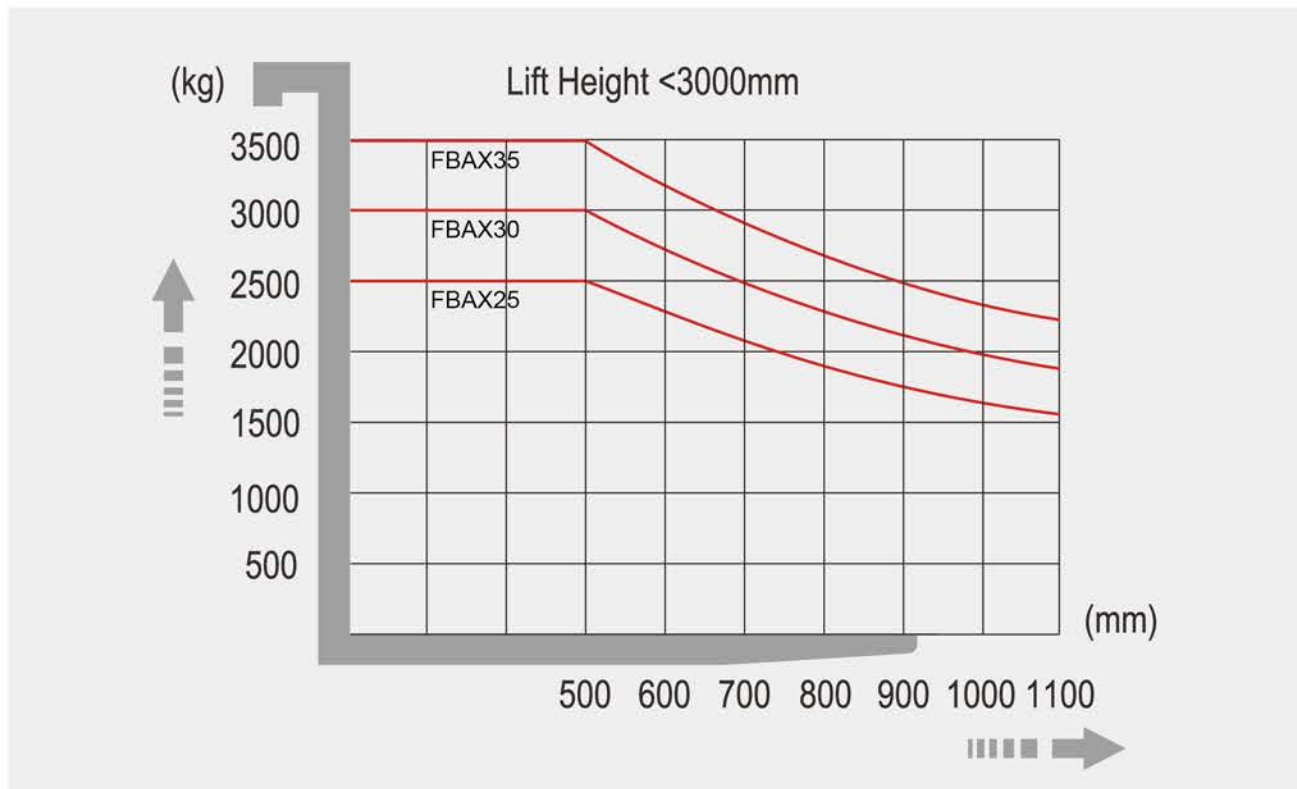
## AX SERIES FBAX30 Electric forklift truck mast

Mast Type	Specification	Maximal lift Height h <sub>3</sub> (mm)	Mast height			Full Free Lift Height h <sub>2</sub>		Load Distance x (mm)	Mast tilt		Load Capacity	
			Lower Height h <sub>1</sub> (mm)	Extended Height h <sub>4</sub>		W/O LBR (mm)	W/ LBR (mm)		Forward (Deg)	Backward (Deg)	Load Center (500mm)	
				W/O LBR (mm)	W/ LBR (mm)						Front Single Tyres (kg)	Front Dual Tyres (kg)
2 LFL mast	M300	3000	2075	3640	4100	165	165	485	6	12	3000	3000
	M330	3300	2225	3940	4400	165	165	485	6	12	3000	3000
	M350	3500	2325	4140	4600	165	165	485	6	12	3000	3000
	M370	3700	2425	4340	4800	165	165	485	6	6	3000	3000
	M400	4000	2625	4640	5100	165	165	485	6	6	3000	3000
	M450	4500	2875	5140	5600	165	165	485	6	6	2600	2800
	M500	5000	3125	5640	6100	165	165	485	6	6	2100	2400
2 FFL mast	M550	5500	3425	6140	6600	165	165	485	3	6	1700	2200
	M600	6000	3675	6640	7100	165	165	485	3	6	1300	2000
	FM300	3000	2075	3650	4100	1425	975	495	6	12	3000	3000
	FM330	3300	2225	3950	4400	1575	1125	495	6	12	3000	3000
3 FFL mast	FM350	3500	2325	4150	4600	1675	1225	495	6	12	3000	3000
	TFM435	4350	2075	4950	5450	1475	975	505	6	6	2800	2900
	TFM450	4500	2125	5100	5600	1525	1025	505	6	6	2500	2700
	TFM480	4800	2225	5400	5900	1625	1125	505	6	6	2250	2450
	TFM500	5000	2325	5600	6100	1725	1225	505	6	6	2000	2300
	TFM550	5500	2490	6100	6600	1880	1380	505	3	6	1600	2050
	TFM600	6000	2675	6600	7100	2075	1575	505	3	6	1200	1900
TFM650	6500	2890	7100	7600	2260	1790	505	3	6	700	1300	

## AX SERIES FBAX35 Electric forklift truck mast

Mast Type	Specification	Maximal lift Height $h_2$ (mm)	Mast height			Full Free Lift Height $h_2$		Load Distance x (mm)	Mast tilt		Load Capacity	
			Lower Height $h_1$ (mm)	Extended Height $h_2$		W/O LBR (mm)	W/ LBR (mm)		Forward (Deg)	Backward (Deg)	Load Center (500mm)	
				W/O LBR (mm)	W/ LBR (mm)						Front Single Tyres (kg)	Front Dual Tyres (kg)
2 LFL mast	M300	3000	2150	3700	4100	170	170	505	6	12	3500	3500
	M330	3300	2300	4000	4400	170	170	505	6	12	3500	3500
	M350	3500	2400	4200	4600	170	170	505	6	12	3500	3500
	M370	3700	2500	4400	4800	170	170	505	6	6	3500	3500
	M400	4000	2700	4700	5100	170	170	505	6	6	3300	3500
	M450	4500	2950	5200	5600	170	170	505	6	6	2900	3100
	M500	5000	3200	5700	6100	170	170	505	6	6	2400	2750
	M550	5500	3500	6200	6600	170	170	505	3	6	1800	2400
2 FFL mast	FM300	3000	2150	3680	4100	1470	1050	515	6	12	3500	3500
	FM330	3300	2300	3980	4400	1620	1200	515	6	12	3500	3500
	FM350	3500	2400	4180	4600	1720	1300	515	6	12	3500	3500
3 FFL mast	TFM435	4350	2150	4990	5450	1510	1050	520	6	6	3100	3350
	TFM450	4500	2200	5140	5600	1560	1100	520	6	6	2800	3000
	TFM480	4800	2300	5440	5900	1660	1200	520	6	6	2500	2750
	TFM500	5000	2400	5640	6100	1760	1300	520	6	6	2300	2600
	TFM550	5500	2565	6140	6600	1915	1455	520	3	6	1700	2200
	TFM600	6000	2750	6640	7100	2110	1650	520	3	6	1300	2100
	TFM650	6500	2965	7100	7600	2290	1830	520	3	6	800	1500

## AX SERIES FBAX25-35 Electric forklift truck mast



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