

TRUCK FEATURES



STANDARD EQUIPMENT:

- BYD Iron-Phosphate Technology Battery 80V 270Ah (21.6 kWh)
- Ex d Battery Box
- Ex e Dual AC traction motors
- Ex e Pump motors
- Ex q Inverter
- Fork sheathing
- Antistatic wheels
- Front working lights
- Cornering speed reduction
- Oil-immersed disc brake
- OPS (Operator Presence Sensor)
- Regenerative braking system
- Clear-view masts
- Charger 80V 100A
- Orange seat belt

OPTIONAL EQUIPMENT:

- 1-hour fast-charging solution
- Charger 80V 200A
- Battery 80V 540Ah (43.2 kWh)
- Cabin and weather protection kits
- Dual joystick control
- Synchronised steering control
- Blue light
- Flashing beacon
- Panoramic mirror
- Rear working light
- Multiple masts variants



ISO 9001
ISO 14001
OHSAS 18001



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As a result of a strategic partnership with the Miretti Group, the global leader in explosion-proof protection systems, BYD now offers the world's first ATEX certified counterbalance forklift powered by our own Lithium Iron-Phosphate battery.

BYD explosion-proof machines feature the lowest Total Cost of Ownership with only one battery required, even for use in multi-shift applications.

ECB20/25/27 EXPLOSION-PROOF (ATEX) TRUCK

WORLD' S FIRST ATEX
COUNTERBALANCE FORKLIFT WITH IRON-PHOSPHATE
BATTERY (2000 kg/2500 kg/2700 kg)

**CHANGE YOUR MIND
NOT YOUR BATTERY**

 Lithium | **8 YRS 10,000 HRS** Battery Warranty | BYD Iron-Phosphate

ECB20/25/27 SPECIFICATIONS

Identification	1.1	Manufacturer		BYD	BYD	BYD	
	1.2	Model		ECB20	ECB25	ECB27	
	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
	Weight	2.1	Service weight		kg	3600	4200
2.2		Axle load, with load, front/rear		kg	4901/699	5811/889	6338/822
2.3		Axle load, without load, front/rear		kg	1672/1928	1775/2425	1799/2661
Wheels, Chassis	3.1	Tyres			SE	SE	SE
	3.2	Tyre size, front		mm	21×8-9	21×8-9	21×8×15
	3.3	Tyre size, rear		mm	18×7-8	18×7-8	18×6×12.125
	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	965
	Basic Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b	deg	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	3990	3990	3990
4.7		Height of overhead guard	h6	mm	2195	2195	2195
4.8		Seat height	h7	mm	1100	1100	1100
4.12		Coupling height	h10	mm	333	333	333
4.19		Overall length	l1	mm	3375	3375	3390
4.20		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	45/125/1070
4.23		Fork carriage ISO 2328, class/type A, B			2A	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
4.33		Aisle width for pallets 1000×1200 crossways	Ast	mm	3646	3646	3660
4.34		Aisle width for pallets 800×1200 lengthways	Ast	mm	3845	3845	3787
4.35		Turning radius	Wa	mm	2020	2020	2034
Performance Data		5.1	Travel speed, with/without load		Km/h	20/20	20/20
	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	Max. drawbar pull, 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
5.10	Service brake		s	Mech./Hydr.	Mech./Hydr.	Mech./Hydr.	
Motor	6.1	Drive motor rating S2 60 min.		kW	8×2	8×2	8×2
	6.2	Lift motor rating at S3 15%		kW	20.7	20.7	20.7
	6.4	Battery voltage, nominal capacity K5		V/Ah	80/270	80/270	80/270
	6.5	Battery weight		kg	540	840	840
Others	8.1	Type of drive control			AC	AC	AC
	8.2	Operating pressure for attachments		Bar	142	168	172
	8.4	Sound level at the driver's ear		dB(A)	≤75	≤75	≤75
	8.5	Towing coupling, type			PIN	PIN	PIN

*BYD reserves the right to alter and modify the design, features and technical parameters of its products at any given time and without pre-advise, as products are subject to ongoing and continuous development.

MAST SPECIFICATIONS

- 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 Specifications (mm)	h3	h2	h1	h4	α	β	Residual Capacity (kg)		Residual Capacity (kg)		Residual Capacity (kg)	
							ECB20 @500MM	ECB20 @600MM	ECB25 @500MM	ECB25 @600MM	ECB27 @500MM	ECB27 @600MM
2-stage standard Mast	3000	140	2030	3990	5°	8°	2000	1930	2500	2450	2700	2700
	3300	140	2180	4290	5°	8°	2000	1870	2500	2380	2700	2670
	3500	140	2280	4490	5°	8°	1970	1830	2500	2340	2700	2620
	4000	140	2580	4990	5°	8°	1850	1730	2380	2210	2680	2490
	4500	140	2830	5490	5°	5°	1720	1610	2230	2080	2540	2360
2-stage FFL Mast	3000	1070	2060	3990	5°	8°	2000	1930	2500	2450	2700	2700
	3300	1220	2210	4290	5°	8°	2000	1870	2500	2380	2700	2670
	3500	1320	2310	4490	5°	8°	1970	1830	2500	2340	2700	2620
	4000	1570	2560	4990	5°	8°	1850	1730	2380	2210	2680	2490
	3-stage FFL Mast (Dual full free lift mast)	4000	960	1950	4990	5°	5°	1850	1730	2380	2210	2680
4500		1120	2110	5490	5°	5°	1720	1610	2230	2080	2540	2360
4800		1220	2210	5790	5°	5°	1660	1550	2160	2020	2460	2300
5000		1285	2275	5990	5°	5°	1620	1520	2110	1980	2260	2120
5500		1470	2460	6490	5°	5°	1530	1430	2000	1880	2130	2000
6000		1680	2670	6990	5°	5°	1440	1350	1800	1780	-	-
6500		1840	2830	7490	5°	5°	1300	1200	1700	1600	-	-
3-stage FFL Mast (Single full free lift mast)	4000	935	1925	4990	5°	5°	1850	1730	2380	2210	2680	2490
	4500	1095	2085	5490	5°	5°	1720	1610	2230	2080	2540	2360
	4800	1195	2185	5790	5°	5°	1660	1550	2160	2020	2460	2300
	5000	1255	2245	5990	5°	5°	1620	1520	2110	1980	2260	2120
	5500	1455	2445	6490	5°	5°	1530	1430	2000	1880	2130	2000
	6000	1665	2655	6990	5°	5°	1440	1350	1800	1780	-	-
	6500	1825	2815	7490	5°	3°	1300	1200	1700	1600	-	-
	7000	2045	3035	7990	3°	3°	1000	1000	1100	1100	-	-
7500	2245	3235	8490	3°	3°	600	600	700	700	-	-	

LOADING CAPACITY

