



# AE Series Electric Forklift

with capacities of 1,500 to 3,500kg

MECANOMOVIL S.L.  
AVDA. REAL MONASTERIO STA. MARIA DE POBLET 66 - QUART DE POBLET 46930 VALENCIA  
TEL. 961 548 527 - comercial2@mecanomovil.es  
www.mecanomovil.es

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ZHEJIANG HANGCHA IMP. & EXP. CO., LTD.

Factory site: 666 Xiangfu Road,  
Hangzhou, Zhejiang, China (311305)

Tel: +86-571-88926735 88926755  
Fax: +86-571-88926789 88132890

sales@hcforklift.com  
www.hcforklift.com



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2015



ISO9001  
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HANGCHA trucks conform to the European Safety Requirements.

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The World of Hangcha  
SINCE 1956

# AE Series Electric Forklift

Independently developed by Hangcha on the basis of more than 30 years of electric forklift research and development and accumulated manufacturing technology, the AE series electric forklifts are a new series of high-efficiency and energy-saving electric counterweight forklifts with a new structure that represents a breakthrough over the traditional design concept. The research and development of control and power systems are innovated and the product exterior, ergonomics, reliability, maintenance and other aspects are optimized, so that the performance of the vehicle is greatly improved.

## Appearance

- / With a profile formed by a combination of straight lines and streamlined curved surfaces, the truck is compact and maneuverable and has simple and sturdy appearance.

## Comfort

- / The cover is sealed with a good effect of rain resistance.
- / The enlarged brake pedal and appropriate regenerative braking function can effectively reduce the driver's fatigue.
- / The wide-view mast with optimized design is unlikely to obstruct the operator's sight. The enlarged opening size of the fork carriage enables a wider view.



## Maintenance

- / The front-opening hood design makes charging and maintenance easier.
- / The electric control parts, fuse, etc. can be accessed easily and maintained without tools.
- / The side-mounted oil tank facilitates liquid level check and oil addition.

## Stability

- / The center of gravity is moved back by placing the battery at the rear of the truck, it can ensure the longitudinal stability.

## Advancement

- / The Y2 (Enpower controller) series uses 80V voltage system, both the traction and oil pump use permanent magnet synchronous motors, which have high efficiency, strong power and low energy consumption.
- / The controller, oil tank and pump motor are all placed at the front to enable small pipeline length and less energy loss.
- / The high-frequency MOSFET integrated controller ensures smooth and accurate traveling and lifting control, and has excellent speed regulation performance, good performance of electronic control matching the motor, functions of regenerative braking, reverse braking and anti-sliding on ramps, etc., and high safety and reliability.

## Safety

- / The optional lowering lock function can improve the safety greatly when the driver leaves the seat.
- / The soft landing and electronic control lifting buffering (Opt.) are all provide to protect goods effectively.
- / The handbrake can be optionally equipped with an alarm buzzer to prompt the driver to pull up the handbrake before leaving the truck.



The truck is ergonomically designed to provide a good view and a large operating space



Both the traction and oil pump adopt permanent magnet synchronous motors for the Enpower controller



The battery can be removed from the rear enables the battery to be replaced more flexibly (Only for the lead-acid battery)



Multifunctional color screen instrument with graphical interface design is simple and intuitive for operator



Battery is placed at the rear of the truck



## Standard Specification

- / Duplex mast
- / Silent gear pump
- / Multi-function color-screen instrument
- / LED headlight
- / Integral rubber pedal pad
- / Dual multi-way valve
- / Stamping front pedal
- / Integral ABS boarding pedal
- / Integral stamped side panel and hood
- / Soft landing
- / Speed mode selection
- / DC-DC converter
- / Emergency power off switch
- / Reverse buzzer
- / Load sensing steering system
- / Traction pin
- / Rearview mirror

## Options

- / Large-capacity battery
- / Charger
- / Left and right rear view mirrors
- / Reverse armrest
- / Widening or heightening load backrest
- / Forks of other lengths
- / Rear work light
- / Front dual tire
- / Super elastic solid tire
- / Non mark solid tire
- / Triple multi-way valve
- / Quadruple multi-way valve
- / Built-in sideshifter
- / Other attachments
- / Maintenance-free lead carbon battery
- / PVC transparent canopy
- / PVC transparent cover plate for the battery lifting port on the overhead guard
- / Front windshield
- / Cab
- / Warning light
- / Blue light
- / OPS system

Lead-acid specification						
Capacity (Ah/5h)	1.5-mini2t 80V (AEY2)	1.5-mini2t 48V (AEJ2/D2/D1)	2.0-2.5t 80V (AEY2)	2.0-2.5t 48V (AEJ2/D2/D1)	3.0-3.5t 80V (AEY2)	3.0-3.5t 80V (AEJ2/D2/D1)
220 (lead acid)	●	—	—	—	—	—
240 (lead acid)	○	—	—	—	—	—
300 (lead acid)	○	—	●	—	—	—
350 (lead acid)	—	—	○	—	—	—
400 (lead acid)	—	—	—	—	●	—
420 (lead acid)	—	●	—	—	—	—
440 (lead acid)	—	—	—	—	○	—
480 (lead acid)	—	—	—	—	○	●
500 (lead acid)	—	○	—	—	—	—
640 (lead acid)	—	—	—	●	—	—
660 (lead acid)	—	—	—	○	—	—

● Std. ○ Opt. — Null.

Lithium specification			
Capacity (Ah/5h)	1.5-mini2t 80V	2.0-2.5t 80V	3.0-3.5t 80V
125 (Lithium)	●	—	—
202 (Lithium)	○	●	—
271 (Lithium)	○	○	●
404 (Lithium)	—	○	○
542 (Lithium)	—	—	○

● Std. ○ Opt. — Null.



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### 1.5t AE Series Mast Specification

Type	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilting range	Capacity(Mast vertical to ground)	
				Without backrest	With backrest	Without backrest	With backrest		Load center@500mm	
				mm	mm	mm	mm	mm	mm	FWD/BWD
Duplex wide view mast	XPD15M200	2000	1475	2538	2955	135	135	6/12	1500	1500
	XPD15M250	2500	1725	3038	3455	135	135	6/12	1500	1500
	XPD15M270	2700	1825	3238	3655	135	135	6/12	1500	1500
	XPD15M300	3000	1975	3538	3955	135	135	6/12	1500	1500
	XPD15M330	3300	2125	3838	4255	135	135	6/12	1500	1500
	XPD15M350	3500	2225	4038	4455	135	135	6/12	1500	1500
	XPD15M360	3600	2325	4138	4555	135	135	6/12	1500	1500
	XPD15M370	3700	2375	4238	4655	135	135	6/12	1500	1500
	XPD15M400	4000	2575	4538	4955	135	135	6/12	1500	1500
	XPD15M430	4300	2725	4838	5255	135	135	6/6	1500	1500
	XPD15M450	4500	2825	5038	5455	135	135	6/6	1500	1500
	XPD15M480	4800	2975	5338	5755	135	135	6/6	1400	1500
XPD15M500	5000	3075	5538	5955	135	135	6/6	1350	1400	
Duplex full-free mast	XPD15U200	2000	1490	2559	2945	931	545	6/6	1500	1500
	XPD15U250	2500	1740	3059	3445	1181	795	6/12	1500	1500
	XPD15U270	2700	1840	3259	3645	1281	895	6/12	1500	1500
	XPD15U300	3000	1990	3559	3945	1431	1045	6/12	1500	1500
	XPD15U330	3300	2140	3859	4245	1581	1195	6/12	1500	1500
	XPD15U350	3500	2240	4059	4445	1681	1295	6/12	1500	1500
	XPD15U360	3600	2290	4159	4545	1731	1345	6/12	1500	1500
	XPD15U370	3700	2340	4259	4645	1781	1395	6/12	1500	1500
Triplex full-free mast	XPD15N430	4300	2040	4869	5255	1481	1095	6/6	1500	1500
	XPD15N450	4500	2090	5069	5455	1531	1145	6/6	1500	1500
	XPD15N480	4800	2240	5369	5755	1681	1295	6/6	1400	1500
	XPD15N500	5000	2340	5569	5955	1781	1395	6/6	1400	1450
	XPD15N550	5500	2540	6069	6455	1981	1595	3/6	1250	1350
	XPD15N600	6000	2790	6600	6955	2200	1845	3/6	1100	1150

# 1.8t AE Series Mast Specification

Type	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilting range	Capacity(Mast vertical to ground)	
				Without backrest	With backrest	Without backrest	With backrest	FWD/BWD	Load center@500mm	
									Single Tire	Double Tire
				mm	mm	mm	mm	(°)	1.8t	1.8t
Duplex wide view mast	XPD18M200	2000	1475	2648	2955	135	135	6/12	1800	1800
	XPD18M250	2500	1725	3148	3455	135	135	6/12	1800	1800
	XPD18M270	2700	1825	3348	3655	135	135	6/12	1800	1800
	XPD18M300	3000	1975	3648	3955	135	135	6/12	1800	1800
	XPD18M330	3300	2125	3948	4255	135	135	6/12	1800	1800
	XPD18M350	3500	2225	4148	4455	135	135	6/12	1800	1800
	XPD18M360	3600	2325	4248	4555	135	135	6/12	1800	1800
	XPD18M370	3700	2375	4348	4655	135	135	6/12	1800	1800
	XPD18M400	4000	2575	4648	4955	135	135	6/12	1800	1800
	XPD18M430	4300	2725	4948	5255	135	135	6/6	1700	1750
	XPD18M450	4500	2825	5148	5455	135	135	6/6	1650	1700
	XPD18M480	4800	2975	5448	5755	135	135	6/6	1600	1650
	XPD18M500	5000	3075	5648	5955	135	135	6/6	1550	1600
	Duplex full-free mast	XPD18U200	2000	1490	2669	2945	821	545	6/6	1800
XPD18U250		2500	1740	3169	3445	1071	795	6/12	1800	1800
XPD18U270		2700	1840	3369	3645	1171	895	6/12	1800	1800
XPD18U300		3000	1990	3669	3945	1321	1045	6/12	1800	1800
XPD18U330		3300	2140	3969	4245	1471	1195	6/12	1800	1800
XPD18U350		3500	2240	4169	4445	1571	1295	6/12	1800	1800
XPD18U360		3600	2290	4269	4545	1621	1345	6/12	1800	1800
Triplex full-free mast	XPD18N430	4300	2040	4979	5255	1371	1095	6/6	1650	1800
	XPD18N450	4500	2090	5179	5455	1421	1145	6/6	1650	1750
	XPD18N480	4800	2240	5479	5755	1571	1295	6/6	1600	1650
	XPD18N500	5000	2340	5679	5955	1671	1395	6/6	1550	1600
	XPD18N550	5500	2540	6179	6455	1871	1595	3/6	1500	1550
XPD18N600	6000	2790	6679	6955	2121	1845	3/6	1300	1400	

# 2.0t/2.5t AE Series Mast Specification

Type	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilting range	Capacity(Mast vertical to ground)			
				Without backrest	With backrest	Without backrest	With backrest	FWD/BWD	Load center@500mm			
									Single Tire	Double Tire	2.0t	2.5t
				mm	mm	mm	mm	(°)	kg	kg		
Duplex wide view mast	XPD25M200	2000	1501	2626	3046	140	140	6/6	2000	2500	2000	2500
	XPD25M250	2500	1751	3126	3546	140	140	6/12	2000	2500	2000	2500
	XPD25M270	2700	1851	3326	3746	140	140	6/12	2000	2500	2000	2500
	XPD25M300	3000	2001	3626	4046	140	140	6/12	2000	2500	2000	2500
	XPD25M330	3300	2151	3926	4346	140	140	6/12	2000	2500	2000	2500
	XPD25M350	3500	2251	4126	4546	140	140	6/12	2000	2500	2000	2500
	XPD25M360	3600	2351	4226	4646	140	140	6/12	2000	2500	2000	2500
	XPD25M370	3700	2401	4326	4746	140	140	6/12	2000	2500	2000	2500
	XPD25M400	4000	2601	4626	5046	140	140	6/12	2000	2500	2000	2500
	XPD25M430	4300	2751	4926	5346	140	140	6/6	2000	2500	2000	2500
	XPD25M450	4500	2851	5126	5546	140	140	6/6	2000	2450	2000	2500
	XPD25M470	4700	2951	5326	5746	140	140	6/6	1950	2350	2000	2450
	XPD25M480	4800	3001	5426	5846	140	140	6/6	1950	2350	2000	2450
	XPD25M500	5000	3101	5626	6046	140	140	6/6	1850	2300	1950	2350
Duplex full-free mast	XPD25U200	2000	1516	2749	3046	842	470	6/6	2000	2500	2000	2500
	XPD25U250	2500	1766	3173.5	3546	1092	720	6/12	2000	2500	2000	2500
	XPD25U270	2700	1866	3373.5	3746	1192	820	6/12	2000	2500	2000	2500
	XPD25U300	3000	2016	3673.5	4046	1342	970	6/12	2000	2500	2000	2500
	XPD25U330	3300	2166	3973.5	4346	1492	1120	6/12	2000	2500	2000	2500
	XPD25U350	3500	2266	4173.5	4546	1592	1220	6/12	2000	2500	2000	2500
	XPD25U360	3600	2316	4273.5	4646	1642	1270	6/12	2000	2500	2000	2500
	XPD25U370	3700	2366	4373.5	4746	1692	1320	6/12	2000	2500	2000	2500
	XPD25N400	4000	1966	4670.5	5046	1195	920	6/6	2000	2500	2000	2500
	XPD25N430	4300	2066	4970.5	5346	1295	1020	6/6	2000	2450	2000	2500
	XPD25N450	4500	2116	5170.5	5546	1345	1070	6/6	2000	2350	2000	2450
	XPD25N470	4700	2216	5370.5	5746	1445	1170	6/6	1950	2250	2000	2350
	XPD25N480	4800	2266	5470.5	5846	1495	1220	6/6	1950	2250	2000	2350
	XPD25N500	5000	2366	5670.5	6046	1595	1320	6/6	1850	2150	1950	2250
XPD25N550	5500	2566	6170.5	6546	1795	1520	3/6	1750	2050	1900	2100	
XPD25N600	6000	2816	6670.5	7046	2045	1770	3/6	1550	1850	1800	1950	
XPD25N650	6500	3016	7170.5	7546	2245	1970	3/6	1300	1600	1550	1800	
XPD25N700	7000	3266	7766	8046	2695	2220	3/6	1000	1300	1150	1450	



# Short Wheelbase 2.0t AE Series Mast Specification

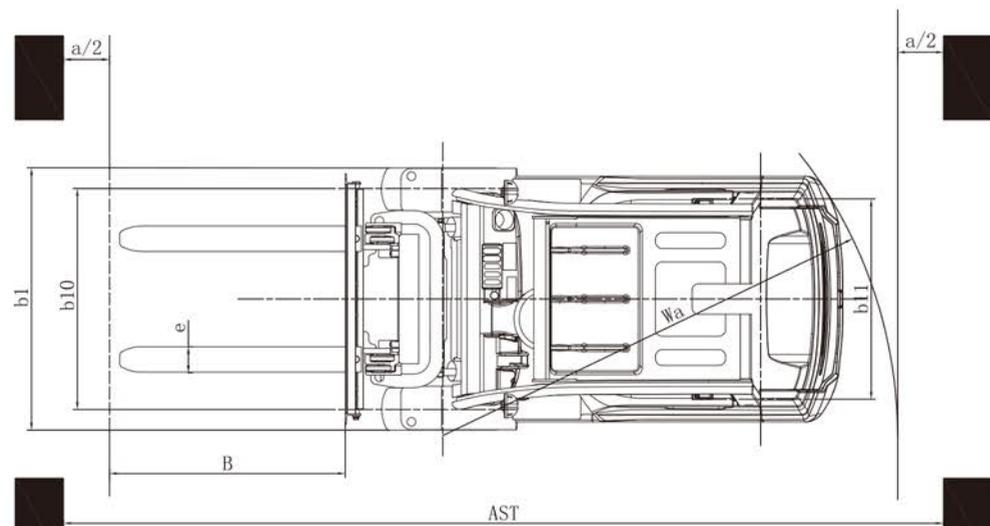
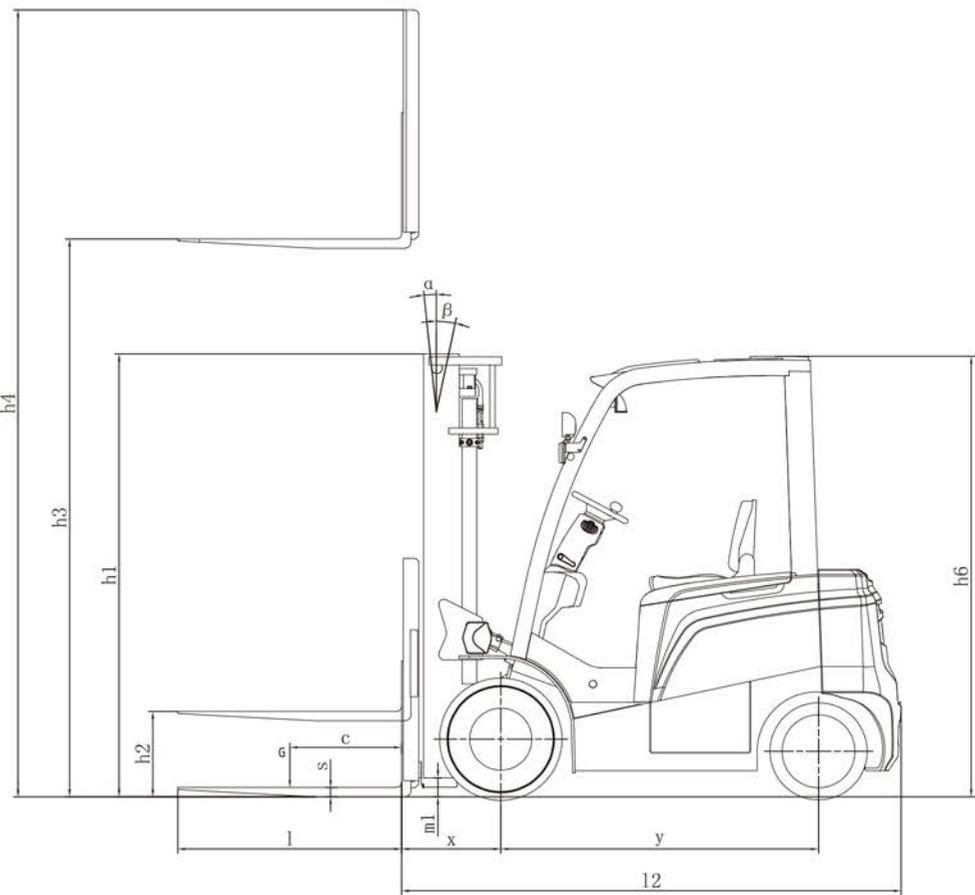
Type	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilting range	Capacity(Mast vertical to ground)	
				Without backrest	With backrest	Without backrest	With backrest	FWD/BWD	Load center@500mm	
									Short Wheelbase 2.0t	Short Wheelbase 2.0t
				mm	mm	mm	mm	(°)	kg	kg
Duplex wide view mast	APYX20M200	2000	1475	2648	2955	140	140	6/12	2000	2000
	APYX20M250	2500	1725	3148	3455	140	140	6/12	2000	2000
	APYX20M270	2700	1825	3348	3655	140	140	6/12	2000	2000
	APYX20M300	3000	1975	3648	3955	140	140	6/12	2000	2000
	APYX20M330	3300	2125	3948	4255	140	140	6/12	2000	2000
	APYX20M350	3500	2225	4148	4455	140	140	6/12	2000	2000
	APYX20M360	3600	2325	4248	4555	140	140	6/12	2000	2000
	APYX20M370	3700	2375	4348	4655	140	140	6/12	2000	2000
	APYX20M400	4000	2575	4648	4955	140	140	6/12	2000	2000
	APYX20M430	4300	2725	4948	5255	140	140	6/6	1900	2000
	APYX20M450	4500	2825	5148	5455	140	140	6/6	1850	1900
	APYX20M480	4800	2975	5448	5755	140	140	6/6	1800	1850
	APYX20M500	5000	3075	5648	5955	140	140	6/6	1700	1750
	Duplex full-free mast	APYX20U200	2000	1490	2669	2945	826	550	6/6	2000
APYX20U250		2500	1740	3169	3445	1076	800	6/12	2000	2000
APYX20U270		2700	1840	3369	3645	1176	900	6/12	2000	2000
APYX20U300		3000	1990	3669	3945	1326	1050	6/12	2000	2000
APYX20U330		3300	2140	3969	4245	1476	1200	6/12	2000	2000
APYX20U350		3500	2240	4169	4445	1576	1300	6/12	2000	2000
APYX20U360		3600	2290	4269	4545	1626	1350	6/12	2000	2000
Triplex full-free mast	APYX20N430	4300	2040	4979	5255	1376	1100	6/6	1850	1950
	APYX20N450	4500	2090	5179	5455	1426	1150	6/6	1800	1900
	APYX20N480	4800	2240	5479	5755	1576	1300	6/6	1750	1850
	APYX20N500	5000	2340	5679	5955	1676	1400	6/6	1700	1800
	APYX20N550	5500	2540	6179	6455	1876	1600	3/6	1650	1750
	APYX20N600	6000	2790	6679	6955	2126	1850	3/6	1450	1500

# 3.0t/3.5t AE Series Mast Specification

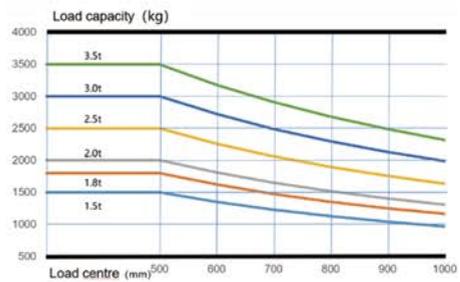
Type	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilting range	Capacity(Mast vertical to ground)			
				Without backrest	With backrest	Without backrest	With backrest	FWD/BWD	Load center@500mm			
									3.0t	3.5t	3.0t	3.5t
				mm	mm	mm	mm	(°)	kg	kg	kg	kg
Duplex wide view mast	APY35M200	2000	1665	2856	3159	145	150	6/6	3000	3500	3000	3500
	APY35M250	2500	1915	3356	3659	145	150	6/12	3000	3500	3000	3500
	APY35M270	2700	2015	3556	3859	145	150	6/12	3000	3500	3000	3500
	APY35M300	3000	2165	3856	4159	145	150	6/12	3000	3500	3000	3500
	APY35M330	3300	2315	4156	4459	145	150	6/12	3000	3500	3000	3500
	APY35M360	3600	2465	4456	4759	145	150	6/12	3000	3500	3000	3500
	APY35M400	4000	2									







$AST = a + Wa + x + B$  a: (200mm)



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