



ECB18B/C - three wheels

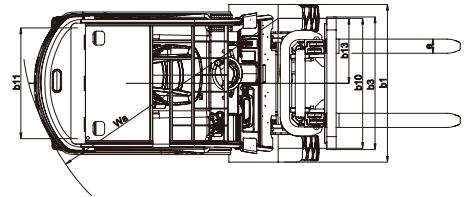
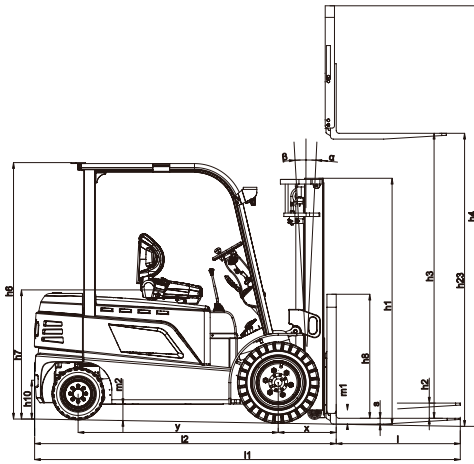
COUNTER BALANCE
FORKLIFT SERIES



NEW ENERGY FORKLIFT LEADER

BYD Efficient Lithium-Ion Electric Forklift

byd-forklifts.com



STANDARD 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

Characteristic	Manufacturer				BYD	
	Model				ECB18B/ECB18C	
	Power Unit				Electric	
	Operation				Seat	
	Load Capacity	Q	lbs	kg	3968	1800
	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	7275	3300
	Axle Load With Load, Front/rear		lbs	kg	9910/1334	4495/605
	Axle Load Without load, Front/rear		lbs	kg	3419/3856	1551/1749
Wheels	Tyre Rubber, SE, Pneumatic, Polyurethane				SE	
	Tyre Size, Front				200/50-10	
	Tyre Size, Rear				140/55-9	
	Wheels, Number Front/rear (x = driven)				2x/2	
	Track Width, Front	b10	in	mm	37	930
	Track Width, Rear	b11	in	mm	9	220
Dimensions	Mast/fork Carriage Tilt, Forward/backward	α/β	°	°	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	118	3005
	Length To Fork Face	l2	in	mm	79	2005
	Overall Width	b1	in	mm	44	1130
	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	131	3331
	Aisle Width With Pallet 800 x 1200 Along Forks	Ast	in	mm	136	3455
	Turning Radius	Wa	in	mm	65	1640
	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	9.0/8.0	
	Climbing Ability, With/without Load		%	%	18/20	
	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	18	
	Noise Level At Pperator 's Ear		dB(A)	dB(A)	≤75	
	Traction Pin Connections				PIN	

MAST SPECIFICATIONS

ECB18B ECB18C	Maximum Fork Height (h3)	With Standard Load backrest (h2)	Without Standard Load backrest (h2)	Lowered (h1)	Extended with standard Load backrest (h4)	h8	FWD(α)	BWD(β)	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)	157(4000)	37(945)	51(1305)	75(1895)	196(4990)	37(950)	5°	5°	\	\
	177(4500)	43(1095)	57(1455)	81(2045)	216(5490)	37(950)	5°	5°	3543(1607)	3305(1499)
	189(4800)	47(1195)	61(1555)	84(2145)	228(5790)	37(950)	5°	5°	3459(1569)	3232(1466)
	197(5000)	49(1245)	63(1605)	86(2195)	236(5990)	37(950)	5°	5°	3364(1526)	3146(1427)
	209(5300)	55(1395)	69(1755)	92(2345)	248(6290)	37(950)	5°	5°	\	\
	217(5500)	57(1445)	71(1805)	94(2395)	256(6490)	37(950)	5°	3°	3148(1428)	2952(1339)
	228(5800)	63(1595)	77(1955)	100(2545)	267(6790)	37(950)	5°	3°	\	\
	236(6000)	68(1715)	80(2040)	105(2665)	275(6990)	37(950)	5°	3°	1795(814)	2066(937)
	256(6500)	75(1895)	88(2240)	112(2845)	295(7490)	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°	3°	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)

BYD Forklift production site is certified:

ISO 9001 ISO 14001 OHSAS 18001



BYD forklifts conform to the
United States Safety Requirements
All BYD forklifts comply with ANSI/ITSDF B56.1



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