

1.4/1.6t Mast Specification

Type	Lifting height h ₃	Mast lowered h ₁	Mast extended h ₄	Free lifting height h ₂	Tilting range α/β
	mm	mm	mm	mm	(°)
Wide view duplex mast	2700	2000	3665	110	2/5
	3000	2150	3965	110	2/5
	3300	2300	4265	110	2/5
	3500	2400	4465	110	2/5
	3600	2450	4565	110	2/5
	4000	2700	4965	110	2/5
	4300	2840	5265	110	2/5
	4500	2950	5465	110	2/5
	4800	3145	5765	110	2/5
	5000	3245	5965	110	2/5
Full free triple mast	4000	2030	4965	1065	2/5
	4500	2160	5465	1195	2/5
	5000	2300	5965	1335	2/5
	5500	2450	6465	1485	2/5
	6000	2625	6965	1660	2/5
	6500	2800	7465	1835	2/5
	7000	3000	7965	2035	2/5
	7500	3060	8465	2095	2/5
	8000	3250	8965	2285	2/5
	8500	3420	9465	2455	2/5
	9000	3580	9965	2615	2/5
	9500	3760	10465	2795	2/5
	10000	3920	10965	2955	2/5
	10500	4100	11465	3135	2/5
	11000	4300	11965	3335	2/5

1.8t Mast Specification

Type	Lifting height h ₃	Mast lowered h ₁	Mast extended h ₄	Free lifting height h ₂	Tilting range α/β
	mm	mm	mm	mm	(°)
Wide view duplex mast	2700	2000	3665	110	2/5
	3000	2150	3965	110	2/5
	3300	2300	4265	110	2/5
	3500	2400	4465	110	2/5
	3600	2450	4565	110	2/5
	4000	2700	4965	110	2/5
	4300	2840	5265	110	2/5
	4500	2950	5465	110	2/5
	4800	3145	5765	110	2/5
	4000	2085	4965	1120	2/5
Full free triple mast	4500	2165	5465	1200	2/5
	5000	2315	5965	1350	2/5
	5500	2490	6465	1525	2/5
	6000	2665	6965	1700	2/5
	6500	2835	7465	1870	2/5
	7000	3020	7965	2055	2/5
	7500	3180	8465	2215	2/5
	8000	3350	8965	2385	2/5
	8500	3580	9465	2615	2/5
	9000	3800	9965	2835	2/5
	9500	3970	10465	3005	2/5
	10000	4100	10965	3135	2/5
	10500	4250	11465	3285	2/5
	11000	4450	11965	3485	2/5
	11500	4700	12465	3735	2/5

2.0t Mast Specification

Type	Lifting height h ₃	Mast lowered h ₁	Mast extended h ₄	Free lifting height h ₂	Tilting range α/β
	mm	mm	mm	mm	(°)
Wide view duplex mast	2700	2000	3665	110	2/5
	3000	2150	3965	110	2/5
	3300	2300	4265	110	2/5
	3500	2400	4465	110	2/5
	3600	2450	4565	110	2/5
	4000	2700	4965	110	2/5
	4300	2840	5265	110	2/5
	4500	2950	5465	110	2/5
	4800	3145	5765	110	2/5
	5000	3245	5965	110	2/5
Full free triple mast	4000	2085	4965	1120	2/5
	4500	2165	5465	1200	2/5
	5000	2315	5965	1350	2/5
	5500	2490	6465	1525	2/5
	6000	2665	6965	1700	2/5
	6500	2835	7465	1870	2/5
	7000	3020	7965	2055	2/5
	7500	3180	8465	2215	2/5
	8000	3350	8965	2385	2/5
	8500	3580	9465	2615	2/5
	9000	3800	9965	2835	2/5
	9500	3970	10465	3005	2/5
	10000	4100	10965	3135	2/5
	10500	4250	11465	3285	2/5
	11000	4490	11965	3485	2/5
	11500	4700	12465	3735	2/5
	12000	4900	12965	3935	2/5
	12500	5150	13465	4185	2/5
	13000	5400	13965	4435	2/5

* When you choose the mast, the dimensions of the truck will be affected. Please refer to the performance parameter table for details.

2.5t Mast Specification

Type	Lifting height h ₃	Mast lowered h ₁	Mast extended h ₄	Free lifting height h ₂	Tilting range α/β
	mm	mm	mm	mm	(°)
Wide view duplex mast	2700	2000	3665	110	2/5
	3000	2150	3965	110	2/5
	3300	2300	4265	110	2/5
	3500	2400	4465	110	2/5
	3600	2450	4565	110	2/5
	4000	2700	4965	110	2/5
	4300	2840	5265	110	2/5
	4500	2950	5465	110	2/5
	4800	3145	5765	110	2/5
	5000	3245	5965	110	2/5
Full free triple mast	4000	2085	4965	1120	2/5
	4500	2165	5465	1200	2/5
	5000	2315	5965	1350	2/5
	5500	2490	6465	1525	2/5
	6000	2665	6965	1700	2/5
	6500	2835	7465	1870	2/5
	7000	3020	7965	2055	2/5
	7500	3180	8465	2215	2/5
	8000	3350	8965	2385	2/5
	8500	3580	9465	2615	2/5
	9000	3800	9965	2835	2/5
	9500	3970	10465	3005	2/5
	10000	4100	10965	3135	2/5
	10500	4300	11465	3335	2/5
	11000	4500	11965	3535	2/5
	11500	4800	12465	3835	2/5
	12000	5000	12965	4035	2/5
	12500	5300	13465	4335	2/5
	13000	5600	13965	4635	2/5

* When you choose the mast, the dimensions of the truck will be affected. Please refer to the performance parameter table for details.



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ISO 14001
ISO 14001:2015



ISO 9001
ISO 9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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XC SERIES REACH TRUCK
WITH LITHIUM POWER

with capacity of 1,400 to 2,500kg



The World of Hangcha
SINCE 1956

A NEW DIMENSION OF PERFORMANCE

XC SERIES REACH TRUCK WITH LITHIUM POWER

- / The XC series reach truck with lithium power fully utilize the advantages of lithium battery and achieve disruptive innovations in vehicle structure, functional configuration, performance parameters, ergonomics, and operating vision.
- / We cater for a wide range of applications whilst ensuring optimum energy efficiency. Regardless of your special requirements – whether confined spaces or lifting height reaches 13m, load capacity of up to 2,500 kg or individual customisation with various options – we have the truck you need.
- / Compact size of the lithium battery pack and breaking through the traditional structure design, makes the truck style more novel and more efficient.

MAXIMUM TRAVELLING SPEED

14km/h

MAXIMUM LIFTING SPEED

0.81m/s

HIGH RESIDUAL CAPACITY

6,500mm

MAXIMUM LOAD CAPACITY

2,500kg

MAXIMUM LIFT HEIGHT

13,000mm





BEING ENVIRONMENTALLY FRIENDLY, EFFICIENT AND DURABLE

- / CATL lithium battery is standard for all series, adopting 80V voltage system which can provides fast charging and long service life and less energy loss.
- / The special-shaped lithium battery pack design provides a large operating space in the cab and a broad view.



Charging port



Battery removal

 Working time **> 10h**

 Fast charging time **≤ 2h**

Lithium battery capacity				Size
CATL	1.4 t	Std.	80V/250Ah	S
	1.6 t			
	1.8 t	Opt.	80V/400Ah	L
	2.0 t			
	2.5 t			

Lithium battery capacity				Size
EVE	1.4 t	Opt.	80V/304Ah	S
	1.6 t			
	1.8 t	Opt.	80V/460Ah	L
	2.0 t			
	2.5 t			



A NOVEL PROFILE STYLE AND COMPACT INTERIOR DESIGN

With fewer exposed fasteners of the inside covers, the interior is compact and stylish.

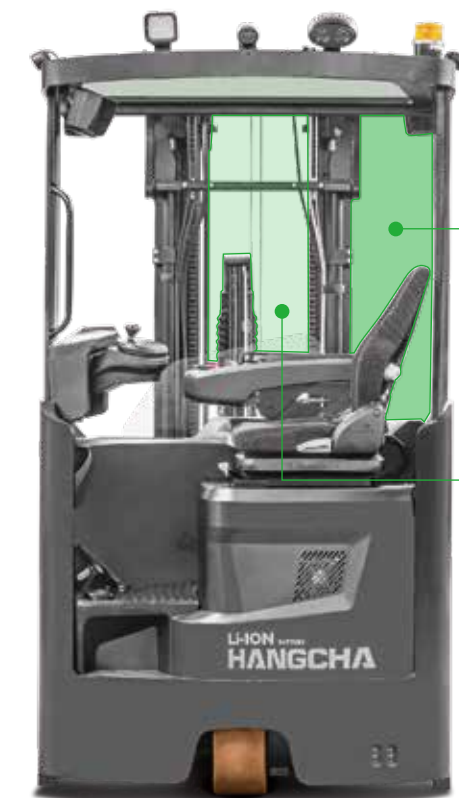


Thanks to the special-shaped design of the battery pack and the breakthrough in the body structure, which can provide a wider view.



The improved mast structure and piping arrangement enables a broader vision for stacking operations

/ The hydraulic tubing and the wires are on both sides of the mast, overlapping with the chain, making full use of the space and reducing the line of sight.



The compact mast design enables operator have a wider view around the outside of the mast.

The middle cylinder is arranged eccentrically to enable the driver to have a wider view around the inside of the mast.

EXCELLENT ERGONOMIC DESIGN

Dashboard angle adjustment



Mini lever

Control with a fingertip switch



Steering wheel position can also be adjusted



The pedal height can be adjusted electrically

Integral suspended seat

MULTIFUNCTIONAL INTERACTIVE COLOR-SCREEN INSTRUMENTS

The new multifunctional 4.3 inch color-screen instruments developed for the XC series reach truck have easier human-machine interfaces.



More status indication



1

1. Lifting height
2. Local time
3. Load weight

2

1. Driving mode
2. Fork action
3. Operating time
4. Maximum allowable lifting height

3

1. Steering mode
2. Battery power
3. Travelling speed

4

Various status signs and warning signs are displayed in a queue according to actual needs

More convenient shortcut button

Thanks to the integrated design of the instrument function buttons, the truck console saves a lot of physical buttons, making it more concise and efficient.



5

Height selection

6

Height limit

7

Lighting control

8

Battery removal

9

Optional function switching screen

10

↑ Button Driving mode switching

11

↓ Button Turtle speed mode

COMPREHENSIVELY IMPROVED FUNCTION CONFIGURATION



Height selection

Multiple heights can be pre-set on the instrument. After the function is enabled, when the fork is about to be lifted to the preset height, the lifting speed will gradually slow down and the fork will finally stops at the set height steadily.



Height limit

After this function is enabled, when the fork is lifted to a certain height, this height will be set as the maximum allowable lifting height. Afterwards, whenever the fork is about to be lifted to this height, the lifting speed will gradually slow down and the fork will steadily finally stop at this height.



Central sideshift

Simple, reliable and fast: The central positioning of the sideshift occurs automatically, eliminating the time-consuming, cautious approach of the required position. (Only for fingertip system)



5th valve-Telescopic Fork

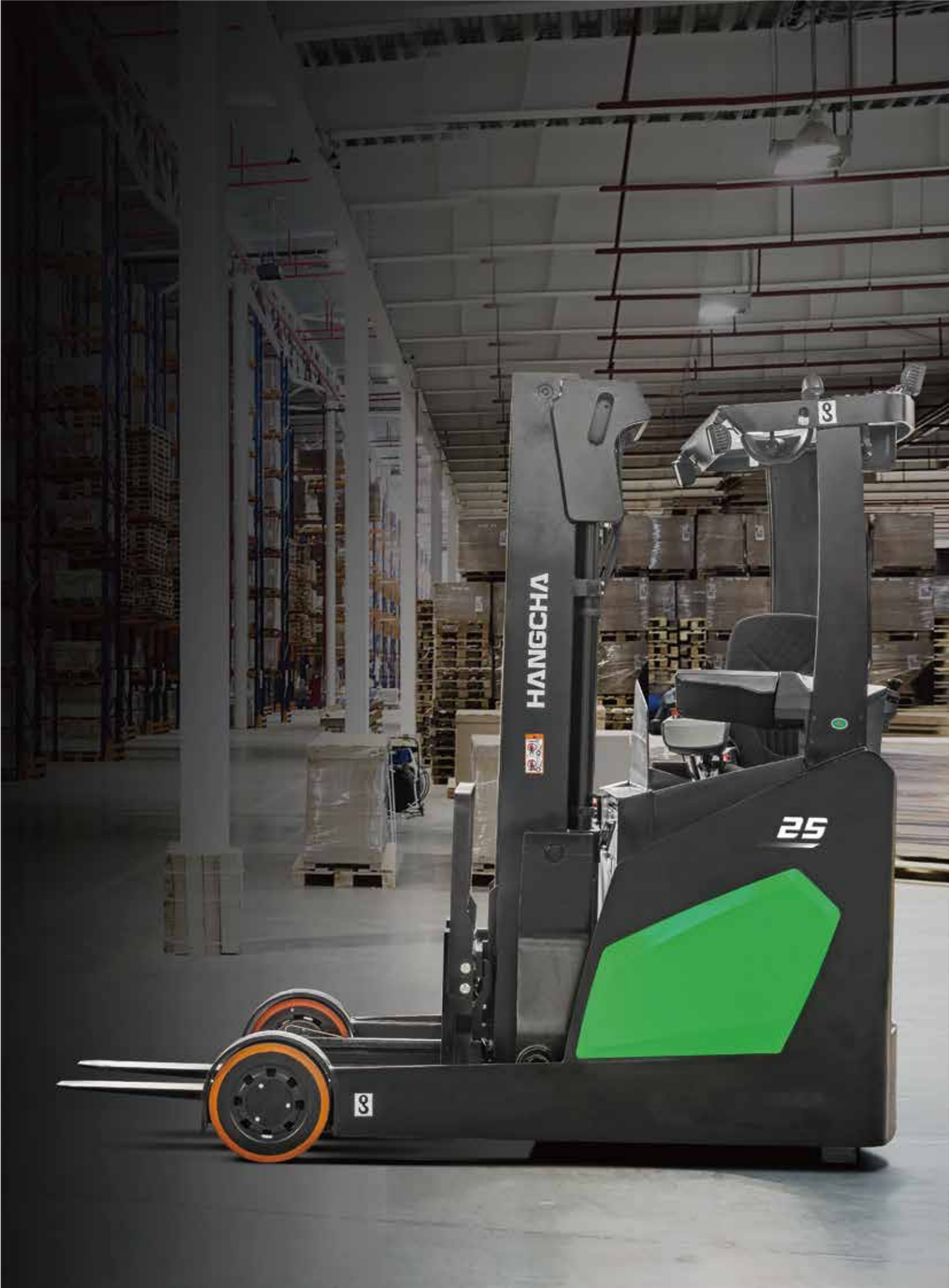


Horizontal fork

Particularly at high lift heights, the forks' tilt position is often very hard to detect. The automatic horizontal positioning significantly simplifies and accelerates pallet entry. (Only for fingertip system)



Faster, easier and safer
stacking and retrieval
operations

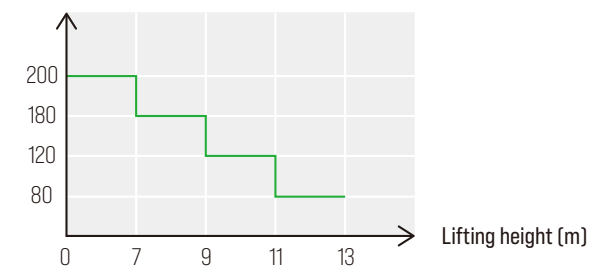


SAFETY FROM EVERY ANGLE

Drive control limit

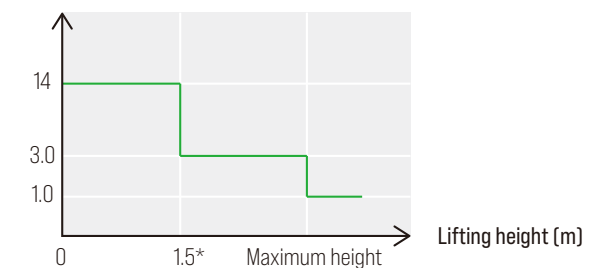
Drive control limits the travelling speed and traverse speed as soon as the forks are raised. This increases the safety when manoeuvring with a raised pallet in front of the storage rack, while still ensuring more sensitive manoeuvring during the work cycle.

Traverse speeds
(mm/s)



Note: The above table is only for 2.0/2.5t, the parameters of other models are not the same.

Travelling speed
(km/h)



*: 1.5m is only for the fingertip system.
The parameter of mechanical control system is the height of free lift.



The battery is in an inappropriate position and the indicator light is lit

Battery lock with creep speed interlock

Installed on the battery latch in the motor compartment. Monitors the locking of the battery pack. If the battery pack is not retracted or not locked, travel is restricted to creep speed.



EASY MAINTENANCE

The battery pack can be replaced quickly. The driver can unlock and remove the battery while sitting on his seat.

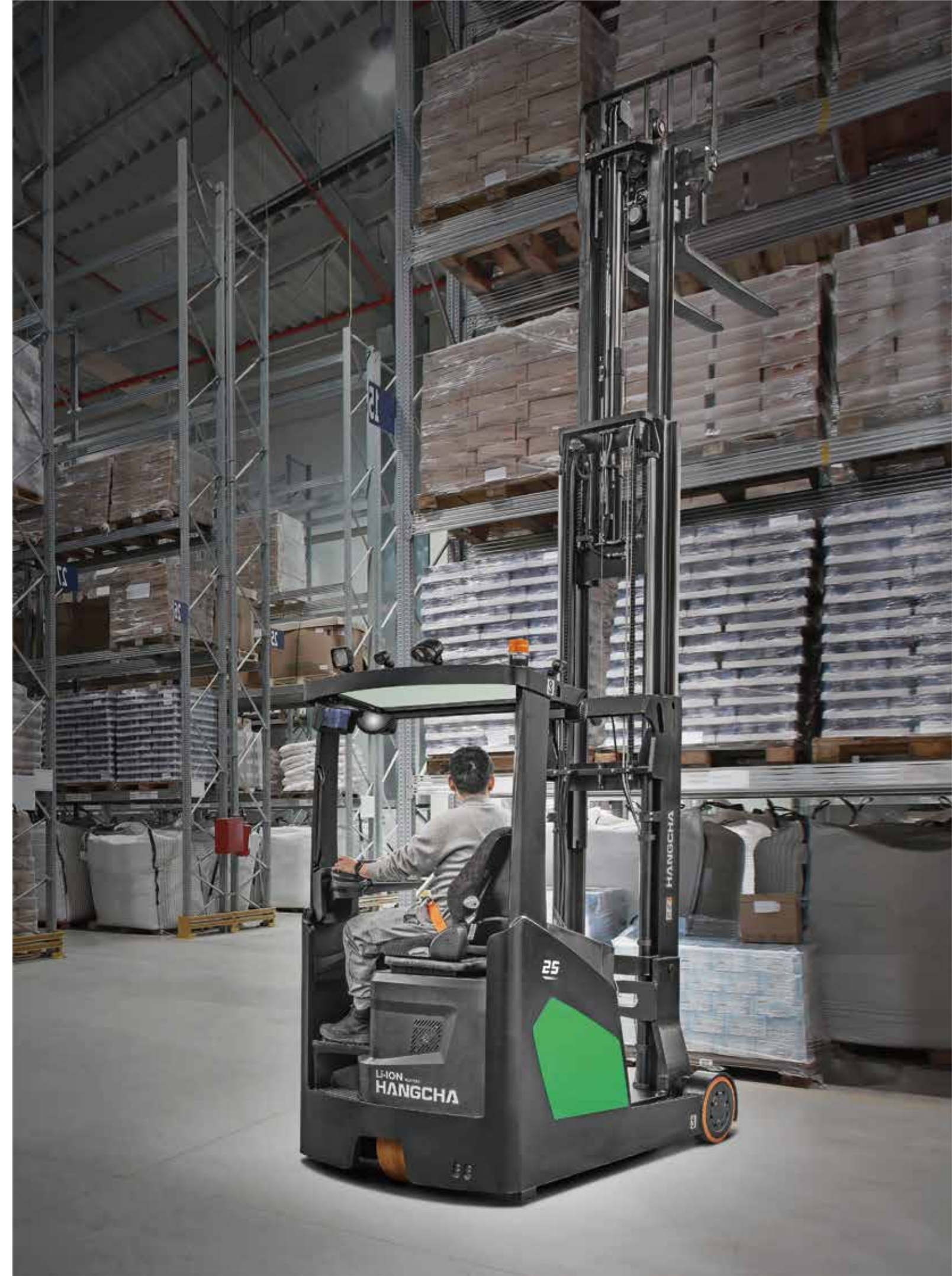
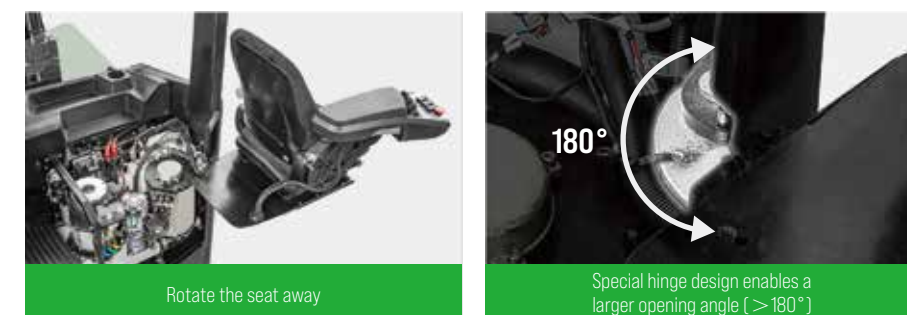
Remove battery pack step



The hood can be easily dismantled and mounted to facilitate routine maintenance operations.



The seat can be turned open at a large angle, which is convenient for maintenance work.



WE GIVE YOU ALL THE OPTIONS



Stacking and retrieval via video monitoring

Our video camera allows for the precise and quick access of extremely high locations. The position of the camera on the forks enables operators to efficiently and reliably control stacking and retrieval operations from their seating position/viewpoint. They no longer have to look up, which noticeably reduces the strain on their shoulders and neck. Also, information on the pallets is easily visible, even at great heights.



Easier stacking and retrieval with positioning laser

Our positioning lasers significantly simplify the stacking and retrieval process and increase the safety for load and rack. The laser sources are integrated into the fork tips, projecting a red line on the area ahead. This allows the operator to adjust the fork more accurately to be able to drive effortlessly into the pallet.



Easy access

Easy access protects the reach truck against unauthorised use. Authorisation management is directly controlled via the truck's display. Customised to your requirements and company size – you can choose between the key[Std.], PIN code and transponder.



Safety at any blind spots with Floor Spot

Floor Spot projects a blue dot on the floor around the truck. Especially at blind intersections or at the end of rack aisles, the Floor Spot alerts an approaching truck in time to respond.



100% clear view thanks to panorama roof panel

Maximum visibility: The panorama roof panel without cross beams provides maximum visibility of the goods and forks.



Optimum traction via traction control system

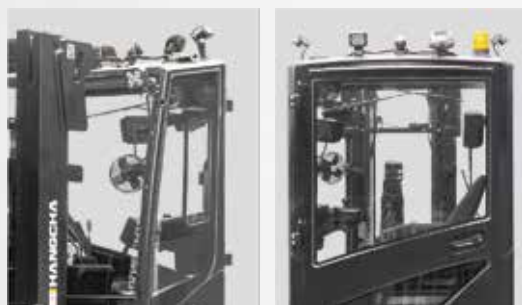
Optimum traction is ensured with braking of the drive wheel, which would otherwise spin on wet or dusty floors.

XC Series Reach Truck With Cab Is A **COLD STORAGE PRODUCT**

(meeting the -30°C cold storage environment).



/ The front, rear, top, and side windows are all made of large area tempered glass, and are equipped with front, rear, and top window wipers as standard to enhance the driver's visibility.



/ High power fan heater is optional to further increase the temperature in the cab (test data: the temperature in the cab can be increased to 10°C by operating in the -30°C cold storage).



Equipped with a fully enclosed cab, it has excellent performance in rust prevention, short circuit prevention, waterproofing, and insulation, meeting the usage environment of -30°C (test data: operating in a -30°C cold storage, the cab temperature is higher than 0°C).





Features

NO.	System	Features	CQD14/16/18/20/25-XC5-SI★	CQD14/16/18/20/25-XC5D-SI★	CQD14/16/18/20/25-XC5-SIJS★	CQD14/16/18/20/25-XC5D-SIJS★
1	Applicable environment	Cold storage model (-30 °C)	○	○	●	●
2		Full closed cab	/	/	●	●
3	Control	Control with a mechanical control lever	●	/	●	/
4		Control with a fingertip switch	/	●	/	●
5		Mini lever	/	●	/	●
6		5th valve	○	○	○	○
7		Height display	○ (Only for triplex mast, excluding the free lift range)	● (Including the free lift range)	○ (Only for triplex mast, excluding the free lift range)	● (Including the free lift range)
8		Height selection	○ (Only for triplex mast, excluding the free lift range)	● (Including the free lift range)	○ (Only for triplex mast, excluding the free lift range)	● (Including the free lift range)
9		Height limit	○ (Only for triplex mast, excluding the free lift range)	● (Including the free lift range)	○ (Only for triplex mast, excluding the free lift range)	● (Including the free lift range)
10		Central sideshift	/	○	/	○
11		Horizontal fork alignment	/	○	/	○
12		Mast damping system	/	○	/	○
13		Mast reach damping system	●	●	●	●
14		Electric lowering limit - Stop forks above outriggers if mast is retracted	○	○	○	○
15		Soft landing system	/	○	/	○
16		Lifting damping system	●	●	●	●
17		Drive control limit	●	●	●	●
18		Drive wheel skid control system	○	○	○	○
19		Battery lock with creep speed interlock	●	●	●	●
20		Travelling speed control at corner	●	●	●	●
21		180° steering mode	●	●	●	●
22		360° steering mode	○	○	○	○
23	Transmission system	ZF transmission	●	●	●	●
24	Electronic accessories	USB power socket	●	●	●	●
25		Fork-mounted video monitoring and positioning laser (wireless power supply)	○	○	○	○
26		Fork-mounted video monitoring and positioning laser (wired power supply)	○	○	○	○
27		Fork carriage-mounted video monitoring and positioning laser (wired power supply)	○	○	○	○
28		Keyed start	●	●	●	●
29		Start with a PIN code or by a card	○	○	○	○
30		Beep	○	○	○	○
31		Operating light (in the direction of the fork)	●	●	●	●
32		Operating light (in the reverse direction of the fork)	○	○	○	○
33		Alarm light	●	●	●	●
34		Blue light	○	○	○	○
35		Three-sided one line laser projection light	○	○	○	○
36		Reading light in the car	/	/	●	●
37		Double -speed wind speed heater	/	/	●	●
38		Electric fan	○	○	○	○
39		The front window glass double -speed wiper	/	/	●	●
40		Back window glass double -speed wiper	/	/	●	●
41		Top window glass double -speed wiper	/	/	●	●
42		Front window glass spray water	/	/	●	●
43	Ergonomic design	Electrical adjustment of pedal height	○	○	○	○
44		Adjustable steering wheel	●	●	●	●
45	Fault Diagnosis	Instrument angle adjustment	●	●	●	●
46		Suctioned oil filter clogging alarm	○	○	○	○
47	Seat	Backflow oil filter clogging alarm	○	●	○	●
48		Sequential Seat Belt Interlock System	●	●	●	●
49	Other	BF6-3 suspension seat	●	/	●	/
50		MSG65/522 suspension seat	○	●	/	●
51	Other	Panorama roof	○	○	●	●
52		PVC ceiling	○	○	/	/
53		Drive-in overhead guard	○	○	/	/
54		Side guards for load wheels	○	○	○	○
55		Multi-function equipment mounting bracket	○	○	/	/
56		The side glass can be opened	/	/	●	●
57		Window breaker	/	/	●	●
58		Battery side roll out ¹⁾	○	○	○	○
59		Curved rearview mirror	○	○	○	○
60		Left and right rear view mirrors	○	○	/	/
61		Load backrest	●	●	●	●
62		Fire extinguisher	○	○	○	○
63		OPS system	●	●	●	●
64		Simultaneous lift and reach ²⁾	/	○	/	○

Note: ● Standard; ○ Optional ; /Not available

★ CE model

1) CQD20-XC5-SI, CQD20-XC5D-SI, CQD20-XC5-SIJS, and CQD20-XC5D-SIJS, when equipped with a mast of 12 meters or above, battery side extraction is not available.

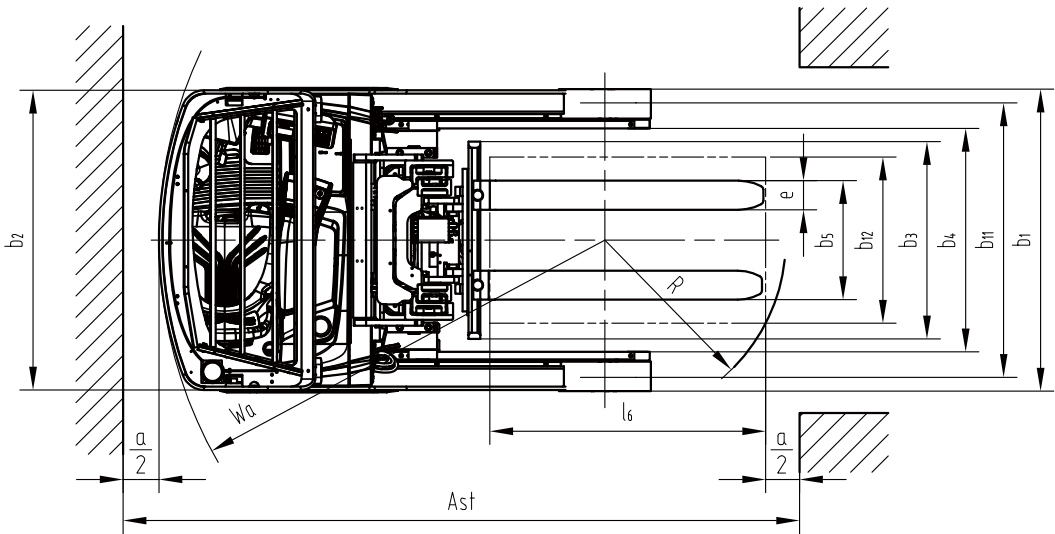
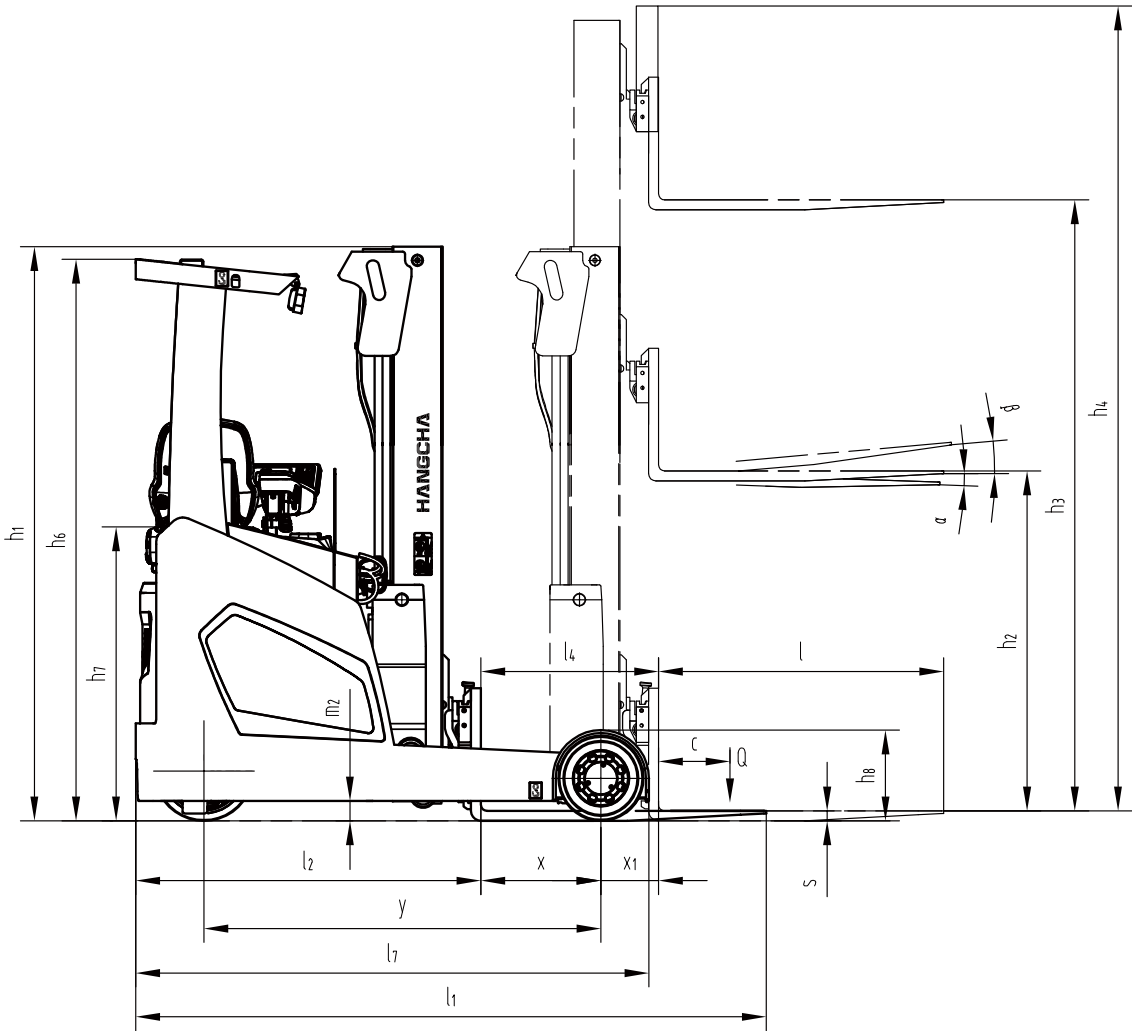
CQD14-XC5-SI, CQD14-XC5D-SI, CQD14-XC5-SIJS, and CQD14-XC5D-SIJS, when equipped with a high-capacity battery, battery side extraction is not available.

2) (The lift speed will reduced by 10%, and reach speed will reduced by 30%).

XC Series Reach Truck With Lithium Power Specification

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.					
	1.2	Manufacturer's type designation		CQD14-XC5-SI* CQD14-XC50-SI*	CQD16-XC5-SI* CQD16-XC50-SI*	CQD18-XC5-SI* CQD18-XC50-SI*	CQD20-XC5-SI* CQD20-XC50-SI*	CQD25-XC5-SI* CQD25-XC50-SI*	
	1.3	Drive: electric		Electric	Electric	Electric	Electric	Electric	
	1.4	Operator type		Seated	Seated	Seated	Seated	Seated	
	1.5	Rated capacity/rated load	Q (kg)	1400	1600	1800	2000	2500	
	1.6	Load centre distance	c (mm)	600	600	600	600	600	
	1.8	Load distance, centre of drive axle to fork	x (mm)	360 ⁽¹⁾	410 ⁽¹⁾	385	362 ⁽²⁰⁾	484 ⁽²⁰⁾	
	1.9	Wheelbase	y (mm)	1355	1405	1405	1471	1601	
Weight	2.1	Service weight (incl.battery)	kg	3330	3370	3370	3470	3620	
		Service weight (without battery)	kg	3055	3095	3095	3195	3345	
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	
	3.2	Tyre size, front		Ø343×140	Ø343×140	Ø343×140	Ø343×140	Ø400×160	
	3.3	Tyre size, rear		Ø285×100	Ø285×100	Ø285×100	Ø343×108	Ø343×108	
	3.5	Wheels, number front / rear (x = driven wheels)		1×/2	1×/2	1×/2	1×/2	1×/2	
	3.7	Tread, rear	b11(mm)	1170	1170	1170	1162	1162	
Dimensions	4.1	Tilt of fork carriage forward/backward	α/β(°)	2/5	2/5	2/5	2/5	2/5	
	4.2	Height, mast lowered	h1 (mm)	2100	2100	2100	2100	2100	
	4.3	Free lift	h2 (mm)	105	105	110	110	110	
	4.4	Lift	h3 (mm)	3000	3000	3000	3000	3000	
	4.5	Height, mast extended	h4 (mm)	3965	3965	3965	3965	3965	
	4.7	Height of overhead guard	h6 (mm)	2264	2264	2264	2264	2264	
	4.8	Seat height relating to SIP	h7 (mm)	1159	1159	1159	1159	1159	
	4.19	Overall length	l1 (mm)	2400 ⁽³⁾	2400 ⁽³⁾	2425	2514 ⁽²¹⁾	2542 ⁽²¹⁾	
	4.20	Length to face of forks	l2 (mm)	1250 ⁽³⁾	1250 ⁽³⁾	1275	1364 ⁽²¹⁾	1392 ⁽²¹⁾	
	4.21	Overall width	b1/b2(mm)	1270/1270	1270/1270	1270/1270	1270/1270	1270/1270	
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	40×122×1150 ⁽²⁵⁾	40×122×1150 ⁽²⁵⁾	40×122×1150	40×122×1150	40×122×1150	
	4.23	Fork carriage ISO 2328, class/type A,B		2A	2A	2A	2A	2A	
	4.24	Fork-carriage width	b3 (mm)	830	830	830	830	830	
	4.25	Distance between fork-arms	b5 (mm)	750	750	750	750	750	
	4.26	Distance between wheel-arms	b4 (mm)	940	940	940	940	940	
	4.28	Reach distance	l4 (mm)	571 ⁽⁴⁾	621 ⁽⁴⁾	588	594 ⁽²⁰⁾	716 ⁽²⁰⁾	
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	80	80	80	80	80	
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2687 ⁽⁵⁾	2701 ⁽⁵⁾	2719	2802 ⁽²²⁾	2867 ⁽²⁴⁾	
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2740 ⁽⁵⁾	2745 ⁽⁵⁾	2768	2855 ⁽²³⁾	2896 ⁽²⁵⁾	
	4.35	Turning radius	Wa (mm)	1610	1660	1660	1726	1876	
	4.37	Length across wheel arms	l7 (mm)	1775	1825	1825	1920	2070	
	Performance data	5.1	Travel speed,laden/unladen	km/h	14/14	14/14	14/14	14/14	14/14
		5.2	Lift speed, laden/unladen	m/s	0.61/0.81	0.59/0.81	0.5/0.7	0.48/0.7	0.45/0.7
5.3		Lowering speed, laden/unladen	m/s	XC5:0.52/0.52	XC5:0.52/0.52	XC5:0.52/0.52	XC5:0.52/0.52	XC5:0.52/0.52	
				XC50:0.56/0.56	XC50:0.56/0.56	XC50:0.56/0.56	XC50:0.56/0.56	XC50:0.56/0.56	
5.4		Reaching speed, laden/unladen	mm/s	240/240	240/240	200/200	200/200	200/200	
5.8		Max. gradeability, laden/unladen	%	10/15	10/15	10/15	10/15	10/15	
5.10		Service brake		Electric+Mech.	Electric+Mech.	Electric+Mech.	Electric+Mech.	Electric+Mech.	
	Parking brake		Electric	Electric	Electric	Electric	Electric		
Electric-engine	6.1	Drive motor rating S2 60 min	kW	8.1 AC	8.1 AC	8.1 AC	8.1 AC	8.1 AC	
	6.2	Lift motor rating at S3 15%	kW	20 AC	20 AC	20 AC	20 AC	20 AC	
	6.3	Battery acc. to DIN 43531/35/36 A,B,C, no		no	no	no	no	no	
		Battery voltage, nominal capacity	V/Ah	80 /250	80 /250	80 /250	80 /250	80 /250	
		Battery weight	kg	275	275	275	275	275	

Note: 1) h3=7000mm;-25mm; 2) h3=7000mm;-8mm; 3) h3=7000mm;+25mm; 4) h3=7000mm;-33mm; 5) h3=7000mm;+19mm; 6) h3=7000mm;+23mm; 20) h3≥12000mm;-150mm; 21) h3≥12000mm;+150mm; 22) h3≥12000mm;+115mm; 23) h3≥12000mm;+137mm; 24) h3≥12000mm;+105mm; 25) h3≥12000mm;+134mm; 26) With optional Full free triple mast:35×100×1150.

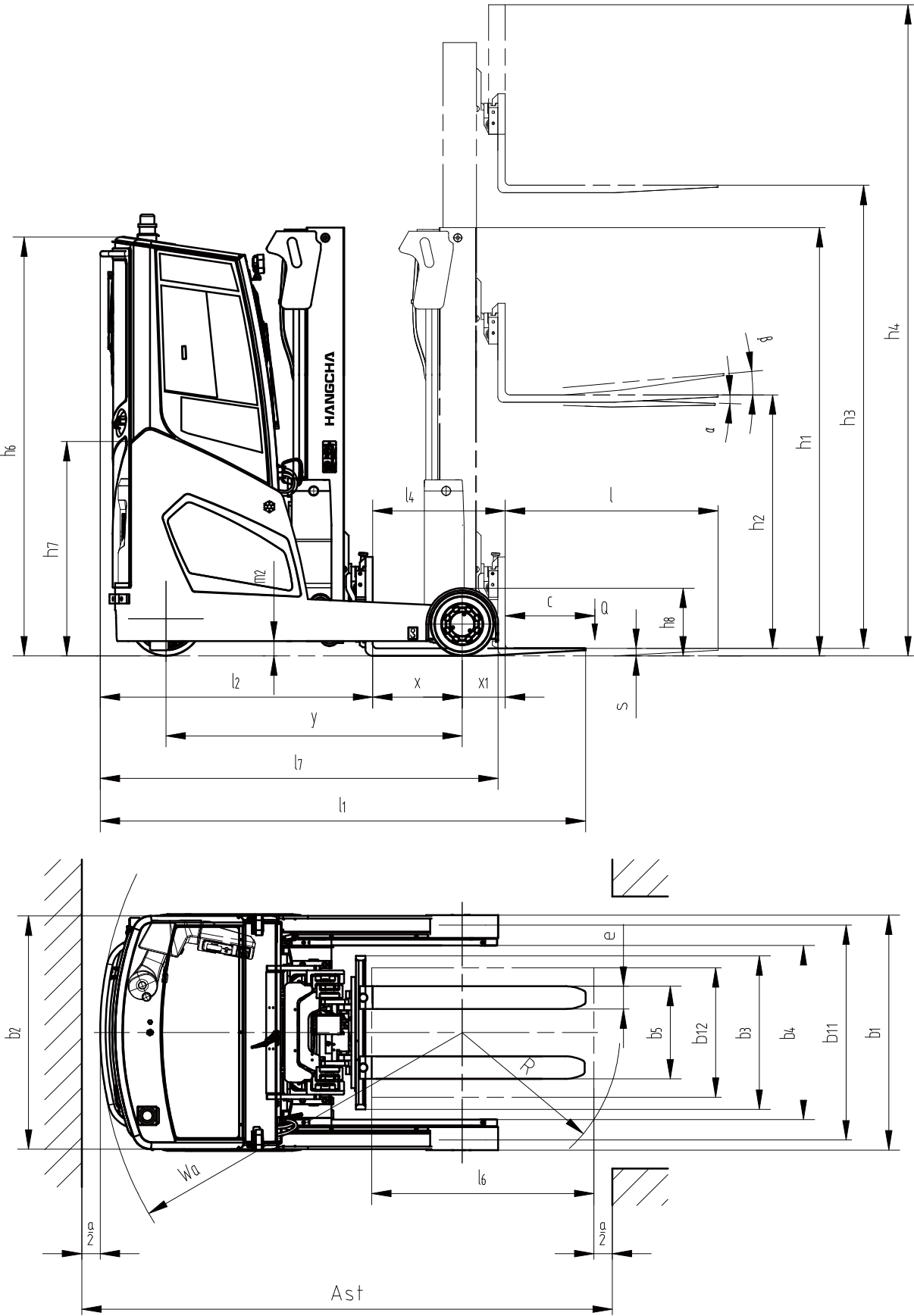


$$A_{\text{st}} = W_{\text{a}} + R + a = W_{\text{a}} + \sqrt{(l_6 - x)^2 + \left(\frac{b_{12}}{2}\right)^2} + a$$

XC Series Reach Truck With Cab Specification

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.				
	1.2	Manufacturer's type designation		CQD14-XC5D-SUS* CQD14-XC5-SUS*	CQD16-XC5D-SUS* CQD16-XC5-SUS*	CQD18-XC5D-SUS* CQD18-XC5-SUS*	CQD20-XC5D-SUS* CQD20-XC5-SUS*	CQD25-XC5D-SUS* CQD25-XC5-SUS*
	1.3	Drive: electric		Electric	Electric	Electric	Electric	Electric
	1.4	Operator type		Seated	Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	1400	1600	1800	2000	2500
	1.6	Load centre distance	c (mm)	600	600	600	600	600
Weight	1.8	Load distance, centre of drive axle to fork	x (mm)	282 ²⁾	332 ²⁾	307	362 ²⁰⁾	484 ²⁰⁾
	1.9	Wheelbase	y (mm)	1355	1405	1405	1471	1601
	2.1	Service weight(incl.battery)	kg	3460	3500	3500	3600	3681
Tyres, chassis		Service weight(without battery)	kg	3185	3225	3225	3325	3406
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
	3.2	Tyre size, front		Ø343×140	Ø343×140	Ø343×140	Ø343×140	Ø400×160
	3.3	Tyre size, rear		Ø285×100	Ø285×100	Ø285×100	Ø343×108	Ø343×108
	3.5	Wheels, number front / rear (x = driven wheels)		1×/2	1×/2	1×/2	1×/2	1×/2
Dimensions	3.7	Tread, rear	b11(mm)	1170	1162	1170	1162	1162
	4.1	Tilt of fork carriage forward/backward	α/β(°)	2/5	2/5	2/5	2/5	2/5
	4.2	Height, mast lowered	h1(mm)	2100	2100	2100	2100	2100
	4.3	Free lift	h2 (mm)	105	105	110	110	110
	4.4	Lift	h3 (mm)	3000	3000	3000	3000	3000
	4.5	Height, mast extended	h4 (mm)	3965	3965	3965	3965	3965
	4.7	Height of overhead guard	h6 (mm)	2264	2264	2264	2264	2264
	4.8	Seat height relating to SIP	h7 (mm)	1159	1159	1159	1159	1159
	4.19	Overall length	l1 (mm)	2558 ³⁾	2558 ³⁾	2425	2594 ²¹⁾	2622 ²¹⁾
	4.20	Length to face of forks	l2 (mm)	1408 ³⁾	1408 ³⁾	1433	1444 ²⁰⁾	1472 ²¹⁾
	4.21	Overall width	b1/b2(mm)	1270/1270	1270/1270	1270/1270	1270/1270	1270/1270
	4.22	Fork dimensions DIN ISO 2331	s/e/l (mm)	40×122×1150 ²¹⁾	40×122×1150 ²¹⁾	40×122×1150	40×122×1150	40×122×1150
	4.23	Fork carriage ISO 2328, class/type A,B		2A	2A	2A	2A	2A
	4.24	Fork carriage width	b3 (mm)	830	830	830	830	830
	4.25	Distance between fork-arms	b5 (mm)	750	750	750	750	750
	4.26	Distance between wheel-arms	b4 (mm)	940	940	940	940	940
	4.28	Reach distance	l4 (mm)	493 ⁴⁾	543 ⁴⁾	510	594 ⁴⁰⁾	716 ²⁰⁾
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	80	80	80	80	80
	4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2826 ³⁾	2838 ³⁾	2857	2882 ²²⁾	2947 ²⁴⁾
	4.34.2	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2891 ⁴⁾	2896 ⁴⁾	2918	2935 ²³⁾	2976 ²⁵⁾
Performance data	4.35	Turning radius	Wa (mm)	1690	1740	1740	1806	1956
	4.37	Length across wheel arms	l7 (mm)	1855	1905	1905	2000	2150
	5.1	Travel speed,laden/unladen	km/h	14/14	14/14	14/14	14/14	14/14
	5.2	Lift speed, laden/unladen	m/s	0.61/0.81	0.59/0.81	0.5/0.7	0.48/0.7	0.45/0.7
	5.3	Lowering speed, laden/unladen	m/s	XC5:0.52/0.52 XC5D:0.56/0.56	XC5:0.52/0.52 XC5D:0.56/0.56	XC5:0.52/0.52 XC5D:0.56/0.56	XC5:0.52/0.52 XC5D:0.56/0.56	XC5:0.52/0.52 XC5D:0.56/0.56
Electric-engine	5.4	Reaching speed, laden/unladen	mm/s	240/240	240/240	200/200	200/200	200/200
	5.8	Max. gradeability, laden/unladen	%	10/15	10/15	10/15	10/15	10/15
	5.10	Service brake		Electric+Mech.	Electric+Mech.	Electric+Mech.	Electric+Mech.	Electric+Mech.
Electric-engine		Parking brake		Electric	Electric	Electric	Electric	Electric
	6.1	Drive motor rating S2 60 min	kW	8.1 AC	8.1 AC	8.1 AC	8.1 AC	8.1 AC
	6.2	Lift motor rating at S3 15%	kW	20 AC	20 AC	20 AC	20 AC	20 AC
	6.3	Battery acc. to DIN 43531/35/36 A,B,C, no		no	no	no	no	no
		Battery voltage, nominal capacity	V/Ah	80 /250	80 /250	80 /250	80 /250	80 /250
Electric-engine		Battery weight	kg	275	275	275	275	275

Note: 1) h3>7000mm:-25mm. 2) h3>7000mm:-8mm. 3) h3>7000mm:+25mm. 4) h3>7000mm:-33mm. 5) h3>7000mm:+19mm. 6) h3>7000mm:+23mm. 20) h3≥12000mm:-150mm.
21) h3≥12000mm:+150mm. 22) h3≥12000mm:+115mm. 23) h3≥12000mm:+137mm. 24) h3≥12000mm:+105mm. 25) h3≥12000mm:+134mm; 26) With optional Full free triple mast:35×100×150.
★ CE model



Ast=Wa+R+a=

$$Wa+\sqrt{(l_6-x)^2+(\frac{b_{12}}{2})^2}+a$$

1.4t Residual Load Capacity Chart

Capacity(kg)	Load center distance(mm)							
	600	700	800	900	1000	1100	1200	
Lifting height (mm)	≤6000	1400	1210	1070	920	780	660	550
	6500	1300	1120	990	840	720	600	490
	7000	1200	1030	910	770	650	540	430
	7500	1100	940	830	700	580	470	370
	8000	1050	900	790	660	550	440	350
	8500	1000	850	750	620	510	410	320
	9000	900	770	670	550	450	350	260
	9500	800	680	590	480	380	290	200
	10000	700	590	510	400	310	230	150
	10500	550	450	390	300	210	130	60
	11000	350	280	230	150	80	10	0

1.6t Residual Load Capacity Chart

Capacity(kg)	Load center distance(mm)							
	600	700	800	900	1000	1100	1200	
Lifting height (mm)	≤6000	1600	1390	1230	1060	920	780	660
	6500	1500	1300	1150	990	850	720	610
	7000	1400	1210	1070	920	780	660	550
	7500	1300	1120	990	840	710	600	490
	8000	1250	1080	950	810	680	570	460
	8500	1200	1030	910	770	650	530	430
	9000	1100	940	830	700	580	470	370
	9500	1000	850	750	620	510	410	320
	10000	900	770	670	550	450	350	260
	10500	750	630	550	440	350	260	170
	11000	550	450	390	300	210	130	60

1.8t Residual Load Capacity Chart

Capacity(kg)	Load center distance(mm)							
	600	700	800	900	1000	1100	1200	
Lifting height (mm)	≤6000	1800	1570	1390	1210	1050	900	780
	6500	1700	1480	1310	1130	980	840	720
	7000	1600	1390	1230	1060	910	780	660
	7500	1500	1300	1150	990	850	720	600
	8000	1450	1250	1110	950	810	690	570
	8500	1400	1210	1070	910	780	660	550
	9000	1300	1120	980	840	710	600	490
	9500	1200	1030	910	770	650	530	430
	10000	1100	940	830	700	580	470	370
	10500	950	810	710	590	480	380	290
	11000	750	630	550	440	350	260	170
	11500	550	450	390	300	210	130	60

2.0t Residual Load Capacity Chart

Capacity(kg)	Load center distance(mm)							
	600	700	800	900	1000	1100	1200	
Lifting height (mm)	≤6500	2000	1750	1560	1360	1200	1040	910
	7000	1950	1710	1520	1330	1160	1010	880
	7500	1850	1620	1440	1250	1090	950	820
	8000	1800	1570	1400	1220	1060	920	790
	8500	1750	1530	1360	1180	1030	890	760
	9000	1650	1440	1280	1110	960	830	700
	9500	1550	1350	1190	1030	890	760	650
	10000	1450	1260	1110	960	820	700	590
	10500	1300	1130	990	850	720	610	500
	11000	1000	860	750	630	520	420	330
	11500	800	680	590	480	390	290	210
	12000	750	630	550	450	350	260	180
	12500	650	550	470	370	280	200	120
	13000	500	410	350	260	180	110	40

2.0t Residual Load Capacity Chart(Truck With Cab)

Capacity(kg)	Load center distance(mm)							
	600	700	800	900	1000	1100	1200	
Lifting height (mm)	≤6500	2000	1750	1560	1360	1200	1040	910
	7000	1950	1710	1520	1330	1160	1010	880
	7500	1850	1620	1440	1250	1090	950	820
	8000	1800	1570	1400	1220	1060	920	790
	8500	1750	1530	1360	1180	1030	890	760
	9000	1650	1440	1280	1110	960	830	700
	9500	1550	1350	1190	1030	890	760	650
	10000	1450	1260	1110	960	820	700	590
	10500	1300	1130	990	850	720	610	500
	11000	1000	860	750	630	520	420	330
	11500	800	680	590	480	390	290	210
	12000	650	530	450	350	250	160	80
	12500	550	450	370	270	180	100	20
	13000	400	310	250	160	80	10	-

2.5t Residual Load Capacity Chart(Truck With Cab)

Capacity(kg)		Load center distance(mm)						
		600	700	800	900	1000	1100	1200
Lifting height (mm)	≤6500	2500	2200	1960	1730	1530	1360	1200
	7000	2450	2150	1920	1700	1500	1330	1170
	7500	2350	2060	1840	1620	1430	1260	1110
	8000	2300	2020	1800	1590	1400	1230	1080
	8500	2250	1970	1760	1550	1360	1200	1050
	9000	2150	1880	1680	1480	1300	1140	990
	9500	2050	1800	1600	1400	1230	1080	940
	10000	1950	1710	1520	1330	1160	1010	880
	10500	1800	1570	1400	1220	1060	920	790
	11000	1500	1300	1150	1000	860	730	620
Lifting height (mm)	11500	1300	1130	990	850	720	610	500
	12000	1150	980	850	710	590	480	370
	12500	1050	890	770	640	520	410	310
	13000	900	760	650	530	420	320	230