

BYD FORKLIFT

# ECB18 - three wheels

COUNTER BALANCE  
FORKLIFT SERIES

---





# BYD FORKLIFT

## 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



COUNTER BALANCE FORKLIFT SPECIFICATIONS

BYD FORKLIFT

BYD

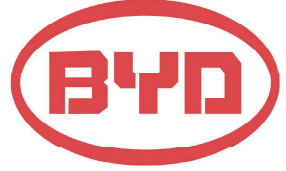
Characteristic	Manufacturer				ECB18B/ECB18C	
	Model				Electric	
	Power Unit				Seat	
	Operation				3968	1800
	Load Capacity	Q	lbs	kg	20	500
	Load Centre	c	in	mm	15	370
	Axle Centre To Force Face	x	in	mm	54	1360
	Wheel Base	y	in	mm	7275	3300
Weights	Service Weight		lbs	kg	9910/1334 4495/605	
	Axle Load With Load, Front/rear		lbs	kg	3419/3856 1551/1749	
	Axle Load Without load, Front/rear		lbs	kg	SE	
Wheels	Tyre Rubber, SE, Pneumatic, Polyurethane				200/50-10	
	Tyre Size, Front				140/55-9	
	Tyre Size, Rear				2x/2	
	Wheels, Number Front/rear (x = driven)				37	930
	Track Width, Front	b10	in	mm	9	220
	Track Width, Rear	b11	in	mm	5/7	
Dimensions	Mast/fork Carriage Tilt, Forward/backward	α/β	°	°	80	2020
	Height Of Mast, Lowered	h1	in	mm	5	120
	Free Lift	h2	in	mm	118	3000
	Lift	h3	in	mm	157	3985
	Height Of Mast, Extended	h4	in	mm	81	2050
	Height Of Overhead Guard (Cabin)	h6	in	mm	39	985
	Height Of Seat/stand On Platform	h7	in	mm	19	480
	Towing Coupling Height	h10	in	mm	118	3005
	Overall Length	l1	in	mm	79	2005
	Length To Fork Face	l2	in	mm	44	1130
	Overall Width	b1	in	mm	2/4/39	40/100/1000
	Fork Dimensions	s/e/l	in	mm	2A	
	Fork Carriage To ISO 2328, Class/type A, B				41	1040
	Width Of Fork Carriage	b3	in	mm	4	95
	Ground Clearance, Below Mast	m1	in	mm	4	95
	Ground Clearance, Centre Of Wheelbase	m2	in	mm	131	3331
	Aisle Width With Pallet 1000 x 1200 Across Forks	Ast	in	mm	136	3455
	Aisle Width With Pallet 800 x 1200 Along Forks	Ast	in	mm	65	1640
	Turning Radius	Wa	in	mm	0	0
	Minimum Pivoting Point Distance	b13	in	mm	10/10	16/16
Performance	Travel Speed, With/without Load		mph	Km/h	98/108	500/550
	Lifting Speed, With/without Load		ft/min	mm/s	104/98	530/500
	Lowering Speed, With/without Load		ft/min	mm/s	9.0/8.0	
	Tractive Force, With/without Load		KN	KN	18/20	
	Climbing Ability, With/without Load		%	%	4.5/4.0	
	Acceleration Time, With/without Load		s	s	Hydraulic	
	Service Brake				6.7x2	5x2
Drive	Drive Motor, 60 Minute Rating		HP	kW	21	16
	Lift Motor, Rating at S3 15%		HP	kW	80/270	
	Battery Voltage/Rated Capacity		V/Ah	V/Ah	1433	650
	Battery Weight		lbs	kg	AC	
Others	Type Of Drive Control				18	
	Operating Pressure For Attachments		Mpa	Mpa	≤75	
	Noise Level At Pperator's Ear		dB(A)	dB(A)	PIN	
	Traction Pin Connections					



# BYD FORKLIFT

## MAST SPECIFICATIONS

ECB18 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°	4321(1960)	3993(1811)
	130(3300)	5(125)	5(125)	85(2170)	169(4285)	37(950)	5°	7°	4180(1896)	3869(1755)
	138(3500)	5(125)	5(125)	89(2270)	177(4485)	37(950)	5°	7°	4101(1860)	3799(1723)
	157(4000)	5(125)	5(125)	101(2570)	196(4985)	37(950)	5°	7°	3710(1683)	3455(1567)
	177(4500)	5(125)	5(125)	111(2820)	216(5485)	37(950)	5°	5°	3543(1607)	3305(1499)
	197(5000)	5(125)	5(125)	123(3120)	236(5985)	37(950)	5°	5°	3364(1526)	3146(1427)
Two-stages Fully Free Mast	118(3000)	42(1070)	56(1430)	80(2020)	157(3985)	37(950)	5°	7°	4321(1960)	3993(1811)
	130(3300)	48(1220)	62(1580)	85(2170)	169(4285)	37(950)	5°	7°	4180(1896)	3869(1755)
	138(3500)	52(1320)	66(1680)	89(2270)	177(4485)	37(950)	5°	7°	4101(1860)	3799(1723)
	157(4000)	64(1620)	78(1980)	101(2570)	196(4985)	37(950)	5°	7°	3710(1683)	3455(1567)
Three-Stages Fully Free Mast ( 3 cylinders )	177(4500)	43(1103)	58(1463)	81(2053)	216(5485)	37(950)	5°	5°	3543(1607)	3305(1499)
	189(4800)	47(1203)	62(1563)	85(2153)	228(5785)	37(950)	5°	5°	3459(1569)	3232(1466)
	197(5000)	49(1253)	64(1613)	87(2203)	236(5985)	37(950)	5°	5°	3364(1526)	3146(1427)
	217(5500)	57(1453)	71(1813)	95(2403)	255(6485)	37(950)	5°	5°	3148(1428)	2952(1339)
	236(6000)	68(1723)	80(2040)	105(2673)	275(6985)	37(950)	5°	3°	1795(814)	2066(937)
	256(6500)	75(1903)	88(2240)	112(2853)	295(7485)	37(950)	5°	3°	1517(688)	1563(709)
Three-Stages Fully Free Mast ( 4 cylinders )	157(4000)	37(945)	51(1305)	75(1895)	196(4985)	37(950)	5°	5°	3710(1683)	3455(1567)
	177(4500)	43(1095)	57(1455)	81(2045)	216(5485)	37(950)	5°	5°	3543(1607)	3305(1499)
	189(4800)	47(1195)	61(1555)	84(2145)	228(5785)	37(950)	5°	5°	3459(1569)	3232(1466)
	197(5000)	49(1245)	63(1605)	86(2195)	236(5985)	37(950)	5°	5°	3364(1526)	3146(1427)
	217(5500)	57(1445)	71(1805)	94(2395)	255(6485)	37(950)	5°	5°	3148(1428)	2952(1339)
	236(6000)	68(1715)	80(2040)	105(2665)	275(6985)	37(950)	5°	3°	1795(814)	2066(937)
	256(6500)	75(1895)	88(2240)	112(2845)	295(7485)	37(950)	5°	3°	1517(688)	1563(709)



BYD FORKLIFT

