



ECB25i/35i

BYD COUNTERBALANCE FORKLIFT
4-WHEELER (2500kg/3500kg)

**CHANGE YOUR MIND
NOT YOUR BATTERY**

 Lithium | **8** YRS **15,000 HRS** Battery Warranty | BYD Iron-Phosphate



Core Technology

With many years of experience and innovation, BYD has the most reliable battery technology.

BYD started as a battery manufacturer, producing its first battery in 1997. Currently, BYD batteries are widely applied to passenger vehicles, cabs, buses, coaches, logistic vehicles, sanitation trucks and other commercial vehicles. In order to



accomplish that, we believe in technology innovation and rigorous production processes. BYD batteries have been road-proven in over 1.7 million new energy passenger cars and over 70,000 electric buses around the world.

We are constantly refining our manufacturing, pack design and interconnection hardware to further enhance the battery safety profile. Samples from each batch must pass rigorous impact, collision, vibration and external fire testing before being released for electric vehicle integration.

BYD Iron-Phosphate technology

BYD Iron-Phosphate electric forklift batteries are a major revolution for the industry. A solution for the present and future, synonymous with savings, sustainability, cleanliness, safety and care for the environment.



The BYD battery revolution

BYD has accumulated vast experience to predict and respond to global sustainability challenges. Currently, BYD's patented BYD Iron-Phosphate batteries have been used in over 40 vehicle models, including passenger, commercial, and off-highway vehicles.

Compared to equivalent equipment powered by traditional lead acid batteries, BYD batteries require no maintenance, have a shorter charge time, a longer working life, and use up to 40% less energy. Combined with BYD's intelligent chargers, charging from empty to full can be achieved in under an hour, providing comfortably enough charge for a full eight-hour shift. Furthermore, BYD batteries can be topped-up during short breaks in operations, thus guaranteeing maximum uptime at the lowest-possible cost.

Unlike other Lithium-ion batteries featuring on competitors' forklifts, BYD designs, develops and manufactures its own batteries and chargers, meaning the entire energy ecosystem is optimised to offer maximum performance for your investment.

BYD Iron-Phosphate Battery

Savings

No battery changes, no maintenance, no distilled water or charger room, and with an energy consumption which is well below average.

Sustainable

No pollution from heavy metals or corrosive acid, making BYD Iron-Phosphate batteries the most ecologically friendly on the market.

Safety

No risk of explosion or fire, no flammable gases emissions, nor harm to the health of your employees.

Opportunity Charging

Battery can be partially topped up frequently e.g. during lunch break with no detriment to battery life or capacity.

Long life

Unrivaled industrial leading warranty 8 year/15,000 hours thanks to BYD active battery protection system standard in 1.5 GEN models.

Fast-Charging

Charging power up to 16kW, with possibility to reduce charging time down to 1 hour, as compared to 8-12 hours charging time for lead acid batteries.



ECB25i/35i

Electronic Parking Brake Auto Switch-off

The electronic parking brake is incorporated into the range. It provides the advantage of automatic battery switch-off, a safety feature that prevents the battery draining if left unattended for an extended period of time.



Vision Optimization

The forklifts will also be equipped with a new mast, designed to offer even greater operator visibility that increase by 35.1% thanks to a widened space between the uprights.



Latest-generation Drive Units

The integration of latest-generation drive units from Italian specialist PMP Industries S.p.A. further improve the efficiency of a model which is already a class leader in this regard. Operators will appreciate its incredibly smooth and quiet operation.

Remodeled Steering Axle

With a larger steering angle now achievable, the overall turning radius of the forklift is minimised with a reduction of 5.94% to increase manoeuvrability in tight areas such as warehouse aisles.



ECB25i Counterbalance Forklifts Specifications

Characteristic	1.1	Manufacturer			BYD
	1.2	Model			ECB25i
	1.3	Drive			Electric
	1.4	Operator type			Seat
	1.5	Rated capacity	Q	kg	2500
	1.6	Load center	c	mm	500
	1.8	Load distance, center of drive axle to fork	x	mm	425
	1.9	Wheelbase	y	mm	1505
	Weights	2.1	Service weight		kg
2.2		Axle load, with load, front/rear		kg	5853/812
2.3		Axle load, without load, front/rear		kg	1817/2348
Wheels	3.1	Tyres			SE
	3.2	Tyre size, front			21x8-9
	3.3	Tyre size, rear			18x7-8
	3.5	Wheels, number front rear (X=driven wheels)			2x/2
	3.6	Track width, front	b10	mm	1000
	3.7	Track width, rear	b11	mm	955
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b	deg
4.2		Height, mast lowered	h1	mm	2030
4.3		Free lift	h2	mm	140
4.4		Lift height	h3	mm	3000
4.5		Height, mast extended	h4	mm	4040
4.7		Height of overhead guard	h6	mm	2195
4.8		Seat height	h7	mm	1100
4.12		Coupling height	h10	mm	333
4.19		Overall length	l1	mm	3375
4.20		Length to face of forks	l2	mm	2305
4.21		Overall width	b1	mm	1195
4.22		Fork dimensions	s/e/l	mm	40/120/1070
4.23		Fork carriage ISO 2328, class/type A, B			2A
4.24		Fork carriage width	b3	mm	1085
4.31		Ground clearance, with load, below mast	m1	mm	95
4.32		Ground clearance, center of wheelbase	m2	mm	105
4.33		Aisle width for pallets 1000x1200 crossways	Ast	mm	3577
4.34		Aisle width for pallets 800x1200 lengthways	Ast	mm	3736
4.35	Turning radius	Wa	mm	1900	
Performance	5.1	Travel speed, with/without load		Km/h	16/18
	5.2	Lift speed, with/without load		mm/s	420/450
	5.3	Lowering speed, with/without load		mm/s	500/400
	5.8	Max. gradeability, with/without load		%	20/20
	5.10	Service brake			Hydr.
Drive	6.1	Drive motor rating S2 60 min.		kW	6.6x2
	6.2	Lift motor rating at S3 15%		kW	16
	6.4	Battery voltage, nominal capacity		V/Ah	80/270
	6.5	Battery weight		kg	350
	Others	8.1	Type of drive control		
8.2		Operating pressure for attachments		Mpa	16.8

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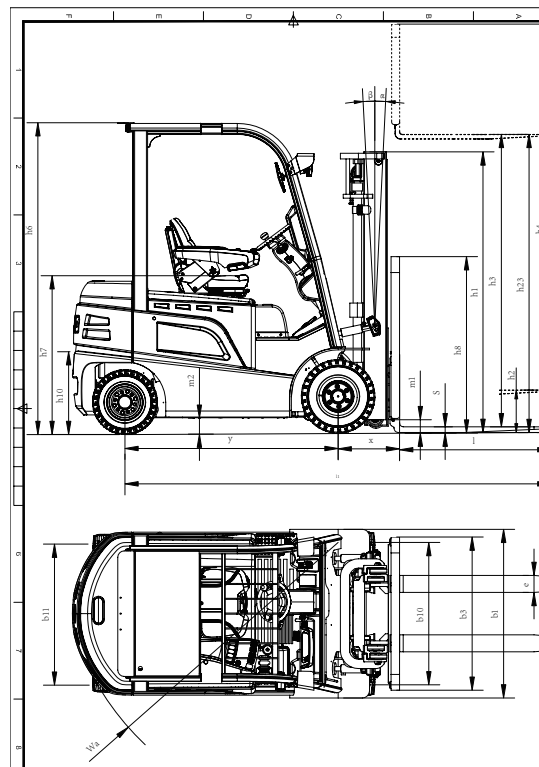
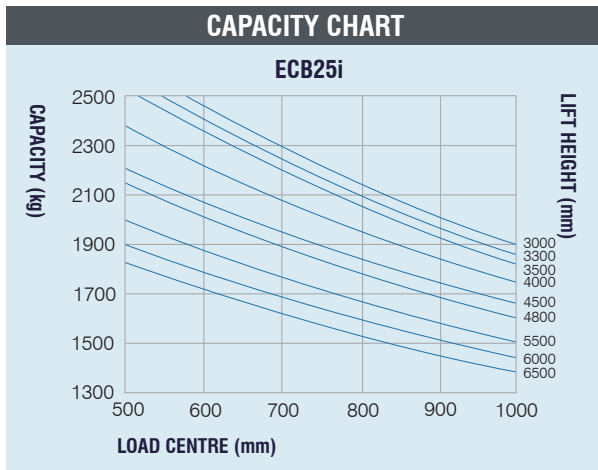
ECB25i MAST TABLE

- h3** Lifting Height (mm)
- h2** Full Free Lift Height (mm) (Load Backrest 1000mm)
- h1** Height, Mast Fully Lowered (mm)
- h4** Height, Mast Fully Extended (mm) (Load Backrest 1000mm)
- α Tilt Forward
- β Tilt Backward

Mast spec (mm)	h3	h2 (with backrest)	h1	h4	α	β	Residual Capacity (kg) (without attachment)	
							ECB25i @500MM/@600MM	
2-stage Standard Mast	3000	140	2030	3990	5°	8°	2500	2450
	3300	140	2180	4290	5°	8°	2500	2380
	3500	140	2280	4490	5°	8°	2500	2340
	4000	140	2580	4990	5°	8°	2380	2210
	4500	140	2830	5490	5°	8°	2230	2080
	5000	140	3130	5990	5°	8°	2110	1980
2-stage FFL mast	3000	1070	2060	3990	5°	8°	2500	2450
	3300	1220	2210	4290	5°	8°	2500	2380
	3500	1320	2310	4490	5°	8°	2500	2340
	4000	1570	2560	4990	5°	8°	2380	2210
3-stage Dual FFL mast	4000	960	1950	4990	5°	5°	2380	2210
	4500	1120	2110	5490	5°	5°	2230	2080
	4800	1220	2210	5790	5°	5°	2160	2020
	5000	1285	2275	5990	5°	5°	2110	1980
	5500	1470	2460	6490	5°	5°	2000	1880
	6000	1680	2670	6990	5°	5°	1800	1780
3-stage Single FFL Mast	4000	810	2010	5240	5°	5°	2380	2210
	4500	950	2150	5740	5°	5°	2230	2080
	4800	1050	2250	6040	5°	5°	2160	2020
	5000	1150	2350	6240	5°	5°	2110	1980
	5500	1310	2510	6740	5°	5°	2000	1880
	6000	1500	2700	7240	5°	5°	1800	1780
	6500	1650	2850	7740	5°	3°	1700	1600
	7000	1860	3060	8240	3°	3°	1100	1100

For special request, please contact BYD.

LOADING CAPACITY



ECB35i Counterbalance Forklifts Specifications

Characteristic	1.1	Manufacturer			BYD
	1.2	Model			ECB35i
	1.3	Drive			Electric
	1.4	Operator type			Seat
	1.5	Rated capacity	Q	kg	3500
	1.6	Load center	c	mm	500
	1.8	Load distance, center of drive axle to fork	x	mm	460
	1.9	Wheelbase	y	mm	1725
	Weights	2.1	Service weight		kg
2.2		Axle load, with load, front/rear		kg	7774/1226
2.3		Axle load, without load, front/rear		kg	2300/3200
Wheels	3.1	Tyres			SE
	3.2	Tyre size, front			23x10-12
	3.3	Tyre size, rear			200/50-10
	3.5	Wheels, number front rear (X=driven wheels)			2x/2
	3.6	Track width, front	b10	mm	1110
	3.7	Track width, rear	b11	mm	955
	Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b	deg
4.2		Height, mast lowered	h1	mm	2105
4.3		Free lift	h2	mm	130
4.4		Lift height	h3	mm	3000
4.5		Height, mast extended	h4	mm	4050
4.7		Height of overhead guard	h6	mm	2215
4.8		Seat height	h7	mm	1140
4.12		Coupling height	h10	mm	333
4.19		Overall length	l1	mm	3630
4.20		Length to face of forks	l2	mm	2560
4.21		Overall width	b1	mm	1360
4.22		Fork dimensions	s/e/l	mm	50/125/1070
4.23		Fork carriage ISO 2328, class/type A, B			3A
4.24		Fork carriage width	b3	mm	1145
4.31		Ground clearance, with load, below mast	m1	mm	110
4.32		Ground clearance, center of wheelbase	m2	mm	130
4.33		Aisle width for pallets 1000x1200 crossways	Ast	mm	3831
4.34		Aisle width for pallets 800x1200 lengthways	Ast	mm	3994
4.35	Turning radius	Wa	mm	2125	
Performance	5.1	Travel speed, with/without load		Km/h	18/18
	5.2	Lift speed, with/without load		mm/s	380/450
	5.3	Lowering speed, with/without load		mm/s	550/450
	5.8	Max. gradeability, with/without load		%	20/20
	5.10	Service brake			Hydr.
Drive	6.1	Drive motor rating S2 60 min.		kW	10x2
	6.2	Lift motor rating at S3 15%		kW	24
	6.4	Battery voltage, nominal capacity		V/Ah	80/540
	6.5	Battery weight		kg	560
	Others	8.1	Type of drive control		
8.2		Operating pressure for attachments		Mpa	18

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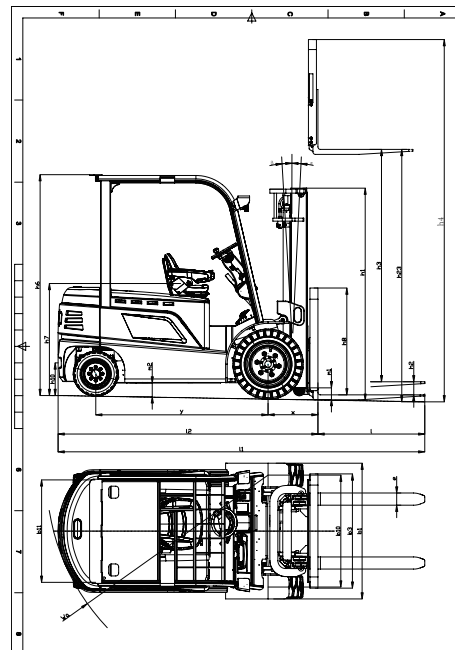
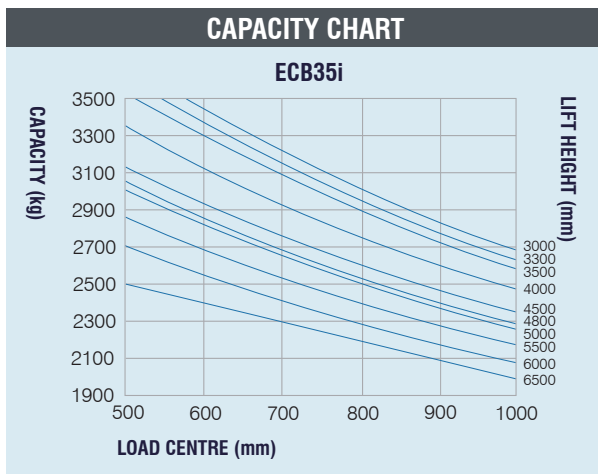
ECB35i MAST TABLE

- h3** Lifting Height (mm)
- h2** Full Free Lift Height (mm) (Load Backrest 1000mm)
- h1** Height, Mast Fully Lowered (mm)
- h4** Height, Mast Fully Extended (mm) (Load Backrest 1000mm)
- α** Tilt Forward
- β** Tilt Backward

Mast spec (mm)	h3	h2 (with backrest)	h1	h4	α	β	Residual Capacity (kg) (without attachment)	
							ECB35i @500MM/@600MM	
2-stage Standard Mast	3000	130	2105	4000	5°	8°	3500	3430
	3300	130	2255	4300	5°	8°	3500	3330
	3500	130	2355	4500	5°	8°	3500	3270
	3700	130	2455	4700	5°	8°	3430	3200
	4000	130	2605	5000	5°	8°	3350	3120
	4500	130	2905	5500	5°	6°	3150	2940
	4800	130	3055	5800	5°	6°	3050	2860
	5000	130	3255	6000	5°	6°	3000	2820
	5500	130	3455	6500	5°	6°	2870	2690
2-stage FFL mast	3000	1105	2105	4000	5°	8°	3500	3430
	3300	1255	2255	4300	5°	8°	3500	3330
	3500	1355	2355	4500	5°	8°	3500	3270
	4000	1605	2605	5000	5°	8°	3350	3120
3-stage Dual FFL mast	4000	990	1990	5500	5°	6°	3350	3120
	4500	1190	2190	5500	5°	6°	3150	2940
	4800	1340	2340	5800	5°	6°	3050	2860
	5000	1340	2340	6000	5°	6°	3000	2820
	5500	1540	2540	6500	5°	6°	2870	2680
	6000	1740	2740	7000	5°	6°	2720	2560
	6500	1955	2955	7500	5°	3°	2500	2400
3-stage Single FFL Mast	4000	1090	2090	5000	5°	6°	3350	3120
	4350	1205	2205	5350	5°	6°	3180	2980
	4500	1255	2255	5500	5°	6°	3150	3100
	4800	1355	2355	5800	5°	6°	3050	2940
	5000	1420	2420	6000	5°	6°	3000	2820
	5300	1520	2520	6300	5°	6°	2920	2730
	5500	1585	2585	6500	5°	6°	2870	2680
	6000	1750	2750	7000	5°	6°	2720	2560
	6500	1910	2910	7500	5°	3°	2500	2400

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STANDARD FEATURES

- 80V Dual AC drive motor
- 4.8m 3-stage FFL Mast with dual FFL
- Cascade Integral sidershifter
- 4-Way Hydraulic valve
- Full LED lights
- 80V 270Ah (ECB25i)/540Ah (ECB35i)
- MSG45 seat(basic model)/ MSG65 seat (Comfort model)
- 80V 100A IGBT Charger
- 1070mm forks
- Super Elastic solid tyres
- Electric parking brake
- Battery Auto Switch-off



OPTIONAL FEATURES

- Mast variants
- Attachments upon requests
- MSG 65 Textile/Leather seat
- Full cabin options
- Lights option (Flashing beacon/spot light/rear working light)
- Panoramic Mirror
- Storage box with USB port
- 80V 200A IGBT Charger
- Non-marking tyres
- Battery options:
340Ah/540Ah for ECB25i
680Ah for ECB35i





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BYD forklifts conform to the European Safety Requirements

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