BYD
Forklift

ECB20i/25i/27i/30i/35i

CHANGE YOUR MIND
NOT YOUR BATTERY

BYD COUNTERBALANCE FORKLIFT
4-WHEELER (2000kg/2500kg/2700kg/3000kg/3500kg)

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

EUROPEA

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Distribuidor BYD

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.

Opportunity Charging

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

Sustainable

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

Long life

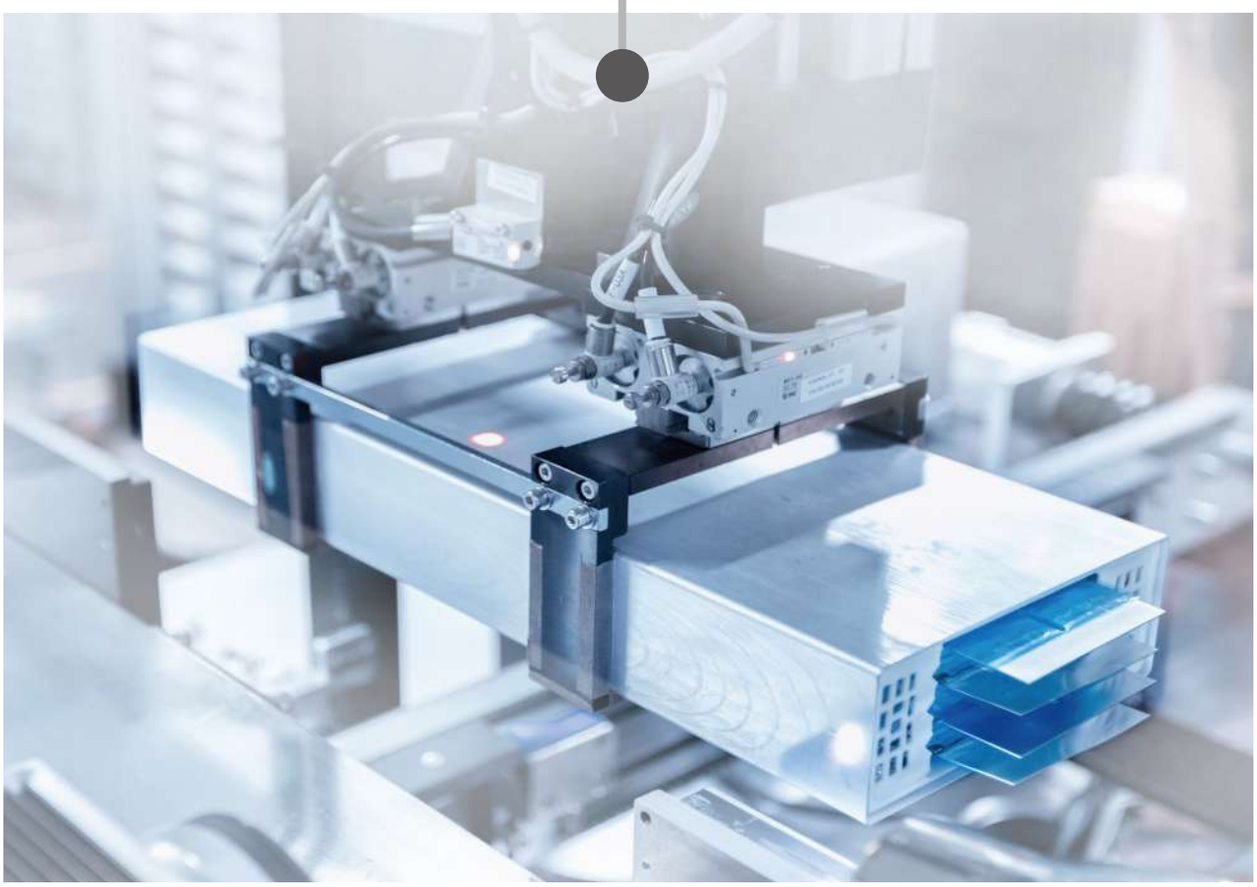
Unrivaled industrial leading warranty 8 year/15,000 hours thanks to BYD active battery protection system standard in 1.5 GEN models.

Safety

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

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.



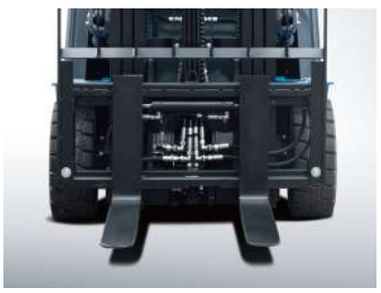
ECB20i/25i/27i/30i/35i

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.

ECB20i/25i/27i Counterbalance Forklifts Specifications

Identification	1.1	Manufacturer			BYD	BYD	BYD
	1.2	Model			ECB20	ECB25i	ECB27i
	1.3	Drive			Electric	Electric	Electric
	1.4	Operator type			Seat	Seat	Seat
	1.5	Rated capacity	Q	kg	2000	2500	2700
	1.6	Load center	c	mm	500	500	600
	1.8	Load distance, center of drive axle to fork	x	mm	425	425	430
	1.9	Wheelbase	y	mm	1505	1505	1505
Weights	2.1	Service weight		kg	3565	4165	4425
	2.2	Axle load, with load, front/rear		kg	4947/618	5863/802	6138/987
	2.3	Axle load, without load, front/rear		kg	1717/1848	1827/2338	1779/2646
Wheels	3.1	Tyres			SE	SE	SE
	3.2	Tyre size, front			21x8-9	21x8-9	21x8-9
	3.3	Tyre size, rear			18x7-8	18x7-8	18x7-8
	3.5	Wheels, number front rear (X=driven wheels)			2x/2	2x/2	2x/2
	3.6	Track width, front	b10	mm	1000	1000	1000
	3.7	Track width, rear	b11	mm	955	955	955
Basic Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b	deg	5/8	5/8	5/8
	4.2	Height, mast lowered	h1	mm	2030	2030	2030
	4.3	Free lift	h2	mm	140	140	140
	4.4	Lift height	h3	mm	3000	3000	3000
	4.5	Height, mast extended	h4	mm	4040	4040	4040
	4.7	Height of overhead guard	h6	mm	2195	2195	2195
	4.8	Seat height	h7	mm	1156	1156	1156
	4.12	Coupling height	h10	mm	333	333	333
	4.19	Overall length	l1	mm	3375	3375	3390
	4.2	Length to face of forks	l2	mm	2305	2305	2320
	4.21	Overall width	b1	mm	1195	1195	1195
	4.22	Fork dimensions	s/e/l	mm	40/120/1070	40/120/1070	45/122/1070
	4.23	Fork carriage ISO 2328, class/type A, B			2A	2A	3A
	4.24	Fork carriage width	b3	mm	1085	1085	1085
	4.31	Ground clearance, with load, below mast	m1	mm	95	95	95
	4.32	Ground clearance, center of wheelbase	m2	mm	105	105	105
	4.34.1	Aisle width for pallets 1000x1200 crossways	Ast	mm	3577	3577	3592
	4.34.2	Aisle width for pallets 800x1200 lengthways	Ast	mm	3736	3736	3751
	4.35	Turning radius	Wa	mm	1900	1900	1915
Performance Data	5.1	Travel speed, with/without load		Km/h	18/18	18/18	16/18
	5.2	Lift speed, with/without load		mm/s	420/450	420/450	420/450
	5.3	Lowering speed, with/without load		mm/s	500/400	500/400	500/400
	5.6	Maximum tractive force, with/without load		KN	12.7/9.0	12.5/9.5	12/10
	5.8	Max. gradeability, with/without load		%	20/20	20/20	18/20
	5.1	Service brake			hydr.	hydr.	hydr.
Motor	6.1	Drive motor rating S2 60 min.		kW	6.6x2	6.6x2	6.6x2
	6.2	Lift motor rating at S3 15%		kW	16	16	16
	6.4	Battery voltage/kwh		(v/kwh)	80/21.6	80/21.6	80/21.6
	6.5	Battery weight		kg	350	350	350
Others	8.1	Type of drive control			AC	AC	AC
	10.1	Operating pressure for attachments		Mpa	14.2	16.8	17.2
	10.7	Noise level at operator's ear		(dB(A))	≤70	≤70	≤70

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ECB20i/25i/27i MAST TABLE

h3 Lifting Height (mm) h2 Full Free Lift Height (mm) (Load Backrest 1000mm) h1 Height, Mast Fully Lowered (mm)

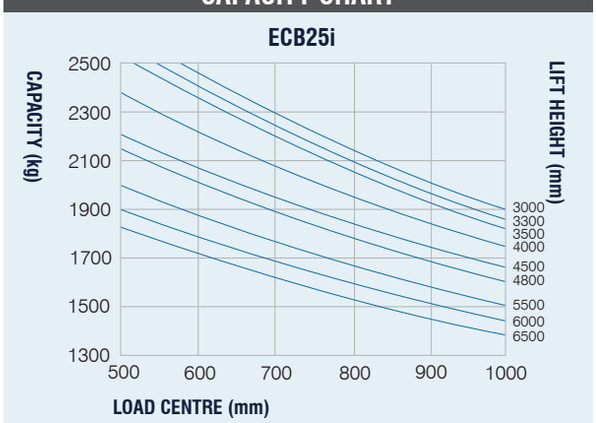
h4 Height, Mast Fully Extended (mm) (Load Backrest 1000mm) α Tilt Forward β Tilt Backward

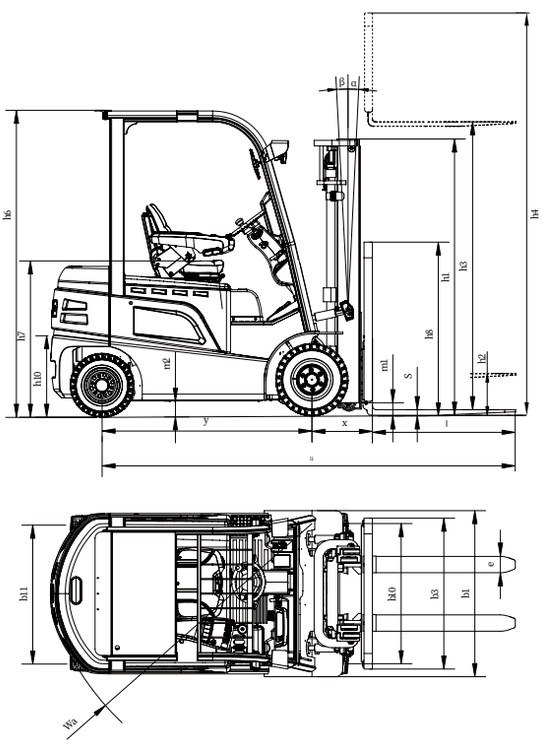
Mast spec (mm)	h3	h2 (with backrest)	h1	h4	α	β	Residual Capacity (kg)(without attachment)					
							ECB20i @500MM/@600MM		ECB25i @500MM/@600MM		ECB27i @500MM/@600MM	
2-stage Standard Mast	3000	140	2030	3990	5°	8°	2000	2000	2500	2450	2700	2600
	3300	140	2180	4290	5°	8°	2000	2000	2500	2380	2700	2530
	3500	140	2280	4490	5°	8°	1950	1900	2500	2340	2700	2480
	4000	140	2580	4990	5°	8°	1850	1800	2380	2210	2670	2350
	4500	140	2830	5490	5°	8°	1700	1600	2230	2080	2430	2240
	5000	140	3130	5990	5°	8°	1600	1550	2110	1980	2310	2120
2-stage FFL mast	3000	1070	2060	3990	5°	8°	2000	2000	2500	2450	2700	2600
	3300	1220	2210	4290	5°	8°	2000	2000	2500	2380	2700	2530
	3500	1320	2310	4490	5°	8°	1950	1900	2500	2340	2700	2480
	4000	1570	2560	4990	5°	8°	1850	1800	2380	2210	2670	2350
3-stage Dual FFL mast	4000	960	1950	4990	5°	5°	1850	1700	2380	2210	2540	2350
	4500	1120	2110	5490	5°	5°	1700	1600	2230	2080	2520	2220
	4800	1220	2210	5790	5°	5°	1650	1550	2160	2020	2450	2150
	5000	1285	2275	5990	5°	5°	1600	1500	2110	1980	2260	2110
	5500	1470	2460	6490	5°	5°	1500	1400	2000	1880	2100	2000
	6000	1680	2670	6990	5°	5°	1400	1350	1800	1780	—	—
	6500	1840	2830	7490	5°	5°	1300	1150	1700	1600	—	—
3-stage Single FFL Mast	4000	810	2010	5240	5°	5°	1700	1700	2380	2210	2540	2350
	4500	950	2150	5740	5°	5°	1700	1600	2230	2080	2520	2220
	4800	1050	2250	6040	5°	5°	1650	1550	2160	2020	2450	2150
	5000	1150	2350	6240	5°	5°	1600	1500	2110	1980	2260	2110
	5500	1310	2510	6740	5°	5°	1500	1400	2000	1880	2100	2000
	6000	1500	2700	7240	5°	5°	1400	1350	1800	1780	—	—
	6500	1650	2850	7740	5°	3°	1300	1150	1700	1600	—	—

For special request, please contact BYD.

LOADING CAPACITY

CAPACITY CHART





ECB30i/35i Counterbalance Forklifts Specifications

Characteristic	1.1	Manufacturer			BYD	BYD
	1.2	Model			ECB30i	ECB35i
	1.3	Drive			Electric	Electric
	1.4	Operator type			Seat	Seat
	1.5	Rated capacity	Q	kg	3000	3500
	1.6	Load center	c	mm	500	500
	1.8	Load distance, center of drive axle to fork	x	mm	460	460
	1.9	Wheelbase	y	mm	1725	1725
Weights	2.1	Service weight		kg	5180	5500
	2.2	Axle load, with load, front/rear		kg	6983/1197	7774/1226
	2.3	Axle load, without load, front/rear		kg	2165/3015	2300/3200
Wheels	3.1	Tyres			SE	SE
	3.2	Tyre size, front			23x10-12	23x10-12
	3.3	Tyre size, rear			200/50-10	200/50-10
	3.5	Wheels, number front rear (X=driven wheels)			2x/2	2x/2
	3.6	Track width, front	b10	mm	1110	1110
	3.7	Track width, rear	b11	mm	991	991
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b	deg	5/8	5/8
	4.2	Height, mast lowered	h1	mm	2105	2105
	4.3	Free lift	h2	mm	130	130
	4.4	Lift height	h3	mm	3000	3000
	4.5	Height, mast extended	h4	mm	4050	4050
	4.7	Height of overhead guard	h6	mm	2215	2215
	4.8	Seat height	h7	mm	1192	1140
	4.12	Coupling height	h10	mm	333	333
	4.19	Overall length	l1	mm	3630	3630
	4.20	Length to face of forks	l2	mm	2560	2560
	4.21	Overall width	b1	mm	1360	1360
	4.22	Fork dimensions	s/e/l	mm	50/125/1070	50/125/1070
	4.23	Fork carriage ISO 2328, class/type A, B			3A	3A
	4.24	Fork carriage width	b3	mm	1145	1145
	4.31	Ground clearance, with load, below mast	m1	mm	110	110
	4.32	Ground clearance, center of wheelbase	m2	mm	130	130
	4.33	Aisle width for pallets 1000x1200 crossways	Ast	mm	3831	3831
	4.34	Aisle width for pallets 800x1200 lengthways	Ast	mm	3994	3994
	4.35	Turning radius	Wa	mm	2125	2125
Performance	5.1	Travel speed, with/without load		Km/h	18/18	18/18
	5.2	Lift speed, with/without load		mm/s	380/450	380/450
	5.3	Lowering speed, with/without load		mm/s	550/450	550/450
	5.8	Max. gradeability, with/without load		%	20/20	20/20
	5.10	Service brake			hydr.	hydr.
Drive	6.1	Drive motor rating S2 60 min.		kW	10x2	10x2
	6.2	Lift motor rating at S3 15%		kW	24	24
	6.4	Battery voltage/kwh		(v/kwh)	80/43.2	80/43.2
	6.5	Battery weight		kg	560	560
Others	8.1	Type of drive control			AC	AC
	8.2	Operating pressure for attachments		Mpa	16	18

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ECB30i/35i 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)			
							ECB30i @500MM/@600MM		ECB35i @500MM/@600MM	
2-stage Standard Mast	3000	130	2105	4000	5°	8°	3000	3000	3500	3430
	3300	130	2255	4300	5°	8°	3000	3000	3500	3330
	3500	130	2355	4500	5°	8°	3000	2950	3500	3270
	4000	130	2455	4700	5°	8°	2900	2810	3350	3120
	4500	130	2605	5000	5°	8°	2730	2650	3150	2940
	4800	130	2905	5500	5°	6°	2670	2570	3050	2860
	5000	130	3055	5800	5°	6°	2600	2530	3000	2820
	5500	130	3255	6000	5°	6°	2450	2400	2870	2690
	6000	130	3455	6500	5°	6°	2300	2250	2720	2560
	3000	130	3705	7000	5°	6°	3000	3000	3500	3430
2-stage FFL mast	3300	1105	2105	4000	5°	8°	3000	3000	3500	3330
	3500	1255	2255	4300	5°	8°	3000	2950	3500	3270
	4000	1355	2355	4500	5°	8°	2900	2810	3350	3120
	4000	1605	2605	5000	5°	8°	2880	2810	3350	3120
3-stage Dual FFL mast	4500	990	1990	5500	5°	6°	2700	2650	3150	2940
	4800	1190	2190	5500	5°	6°	2650	2570	3050	2860
	5000	1340	2340	5800	5°	6°	2600	2530	3000	2820
	5500	1340	2340	6000	5°	6°	2450	2400	2870	2680
	6000	1540	2540	6500	5°	6°	2300	2250	2720	2560
	6500	1740	2740	7000	5°	6°	2200	2150	2500	2400
	4000	1955	2955	7500	5°	3°	2880	2810	3350	3120
3-stage Single FFL Mast	4500	1090	2090	5000	5°	6°	2700	2650	3150	3100
	4800	1205	2205	5350	5°	6°	2650	2570	3050	2940
	5000	1255	2255	5500	5°	6°	2600	2530	3000	2820
	5500	1355	2355	5800	5°	6°	2450	2400	2870	2680
	6000	1420	2420	6000	5°	6°	2300	2250	2720	2560
	6500	1520	2520	6300	5°	6°	2200	2150	2500	2400

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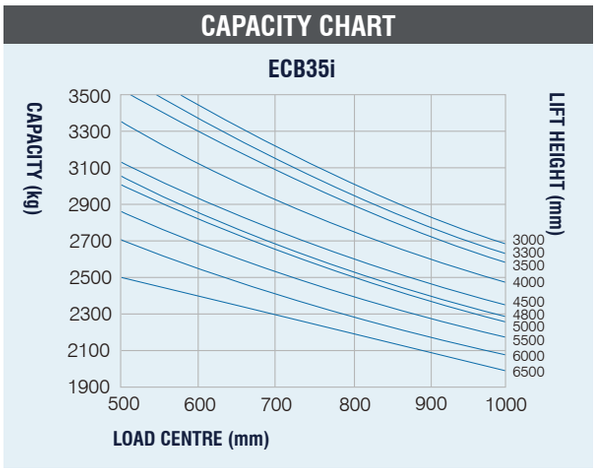

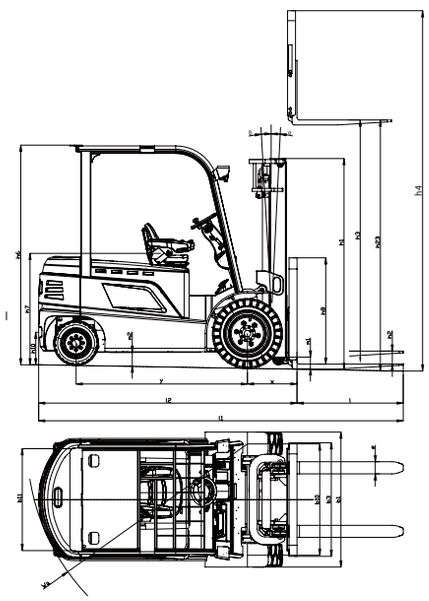

STANDARD FEATURES

- 80V Dual AC drive motor
- 4.8m 3-stage FFL Mast with dual FFL
- Cascade Integral sideshifter
- 4-Way Hydraulic valve
- Full LED lights
- 80V 21.6kwh (ECB20i/25i/27i)
  80V 43.2kwh (ECB30i/35i)
- 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:
  Variable Battery solutions up to 80V/54.4kwh.

BYD Forklift

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CE BYD forklifts conform to the European Safety Requirements

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