



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

# ECB16 EXPLOSION-PROOF (ATEX) TRUCK

WORLD'S FIRST ATEX  
COUNTERBALANCE FORKLIFT WITH IRON-PHOSPHATE  
BATTERY (1600 kg)



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

## 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

### OPTIONAL EQUIPMENT :

- 1-hour fast-charging solution
- Charger 80V 200A
- Cabin and weather protection kits
- Dual joystick control
- Synchronized steering control
- Blue light
- Flashing beacon
- Panoramic mirror
- Rear working light
- Orange seat belt
- Multiple masts variants



ISO 9001  
ISO 14001  
OHSAS 18001



**BYD Europe B.V.**

's-Gravelandseweg 256, 3125 BK Schiedam, The Netherlands  
Tel: 0031 1020 70888 E-mail: [forklift@byd.com](mailto:forklift@byd.com)  
04-23/BPS/V1 [www.bydforklift.com](http://www.bydforklift.com)

# ECB16 SPECIFICATIONS

Identification	1.1	Manufacturer			BYD
	1.2	Model			ECB16
	1.3	Drive			Electric
	1.4	Operator type			Seat
	1.5	Rated capacity	Q	kg	1600
	1.6	Load center	c	mm	500
	1.8	Load distance, center of drive axle to fork	x	mm	370
	1.9	Wheelbase	y	mm	1360
	Weight	2.1	Service weight		kg
2.2		Axle load, with load, front/rear		kg	4083/617
2.3		Axle load, without load, front/rear		kg	1466/1634
Wheels, Chassis	3.1	Tyres			SE
	3.2	Tyre size, front		mm	18×7-8
	3.3	Tyre size, rear		mm	15×4.5-8
	3.5	Wheels, number front rear (x=driven wheels)			2x/2
	3.6	Track width, front	b10	mm	890
	3.7	Track width, rear	b11	mm	190
	Basic Dimensions	4.1	Tilt of mast/fork carriage forward/backward	a/b	deg
4.2		Height, mast lowered	h1	mm	2020
4.3		Free lift	h2	mm	120
4.4		Lift height	h3	mm	3000
4.5		Height, mast extended	h4	mm	4040
4.7		Height of overhead guard	h6	mm	2050
4.8		Seat height	h7	mm	985
4.12		Coupling height	h10	mm	480
4.19		Overall length	l1	mm	3005
4.20		Length to face of forks	l2	mm	1935
4.21		Overall width	b1	mm	1050
4.22		Fork dimensions	s/e/l	mm	40/100/1070
4.23		Fork carriage ISO 2328, class/type A, B			2A
4.24		Fork carriage width	b3	mm	1040
4.31		Ground clearance, with load, below mast	m1	mm	95
4.32		Ground clearance, center of wheelbase	m2	mm	95
4.33		Aisle width for pallets 1000×1200 crossways	Ast	mm	3261
4.34		Aisle width for pallets 800×1200 lengthways	Ast	mm	3385
4.35		Turning radius	Wa	mm	1570
Performance Data	5.1	Travel speed, with/without load		Km/h	16/16
	5.2	Lift speed, with/without load		mm/s	500/550
	5.3	Lowering speed, with/without load		mm/s	530/500
	5.6	Max. drawbar pull, with/without load		KN	9.0/7.9
	5.8	Max. gradeability, with/without load		%	20/20
	5.9	Acceleration time, with/without load (0-10m)		s	4.5/4.0
	5.10	Service brake			Hydr.
Motor	6.1	Drive motor rating S2 60 min.		kW	5×2
	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	650
	Others	8.1	Type of drive control		
8.2		Operating pressure for attachments		Mpa	16
8.4		Sound level at the driver's ear		dB(A)	≤75
8.5		Towing coupling, type			PIN

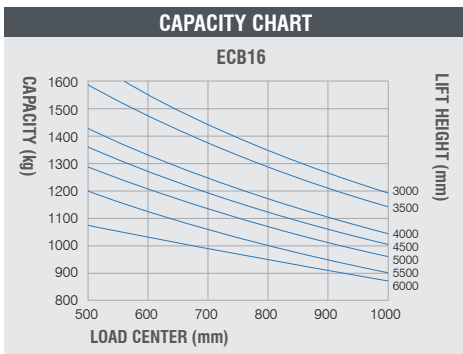
\*BYD reserves the right to alter and modify the design, features and technical parameters of its products at any given time and without pre-advise, as products are subject to ongoing and continuous development.

# 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(with backrest)	h1	h4	α	β	Residual Capacity (kg) (without attachment)	
							ECB16@500MM	ECB16@600MM
2-stage standard Mast	3000	130	2020	4040	5°	7°	1600	1550
	3300	130	2170	4340	5°	7°	1600	1500
	3500	130	2270	4540	5°	7°	1580	1470
	4000	130	2570	5040	5°	7°	1520	1390
	4500	130	2820	5540	5°	5°	1380	1290
	5000	130	3120	6040	5°	5°	1310	1230
2-stage FFL Mast	3000	1020	2020	4040	5°	7°	1600	1550
	3300	1170	2170	4340	5°	7°	1600	1500
	3500	1270	2270	4540	5°	7°	1580	1470
	4000	1570	2570	5040	5°	7°	1380	1390
3-stage FFL Mast (Dual full free lift mast)	4500	1045	2045	5540	5°	5°	1380	1390
	4800	1145	2145	5840	5°	5°	1380	1290
	5000	1195	2195	6040	5°	5°	1340	1250
	5500	1395	2395	6540	5°	3°	1310	1230
	6000	1665	2665	7040	5°	3°	1240	1160
	6500	1845	2845	7540	5°	3°	1050	1000
3-stage FFL Mast (Single full free lift mast)	4500	1045	2045	5540	5°	5°	1380	1390
	4800	1145	2145	5840	5°	5°	1380	1290
	5000	1195	2195	6040	5°	5°	1340	1250
	5500	1395	2395	6540	5°	3°	1310	1230
	6000	1665	2665	7040	5°	3°	1240	1160
	6500	1845	2845	7540	5°	3°	1050	1000

## LOADING CAPACITY



\*Widened tires required when the mast exceeds 6 meters

