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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

A SERIES

HIGH CAPACITY ELECTRIC
FORKLIFT TRUCK

With capacity of 12,000 to 16,000kg

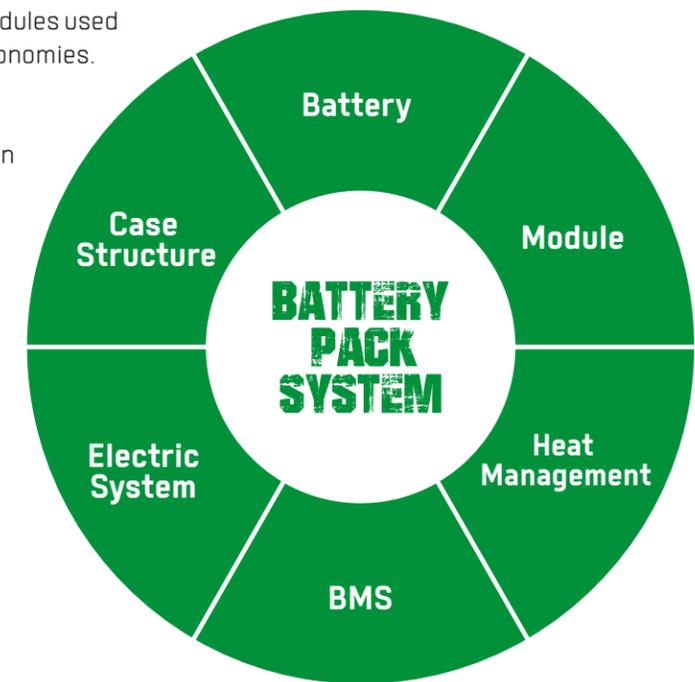
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LET THE LITHIUM POWER UNLEASH



INNOVATIVE SOLUTIONS NEW POWER NOW

- / We use square lithium iron phosphate batteries and modules used in large quantities by commercial vehicles in mature economies.
- / Safe and effective: Charging efficiency as high as 95%.
- / Quick charging.
- / Long-working: 4000 charging cycles, capacity retention greater than 75%.
- / Maintenance-free: Battery does not require manual maintenance.
- / Green and clean: Pollution-free, zero emissions.



Rapid charging and opportunity charging ensure continuous availability of vehicles

Allow for fast full charging or boost charging.
They are maintenance free and do not require a battery change when used for multi-shift operations.

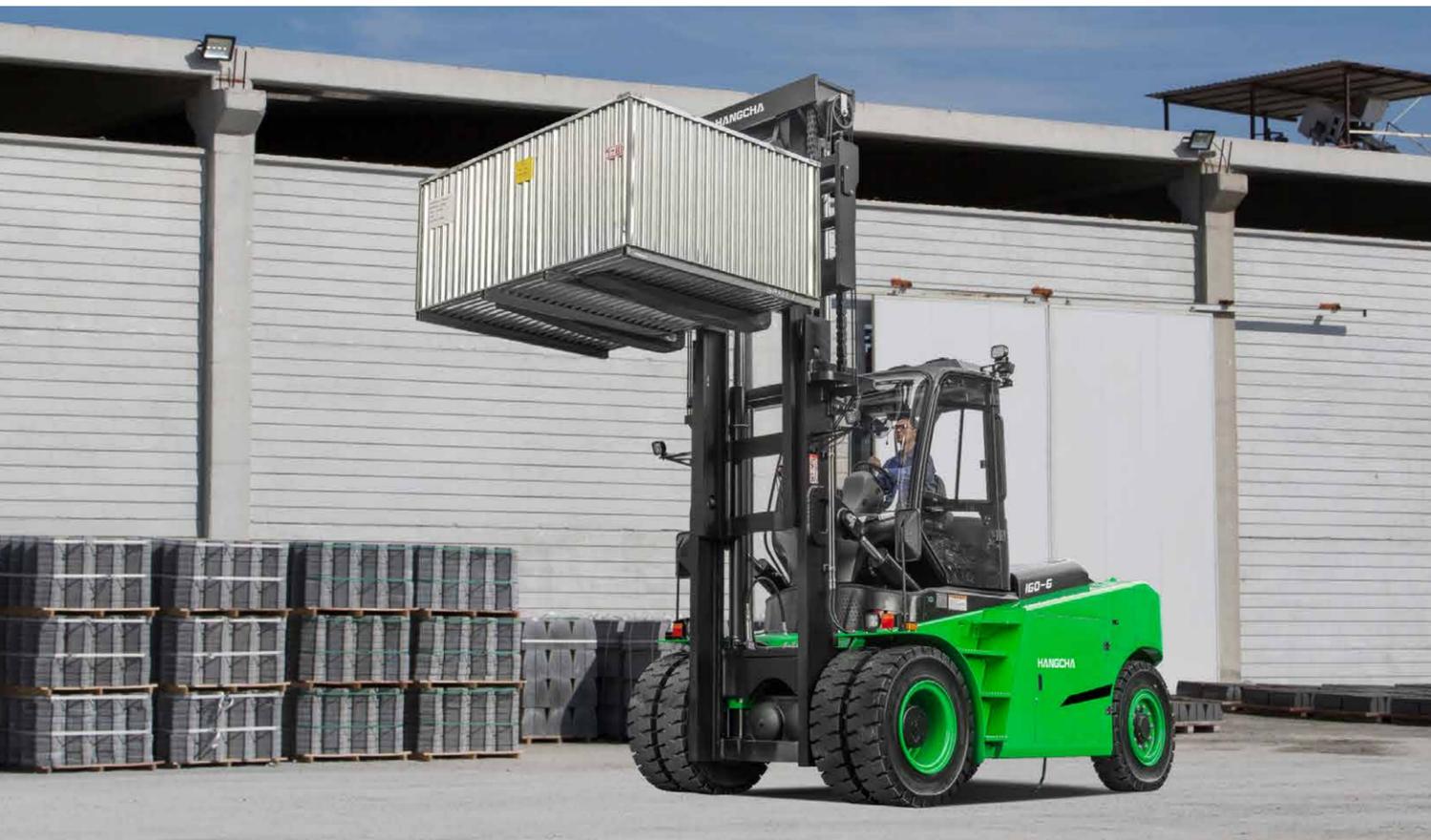


HANGCHA provides Li-ion battery (LiFePO₄) with 6 years or 12000 hours warranty.

**6 YEARS
WARRANTY**

A SERIES HIGH CAPACITY ELECTRIC FORKLIFT TRUCK

The new A series (12-16 ton) electric counterbalanced forklift continues the style of the original A series electric forklift, with the addition of lithium battery models to meet various market demands. The climbing performance and lifting speed are higher than the original A series electric forklift, and the degree of localization of key components of the whole truck is higher. By adopting domestically produced and mature components, it provides customers with a more cost-effective and diversified product.



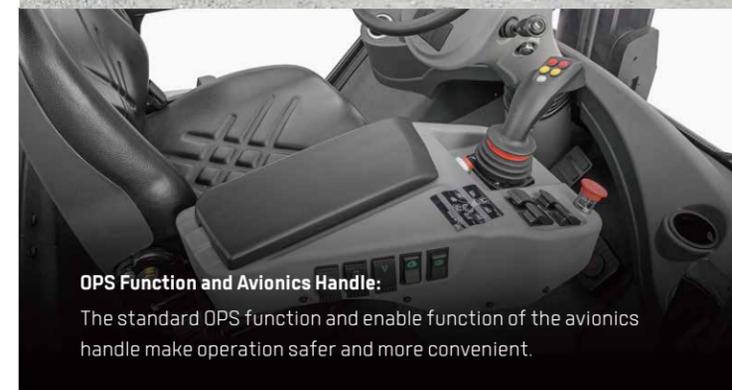
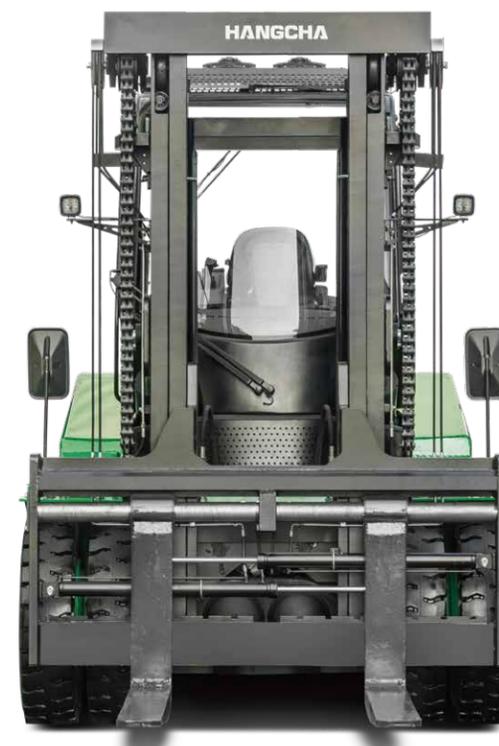
SAFE AND EFFICIENT

Dual Pump Integrated Intelligent Hydraulic Control Technology:

The load-sensing hydraulic system reduces the continuous load on the oil pump motor, improving energy efficiency and reducing energy consumption.

Hydraulic Braking System:

The standard hydraulic braking system is equipped with a brake cooling circuit to ensure reliable and safe braking.



OPS Function and Avionics Handle:

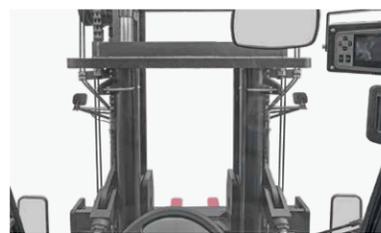
The standard OPS function and enable function of the avionics handle make operation safer and more convenient.



Cornering Deceleration and Reverse Imaging Function:

These functions can effectively improve the safety during driving and reduce the risk of accidents.

Outstanding Performance



Optimized Design for Wide Vision Mast:

The new forklift features a wide vision mast design that ensures the operator has a better view during operation, reducing blind spots and enhancing safety.



Multifunctional Color Display:

The graphically designed color display offers interfaces to meet the needs of different countries and regions, improving the user experience.



Cost-Effective Motors:

The selection of motors with better performance and higher protection levels not only enhances the overall performance of the forklift but also ensures the durability and reliability of the product.



Maintenance Convenience

Tiltable Cab:

Equipped with an electric tilting cylinder, the tilting of the cab is more convenient and less labor-intensive.

Large Opening Hood Cover:

Facilitates routine maintenance and inspection, improving work efficiency.

Battery Side Roll Out:

The battery replacement is more convenient, reducing maintenance time.



COMFORTABLE AND RELIABLE



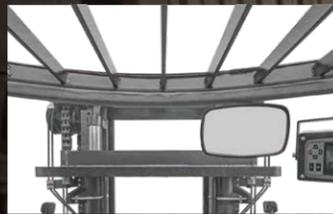
Fully Hydraulic Power Steering:

The steering priority design, combined with the load-sensing function, makes steering operations easier and more flexible.



New Panoramic Sunroof Cab:

Provides a more transparent view, and the enhanced air conditioning performance ensures a comfortable environment inside the cab.



Integrated control handle:

Leading remote operation, dexterous and precise; optimized hydraulic braking curve, smooth and easy to control.

Suspended seat:

With a floating multi-directional adjustable operating platform, comfortable to operate.

Key structural components: utilize mass-produced parts, which have been tested in the market for many years, ensuring high reliability.

Sealing Design and Interior Parts:

The sealing design that is waterproof, dustproof, heat-insulating, soundproof, and noise-reducing improves driving comfort, and the formed interior parts also make the appearance more comfortable.



Special-shaped Steel Pipe Integrated Frame:

The increased strength of structural components ensures the stability and durability of the forklift.



REVOLUTIONARY PERFORMANCE

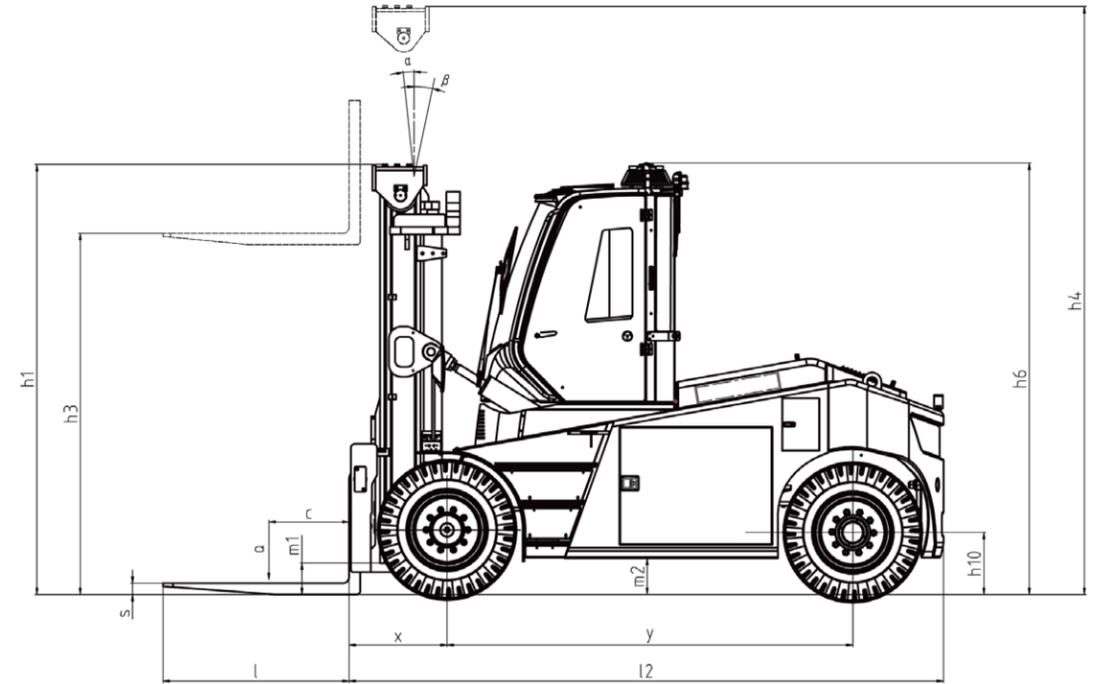


Technical Data

		HANGCHA GROUP CO.,LTD.							
Distinguishing mark	1.1	Manufacturer							
	1.2	Manufacturer's type designation	CPD120-AXD2	CPD140-AXD2	CPD160-AXD2	CPD120-AXD2-I	CPD140-AXD2-I	CPD160-AXD2-I	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Electric	Electric	Electric	Electric	Electric	Electric	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Seated	Seated	Seated	Seated	Seated	Seated	
	1.5	Rated capacity/ rated load	kg	12000	14000	16000	12000	14000	16000
	1.6	Load centre distance	c (mm)	600	600	600	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	760	770	790	760	770	790
	1.9	Wheelbase	y (mm)	2980	3100	3250	2980	3100	3250
	Weight	2.1	Service Weight	kg	17700	19900	22000	16700	18500
2.2		Axle loading, laden front/rear	kg	27030/2670	30780/3120	34520/3480	25930/2730	29530/2970	33400/3500
2.3		Axle loading, unladen front/rear	kg	9550/8150	10600/9300	11660/10340	8500/8200	9330/9170	10600/10300
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic
	3.2	Tyre size, front		10.00-20-18PR	11.00-20-20PR	12.00-20-20PR	10.00-20-18PR	11.00-20-20PR	12.00-20-20PR
	3.3	Tyre size, rear		10.00-20-18PR	11.00-20-20PR	12.00-20-20PR	10.00-20-18PR	11.00-20-20PR	12.00-20-20PR
	3.5	Wheels, number front / rear (x = driven wheels)		4x/2	4x/2	4x/2	4x/2	4x/2	4x/2
	3.6	Tread, front	b10 (mm)	1840	1856	1856	1840	1856	1856
	3.7	Tread, rear	b11 (mm)	1890	1890	1890	1890	1890	1890
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b (°)	6/10	6/10	6/10	6/10	6/10
4.2		Height, mast lowered	h1 (mm)	3330	3430	3450	3330	3430	3450
4.3		Free lift	h2 (mm)	80	85	90	80	85	90
4.4		Lift	h3 (mm)	3300	3300	3300	3300	3300	3300
4.5		Height, mast extended	h4 (mm)	4980	5080	5100	4980	5080	5100
4.7		Height of cabin	h6 (mm)	3435	3450	3470	3435	3450	3470
4.8		Seat height/stand height	h7 (mm)	1925	1940	1960	1925	1940	1960
4.12		Coupling height	h10 (mm)	560	575	595	560	575	595
4.19		Overall length	l1 (mm)	5970	6080	6290	5970	6080	6290
4.20		Length to face of forks	l2 (mm)	4470	4580	4790	4470	4580	4790
4.21		Overall width	b1/b2 (mm)	2500	2500	2540	2500	2500	2540
4.22		Fork dimensions	s / e / l (mm)	80/200/1500	85/200/1500	90/200/1500	80/200/1500	85/200/1500	90/200/1500
4.23		Fork carriage ISO 2328, class/type A,B		ISO2328 3A	ISO2328 3A	ISO2328 3A	ISO2328 3A	ISO2328 3A	ISO2328 3A
4.24		Fork-carriage width	b3 (mm)	2363	2363	2363	2363	2363	2363
4.31		Ground clearance, laden, below mast	m1 (mm)	215	230	250	215	230	250
4.32		Ground clearance, centre of wheelbase	m2 (mm)	260	275	295	260	275	295
4.34		Aisle width for pallets crossways	Ast (mm)	4910+a+16	5070+a+16	5240+a+16	4910+a+16	5070+a+16	5240+a+16
4.35		Turning radius	Wa (mm)	4150	4300	4450	4150	4300	4450
Performance data		5.1	Travel speed, laden/unladen	km/h	16/18	16/18	16/18	16/18	16/18
	5.2	Lift speed, laden/unladen	mm/s	300/350	300/350	300/350	300/350	300/350	300/350
	5.3	Lowering speed, laden/unladen	mm/s	360/400	360/400	360/400	360/400	360/400	360/400
	5.6	Max. Drawbar pull, laden/unladen	KN	47	47	47	47	47	47
	5.8	Max. gradeability, laden/unladen	%	10/18	10/18	10/18	10/18	10/18	10/18
	5.10	Service brake		Wet disc brake system[WDB]					
5.11	Parking brake		Spring Applied, Hydraulic release multidisc brake[SAHR]						
Electric-engine	6.1	Drive motor rating S2 60 min	kW	30.2	30.2	30.2	30.2	30.2	30.2
	6.2	Lift motor rating at S3 15%	kW	36.2	36.2	36.2	36.2	36.2	36.2
	6.3	Battery acc. to DIN 43531/35/36 A,B,C, no		DIN	DIN	DIN			
	6.4	Battery voltage, nominal capacity K5	(V)/(Ah) or kWh	96/1395	96/1705	96/1860	96/1380	96/1380	96/1680
	6.5	Battery weight	kg	4100	4850	5400	1900	1900	2170
Addition data	10.1	Operating pressure for attachments	MPa	15	15	15	15	15	15
	10.2	Oil volume for attachments	ℓ/min	90	90	90	90	90	90

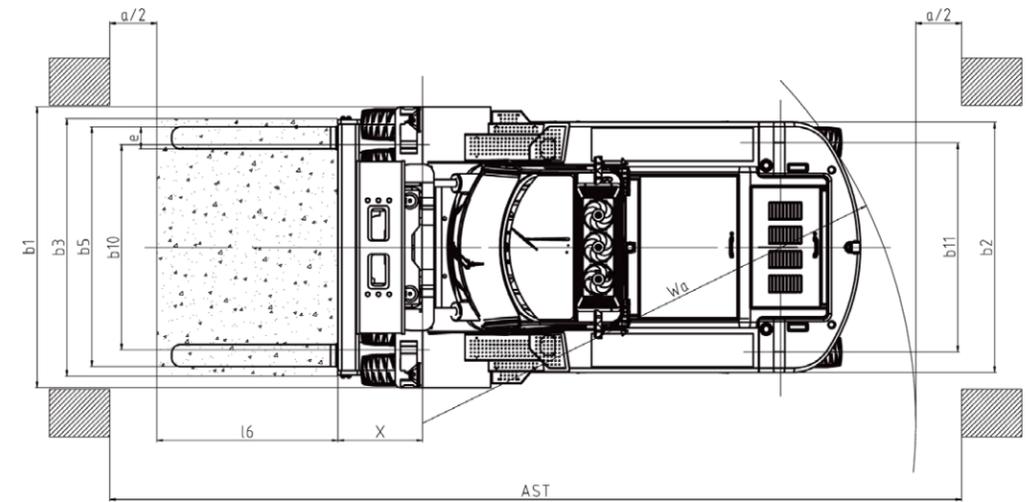
12-16t Mast specification

Type	Model	Lifting height mm	Overall height		Front Overhang mm	Tilt Range F/R [°]	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	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
	AP140M600-000000-000	6000	4880	7880	770	3/6	10000
16t Duplex mast	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	



Features

Truck	Standard	Options
Headlight guard	●	
Single fork positioner	●	
Fully-hydraulic power steering	●	
Traction pin	●	
Patterned oil resistant tire	●	
Up & down tiltable steering column	●	
Inclined oil circuit self-closing valve	●	
Four-section multi-way valve	●	
Lifting oil circuit speed limit valve	●	
Wide-view mast	●	
Rubber pedal pad	●	
Customized color		○
Solid tire / environmentally friendly solid tire		○
Other sizes of fork		○
Battery charger		○
Handle	●	
Air conditioning	●	
Cab	●	
Multi-functional colored display	●	
Rearview mirror	●	
On-truck tool kit	●	
Controls and instruments		
Neutral switch	●	
Hydraulic oil tank level indicator	●	
Key switch	●	
OPSS system	●	
Safety		
Electric horn	●	
Backup buzzer	●	
Rearview system		○
Lights		
Front combined lamps	●	
Rear combined lamps	●	
Headlamp	●	
Alarm light	●	
Work lamp		○



$AST = l6 + Wa + x + a$ L6: load length a=200 mm safety clearance

