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Forklift" App



ISO14001  
ISO14001:2015



ISO9001  
ISO9001:2015



HANGCHA trucks conform  
to the European Safety  
Requirements.

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# A Series High Capacity Electric Forklift Truck

with capacities of 12,000 to 16,000kg

*The World of Hangcha*



# A Series 12-16t Electric Forklift Truck

The electric forklift truck, with key parts of associated products from world-renowned manufacturers, features excellent performance, reliability and durability, high safety, as well as elegant, steady, simple but bright appearance. The product can be applied for a wide range of purposes, and is suitable for various working conditions including indoor and outdoor spaces.

**Efficient/  
Durable/  
Ergonomic**



## Drive System

/ The AC travel motor of world-renowned brand features strong power, complete protection functions, and is maintenance-free, with substantially increased reliability and service life, and reduced maintenance and service costs; the heavy-duty drive axle of world-renowned brand features two-stage reduction, dual motor drive, multi-plate wet travel brake and motor auxiliary brake, safety and reliability, and the system is fully enclosed, maintenance-free, and suitable for heavy-duty working condition.

## Hydraulic System

/ The system is equipped with electro-hydraulic proportional sectional valve of world-renowned brand, silent gear pump, pilot electric control handle, and AC oil pump motor. The load sensing hydraulic system reduces continuous load on oil pump motor; the remote electric control operating mode is simple, easy, and flexible. Several hydraulic pressure detection points are added to simplify maintenance and service work.

## Mast System

/ The duplex mast has increased width, higher resistance to torsion, and broader view; oil circuit with dual governing valves features higher safety. Hydraulic fork width adjustment is a standard configuration.

## Braking System

/ The system is equipped with Poclair hydraulic brake valve, multi-plate wet travel brake and spring action, and hydraulic release caliper disc parking brake system.

## Steering System

/ The system is equipped with horizontally placed oil cylinder steering axle of single dual-action oil cylinder, features fully hydraulic power steering, steering priority, with load sensing function, and can realize easy steering.



You can open the door on each side, it make the motor, oil pump and electrical controller maintenance is very convenient, provide good waterproof and dustproof



It's very easy for charging the battery



The tippable structure that is available for both electric and manual operations is convenient for daily maintenance



The integrated fan cooling system ensures the stability of the electric control system, and the fully opened hood make the maintenance more convenient



A series features battery side roll out as standard



## Electric System

/ The full AC controller of state of the art in the world is adopted, achieving electronic control for traveling, lifting, braking, and steering actions of the forklift. It features smooth and accurate control, superior speed regulation performance, with regenerative braking, reverse braking, and anti-slipping on slope and other functions, enabling more effective operation, higher safety and comfort. The MMI instrument of world-leading brand is adopted, with large screen LCD battery indication, timing, failure self-diagnosis, and mode selection, and accurate display even in severe environment. The LED lighting system is adopted for energy saving.



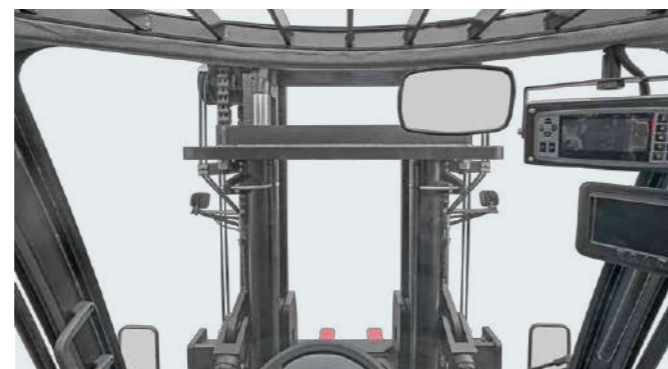
## Cabin

/ The cabin is integrated and fully enclosed. Four-point rubber vibration-reducing connection of the cab can reduce vibration, and its tippable structure that is available for both electric and manual operations is convenient for daily maintenance; spacious cab floor, and ample overhead clearance and leg room allow easy access and exit of the driver at any time; the fully enclosed cab is thermally insulated, dust-proof, and waterproof; sliding curtain is provided inside the cab; filler is equipped at inlet of fresh air, and the internal recycling fan is adjustable. Comfortable temperature can be maintained in the cab with air conditioner and hot air device. The seat is forward and backward adjustable, tilting angle of seat back is also adjustable, which can increase comfort level for the driver. All glass is of safety glass. Front, rear, and top windscreens are equipped with cleaner and wiper. Both front and rear windscreens are equipped with defroster.



## Standard specification

- |                                    |   |
|------------------------------------|---|
| / Handle                           | / Up & down tiltable steering column      |
| / Headlight guard                  | / Rearview mirror                         |
| / Air conditioning                 | / On-truck tool kit                       |
| / Single fork positioner           | / Inclined oil circuit self-closing valve |
| / Cab                              | / Four-section multi-way valve            |
| / Fully-hydraulic power steering   | / Lifting oil circuit speed limit valve   |
| / Traction pin                     | / Hydraulic oil tank level indicator      |
| / Front combined lamps             | / Key switch                              |
| / Rear combined lamps              | / OPS system                              |
| / Headlamp                         | / Alarm light                             |
| / Electric horn                    | / Backup buzzer                           |
| / Multi-functional colored display | / Wide-view mast                          |
| / Neutral switch                   | / Rubber pedal pad                        |
| / Patterned oil resistant tire     |   |



## Options

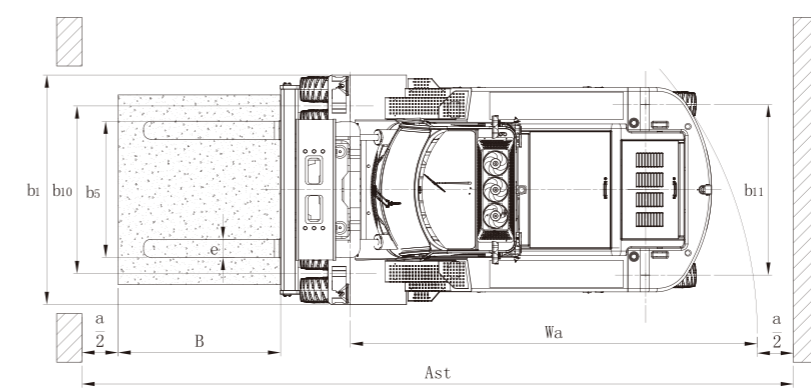
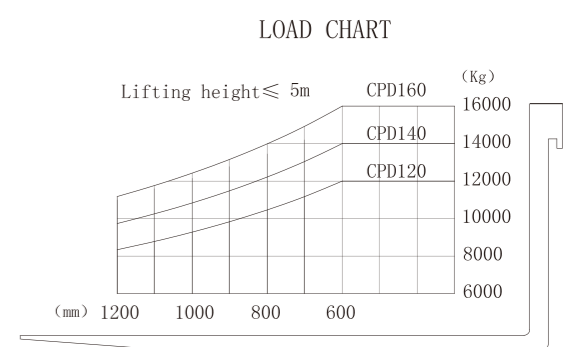
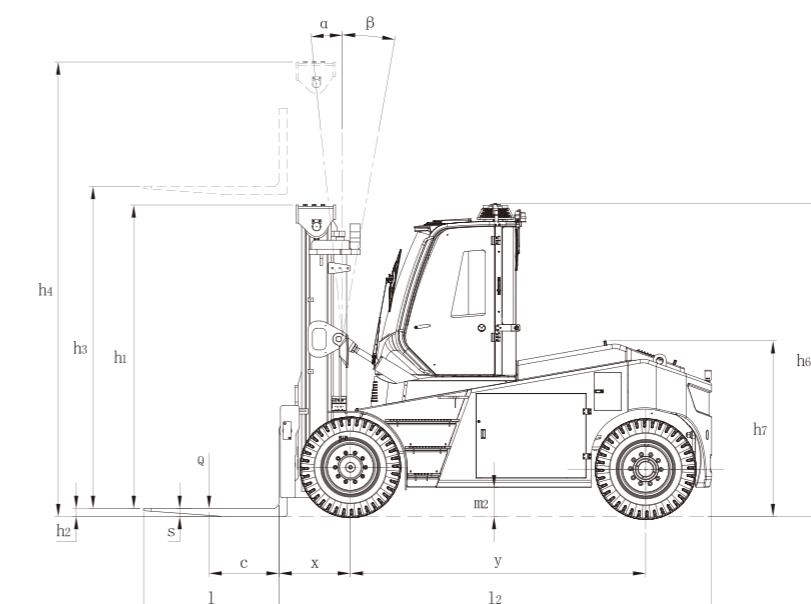
- / Customized color
- / Solid tire / environmentally friendly solid tire
- / Work lamp
- / Other sizes of fork
- / Rearview system
- / Battery charger

# A Series 12-16t Electric Forklift Truck

Distinguishing mark	HANGCHA GROUP CO.,LTD.			
	1.1 Manufacturer	1.2 Manufacturer's type designation	1.3 Drive: electric (battery or mains), diesel, petrol, fuel gas	1.4 Operator type: hand, pedestrian, standing, seated, order-picker
	1.1 Manufacturer	CPD120-AXZ4	CPD140-AXZ4	CPD160-AXZ4
	1.2 Manufacturer's type designation	Electric	Electric	Electric
	1.3 Drive: electric (battery or mains), diesel, petrol, fuel gas	Seated	Seated	Seated
	1.4 Operator type: hand, pedestrian, standing, seated, order-picker	Q (kg)	12000	14000
	1.5 Rated capacity/rated load	c (mm)	600	600
	1.6 Load centre distance	x (mm)	760	770
	1.8 Load distance, centre of drive axle to fork	y (mm)	2980	3100
	1.9 Wheelbase		21000	22500
	2.1 Service Weight	kg	27300/3200	31700/3300
	2.2 Axle loading, laden front/rear	kg	9900/8600	11500/9500
	2.3 Axle loading, unladen front/rear	kg	Peumatic	Peumatic
	3.1 Tyres: solid rubber, superelastic, pneumatic, polyurethane		10.00-20-18PR	11.00-20-18PR
	3.2 Tyre size, front		10.00-20-18PR	11.00-20-18PR
	3.3 Tyre size, rear		4/2	4/2
	3.5 Wheels, number front / rear (x = driven wheels)		b10 (mm)	1840
	3.6 Tread, front		b11 (mm)	1890
	3.7 Tread, rear		$\alpha / \beta(^{\circ})$	6/10
	4.1 Tilt of mast/fork carriage forward/backward		h1 (mm)	3330
	4.2 Height, mast lowered		h2 (mm)	80
	4.3 Free lift		h3 (mm)	3300
	4.4 Lift		h4 (mm)	4980
	4.5 Height, mast extended		h6 (mm)	3435
	4.7 Height of overhead guard (cabin)		h7 (mm)	2080
	4.8 Seat height/stand height		h10 (mm)	555
	4.12 Coupling height		l1 (mm)	5970
	4.19 Overall length		l2 (mm)	4470
	4.20 Length to face of forks		b1 (mm)	2500
	4.21 Overall width		s/e/l (mm)	80/200/1500
	4.22 Fork dimensions		b3 (mm)	2365
	4.24 Fork-carriage width		b5 (mm)	520-2200
	4.25 Distance between fork-arms		m1 (mm)	245
	4.31 Ground clearance, laden, below mast		m2 (mm)	260
	4.32 Ground clearance, centre of wheelbase		Ast (mm)	6110
	4.34.1 Aisle width for pallets 1000 x 1200 crossways		Ast (mm)	6310
	4.34.2 Aisle width for pallets 800 x 1200 lengthways		Wa (mm)	4150
	4.35 Turning radius		b13 (mm)	130
	4.36 Internal turning radius			
	5.1 Travel speed, laden/unladen	km/h	16/18	16/18
	5.2 Lift speed, laden/unladen	m/s	0.26/0.33	0.25/0.33
	5.3 Lowering speed, laden/unladen	m/s	0.35/0.30	0.35/0.30
	5.5 Drawbar pull, laden/unladen	N	40000	40000
	5.6 Max. Drawbar pull, laden/unladen	N	48000	48000
	5.7 Gradeability, laden/unladen	%	10/17	9/16
	5.8 Max. gradeability, laden/unladen	%	12/19	11/18
	5.9 Acceleration time, laden/unladen (0-10m)	s	3.5/3.0	3.5/3.0
	5.10 Service brake		Hydraulic	Hydraulic
	Parking brake		Electric	Electric
	6.1 Drive motor rating S2 60 min	kW	2x34	2x34
	6.2 Lift motor rating at S3 15%	kW	2x47	2x47
	6.4 Battery voltage, nominal capacity K5	V/Ah	120/1200	120/1350
	6.5 Battery weight	kg	2x2280	2x2550
	Battery dimensions	l/b/h(mm)	952/1018/853	1018/1060/853
	6.6 Energy consumption acc. to VDI cycle	kWh/h	20	23
	Max. battery weight	kg	4560	5100
	Min. battery weight	kg	4200	4800
	8.1 Type of drive unit		MOFET	MOFET
	9.1 Manufacturer/Type		ZAPI	ZAPI
	10.1 Operating pressure for attachments	bar	150	150
	10.2 Oil volume for attachments	l/min	60	60
	10.3 Hydraulic Tank - capacity (drain & refill)	liter	220	220
	10.7 Sound pressure level at the driver's seat	dB (A)	70	70
	10.8 Towing coupling, type DIN 15170	PI	$\phi 50$	$\phi 50$

# 12.0-16.0t Mast specification

Type	Model	Lifting height mm	Overall height		Front Overhang mm	Tilt Range F/R ( $^{\circ}$ )	Capacity Load capacity at 600mm kg
			Lowered mm	Extended mm			
12t Duplex mast	AP120M300-000000-000	3000	3180	4680	740	6°/10°	12000
	AP120M330-000000-000	3300	3330	4980	740	6°/10°	12000
	AP120M360-000000-000	3600	3480	5280	740	6°/10°	12000
	AP120M400-000000-000	4000	3680	5680	740	6°/10°	12000
	AP120M430-000000-000	4300	3880	6030	740	6°/6°	12000
	AP120M450-000000-000	4500	3980	6230	740	6°/6°	12000
	AP120M480-000000-000	4800	4130	6530	740	6°/6°	12000
	AP120M500-000000-000	5000	4230	6730	740	6°/6°	12000
	AP120M550-000000-000	5500	4530	7280	740	3°/6°	10000
	AP120M600-000000-000	6000	4780	7780	740	3°/6°	8000
14t Duplex mast	AP120M650-000000-000	6500	5080	8330	740	3°/6°	6000
	AP140M300-000000-000	3000	3280	4780	770	6°/10°	14000
	AP140M330-000000-000	3300	3430	5080	770	6°/10°	14000
	AP140M360-000000-000	3600	3580	5380	770	6°/10°	14000
	AP140M400-000000-000	4000	3780	5780	770	6°/10°	14000
	AP140M430-000000-000	4300	3980	6130	770	6°/6°	14000
	AP140M450-000000-000	4500	4080	6330	770	6°/6°	14000
	AP140M480-000000-000	4800	4230	6630	770	6°/6°	14000
	AP140M500-000000-000	5000	4330	6830	770	6°/6°	14000
	AP140M550-000000-000	5500	4630	7380	770	3°/6°	12000
16t Duplex mast	AP140M600-000000-000	6000	4880	7880	770	3°/6°	10000
	AP140M650-000000-000	6500	5180	8430	770	3°/6°	8000
	AP160M300-000000-000	3000	3300	4800	790	6°/10°	16000
	AP160M330-000000-000	3300	3450	5100	790	6°/10°	16000
	AP160M360-000000-000	3600	3600	5400	790	6°/10°	16000
	AP160M400-000000-000	4000	3800	5800	790	6°/10°	16000
	AP160M430-000000-000	4300	4000	6150	790	6°/6°	16000
	AP160M450-000000-000	4500	4100	6350	790	6°/6°	16000
	AP160M480-000000-000	4800	4250	6650	790	6°/6°	16000
	AP160M500-000000-000	5000	4350	6850	790	6°/6°	16000
AP160M550-000000-000	5500	4650	7400	790	3°/6°	14000	
AP160M600-000000-000	6000	4900	7900	790	3°/6°	12000	
AP160M650-000000-000	6500	5200	8450	790	3°/6°	10000	



AST=B+Wa+x+a  
a=200mm