

BYD FORKLIFT

# ECB16 - three wheels

COUNTER BALANCE  
FORKLIFT SERIES

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## AVAILABLE FEATURES

### Safety

- Electric braking system
- Slope protection
- Multi-functional seat with safe belt
- Operator Presence Sensing (OPS)
- Programmable automatic speed limit
- Cylinder lowering speed limit
- Charger protection
- Overload protection
- High loading position protection
- Strobe light and reversing alarm
- LED headlights and rear combination lights

### Performance

- Iron-phosphate Battery
- AC drive system
- AC hydraulic lift system
- Small turning radius
- Battery rapid charging & opportunity charging
- Programmable performance
- Digital (LCD) multifunction display
  - Time & date
  - OPS time accumulator
  - Battery capacity indicator
  - Over-discharge warning (lift interrupt)
  - Parking brake indicator
- Direction indicator
- Maintenance indicator
- Overload indicator
- Built-in analyzer
- Self-diagnostics

### Operability & Ergonomics

- Strategically configured instrument
- Front & rear operator assist grips
- Automatic fork-leveling control
- Hydraulic directional shift control
- Seat-mounted Mini dual joystick
- Heavy-duty slip-resistant floor mat
- Bay with USB port
- Bay with Cup holder
- Parking brake alarm

### Serviceability

- AC drive motor (no brushes or commutator)
- AC hydraulic motor (no brushes or commutator)
- Charging port analyzing connection
- Easy-access no-tools floorboard
- Maintenance-free battery case
- Easy-lift battery hood
- Hydraulic fluid level check
- Easy-access controllers
- CAN-bus controller wiring

## OPTIONAL EQUIPMENT

### Load Handling (Wide visible mast)

- Standard lift 2-stage mast (Duplex standard )
- Full free-lift 2-stage mast (Duplex FFL )
- Full free-lift 2-stage 2-cylinder mast (Duplex FFL )
- Lifting buffer
- Standard lift 3-stage mast (Triplex standard)
- Full free-lift 3-stage 3-cylinder mast (Triplex FFL )
- Full free-lift 3-stage 4-cylinder mast (Triplex FFL )
- Lifting speed limit
- Other customized fork
- High-load backrest
- Other customized load backrest

### Load Handling (Hose & Valve Assembly)

- 4-way valve (no 3rd & 4th function hosing)
- 4-way valve (with 3rd function hosing)
- 4-way valve (with 3rd & 4th function hosing)
- Hydraulic DV10 fitting on 3rd lever
- Hydraulic DV10 fitting on 4th lever
- Cascade hang-on side shifter
- Integral side shifter
- Fork positioners
- Clamps
- Rotators
- Load pushes
- Multiple load handlers
- Mobile weighing
- Layer pickers
- Hose reels

### Lights & Indicators

- Front headlights
- Rear combination lights
- LED Distance Warning spot Light
- LED Distance Warning laser Light
- Strobe light, yellow (on top of OHG)
- Back up buzzer
- Armrest horn

### Body

- Operator Presence Sensing Unit
- Fork camera
- Reversing radar
- Reversing camera
- Fan
- Fire extinguisher
- Overload protection
- Parking brake alarm
- Rearview mirrors (left & right sides)
- Flat internal rearview mirror
- Panoramic rearview mirror
- Rear assist grip with horn button
- Orange seatbelt
- Cabin without woors (Includes windshield with wiper, roof & rear glass)
- Full sealing cabin (Includes windshield with wiper & roof)
- Front windshield with wiper & Roof
- Synchronous steering
- Special key
- Bay with USB inlet
- Fork sleeves
- Overhead guard sheet
- Double accelerator pedal (One on each side of brake pedal)

### Wheels & Tires

- Solid
- Non-marking solid
- Pneumatic



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## COUNTER BALANCE FORKLIFT SPECIFICATIONS

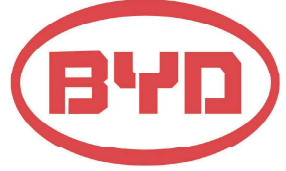
Characteristic	Manufacturer				BYD	
	Model				ECB16B/ECB16C	
	Power Unit				Electric	
	Operation				Seat	
	Load Capacity	Q	lbs	kg	3527	1600
	Load Centre	c	in	mm	20	500
	Axle Centre To Force Face	x	in	mm	15	370
	Wheel Base	y	in	mm	54	1360
Weights	Service Weight		lbs	kg	6834	3100
	Axle Load With Load, Front/rear		lbs	kg	9001/1360	4083/617
	Axle Load Without load, Front/rear		lbs	kg	3232/3602	1466/1634
Wheels	Tyre Rubber, SE, Pneumatic, Polyurethane				SE	
	Tyre Size, Front				18x7-8	
	Tyre Size, Rear				15x4.5-8	
	Wheels, Number Front/rear (x = driven)				2x/2	
	Track Width, Front	b10	in	mm	35	890
	Track Width, Rear	b11	in	mm	7	190
Dimensions	Mast/fork Carriage Tilt, Forward/backward	$\alpha/\beta$	°	°	5/7	
	Height Of Mast, Lowered	h1	in	mm	80	2020
	Free Lift	h2	in	mm	5	120
	Lift	h3	in	mm	118	3000
	Height Of Mast, Extended	h4	in	mm	157	3985
	Height Of Overhead Guard (Cabin)	h6	in	mm	81	2050
	Height Of Seat/stand On Platform	h7	in	mm	39	985
	Towing Coupling Height	h10	in	mm	19	480
	Overall Length	l1	in	mm	116	2935
	Length To Fork Face	l2	in	mm	76	1935
	Overall Width	b1	in	mm	41	1050
	Fork Dimensions	s/e/l	in	mm	2/4/39	40/100/1000
	Fork Carriage To ISO 2328, Class/type A, B				2A	
	Width Of Fork Carriage	b3	in	mm	41	1040
	Ground Clearance, Below Mast	m1	in	mm	4	95
	Ground Clearance, Centre Of Wheelbase	m2	in	mm	4	95
	Aisle Width With Pallet 1000 x 1200 Across Forks	Ast	in	mm	128	3261
	Aisle Width With Pallet 800 x 1200 Along Forks	Ast	in	mm	133	3385
Turning Radius	Wa	in	mm	62	1570	
Minimum Pivoting Point Distance	b13	in	mm	0	0	
Performance	Travel Speed, With/without Load		mph	Km/h	10/10	16/16
	Lifting Speed, With/without Load		ft/min	mm/s	98/108	500/550
	Lowering Speed, With/without Load		ft/min	mm/s	104/98	530/500
	Tractive Force, With/without Load		KN	KN	9.0/7.9	
	Climbing Ability, With/without Load		%	%	20/20	
	Acceleration Time, With/without Load		s	s	4.5/4.0	
	Service Brake				Hydraulic	
Drive	Drive Motor, 60 Minute Rating		HP	kW	6.7x2	5x2
	Lift Motor, Rating at S3 15%		HP	kW	21	16
	Battery Voltage/Rated Capacity		V/Ah	V/Ah	80/270	
	Battery Weight		lbs	kg	1433	650
Others	Type Of Drive Control				AC	
	Operating Pressure For Attachments		Mpa	Mpa	16	
	Noise Level At Pperator's Ear		dB(A)	dB(A)	≤75	
	Traction Pin Connections				PIN	



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## MAST SPECIFICATIONS

ECB16 three wheel	Maximum Fork Height (h3)	With Standard Load backrest (h2)	Without Standard Load backrest (h2)	Lowered (h1)	Extended with standard Load backrest (h4)	h8	FWD( $\alpha$ )	BWD( $\beta$ )	Load capacity at 20 inch (510mm) load center	Load capacity at 24 inch (610mm) load center
	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	deg	deg	lbs (kg)	lbs (kg)
Standard Mast	118(3000)	5(125)	5(125)	80(2020)	157(3985)	37(950)	5°	7°	3699(1678)	3419(1551)
	130(3300)	5(125)	5(125)	85(2170)	169(4285)	37(950)	5°	7°	3574(1621)	3309(1501)
	138(3500)	5(125)	5(125)	89(2270)	177(4485)	37(950)	5°	7°	3503(1589)	3245(1472)
	157(4000)	5(125)	5(125)	101(2570)	196(4985)	37(950)	5°	7°	3148(1428)	2930(1329)
	177(4500)	5(125)	5(125)	111(2820)	216(5485)	37(950)	5°	5°	3000(1361)	2800(1270)
197(5000)	5(125)	5(125)	123(3120)	236(5985)	37(950)	5°	5°	2842(1289)	2657(1205)	
Two-stages Fully Free Mast	118(3000)	42(1070)	56(1430)	80(2020)	157(3985)	37(950)	5°	7°	3699(1678)	3419(1551)
	130(3300)	48(1220)	62(1580)	85(2170)	169(4285)	37(950)	5°	7°	3574(1621)	3309(1501)
	138(3500)	52(1320)	66(1680)	89(2270)	177(4485)	37(950)	5°	7°	3503(1589)	3245(1472)
	157(4000)	64(1620)	78(1980)	101(2570)	196(4985)	37(950)	5°	7°	3148(1428)	2930(1329)
Three-Stages Fully Free Mast( 3 cylinders )	177(4500)	43(1103)	58(1463)	81(2053)	216(5485)	37(950)	5°	5°	3000(1361)	2800(1270)
	189(4800)	47(1203)	62(1563)	85(2153)	228(5785)	37(950)	5°	5°	2926(1327)	2731(1239)
	197(5000)	49(1253)	64(1613)	87(2203)	236(5985)	37(950)	5°	5°	2842(1289)	2657(1205)
	217(5500)	57(1453)	71(1813)	95(2403)	255(6485)	37(950)	5°	5°	2643(1199)	2478(1124)
	236(6000)	68(1723)	80(2040)	105(2673)	275(6985)	37(950)	5°	3°	2176(987)	2370(1075)
	256(6500)	75(1903)	88(2240)	112(2853)	295(7485)	37(950)	5°	3°	1854(841)	2097(951)
Three-Stages Fully Free Mast( 4 cylinders )	157(4000)	37(945)	51(1305)	75(1895)	196(4985)	37(950)	5°	5°	3148(1428)	2930(1329)
	177(4500)	43(1095)	57(1455)	81(2045)	216(5485)	37(950)	5°	5°	3000(1361)	2800(1270)
	189(4800)	47(1195)	61(1555)	84(2145)	228(5785)	37(950)	5°	5°	2926(1327)	2731(1239)
	197(5000)	49(1245)	63(1605)	86(2195)	236(5985)	37(950)	5°	5°	2842(1289)	2657(1205)
	217(5500)	57(1445)	71(1805)	94(2395)	255(6485)	37(950)	5°	5°	2643(1199)	2478(1124)
	236(6000)	68(1715)	80(2040)	105(2665)	275(6985)	37(950)	5°	3°	2176(987)	2370(1075)
	256(6500)	75(1895)	88(2240)	112(2845)	295(7485)	37(950)	5°	3°	1854(841)	2097(951)



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