

CQD15S2

ELECTRIC STAND-ON REACH TRUCK 1500KG

 1500 kg  6500 mm  48 V Lead Acid



The CQD15,18S2 stand-on reach truck is ideal for quick retrieving and stacking in e-commerce, retail logistics, and production lines. It also offers the cold storage option to cover applications in low-temperature conditions like the fresh food and biochemical industries.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			CQD15S2
Battery voltage		V	48
Battery voltage/nominal capacity		V/Ah	48/300
Rated capacity	Q	kg	1500
Load centre distance	c	mm	500
Service weight		kg	2720
Height, mast lowered	h ₁	mm	2065
Lift	h ₃	mm	4500
Height, mast extended	h ₄	mm	5530
Overall length	l ₁	mm	2055
Overall width	b ₁ /b ₂	mm	1090/1170
Length to face of forks	l ₂	mm	1245
Fork dimensions	s/e/l	mm	40×100×920
Turning radius	Wa	mm	1597
Drive			Electric

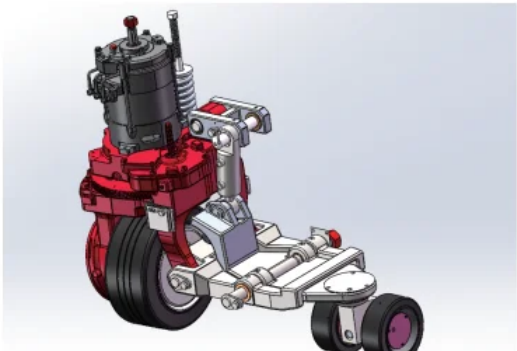
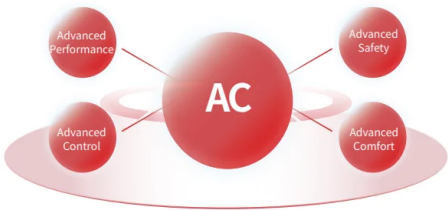
Features

Advanced full-AC power system

The CQD15,18S2 is equipped with a fully AC-powered motor system, comprising a 4.3 kW drive motor and a 9.0 kW lift motor. The system is designed to deliver high output with improved energy efficiency, more accurate control and reduced maintenance requirements.

It brings:

- Smart power response system simplifies the control.
- High-torque output supports stronger loading performance.
- Energy-efficient AC motor design reduces consumption and boosts uptime.
- Multiple drive settings adapting to different tasks and environments.
- Regenerative braking helps save energy and extend battery runtime.

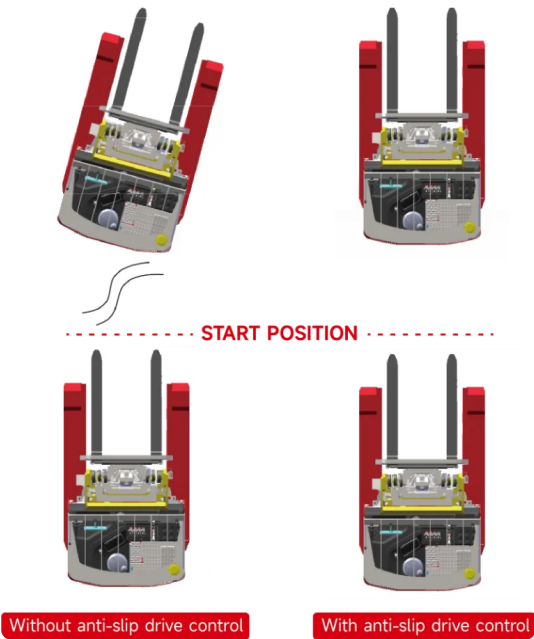


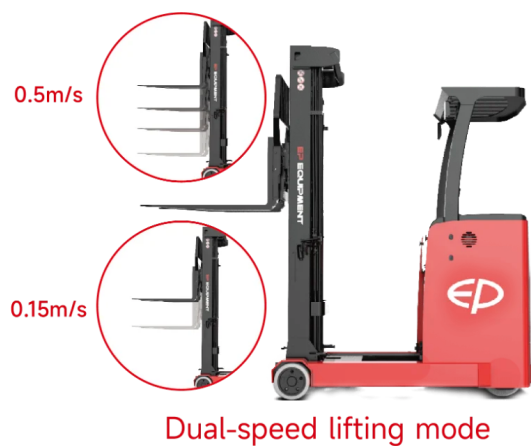
Floating suspension and anti-slip traction control

The CQD15,18S2 is equipped with an integrated floating suspension system, which can precisely calibrate lock points. It maintains stability across a wide range of conditions—from routine daily operations to demanding scenarios such as sharp turns, steep ramps, or lifting heavy loads to high positions. This optimization enhances safety and more accurate control with every maneuver.

Smart Anti-Slip Traction Drive Control System

Equipped with a smart anti-slip drive control system, the CQD15,18S2 continuously detects surface adhesion and automatically adjusts traction force output. It ensures solid grip during sudden acceleration, sharp turning, or operation on wet ramps without throttle adjustment manually. The truck is effectively protected from wheel spin, slip, or potential tip-over even during high-load operations.





OPS and Dual-Circuit Safety Pedal for Enhanced Protection

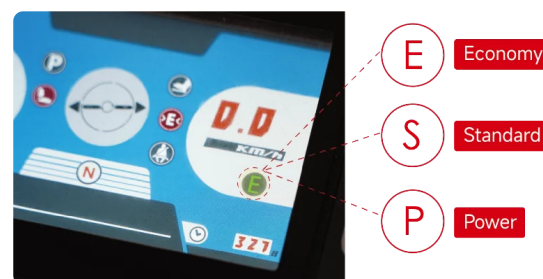
To enforce safe start-up, the CQD15,18S2 is equipped with OPS: the dual-pedal operation logic requires operator pressing both brake and presence switch pedals before truck activation .

The dual-circuit safety pedal controls both travel and hydraulic functions and features anti-slip surface for operator foot stability.

Tri-Mode Energy Management with Energy Regeneration

The CQD15,18S2 offers 3 adaptive modes -- E (Energy-saving), S (Standard), and P (Power) to better allocate power dynamically. It allows operators to adapt truck performance to different workload intensities and reduce energy consumption.

In addition, the integrated regenerative braking system captures kinetic energy during deceleration or braking phases and converts it into stored energy, further extending battery runtime.



Silent & Smooth Operation

The CQD15,18S2 incorporates a low-noise screw pump which provides the operator silent stacking and retrieving experience. Mast cushioning function in lifting and reach movements ensures gentle operation, especially when loading fragile and heavy goods.

User-Centered Cabin Design

The cabin is designed for fatigue-free operation with a lowered platform for operator easy access in and out. Also with semi-surrounding protection, soft backrest, and dual assist grips to ensure stability even during acceleration.





35% Enhanced Visibility

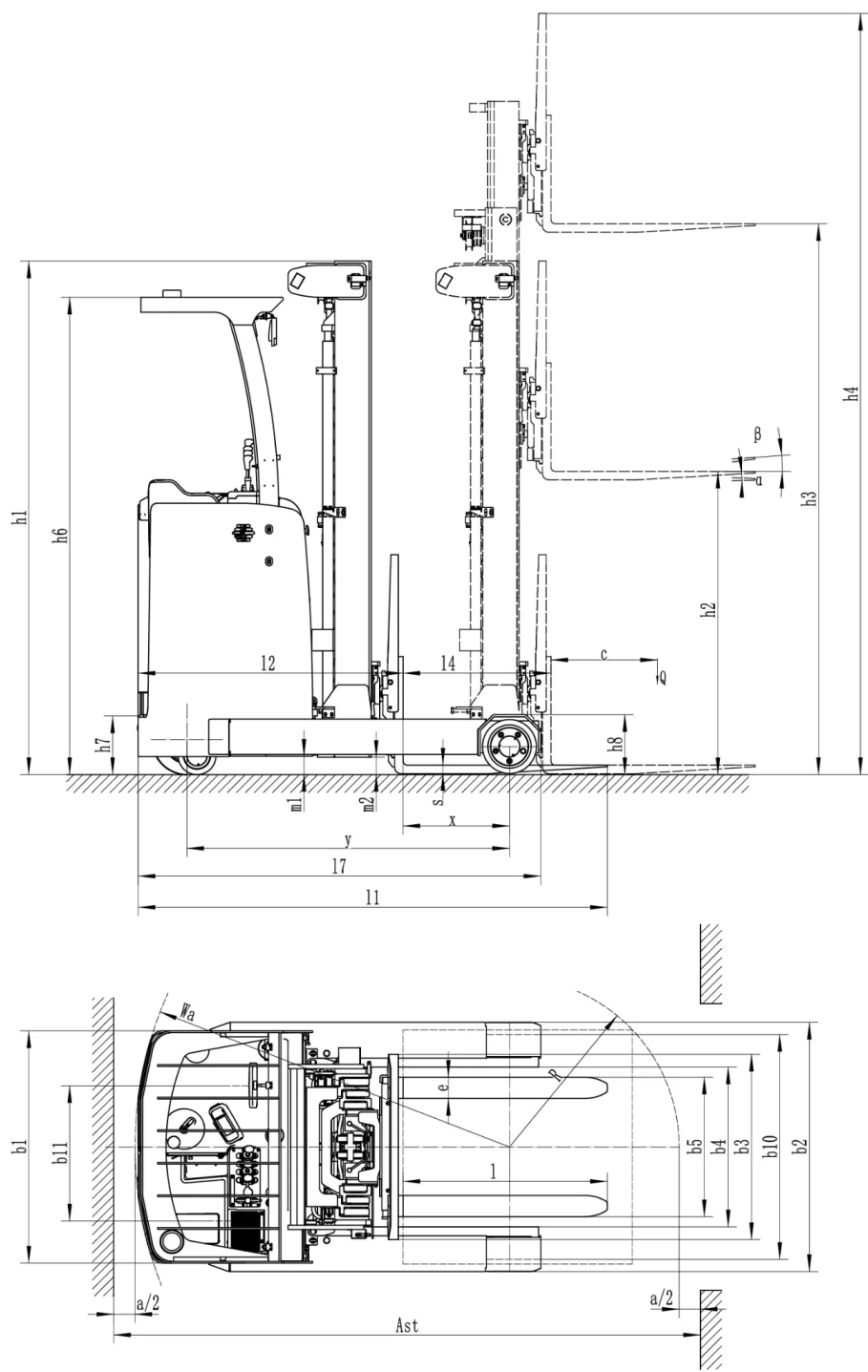
The angled overhead guard and crossbeam, along with neatly aligned hoses and chains, improve visibility by 35% compared to the previous generation—boosting both safety and productivity.

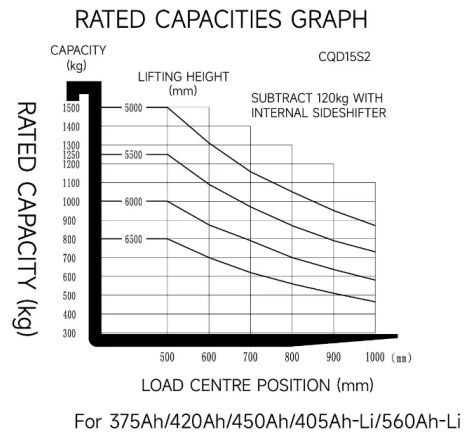
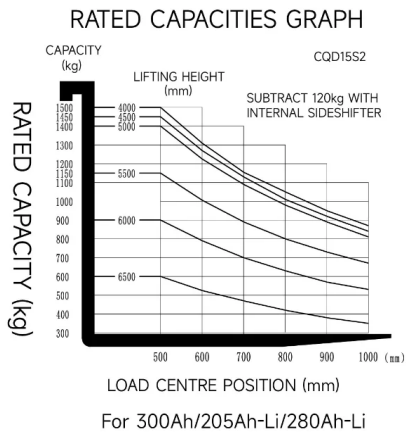
VDI Chart

SPECIFICATION		REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			CQD15S2
1.3	Drive			Electric
1.4	Operator type			standing
1.5	Rated capacity	Q	kg	1500
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork	x	mm	330
1.9	Wheelbase	y	mm	1345
2.1	Service weight		kg	2720
2.3.1	Axle loading, unladen front/rear		kg	1500/1130
2.4.1	Axle loading, fork advanced, laden front/rear		kg	479/3821
2.5.1	Axle loading, fork retracted, laden front/rear		kg	1420/2879
3.1	Tyres			Polyurethane/Solidrubber
3.2.1	Tyre size, front		mm	330×140
3.3.1	Tyre size, rear		mm	254×114
3.4	Additional wheels (castor wheels)		mm	178×73
3.5.1	Wheels, number front/rear (x=drive wheels)			1x/2
3.6.1	Tread width_front	b10	mm	635
3.7.1	Tread width_rear	b11	mm	1055
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	2/4
4.2	Height, mast lowered	h_1	mm	2065
4.3	Free lift	h_2	mm	1080
4.4	Lift	h_3	mm	4500
4.5	Height, mast extended	h_4	mm	5530
4.7	Height of overhead guard (cabin)	h6	mm	2240

	SPECIFICATION	REF	UNIT	VALUE
4.8	Seat height relating to SIP/stand height	h7	mm	275
4.10	Height of wheel arms	h8	mm	280
4.19	Overall length	l ₁	mm	2055
4.20	Length to face of forks	l ₂	mm	1245
4.21	Overall width	b ₁ /b ₂	mm	1090/1170
4.22	Fork dimensions	s/e/l	mm	40×100×920
4.23	Fork carriage ISO 2328, class/type A, B			2A
4.24	Fork carriage width	b ₃	mm	870
4.25	Distance between fork-arms	b ₅	mm	200-655
4.26	Distance between wheel arms/loading surfaces	b ₄		750
4.28	Reach distance	l ₄	mm	525
4.31	Ground clearance, laden, below mast	m ₁	mm	80
4.32	Ground clearance, centre of wheelbase	m ₂	mm	80
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2700
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2750
4.35	Turning radius	Wa	mm	1597
4.37	Length across wheel arms	l ₇	mm	1722
5.1	Travel speed, laden/unladen		km/h	9.5/10.5
5.2	Lift speed, laden/unladen		m/s	0.30/0.50
5.3	Lowering speed, laden/unladen		m/s	0.54/0.50
5.4	Reaching speed, laden /unladen		m/s	0.2
5.8	Max. gradeability, laden/unladen		%	10/15
5.10	Service brake			Mechanical
5.11	Parking brake			Mechanical
6.1	Drive motor rating S2 60 min		kW	4.3
6.2	Lift motor rating at S3 15%		kW	9
6.4	Battery voltage/nominal capacity		V/Ah	48/300
6.4.1	Battery voltage		V	48
6.4.2	Battery nominal capacity K5		Ah	300
6.4.3	Battery type			Lead Acid
6.5	Battery weight		kg	495
8.1	Type of drive unit			AC
10.5	Steering design			Electronic
10.7	Sound pressure level at the driver's seat		dB(A)	70
15.1	Charger output current		A	40

VDI Drawing





Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
2-Wide Mast	2500	1745	3025	3530	410	410
2-Wide Mast	2700	1845	3225	3730	410	410
2-Wide Mast	3000	1995	3525	4030	410	410
2-Wide Mast	3300	2145	3825	4330	410	410
2-Wide Mast	3500	2245	4025	4530	410	410
2-Wide Mast	3700	2345	4225	4730	410	410
2-Wide Mast	4000	2495	4525	5030	410	410
2-Wide Mast	4300	2745	4925	5430	410	410
2-Wide Mast	4500	2845	5125	5630	410	410
2-Wide Mast	4700	2945	5325	5830	410	410
2-Wide Mast	5000	3095	5625	6130	410	410
3-Free Mast	4000	1895	4565	5030	1388	910
3-Free Mast	4500	2065	5065	5530	1558	1080
3-Free Mast	5000	2245	5565	6030	1738	1260
3-Free Mast	5500	2410	6065	6530	1898	1420
3-Free Mast	6000	2595	6565	7030	2088	1610

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
3-Free Mast	6500	2760	7065	7530	2248	1770

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	100*40*1070 100*40*920 100*40*1150 100*40*1220 Can be customized
Drive wheel material	Rubber
Battery capacity	48V205AH 48V280AH 48V405AH 48V560AH
Charger	48V-100A 48V-150A 48V-200A
Attachments	No Built-in sideshifter
Lead-acid battery capacity	48V300AH 48V375AH 48V450AH
Lead-acid charger	48V-40A 48V-50A
Front lamp	LED
Rear lamp	No LED
Warning lamp	LED
Blue lamp	No Rear Front and rear Front
Area warning lamp	No Both sides Both sides and rear
Rearview mirror	One in front
Buzzer	Buzzer
Camera	No Wireless camera
OPS system	Yes and not customized
USB interface	No USB TYPE A/C
Telematics	No Yes and not customized
Battery side pull function	No Yes and not customized
Forks tilt forward and backward	Yes and not customized
Overhead guard	standard for drive-in racking
Turn speed control	Yes and not customized
Operator identification device	No Card reader
Hydraulic system operating mode	Mechanical lever
Fire extinguisher holder	No Yes and not customized