

CQD18S2

ELECTRIC STAND-ON REACH TRUCK 1800KG

 1800 kg  7500 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			CQD18S2
Battery voltage		V	48
Rated capacity	Q	kg	1800
Load centre distance	c	mm	500
Service weight		kg	2760
Height, mast lowered	h ₁	mm	2595
Lift	h ₃	mm	6000
Height, mast extended	h ₄	mm	7030
Overall length	l ₁	mm	2160
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	1760
Drive			Electric
Operator type			Stand-on

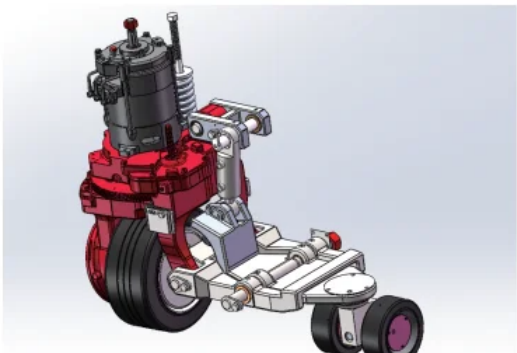
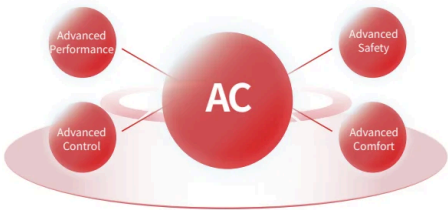
Features

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.

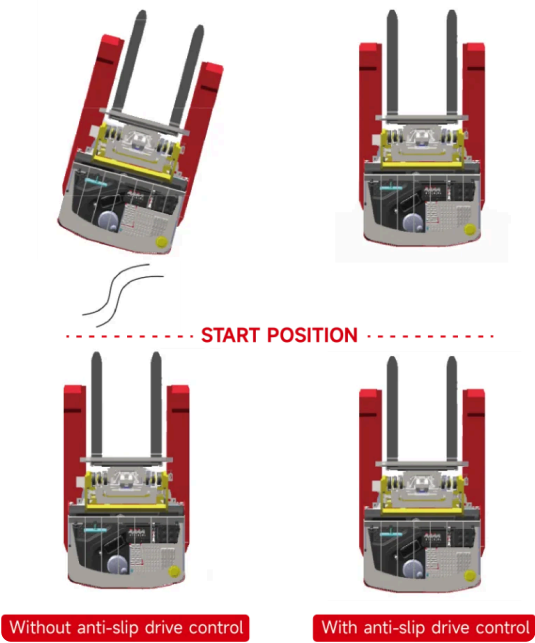


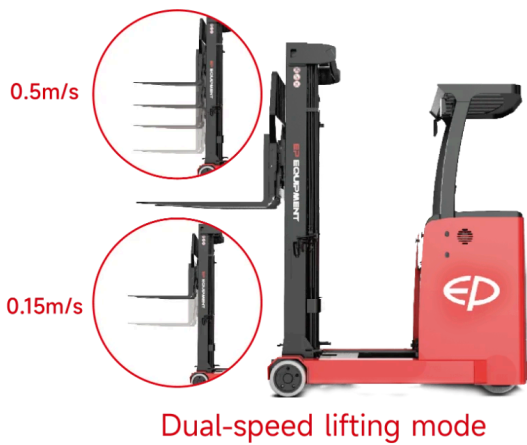
Floating suspension and anti-slip traction control

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

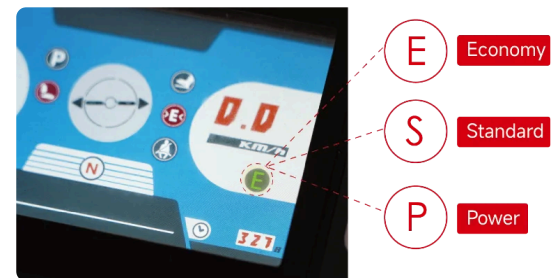
To enforce safe start-up, the CQD15,18S2 is equipped with OPS: the dual-pedal operation logic requires operator pressing both brake and presence switch pedals before truck activation .

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

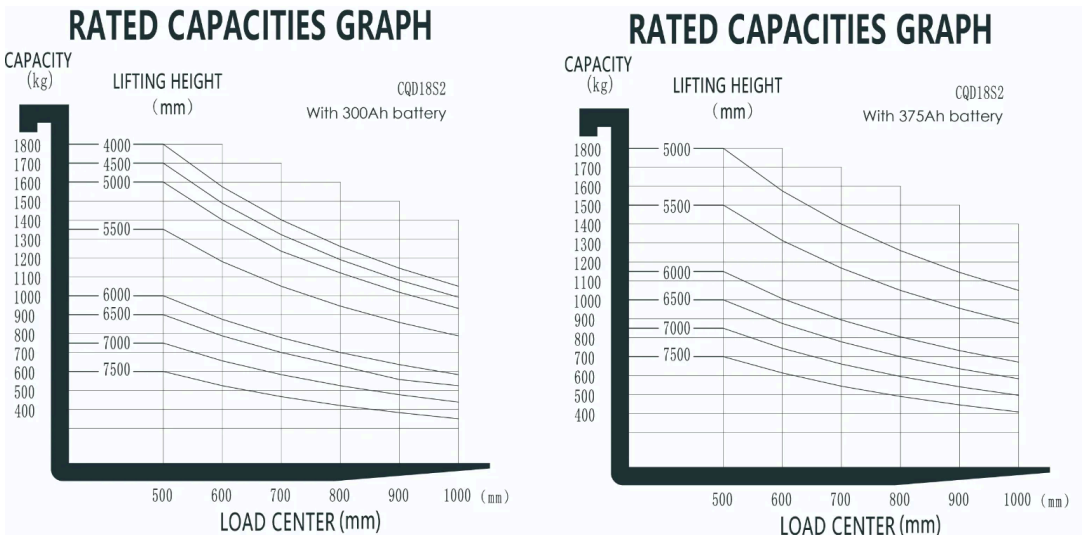
The angled overhead guard and crossbeam, along with neatly aligned hoses and chains, improve visibility by 35% compared to the previous generation—boosting both safety and productivity.

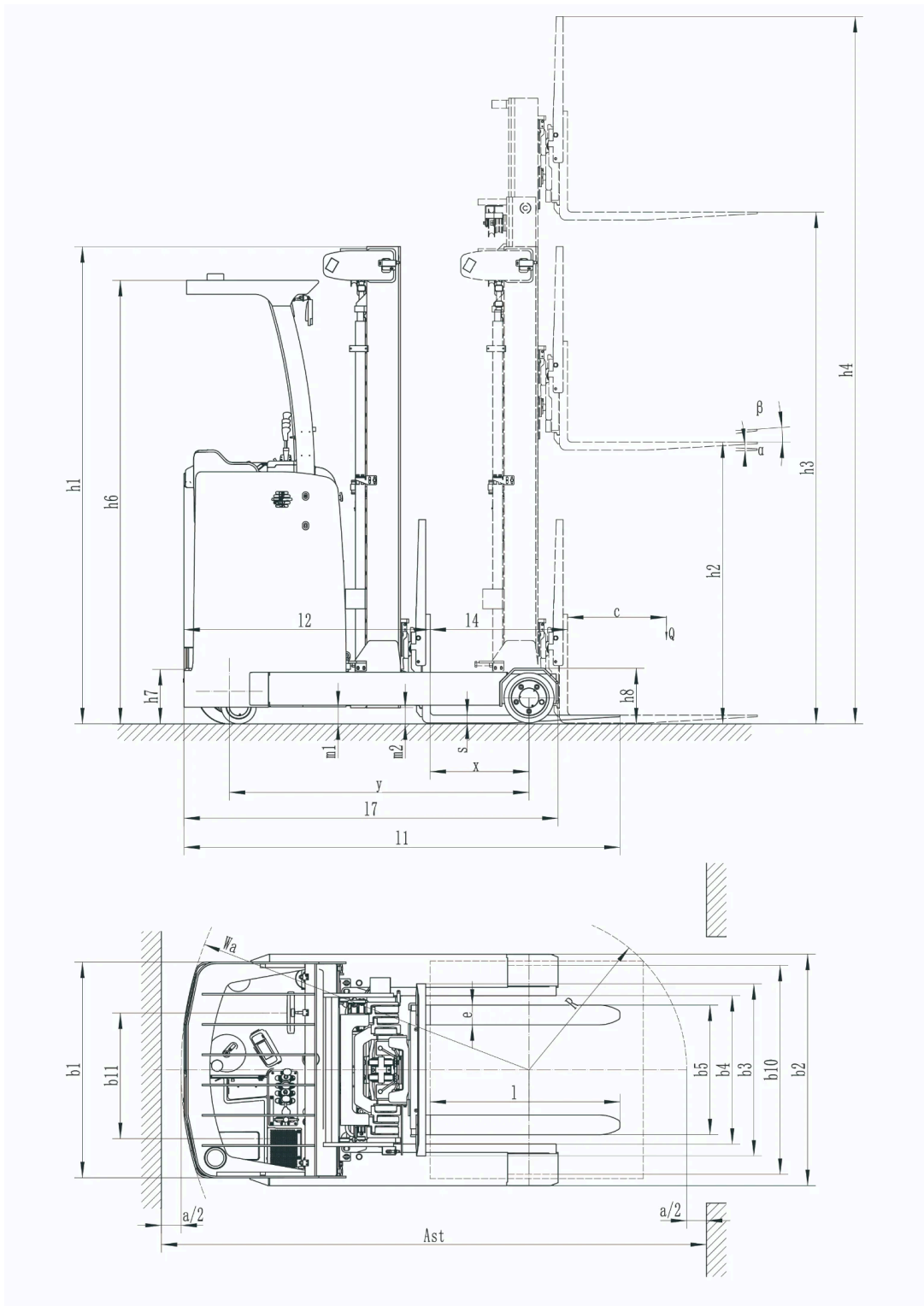
VDI Chart

SPECIFICATION		REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			CQD18S2
1.3	Drive			Electric
1.4	Operator type			Stand-on
1.5	Rated capacity	Q	kg	1800
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork	x	mm	500
1.9	Wheelbase	y	mm	1515
2.1	Service weight		kg	2760
2.2	Axle loading, laden front/rear		kg	4180/480
2.3	Axle loading, unladen front/rear		kg	900/1820
3.1	Tyres			Solid rubber/Polyurethane
3.2	Tyre size, front		mm	254x114
3.3	Tyre size, rear		mm	330x140
3.4	Additional wheels (castor wheels)		mm	178x73
3.5	Wheels, number front/rear (x=drive wheels)			1x/2
3.6	Tread width, front	b ₁₀	mm	1055
3.7	Tread width, rear	b ₁₁	mm	635
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	2/4
4.2	Height, mast lowered	h ₁	mm	2595
4.3	Free lift	h ₂	mm	1610
4.4	Lift	h ₃	mm	6000
4.5	Height, mast extended	h ₄	mm	7030
4.7	Height of overhead guard (cabin)	h ₆	mm	2240
4.8	Seat height relating to SIP/stand height	h ₇	mm	275

	SPECIFICATION	REF	UNIT	VALUE
4 . 10	Height of wheel arms		mm	280
4 . 19	Overall length	l_1	mm	2160
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/1	mm	40/100/920
4 . 23	Fork carriage ISO 2328, class/type A, B			2A
4 . 24	Fork carriage width		mm	870
4 . 25	Distance between fork-arms	b_5	mm	200/655
4 . 26	Distance between wheel arms/loading surfaces			750
4 . 31	Ground clearance, laden, below mast		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	2740
4 . 34 . 2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2765
4 . 35	Turning radius	Wa	mm	1760
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 . 8	Max. gradeability, laden/unladen		%	10/15
5 . 10	Service brake			Electric/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 . 1	Battery voltage		V	48
6 . 4 . 2	Battery nominal capacity K5		Ah	300 375
6 . 4 . 3	Battery type			Lead Acid
6 . 5	Battery weight		kg	495/605
8 . 1	Type of drive unit			AC
10 . 5	Steering design			Electric
10 . 7	Sound pressure level at the driver's seat		dB(A)	70
15 . 1	Charger output current		A	40

Subject to modification of specifications and designs without prior notice as part of continuous product improvement. Images and technical data shown may include optional features and are provided for reference only. All dimensions are subject to standard manufacturing tolerances.





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

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	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	6130	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
3-Free Mast	6500	2760	7065	7530	2248	1770
3-Free Mast	7000	2945	7565	8030	2438	1960
3-Free Mast	7500	3115	8065	8530	2608	2130

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	No 900*600 2A 100*40*920 900*600 2A 100*40*1070 900*600 2A 100*40*1150 900*600 2A 100*40*1220 900*600 2A 100*40*1370
Leg width	750mm
Fork carriage width option	870mm
Backrest height	990mm
Load wheel type	Single

ITEM	OPTIONS (optional items marked in yellow)
Load wheel material	PU
Drive wheel material	Solid rubber
Battery capacity	48V300AH Lead-acid 48V205AH 48V280AH 48V405AH 48V560AH 48V375AH Lead-acid 48V450AH Lead-acid
Charger	48V-40A 48V-50A 48V-60A 48V-100A 48V-150A 48V-200A
Attachments	No Built-in sideshifter
Castor wheels	Yes and not customized
Front lamp	LED
Rear lamp	No LED
Warning lamp	Yes and not customized
Blue lamp	No Yes and not customized
Area warning lamp	No Yes and not customized
Rearview mirror	Yes
Buzzer	Yes Yes and not customized
Camera	No Yes and not customized
Fire extinguisher	No Yes and not customized
Turtle speed	Yes and not customized
Battery side pull function	No Yes and not customized
Cold storage	No Yes and not customized
Forks tilt forward and backward	Yes and not customized
Overhead guard	Yes Drive-in
Battery side pull attachment	No Yes and not customized
Operator identification device	No Card reader