



X SERIES

ELECTRIC 4-WAY REACH TRUCK

With capacity of 2,000 to 3,000kg

HANGCHA GROUP 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



Follow us on
Facebook



Follow us on
YouTube



Follow us on
WeChat



Download "Hangcha
Forklift" App



ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

HANGCHA GROUP CO., LTD. reserves the right to make any changes without notice concerning colors, equipment, or specifications detailed in this brochure, or to discontinue individual models. The colors of trucks, delivered may differ slightly from those in brochures.

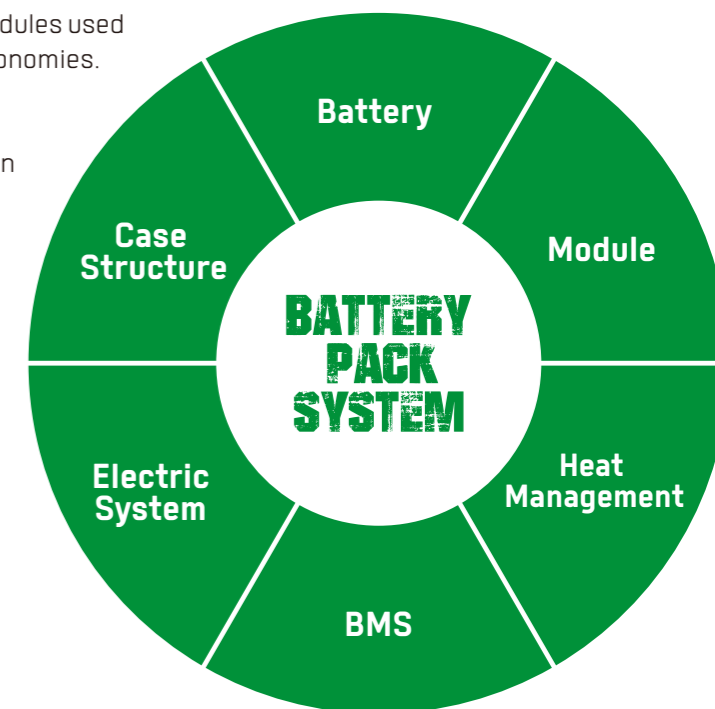
LI-ION POWER



INNOVATIVE SOLUTIONS NEW POWER NOW

Innovative, reliable lithium-ion technology (Lithium Iron-Phosphate), which are developed jointly by HANGCHA and CATL. Battery cells and modules are from CATL, with reliable quality, exclusively for HANGCHA.

- / 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: 2000 charging cycles, capacity retention greater than 80%.
- / 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**

BECOME THE FORKLIFT MEETING YOUR DIFFERENT NEEDS.

LARGE LOAD CAPACITY ■

SMALL TURNING RADIUS ■

RELIABILITY ■



■ ADVANCED PERFORMANCE

■ EASY OPERATIONS

■ HIGH SAFETY

■ HIGH LIFT

X SERIES ELECTRIC 4-WAY REACH TRUCK

Your reliable, powerful and connected working machine.

The 2-3-ton multi-lateral electric forklift can be driven in the modes of straight movement, sideways movement and 360° rotation in situ, etc. It is suitable for places with the need of handling and stacking large and long materials, such as pipes, sheets and wires, and can meet the needs of customers for operations in narrow aisles and high stacking heights.

DESIGNED AROUND YOU

HIGH EFFICIENCY

- The narrow aisles required for handling long stacking materials maximize the space availability of your warehouses.
- A high-power oil pump motor is used. The large-displacement silent gear pumps improve the lifting and descending speed of the fork, as well as its operating efficiency.
- The four-pivot articulated drive and steering axles allow higher passing ability, thus suitable for indoor and outdoor operation.
- The brake kinetic energy regeneration system enables the battery to support longer operating hours after being charged once.



The mast can be moved forward and backward, and equipped with distance adjusting forks, stacking efficiency is improved.

Streamlined surface modelling, a smooth profile of the beautiful and generous vehicle.

- The high lift mast boasts strong bearing capacity and improved stacking efficiency.
- With a four-pivot structure, the vehicle has good stability when performing a high lift.

SPACE SAVING

Allowing straight movement, sideways movement, 360° rotation in situ and a small turning radius, the stacker can operate in narrow aisles.



By traveling sideways, even the truck with lengthy load can move through narrow aisle close to the vehicle length.



Counterbalanced forklift

Sideways travel mode

COMFORT

- The ergonomically arranged joystick, instruments and switches make operations more comfortable and flexible.
- The suspended cab allows more secure and comfortable operation.
- Electric steering makes steering more gentle and comfortable, and steering mode switching is easier and faster.
- A new integrated instrument cluster has complete functions and clear readings.



Electro-hydraulic proportional fingertip control system allows more accurate and smooth operation of the fork.

The joystick can be adjusted from top to bottom and from front to rear according to the operator's using habits.

With several speed gears, the vehicle is adapted to different operating conditions.



(Super)



(Power)

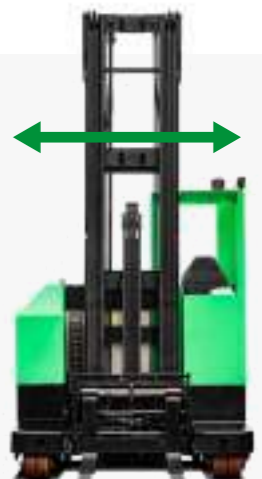


(Eco)

STABILITY

Wide body structure design allows the stacker to have good stability.

Overall width
1,850mm



The two-step pedals enable the operator to get on and off the stacker more conveniently and comfortably.

REVOLUTIONARY PERFORMANCE

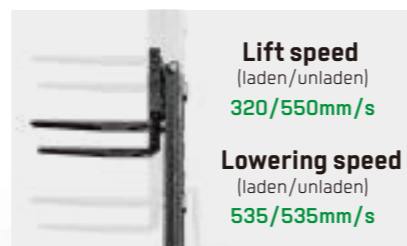
- Articulated drive and steering axles and suspended cab improve operating comfort.
- With efficient and precise adjustment performance, the newly equipped AC control system supports longer operating hours after being charged once.
- The integrated mechanical, electrical and hydraulic control realizes the step less speed regulation of the vehicle driving and the fork movement, more precisely and stably.



The fully open door enables easy repair, maintenance and tuning.

TECHNOLOGY

Instead of a traditional handbrake, an electromagnetic brake is used to realize the intelligent braking. An intelligent electromagnetic service brake system allows more efficient and safer braking.



Lift speed
(laden/unladen)
320/550mm/s

Lowering speed
(laden/unladen)
535/535mm/s

The fork of the vehicle has high lifting and descending speeds and high operation efficiency.



The large-screen LCD display and the gauges with fault self-diagnosis functions can accurately display information in harsh environments.

MADE FOR EASY MAINTENANCE

The brushless AC motor is maintenance-free and significantly reduces the operating cost.



The battery removed from a side of the vehicle enables easy repair and maintenance of the battery.



The electronically controlled electrical components are placed together and highly integrated.



RELIABILITY AND SAFETY

- The four-pivot low center of gravity design and the design high strength of the main force-bearing components of the frame are appropriate to heavy load operating conditions.
- The efficient AC power system has complete protection functions and greatly improved reliability and service life.



The main electrical components such as the motor controller, contactor, power plug and emergency cut-off switch are all products of well-known foreign brands.



The safety pedals eliminate the safety hazard arising from the operator's incorrect operations.



The front and rear wheel braking systems that allow large braking torque are suitable for indoor and outdoor slippery roads to let the operator drive more safely.



The optimized design of the wide-view gantry enables the operator to get a better view, and improves the operation safety.

Optional battery list

Battery Type	Voltage	Capacity	Model
	V	Ah	
Lead-acid	80	300	CCD20-XC5-D ●
		360	CCD20-XC5-D ○ CCD25-XC5-D ● CCD30-XC5-D ●
		440	CCD20-XC5-D ○ CCD25-XC5-D ○ CCD30-XC5-D ○
Lithium	80	250	CCD20-XC5-ID ●
		346	CCD20-XC5-ID ○ CCD25-XC5-ID ● CCD30-XC5-ID ●
		456	CCD20-XC5-ID ○ CCD25-XC5-ID ○ CCD30-XC5-ID ○

Note: ● Standard ; ○ Optional



Mast Specification

	Model	Lifting height	Lowered	Free lift height	Max. lift height	Fork frame width	Fork adjustment range	Load Capacity at 600mm		
								CCD20	CCD25	CCD30
								kg	kg	kg
Duplex mast	XCD30M400	4	2960	70	5005	960	310-790	2000	2500	3000
	XCD30M450	4.5	3210	70	5505	960	310-790	2000	2500	2900
Triplex mast	XCD30N400	4	2510	1800	5005	960	310-790	2000	2500	3000
	XCD30N450	4.5	2660	1950	5505	960	310-790	2000	2500	2900
	XCD30N500	5	2810	2100	6005	960	310-790	2000	2500	2800
	XCD30N550	5.5	2995	2285	6505	960	310-790	2000	2500	2650
	XCD30N600	6	3160	2450	7005	960	310-790	2000	2350	2500
	XCD30N650	6.5	3425	2715	7505	960	310-790	1900	2200	2350
	XCD30N700	7	3595	2885	8005	960	310-790	1800	2000	2200
	XCD30N750	7.5	3860	3150	8505	960	310-790	1600	1750	2000
	XCD30N800	8	4020	3310	9005	960	310-790	1400	1500	1800
	XCD30N850	8.5	4280	3570	9505	960	310-790	1150	1250	1500

Mast Specification(Widened fork carriage)

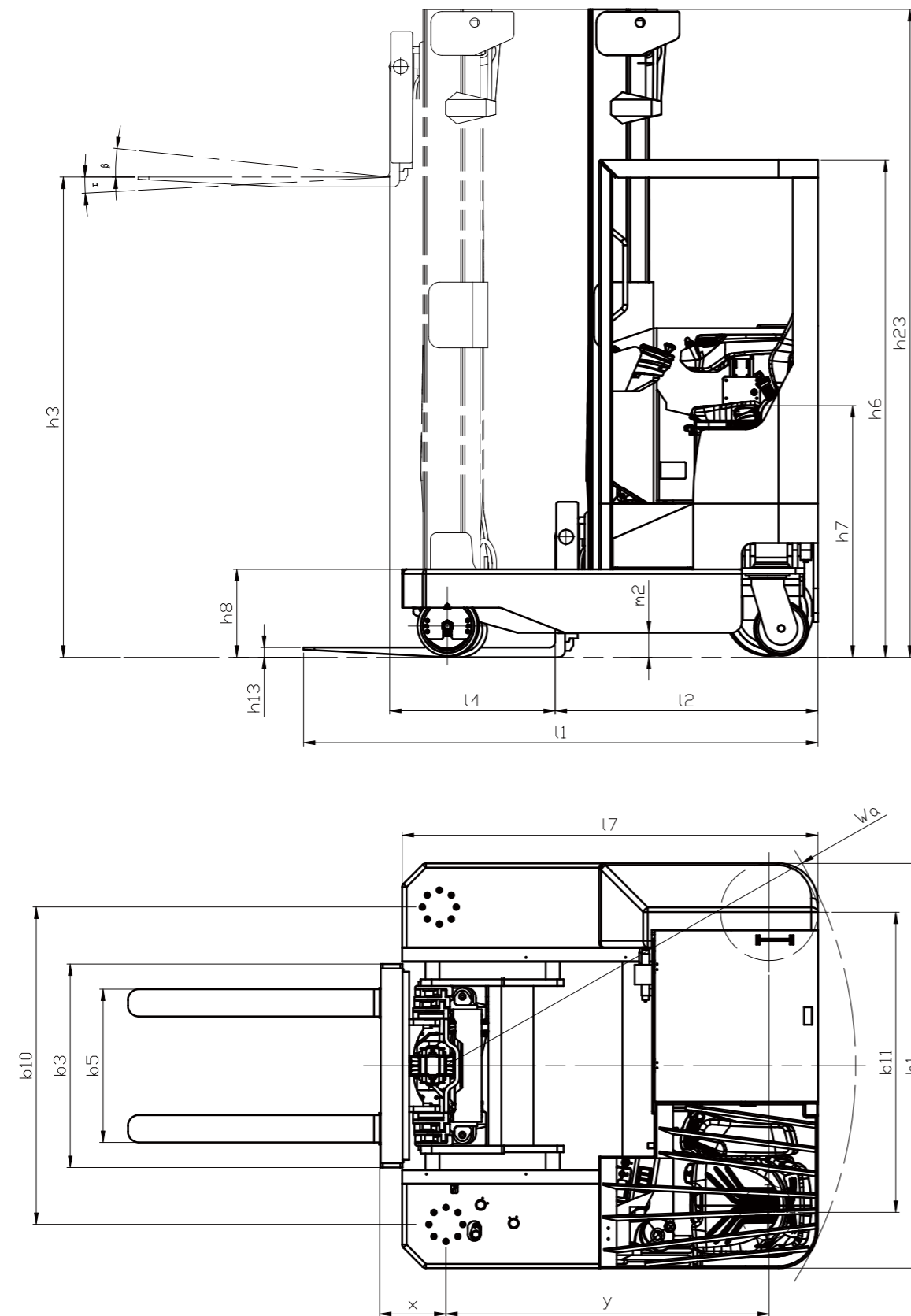
	Model	Lifting height	Lowered	Free lift height	Max. lift height	Fork frame width	Fork adjustment range	Load Capacity at 600mm		
								CCD20	CCD25	CCD30
								kg	kg	kg
Triplex mast	XCD30N400-501	4	2510	1460	5005	2310	460-2140	2000	2500	3000
	XCD30N450-501	4.5	2660	1610	5505	2310	460-2140	2000	2500	2800
	XCD30N500-501	5	2810	1760	6005	2310	460-2140	2000	2400	2600
	XCD30N550-501	5.5	2995	1945	6505	2310	460-2140	2000	2300	2350
	XCD30N600-501	6	3160	2110	7005	2310	460-2140	1900	2100	2300
	XCD30N650-501	6.5	3425	2375	7505	2310	460-2140	1750	1900	2100
	XCD30N700-501	7	3595	2545	8005	2310	460-2140	1600	1700	1900
	XCD30N750-501	7.5	3860	2810	8505	2310	460-2140	1400	1500	1700
	XCD30N800-501	8	4020	2970	9005	2310	460-2140	1200	1300	1500
	XCD30N850-501	8.5	4280	3230	9505	2310	460-2140	900	1000	1200

Technical data (Lithium Battery)

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation	CCD20-XC5-ID	CCD25-XC5-ID	CCD30-XC5-ID	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Electric	Electric	Electric	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Stand On/Seated	Stand On/Seated	Stand On/Seated	
	1.5	Rated capacity/rated load	Q (kg)	2000	2500	3000
	1.6	Load centre distance	c (mm)	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	257	257	257
	1.9	Wheelbase	y (mm)	1477	1477	1477
	Weight	2.1	Service Weight	kg	3960	4040
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	polyurethane	polyurethane	polyurethane	
	3.2	Tyre size, front	250x75/285x100[2]	250x75/285x100[2]	250x75/285x100[2]	
	3.3	Tyre size, rear	406x152	406x152	406x152	
	3.4	Additional wheels(dimensions)	250x75[2]	250x75[2]	250x75[2]	
	3.5	Wheels, number front / rear (x = driven wheels)	[1x]	[1x]	[1x]	
	3.6	Tread, front	b10 (mm)	1450	1450	1450
	3.7	Tread, rear	b11 (mm)	1372	1372	1372
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta(^{\circ})$	3/6	3/6	3/6
	4.4	Lift	h3 (mm)	4000	4000	4000
		Lift height	h23 (mm)	5005	5005	5005
	4.7	Height of overhead guard (cabin)	h6 (mm)	2260	2260	2260
	4.8	Seat height/stand height	h7 (mm)	1185	1185	1185
	4.10	Height of wheel arms	h8 (mm)	390	390	390
	4.15	Height of lowered forks	h13 (mm)	45	45	45
	4.19	Overall length	l1 (mm)	2351	2351	2351
	4.20	Length to face of forks	l2 (mm)	1201	1201	1201
	4.21	Overall width	b1 (mm)	1850	1850	1850
	4.22	Fork dimensions	s/e/l (mm)	45/122/1150	45/122/1150	45/122/1150
	4.24	Fork-carriage width, Std.	b3 (mm)	960	960	960
		Fork-carriage width, Opt.	b3 (mm)	2310	2310	2310
	4.25	Distance between fork-arms, Std.	b5 (mm)	310-790	310-790	310-790
		Distance between fork-arms, Opt.	b5 (mm)	460-2140	460-2140	460-2140
4.28	Reach distance	l4 (mm)	690	690	690	
4.32	Ground clearance, centre of wheelbase	m2 (mm)	100	100	100	
4.35	Turning radius	W _a (mm)	1873	1873	1873	
4.37	Length across wheel arms	l7 (mm)	1900	1900	1900	
Performance data	5.1	Travel speed, laden/unladen	km/h	11.5/12	11/12	10.5/12
	5.2	Lift speed, laden/unladen	m/s	0.32/0.55	0.32/0.55	0.32/0.55
	5.3	Lowering speed, laden/unladen	m/s	0.535/0.535	0.535/0.535	0.535/0.535
	5.8	Max. gradeability, laden/unladen	%	9/12	9/12	9/12
	5.10	Service brake		Electronic	Electronic	Electronic
		Parking brake		Electronic	Electronic	Electronic
Electric-engine	6.1	Drive motor rating S2 60 min	kW	8.1	8.1	8.1
	6.2	Lift motor rating at S3 15%	kW	15	15	15
	6.4	Battery voltage, nominal capacity K5	V/Ah	80/250	80/346	80/346
	10.7	Sound pressure level at the driver's seat	dB (A)	68	68	68

Technical data (Lead-acid Battery)

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation	CCD20-XC5-D	CCD25-XC5-D	CCD30-XC5-D	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Electric	Electric	Electric	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Stand On/Seated	Stand On/Seated	Stand On/Seated	
	1.5	Rated capacity/rated load	Q (kg)	2000	2500	3000
	1.6	Load centre distance	c (mm)	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	257	257	257
	1.9	Wheelbase	y (mm)	1477	1477	1477
	Weight	2.1	Service Weight	kg	3920	4000
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	polyurethane	polyurethane	polyurethane	
	3.2	Tyre size, front	250x75/285x100[2]	250x75/285x100[2]	250x75/285x100[2]	
	3.3	Tyre size, rear	406x152	406x152	406x152	
	3.4	Additional wheels(dimensions)	250x75[2]	250x75[2]	250x75[2]	
	3.5	Wheels, number front / rear (x = driven wheels)	[1x]	[1x]	[1x]	
	3.6	Tread, front	b10 (mm)	1450	1450	1450
	3.7	Tread, rear	b11 (mm)	1372	1372	1372
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta(^{\circ})$	3/6	3/6	3/6
	4.4	Lift	h3 (mm)	4000	4000	4000
		Lift height	h23 (mm)	5005	5005	5005
	4.7	Height of overhead guard (cabin)	h6 (mm)	2260	2260	2260
	4.8	Seat height/stand height	h7 (mm)	1185	1185	1185
	4.10	Height of wheel arms	h8 (mm)	390	390	390
	4.15	Height of lowered forks	h13 (mm)	45	45	45
	4.19	Overall length	l1 (mm)	2351	2351	2351
	4.20	Length to face of forks	l2 (mm)	1201	1201	1201
	4.21	Overall width	b1 (mm)	1850	1850	1850
	4.22	Fork dimensions	s/e/l (mm)	45/122/1150	45/122/1150	45/122/1150
	4.24	Fork-carriage width, Std.	b3 (mm)	960	960	960
		Fork-carriage width, Opt.	b3 (mm)	2310	2310	2310
	4.25	Distance between fork-arms, Std.	b5 (mm)	310-790	310-790	310-790
		Distance between fork-arms, Opt.	b5 (mm)	460-2140	460-2140	460-2140
4.28	Reach distance	l4 (mm)	690	690	690	
4.32	Ground clearance, centre of wheelbase	m2 (mm)	100	100	100	
4.35	Turning radius	W _a (mm)	1873	1873	1873	
4.37	Length across wheel arms	l7 (mm)	1900	1900	1900	
Performance data	5.1	Travel speed, laden/unladen	km/h	11.5/12	11/12	10.5/12
	5.2	Lift speed, laden/unladen	m/s	0.32/0.55	0.32/0.55	0.32/0.55
	5.3	Lowering speed, laden/unladen	m/s	0.535/0.535	0.535/0.535	0.535/0.535
	5.8	Max. gradeability, laden/unladen	%	9/12	9/12	9/12
	5.10	Service brake		Electronic	Electronic	Electronic
		Parking brake		Electronic	Electronic	Electronic
Electric-engine	6.1	Drive motor rating S2 60 min	kW	8.1	8.1	8.1
	6.2	Lift motor rating at S3 15%	kW	15	15	15
	6.4	Battery voltage, nominal capacity K5	V/Ah	80/300	80/360	80/360
	10.7	Sound pressure level at the driver's seat	dB (A)	68	68	68



Features

	Standard	Options
Mast		
Standard duplex mast	●	○
See the Configuration Table of the Mast		
Fork and attachment		
Standard fork	●	
Fork carriage	●	
Load backrest	●	
Non-standard series fork		○
Various attachments		○
Light		
LED headlight	●	
Common alarm lamp		○
Acoustic and optical alarm lamp		○
LED rear lamp		○
Blue lamp		○
Straight projection lamp		○
Horn		
Electric horn	●	
Reversing buzzer	●	
Safety configuration		
Fuse box	●	
DPS sensing system	●	
Safety pedal	●	
Main power switch	●	
Reversing radar		○
Fire extinguisher		○
Speed limit alarm device		○
Driving space		
Standard overhead guard	●	
Steering wheel adjusting device	●	
Anti-skid boarding step	●	
Boarding handle	●	
Electric fan		○
Left and right rearview mirrors		○
Seat		
Standard safety belt seat	●	
Fully-suspended seat		○
Electronic steering		
Electronic steering	●	
Other standard configuration		
Self-locking valve in the tilting fuel circuit	●	
Speed limit valve in the lifting fuel circuit	●	
Hydraulic oil fine filter	●	
Particular market		
CE standard		○
Control mode		
Armrest thumb switch	●	
Instrument rack space		
Smart color-screen instrument (speed mode selection)	●	
Tires		
Polyurethane wheel normally for universal wheel and bearing wheel	●	
Rubber wheel normally for driving wheel	●	