EP EQUIPMENT PRO

CQD16 PRO

LI-ION 80V REACH TRUCK 1.6T

1600 kg | 9655 mm | 80 V Li-Ion

The CQD14/16 PRO series is ideal for high-density warehouses, logistics hubs, and distribution centers. Its optimized mast provides stability at full lift height, while proportional lifting ensures gentle and accurate handling of heavy or fragile goods. With a compact chassis and tight turning radius, it is well-suited for narrow aisles and space-restricted environments. Optional features such as cold storage configuration, safety lamps, and telematics make it adaptable to diverse industry needs.

SPECIFICATION	REF	UNIT	VALUE
Battery type			Li-Ion
Battery nominal capacity K5		Ah	205
Battery voltage		V	80
Rated capacity	Q	kg	1600
Load centre distance	c	mm	600
Service weight		kg	4075
Height, mast lowered	h_1	mm	3930
Lift	h_3	mm	9655
Height, mast extended	h_4	mm	10720
Overall length	l_1	mm	2465
Overall width	b_1/b_2	mm	1250/1270
Length to face of forks	l_2	mm	1265
Fork dimensions	s/e/l	mm	40/100/1150
Turning radius	Wa	mm	1680
Manufacturer			CQD16 PRO
Model designation			EP

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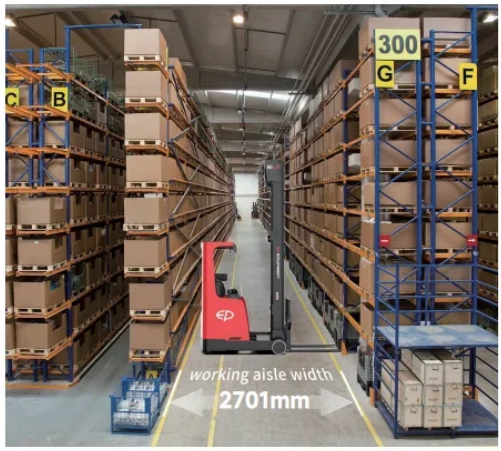
Features

Compact and agile design

With a working aisle width of just 2701 mm, the CQD14/16 PRO is perfectly suited for narrow aisles and high-density racking. Its small turning radius adds agility, making it highly competitive in space-constrained warehouses.



Enhanced mast stability

The optimized mast reaches up to 8 m (CQD14 PRO) and 9.65 m (CQD16 PRO), ensuring stability even under heavy loads. High residual capacity at full height guarantees consistent performance in demanding operations.

Efficient Li-ion power system

Powered by an 80V Li-ion battery (150–280Ah), the series supports fast lifting and lowering speeds and offers convenient external charging. The Li-ion system enables opportunity charging and eliminates battery maintenance.

External charging port with a protective cover

Fingertip or joystick hydraulic controls

Operator-focused ergonomics

A spacious cab with unobstructed visibility, electronic steering with damping, and fingertip or joystick controls enhance safety and comfort. Features like proportional lifting and full-color display provide precise handling and ease of use.

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VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			CQD16 PRO
1.2	Model designation			EP
1.3	Drive			Electric
1.4	Operator type			Seated
1.5	Rated capacity	Q	kg	1600
1.6	Load centre distance	c	mm	600
1.8	Load distance, centre of drive axle to fork	x	mm	390
1.9	Wheelbase	y	mm	1415
2.1	Service weight		kg	4075
2.2	Axle loading, laden front/rear		kg	1045/4775
2.3	Axle loading, unladen front/rear		kg	2580/1500
3.1	Tyres			Polyurethane
3.2	Tyre size, front		mm	Φ343×140
3.3	Tyre size, rear		mm	Φ285×100
3.4	Additional wheels (castor wheels)		mm	-
3.5	Wheels, number front/rear (x=drive wheels)			1x/2
3.6	Tread width, front	b_{10}	mm	-
3.7	Tread width, rear	b_{11}	mm	1168
4.1	Tilt of mast/fork carriage forward/backward		°	2/4
4.2	Height, mast lowered	h_1	mm	3930
4.3	Free lift	h_2	mm	2877
4.4	Lift	h_3	mm	9655
4.5	Height, mast extended	h_4	mm	10720
4.7	Height of overhead guard (cabin)	h6	mm	2200
4.8	Seat height relating to SIP/stand height	h7	mm	1000
4.10	Height of wheel arms		mm	308
4.19	Overall length	l_1	mm	2465
4.20	Length to face of forks	l_2	mm	1265
4.21	Overall width	b_1/b_2	mm	1250/1270
4.22	Fork dimensions	s/e/l	mm	40/100/1150
4.23	Fork carriage ISO 2328, class/type A, B			2A
4.24	Fork carriage width		mm	990

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	SPECIFICATION	REF	UNIT	VALUE
4.26	Distance between wheel arms/loading surfaces			917
4.31	Ground clearance, laden, below mast		mm	75
4.32	Ground clearance, centre of wheelbase	m_2	mm	70
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	2715
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	2760
4.35	Turning radius	Wa	mm	1680
5.1	Travel speed, laden/unladen		km/h	11/11
5.2	Lift speed, laden/unladen		m/s	0.42/0.6
5.3	Lowering speed, laden/unladen		m/s	0.55/0.5
5.8	Max. gradeability, laden/unladen		%	10/15
5.10	Service brake			Electromagnetic
5.11	Parking brake			Electromagnetic
6.1	Drive motor rating S2 60 min		kW	8
6.2	Lift motor rating at S3 15%		kW	22
6.4	Battery nominal capacity K5		Ah	205
6.4	Battery voltage		V	80
6.4.1	Battery type			Li-Ion
6.5	Battery weight		kg	180
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	100

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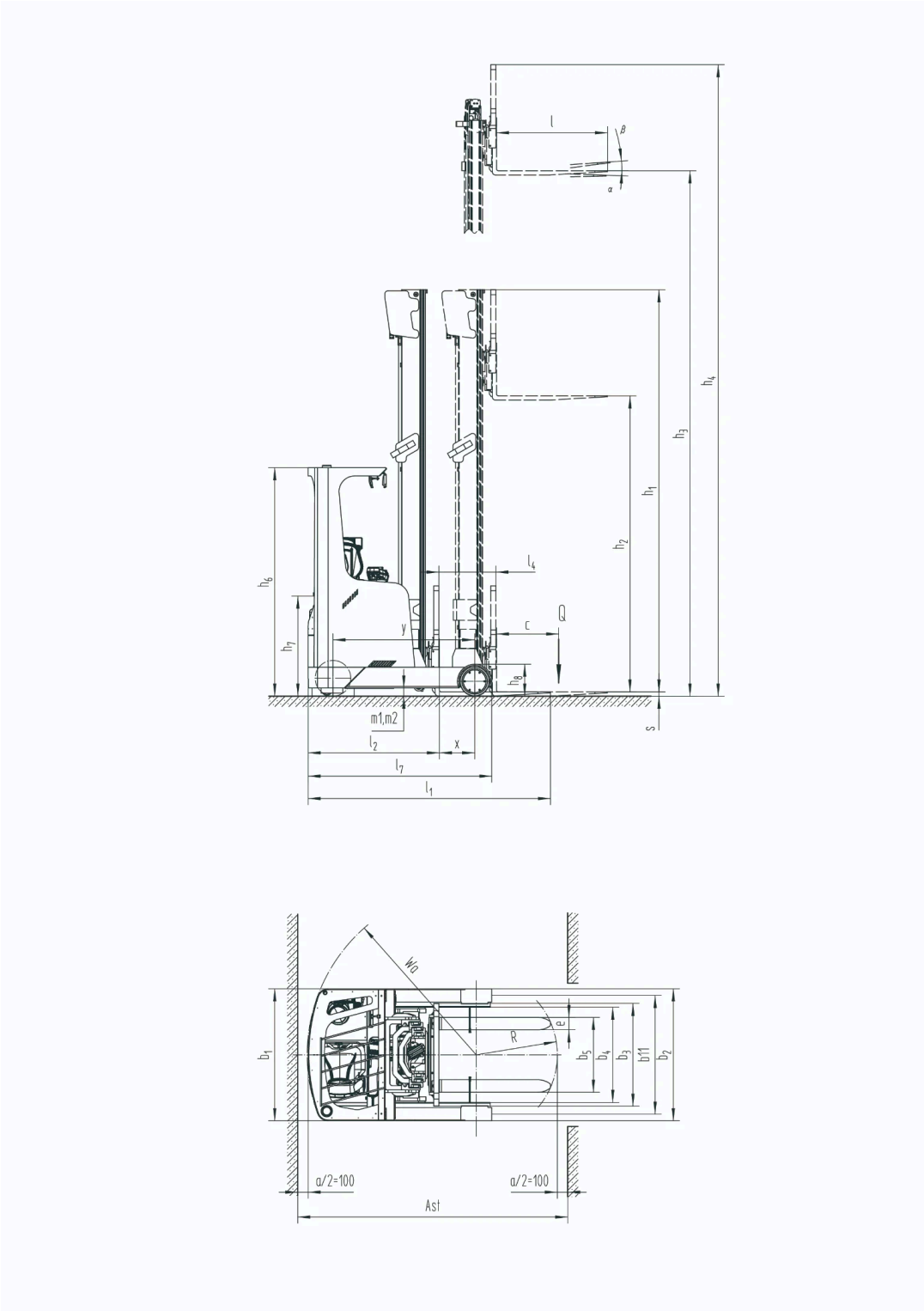
VDI Drawing



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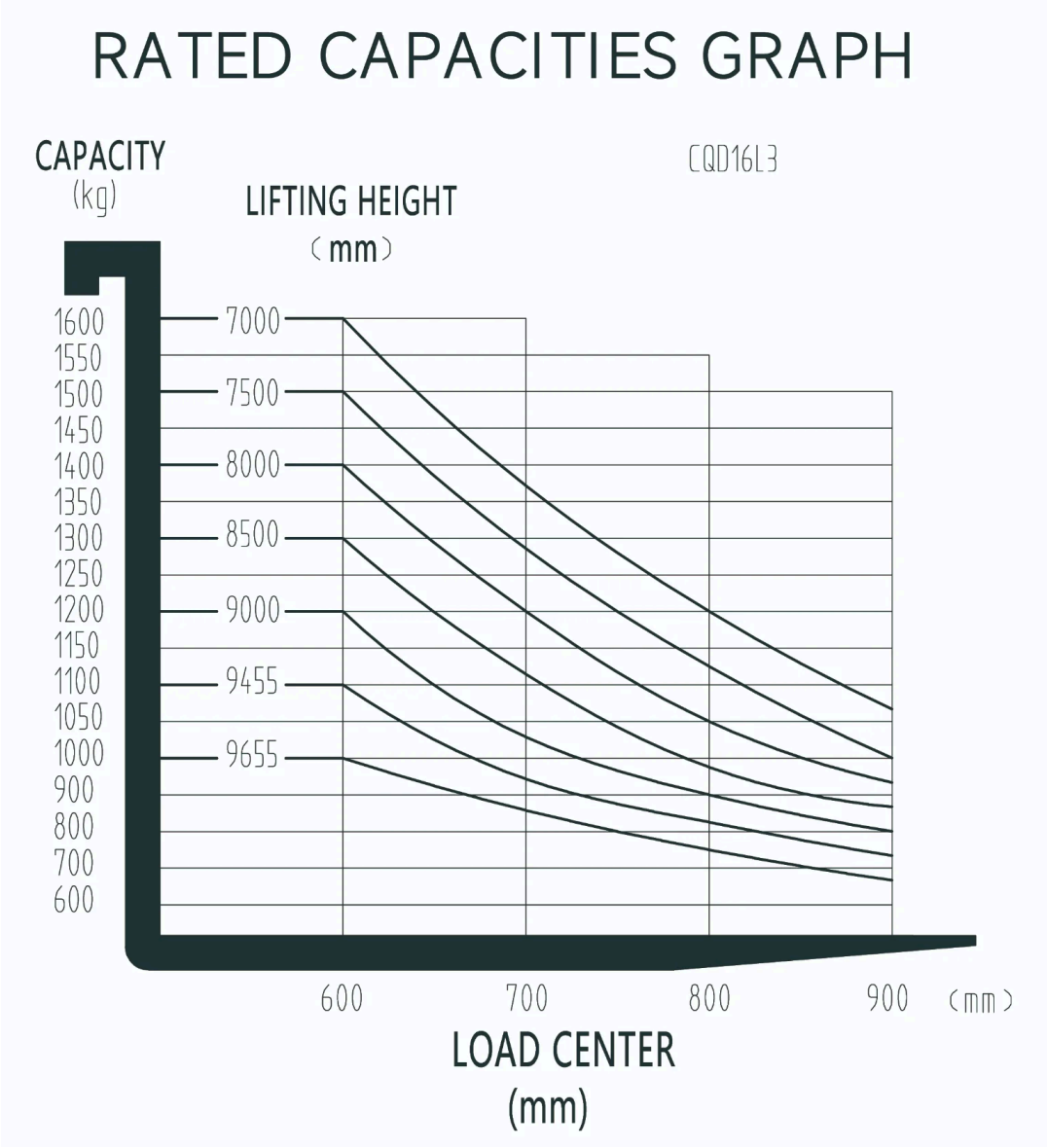

Mast Options

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)
3-Free Mast	4000	1968	4730	5065	1044	915
3-Free Mast	4500	2138	5230	5565	1214	1085
3-Free Mast	5000	2303	5730	6065	1380	1250
3-Free Mast	5500	2468	6230	6565	1544	1415
3-Free Mast	6000	2638	6730	7065	1714	1585
3-Free Mast	6500	2810	7230	7565	1888	1757
3-Free Mast	7000	3048	7730	8065	2124	1995

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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	7500	3218	8230	8565	2294	2165
3-Free Mast	8000	3383	8730	9065	2460	2330
3-Free Mast	8500	3603	9230	9565	2680	2550
3-Free Mast	9000	3768	9730	10065	2844	2715
3-Free Mast	9655	3930	10385	10720	3008	2877

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	100*40*1150 | 100*40*920 | 100*40*1070 | 100*40*1220 | 100*40*1370 | 100*40*1520
Leg width	917
Fork carriage width option	770mm
Load wheel type	Single
Load wheel material	PU
Drive wheel material	PU
Battery capacity	205Ah | 150Ah | 280Ah
Charger	80V-150A-Li external | 80V-100A-Li external
Seat type	Suspension | Suspension +safety belt logic switch
Attachments	Built-in sideshifter
Anti-static chain	Yes
Castor wheels	No | Yes and not customized
Front lamp	LED
Rear lamp	No | LED
Warning lamp	No | Yes and not customized
Area warning lamp	No | Yes and not customized
Rearview mirror	One in front
Buzzer	No | Yes and not customized
Camera	No | Wireless camera
OPS system	Yes and not customized

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ITEM	OPTIONS (optional items marked in yellow)
Telematics	Yes
Cold storage	No | Yes and not customized
Overhead guard	Yes | Drive-in
Turn speed control	Yes
Operator identification device	No | Card reader | Fingerprint lock
Load backrest height	1020mm
Drive assembly	ZK25 | GK25

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