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ISO14001
ISO14001:2015



ISO9001
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HANGCHA trucks conform
to the European Safety
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AE Series Electric Forklift

with capacities of 1,500 to 3,500kg

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/D4/D1)	2.0-2.5t 80V (AEY2)	2.0-2.5t 48V (AEJ2/D4/D1)	3.0-3.5t 80V (AEY2)	3.0-3.5t 80V (AEJ2/D4/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)	●	—	—
228 (Lithium)	○	●	—
302 (Lithium)	○	○	●
456 (Lithium)	—	○	○
604 (Lithium)	—	—	○

● Std. ○ Opt. — Null.





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	FWD/BWD	Load center@500mm	
		Single Tire	Double Tire							
		1.5t	1.5t							
		mm	mm	mm	mm	mm	mm	(°)	kg	kg
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	XPD15U400	4000	2540	4559	4945	1981	1595	6/12	1500	1500
	XPD15N400	4000	1940	4569	4955	1381	995	6/6	1500	1500
	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	mm	mm	(°)	kg	kg
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	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
	XPD18U370	3700	2340	4369	4645	1671	1395	6/12	1800	1800
	XPD18U400	4000	2540	4669	4945	1871	1595	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

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	
									Single Tire	Double Tire
		mm	mm	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
Duplex full-free mast	APYX20U200	2000	1490	2669	2945	826	550	6/6	2000	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
	APYX20U370	3700	2340	4369	4645	1676	1400	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

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	2.0t	2.5t
		mm	mm	mm	mm	mm	mm	(°)	kg	kg	kg	kg
Duplex wide view mast	XP025M200	2000	1501	2626	3046	140	140	6/6	2000	2500	2000	2500
	XP025M250	2500	1751	3126	3546	140	140	6/12	2000	2500	2000	2500
	XP025M270	2700	1851	3326	3746	140	140	6/12	2000	2500	2000	2500
	XP025M300	3000	2001	3626	4046	140	140	6/12	2000	2500	2000	2500
	XP025M330	3300	2151	3926	4346	140	140	6/12	2000	2500	2000	2500
	XP025M350	3500	2251	4126	4546	140	140	6/12	2000	2500	2000	2500
	XP025M360	3600	2351	4226	4646	140	140	6/12	2000	2500	2000	2500
	XP025M370	3700	2401	4326	4746	140	140	6/12	2000	2500	2000	2500
	XP025M400	4000	2601	4626	5046	140	140	6/12	2000	2500	2000	2500
	XP025M430	4300	2751	4926	5346	140	140	6/6	2000	2500	2000	2500
	XP025M450	4500	2851	5126	5546	140	140	6/6	2000	2450	2000	2500
	XP025M470	4700	2951	5326	5746	140	140	6/6	1950	2350	2000	2450
	XP025M480	4800	3001	5426	5846	140	140	6/6	1950	2350	2000	2450
	XP025M500	5000	3101	5626	6046	140	140	6/6	1850	2300	1950	2350
Duplex full-free mast	XP025U200	2000	1516	2749	3046	842	470	6/6	2000	2500	2000	2500
	XP025U250	2500	1766	3173.5	3546	1092	720	6/12	2000	2500	2000	2500
	XP025U270	2700	1866	3373.5	3746	1192	820	6/12	2000	2500	2000	2500
	XP025U300	3000	2016	3673.5	4046	1342	970	6/12	2000	2500	2000	2500
	XP025U330	3300	2166	3973.5	4346	1492	1120	6/12	2000	2500	2000	2500
	XP025U350	3500	2266	4173.5	4546	1592	1220	6/12	2000	2500	2000	2500
	XP025U360	3600	2316	4273.5	4646	1642	1270	6/12	2000	2500	2000	2500
	XP025U370	3700	2366	4373.5	4746	1692	1320	6/12	2000	2500	2000	2500
Triplex full-free mast	XP025N400	4000	1966	4670.5	5046	1195	920	6/6	2000	2500	2000	2500
	XP025N430	4300	2066	4970.5	5346	1295	1020	6/6	2000	2450	2000	2500
	XP025N450	4500	2116	5170.5	5546	1345	1070	6/6	2000	2350	2000	2450
	XP025N470	4700	2216	5370.5	5746	1445	1170	6/6	1950	2250	2000	2350
	XP025N480	4800	2266	5470.5	5846	1495	1220	6/6	1950	2250	2000	2350
	XP025N500	5000	2366	5670.5	6046	1595	1320	6/6	1850	2150	1950	2250
	XP025N550	5500	2566	6170.5	6546	1795	1520	3/6	1750	2050	1900	2100
	XP025N600	6000	2816	6670.5	7046	2045	1770	3/6	1550	1850	1800	1950
	XP025N650	6500	3016	7170.5	7546	2245	1970	3/6	/	/	1550	1800
	XP025N700	7000	3266	7766	8046	2695	2220	3/6	/	/	1150	1450

3.0t/3.5t AE Series Mast Specification

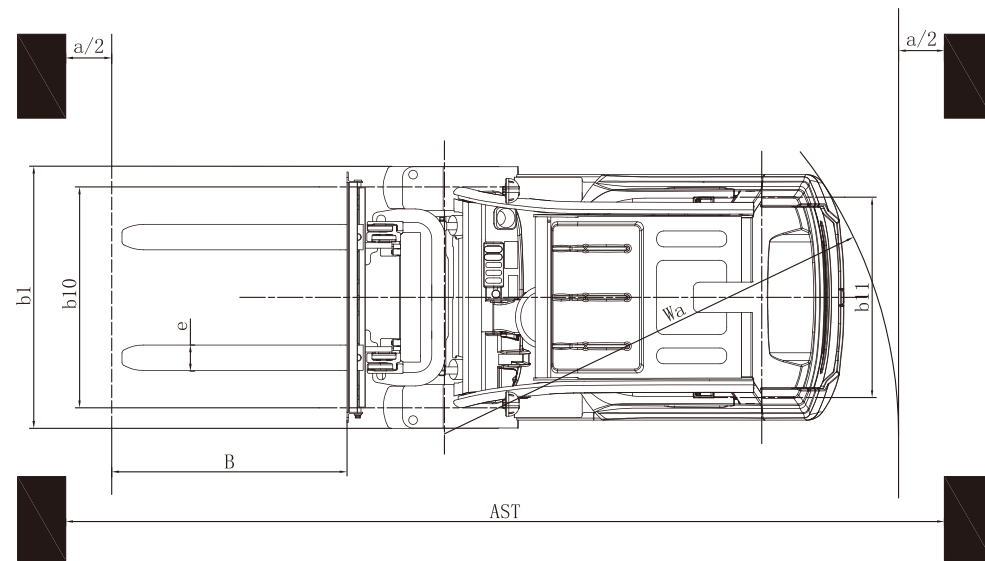
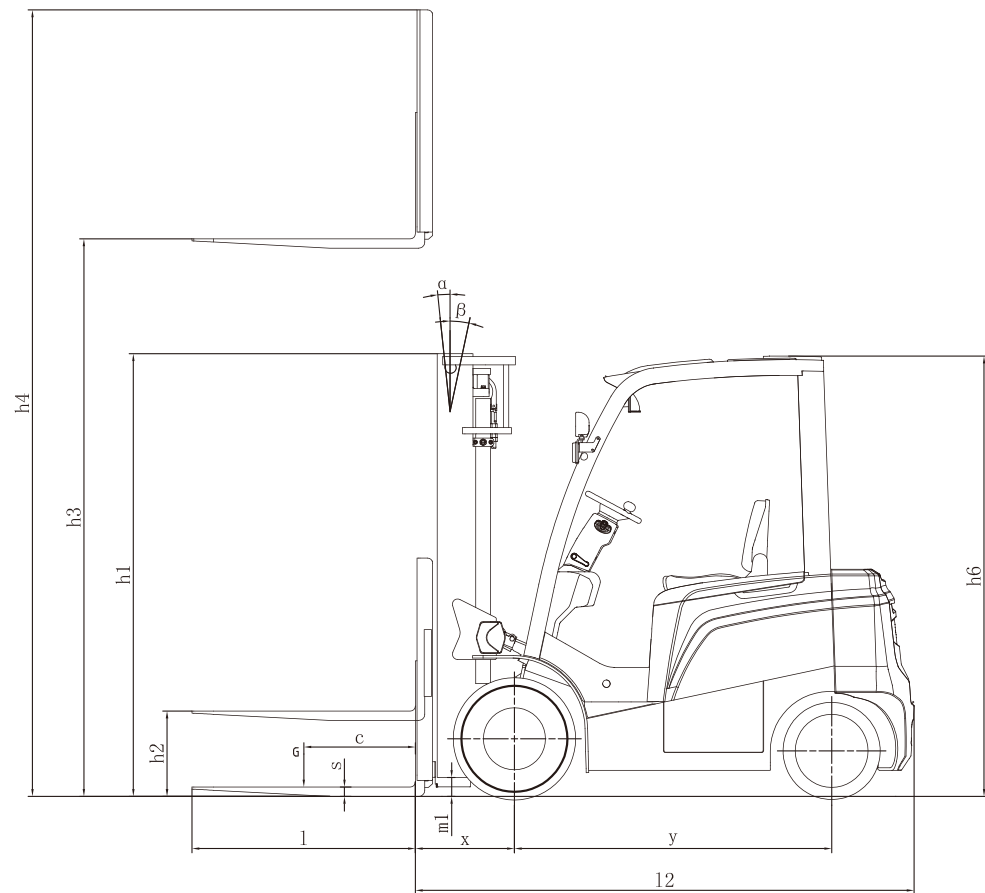
Type	Model	Lifting height	Lowered overall height	Overall height		Free lifting height		Tilting range	Capacity(Mast vertical to ground)			
				Without backrest	With backrest	Without backrest	With backrest	FWD/BWD	Load center@500mm			
									Single Tire		Double Tire	
									3.0t	3.5t	3.0t	3.5t
		mm	mm	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	2765	4856	5159	145	150	6/12	3000	3500	3000	3500
	APY35M430	4300	2915	5156	5459	145	150	6/6	3000	3400	3000	3500
	APY35M450	4500	3015	5356	5659	145	150	6/6	3000	3300	3000	3400
	APY35M480	4800	3165	5656	5959	145	150	6/6	2950	3200	3000	3300
Duplex full-free mast	APY35U250	2500	1930	3405	3659	1025	771	6/12	3000	3500	3000	3500
	APY35U270	2700	2030	3605	3859	1125	871	6/12	3000	3500	3000	3500
	APY35U300	3000	2180	3905	4159	1275	1021	6/12	3000	3500	3000	3500
	APY35U330	3300	2380	4205	4459	1425	1171	6/12	3000	3500	3000	3500
Triplex full-free mast	APY35U360	3600	2480	4505	4759	1575	1321	6/12	3000	3500	3000	3500
	APY35U400	4000	2730	4905	5159	1825	1571	6/12	3000	3500	3000	3500
	APY35N400	4000	2065	4905	5159	1160	906	6/6	3000	3400	3000	3500
	APY35N430	4300	2165	5205	5459	1260	1006	6/6	3000	3300	3000	3400
	APY35N450	4500	2215	5505	5659	1310	1056	6/6	3000	3200	3000	3300
	APY35N470	4700	2315	5605	5859	1410	1156	6/6	2900	3100	2950	3200
	APY35N480	4800	2365	5705	5959	1460	1206	6/6	2900	3100	2950	3200
	APY35N500	5000	2465	5905	6159	1560	1306	6/6	2850	3100	2900	3200
	APY35N550	5500	2665	6405	6659	1760	1506	3/6	2670	3000	2750	3100
	APY35N600	6000	2915	6905	7159	2010	1756	3/6	2350	2650	2500	2800
	APY35N650	6500	3165	6905	7659	2260	2006	3/6	/	/	2200	2400
	APY35N700	7000	3415	7905	8159	2510	2256	3/6	/	/	1850	2050

AE Series Lead-acid Battery Forklift

Distinguishing mark		Manufacturer (abbreviation)		HANGCHA GROUP CO.,LTD.																											
	1.1	Manufacturers type designation		CPD15-AEY2	CPD15-AEj2/D4*	CPD15-AED1	CPD18-AEY2	CPD18-AEj2/D4*	CPD18-AED1	CPD20-AEY2	CPD20-AEXj2/D4*	CPD20-AEXD1	CPD20-AEY2	CPD20-AEj2/D4*	CPD20-AED1	CPD25-AEY2	CPD25-AEj2/D4*	CPD25-AED1	CPD30-AEY2	CPD30-AEj2/D4*	CPD30-AED1	CPD35-AEY2	CPD35-AEj2/D4*	CPD35-AED1							
	1.2	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric			Electric			Electric			Electric			Electric			Electric			Electric									
	1.3	Operator type: hand, pedestrian, standing, seated, order-picker		Seated			Seated			Seated			Seated			Seated			Seated			Seated									
	1.4	Load capacity/rated load	Q (kg)	1500			1800			2000			2000			2500			3000			3500									
	1.5	Load centre distance	c (mm)	500			500			500			500			500			500			500									
	1.6	Load distance, centre of drive axle to fork	x (mm)	405			410			415			444			444			477.5			482.5									
	1.7	Wheelbase	y (mm)	1430			1430			1430			1520			1520			1650			1650									
Weight	2.1	Service Weight	kg	2760	2890		3040	3040		3300	3270		3480	3660		4000	3950		4430	4650		4950	5050								
	2.2	Axle loading, laden front/rear	kg	3800/500		3790/600		4290/550		4310/530		4700/600		4730/540		4820/660		4880/780		5800/700		5780/660		6630/800		6730/920		7590/860		7650/900	
	2.3	Axle loading, unladen front/rear	kg	1370/1430		1330/1560		1350/1560		1360/1680		1420/1880		1450/1820		1580/1900		1640/2020		1770/2230		1730/2220		1890/2540		1950/2700		2030/2920		2100/2950	
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic			Pneumatic			Pneumatic			Pneumatic			Pneumatic			Pneumatic			Pneumatic									
	3.2	Tyre size, front		6.00-9NHS-10PR			21X8-9-16PR			21X8-9-16PR			23X9-10-16PR			23X9-10-16PR			28X9-15-14PR			28X9-15-14PR									
	3.3	Tyre size, rear		5.00-8NHS-10PR			5.00-8NHS-10PR			5.00-8NHS-10PR			18X7-8-14PR			18X7-8-14PR			18X7-8-16PR			18X7-8-16PR									
	3.4	Wheels, number front rear (X = driven wheels)		2x/2			2x/2			2x/2			2x/2			2x/2			2x/2			2x/2									
	3.5	Tread, front	b10 (mm)	888			938			938			1058			1058			1009			1009									
	3.6	Tread, rear	b11 (mm)	897.5			897.5			897.5			960			960			960			960									
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/12			6/12			6/12			6/12			6/12			6/12			6/12									
	4.2	Height, mast lowered	h1 (mm)	1975			1975			1975			2001			2001			2165			2165									
	4.3	Free lift	h2 (mm)	135			135			140			140			140			145			145									
	4.4	Lift	h3 (mm)	3000			3000			3000			3000			3000			3000			3000									
	4.5	Height, mast extended	h4 (mm)	3955			3955			3955			4040			4040			4159			4159									
	4.6	Height of overhead guard STD.	h6 (mm)	2080			2080			2080			2100			2100			2178			2178									
	4.7	Seat height/stand height	h7 (mm)	1090			1090			1090			1115			1115			1182			1182									
	4.8	Coupling height	h10 (mm)	285			285			285			308			308			317			317									
	4.9	Overall length	l1 (mm)	3125			3130			3135			3430			3430			3662			3662									
	4.10	Length to face of forks	l2 (mm)	2205			2210			2215			2360			2360			2587			2592									
	4.11	Overall width	b1(mm)	1120			1138			1138			1260			1260			1241			1241									
	4.12	Fork dimensions	s/e/l (mm)	35×100×920			35×100×920			40×100×920			40x122x1070			40x122x1070			45x122x1070			50x122x1070									
	4.13	Fork carriage DIN 15173 --- ISO 2328, class/type A,B		ISO 2328 2A			ISO 2328 2A			ISO 2328 2A			ISO 2328 2A			ISO 2328 2A			ISO 2328 3A			ISO 2328 3A									
	4.14	Fork-carriage width	b3 (mm)	1000			1000			1000			1100			1100			1100			1100									
	4.15	Distance between fork-arms	b5 (mm)	240/1000			240/1000			240/1000			290/1100			290/1100			290/1100			290/1100									
	4.16	Ground clearance, laden, below mast	m1 (mm)	95			95			95			120			120			135			135									
	4.17	Ground clearance, centre of wheelbase	m2 (mm)	100			100			100			125			125			134			134									
	4.18	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	3655			3660			3660			3794			3794			4057.5			4062.5									
	4.19	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	3855			3860			3860			3994			3994			4257.5			4262.5									
	4.20	Turning radius	Wa (mm)	2050			2050			2050			2150			2150			2380			2380									
Performance data	5.1	Travel speed, laden/unladen	km/h	13.5/14			13.5/14			13.5/14			14/14			14/14			14/14			14/14									
	5.2	Lift speed, laden/unladen	mm/s	280/430	280/430	250/430	280/430	280/430	250/430	280/430	280/430	250/430	280/430	280/430	250/430	280/430	280/430	250/430	280/400	280/400	250/400	280/400	280/400	250/400							
	5.3	Lowering speed, laden/unladen	mm/s	500/430			500/440			500/440			500/430			500/440			470/420			470/420									
	5.5	Max. Drawbar pull, laden/unladen	N	7000	7000		7000	7000		7000	7000		11000	11000		11000	11000		13000	13000		13000	13000								
	5.7	Max. gradeability, laden/unladen	%	15/15			15/15			15/15			15/15			15/15			15/15			15/13		15/15							
	5.9	Service brake		Hydraulic			Hydraulic			Hydraulic			Hydraulic			Hydraulic			Hydraulic			Hydraulic									
	5.10	Parking brake		Mechanical			Mechanical			Mechanical			Mechanical			Mechanical			Mechanical			Mechanical									
Electric-engine	6.1	Drive motor rating S2 60 min	kW	6AC	8AC		6AC	8AC		6AC	8AC		9AC	11AC		9AC	11AC		11AC	15AC		11AC	15AC								
	6.2	Lift motor rating at S3 15%	kW	5AC	8.6AC	8.2DC	5AC	8.6AC	8.2DC	5AC	8.6AC	8.2DC	7AC	8.6AC	8.6DC	7AC	8.6AC	8.6DC	8AC	10AC	10DC	8AC	10AC	10DC							
	6.3	Battery acc. to DIN 43 531/35/36 A,B,C, no		no			no			no			no			no			no			no									
	6.4	Battery voltage, nominal capacity K5	V/Ah	80/220	48/420		80/220	48/420		80/220	48/420		80/300	48/640		80/300	48/640		80/400	80/480		80/400	80/480								
	6.5	Battery weight	kg	700	735		700	735		700	735		880	1000		880	1000		1080	1250		1080	1250								
	6.6	Battery dimensions	mm	812x920x483	812x920x483		812x920x483	812x920x483		812x920x483	812x920x483		852×1035×483	852x1035x513		852×1035×483	852x1035x513		825×1165×543	825×1165×543		825×1165×543	825×1165×543								
	7.1	Type of drive control		MOSFET/AC			MOSFET/AC			MOSFET/AC			MOSFET/AC			MOSFET/AC			MOSFET/AC			MOSFET/AC									
	7.2	Manufacturer	Y2	Enpower	/		Enpower	/		Enpower	/		Enpower	/		Enpower	/		Enpower	/		Enpower	/								
			J2	/	HANGCHA		/	HANGCHA		/	HANGCHA		/	HANGCHA		/	HANGCHA		/	HANGCHA											
			D1、D2	/	INMOTION		/	INMOTION		/	INMOTION		/	INMOTION		/	INMOTION		/	INMOTION											
	7.3	Model	Y2	MC3336-A850	/		MC3336-A850	/		MC3336-A850	/		MC3336-A850	/		MC3336-A850	/		MC3336-A850	/		MC3336-A850	/								
			J2	/	HC-B1		/	HC-B1		/	HC-B1		/	HC-B2;HC-B1		/	HC-B2;HC-B1		/	HC-C3;HC-C2		/	HC-C3;HC-C2								
			D2	/	ACS48S-350C-35P;ACS48S-350C-23P		/	ACS48S-350C-35P;ACS48S-350C-23P		/	ACS48S-350C-35P;ACS48S-350C-23P		/	ACS48S+450C-35P;ACS48S-350C-23P		/	ACS48S+450C-35P;ACS48S-350C-23P		/	ACS80M-440C-35P;ACS80M-330C-23P		/	ACS80M-440C-35P;ACS80M-330C-23P								
			D1	/	ACS48S-350C-35P;HP 48/350		/	ACS48S-350C-35P;HP 48/350		/	ACS48S-350C-35P;HP 48/350		/	ACS48S+450C-35P;HP 48/500		/	ACS48S+450C-35P;HP 48/500		/	ACS80L-440C-35P;HP 80/500		/	ACS80L-440C-35P;HP 80/500								
	Addition data	8.1		MPa	18.5			18.5			18.5			18.5			18.5			18.5			18.5								
		8.4	Towing coupling, type DIN		Φ 24 Pin			Φ 24 Pin			Φ 24 Pin			Φ 24 Pin			Φ 24 Pin			Φ 24 Pin			Φ 24 Pin								

AE Series Lithium Battery Forklift

Distinguishing mark		Manufacturer (abbreviation)		HANGCHA GROUP CO.,LTD.																											
	1.1	Manufacturers type designation		CPD15-AEY2-I*	CPD15-AEj2/D4-I*	CPD15-AED1-I	CPD18-AEY2-I*	CPD18-AEj2/D4-I*	CPD18-AED1-I	CPD20-AEYX2-I*	CPD20-AEXj2/D4-I*	CPD20-AEXD1-I	CPD20-AEY2-I*	CPD20-AEj2/D4-I*	CPD20-AED1-I	CPD25-AEY2-I*	CPD25-AEj2/D4-I*	CPD25-AED1-I	CPD30-AEY2-I*	CPD30-AEj2/D4-I*	CPD30-AED1-I	CPD35-AEY2-I*	CPD35-AEj2/D4-I*	CPD35-AED1-I							
	1.2	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric			Electric			Electric			Electric			Electric			Electric			Electric									
	1.3	Operator type: hand, pedestrian, standing, seated, order-picker		Seated			Seated			Seated			Seated			Seated			Seated			Seated									
	1.4	Load capacity/rated load	Q (kg)	1500			1800			2000			2000			2500			3000			3500									
	1.5	Load centre distance	c (mm)	500			500			500			500			500			500			500									
	1.6	Load distance, centre of drive axle to fork	x (mm)	405			410			415			444			444			477.5			482.5									
	1.7	Wheelbase	y (mm)	1430			1430			1430			1520			1520			1650			1650									
Weight	2.1	Service Weight	kg	2630	2700		2910	2850		3150	3080		3230	3465		3750	3750		4230	4445		4750	4765								
	2.2	Axle loading, laden front/rear	kg	3650/480		3600/600		4190/520		4110/540		4600/550		4530/550		4630/600		4715/750		5620/630		5600/650		6470/760		6560/885		7430/820		7445/820	
	2.3	Axle loading, unladen front/rear	kg	1210/1420		1150/1550		1240/1670		1180/1670		1360/1790		1280/1800		1390/1840		1475/1990		1560/2190		1550/2200		1680/2550		1785/2660		1850/2900		1855/2910	
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic			Pneumatic			Pneumatic			Pneumatic			Pneumatic			Pneumatic			Pneumatic									
	3.2	Tyre size, front		6.00-9NHS-10PR			21x8-9-16PR			21x8-9-16PR			23x9-10-16PR			23x9-10-16PR			28x9-15-14PR			28x9-15-14PR									
	3.3	Tyre size, rear		5.00-8NHS-10PR			5.00-8NHS-10PR			5.00-8NHS-10PR			18x7-8-14PR			18x7-8-14PR			18x7-8-16PR			18x7-8-16PR									
	3.4	Wheels, number front rear (X = driven wheels)		2x/2			2x/2			2x/2			2x/2			2x/2			2x/2			2x/2									
	3.5	Tread, front	b10 (mm)	888			938			938			1058			1058			1009			1009									
	3.6	Tread, rear	b11 (mm)	897.5			897.5			897.5			960			960			960			960									
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	6/12			6/12			6/12			6/12			6/12			6/12			6/12									
	4.2	Height, mast lowered	h1 (mm)	1975			1975			1975			2001			2001			2165			2165									
	4.3	Free lift	h2 (mm)	135			135			135			140			140			145			145									
	4.4	Lift	h3 (mm)	3000			3000			3000			3000			3000			3000			3000									
	4.5	Height, mast extended	h4 (mm)	3955			3955			3955			4040			4040			4159			4159									
	4.6	Height of overhead guard STD.	h6 (mm)	2080			2080			2080			2100			2100			2178			2178									
	4.7	Seat height/stand height	h7 (mm)	1090			1090			1090			1115			1115			1182			1182									
	4.8	Coupling height	h10 (mm)	285			285			285			308			308			317			317									
	4.9	Overall length	l1 (mm)	3125			3130			3135			3430			3430			3662			3662									
	4.10	Length to face of forks	l2 (mm)	2205			2210			2215			2360			2360			2587			2592									
	4.11	Overall width	b1(mm)	1120			1120			1120			1260			1260			1241			1241									
	4.12	Fork dimensions	s/e/l (mm)	35×100×920			35×100×920			40×100×920			40x122x1070			40x122x1070			45x122x1070			50x122x1070									
	4.13	Fork carriage DIN 15173 --- ISO 2328, class/type A,B		ISO 2328 2A			ISO 2328 2A			ISO 2328 2A			ISO 2328 2A			ISO 2328 2A			ISO 2328 3A			ISO 2328 3A									
	4.14	Fork-carriage width	b3 (mm)	1000			1000			1000			1100			1100			1100			1100									
	4.15	Distance between fork-arms	b5 (mm)	240/1000			240/1000			240/1000			290/1100			290/1100			290/1100			290/1100									
	4.16	Ground clearance, laden, below mast	m1 (mm)	95			95			95			120			120			135			135									
	4.17	Ground clearance, centre of wheelbase	m2 (mm)	100			100			100			125			125			134			134									
	4.18	Aisle width for pallets 1000 × 1200 crossways	Ast (mm)	3655			3660			3660			3794			3794			4057.5			4062.5									
	4.19	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	3855			3860			3860			3994			3994			4257.5			4262.5									
	4.20	Turning radius	Wa (mm)	2050			2050			2050			2150			2150			2380			2380									
Performance data	5.1	Travel speed, laden/unladen	km/h	13.5/14			13.5/14			13.5/14			14/14			14/14			14/14			14/14									
	5.2	Lift speed, laden/unladen	mm/s	280/430	280/430	250/430	280/430	280/430	250/430	280/430	280/430	250/430	280/430	280/430	250/430	280/430	280/430	250/430	280/400	280/400	250/400	280/400	280/400	250/400							
	5.3	Lowering speed, laden/unladen	mm/s	500/430			500/440			500/440			500/430			500/440			470/420			470/420									
	5.5	Max. Drawbar pull, laden/unladen	N	7000	7000		7000	7000		7000	7000		11000	11000		11000	11000		13000	13000		13000	13000								
	5.7	Max. gradeability, laden/unladen	%	15/15			15/15			15/15			15/15			15/15			15/15			13/15		15/15							
	5.9	Service brake		Hydraulic			Hydraulic			Hydraulic			Hydraulic			Hydraulic			Hydraulic			Hydraulic									
	5.10	Parking brake		Mechanical			Mechanical			Mechanical			Mechanical			Mechanical			Mechanical			Mechanical									
Electric-engine	6.1	Drive motor rating S2 60 min	kW	6AC	8AC		6AC	8AC		6AC	8AC		9AC	11AC		9AC	11AC		11AC	15AC		11AC	15AC								
	6.2	Lift motor rating at S3 15%	kW	5AC	8.6AC	8.2DC	5AC	8.6AC	8.2DC	5AC	8.6AC	8.2DC	7AC	8.6AC	8.6DC	7AC	8.6AC	8.6DC	8AC	10AC	10DC	8AC	10AC	10DC							
	6.4	Battery voltage, nominal capacity K5	V/Ah	80/125			80/125			80/125			80/228			80/228			80/302			80/302									
	6.5	Battery weight	kg	≥150kg			≥150kg			≥150kg			230			230			270			270									
Addition data	7.1	Type of drive control		MOSFET/AC			MOSFET/AC			MOSFET/AC	MOSFET/AC		MOSFET/AC	MOSFET/AC		MOSFET/AC	MOSFET/AC		MOSFET/AC	MOSFET/AC		MOSFET/AC	MOSFET/AC								
	7.2	Manufacturer		Enpower	INMOTION		Enpower	INMOTION		Enpower	INMOTION		Enpower	INMOTION		Enpower	INMOTION		Enpower	INMOTION		Enpower	INMOTION								
	7.3	Model	Y2-I	MC3336-A850	/		MC3336-A850	/		MC3336-A850	/		MC3336-A850	/		MC3336-A850	/		MC3336-A850	/		MC3336-A850	/								
			D2-I	/	ACS805-220C-35P;ACS805-220C-23P		/	ACS805-220C-35P;ACS805-220C-23P		/	ACS805-220C-35P;ACS805-220C-23P		/	ACS80M-330C-35P;ACS805-220C-23P		/	ACS80M-330C-35P;ACS80M-330C-23P		/	ACS80M-440C-35P;ACS80M-330C-23P		/	ACS80M-440C-35P;ACS80M-330C-23P								
			D1-I	/	ACS805-220C-35P;HP 80/500		/	ACS805-220C-35P;HP 80/500		/	ACS805-220C-35P;HP 80/500		/	ACS80M-330C-35P;HP 80/500		/	ACS80M-330C-35P;HP 80/500		/	ACS80L-440C-35P;HP 80/500		/	ACS80L-440C-35P;HP 80/500								
	8.1		MPa	18.5			18.5			18.5			18.5			18.5			18.5			18.5									
8.4	Towing coupling, type DIN		Φ 24 Pin			Φ 24 Pin			Φ 24 Pin			Φ 24 Pin			Φ 24 Pin			Φ 24 Pin			Φ 24 Pin										



$$AST = a + Wa + x + B \quad a: (200\text{mm})$$

