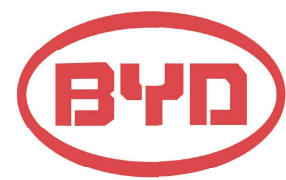


BYD FORKLIFT

ECB50

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

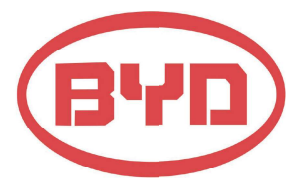
- Front headlights
- Rear combination lights
- LED Distance Warning spot Light
- LED Distance Warning laser Light
- Strobe light, yellow (on top of OHG)
- Back up buzzer
- Armrest horn

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

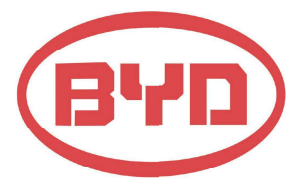
- Solid
- Non-marking solid
- Pneumatic



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COUNTER BALANCE FORKLIFT SPECIFICATIONS

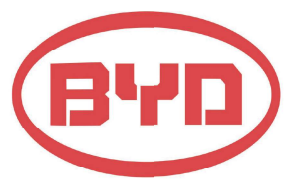
Characteristic	Manufacturer				BYD	
	Model				ECB50B/ECB50C	
	Power Unit				Electric	
	Operation				Seat	
	Load Capacity	Q	lbs	kg	11023	5000
	Load Centre	c	in	mm	20	500
	Axle Centre To Force Face	x	in	mm	22	555
	Wheel Base	y	in	mm	79	2000
Weights	Service Weight		lbs	kg	16204	7350
	Axle Load With Load, Front/rear		lbs	kg	24162/3064	10960/1390
	Axle Load Without load, Front/rear		lbs	kg	7319/8885	3320/4030
Wheels	Tyre Rubber, SE, Pneumatic, Polyurethane				SE	
	Tyre Size, Front				28x12.5-15	
	Tyre Size, Rear				21x8-9	
	Wheels, Number Front/rear (x = driven)				2x/2	
	Track Width, Front	b10	in	mm	48	1216
	Track Width, Rear	b11	in	mm	44	1130
Dimensions	Mast/fork Carriage Tilt, Forward/backward	α/β	°	°	6/8	
	Height Of Mast, Lowered	h1	in	mm	93	2350
	Free Lift	h2	in	mm	5	130
	Lift	h3	in	mm	118	3000
	Height Of Mast, Extended	h4	in	mm	168	4255
	Height Of Overhead Guard (Cabin)	h6	in	mm	93	2360
	Height Of Seat/stand On Platform	h7	in	mm	50	1260
	Towing Coupling Height	h10	in	mm	19	490
	Overall Length	l1	in	mm	157	3990
	Length To Fork Face	l2	in	mm	115	2920
	Overall Width	b1	in	mm	60	1516
	Fork Dimensions	s/e/l	in	mm	2/6/42	55/150/1070
	Fork Carriage To ISO 2328, Class/type A, B				3A	
	Width Of Fork Carriage	b3	in	mm	59	1500
	Ground Clearance, Below Mast	m1	in	mm	6	150
	Ground Clearance, Centre Of Wheelbase	m2	in	mm	6	160
	Aisle Width With Pallet 1000 x 1200 Across Forks	Ast	in	mm	171	4355
	Aisle Width With Pallet 800 x 1200 Along Forks	Ast	in	mm	179	4555
	Turning Radius	Wa	in	mm	102	2600
	Minimum Pivoting Point Distance	b13	in	mm	32	810
Performance	Travel Speed, With/without Load		mph	Km/h	11/11	18/18
	Lifting Speed, With/without Load		ft/min	mm/s	69/89	350/450
	Lowering Speed, With/without Load		ft/min	mm/s	98/79	500/400
	Tractive Force, With/without Load		KN	KN	23/18	
	Climbing Ability, With/without Load		%	%	15/20	
	Acceleration Time, With/without Load		s	s	4/4.5	
	Service Brake				Hydraulic	
Drive	Drive Motor, 60 Minute Rating		HP	kW	20.1x2	15x2
	Lift Motor, Rating at S3 15%		HP	kW	34	25.4
	Battery Voltage/Rated Capacity		V/Ah	V/Ah	80/810	
	Battery Weight		lbs	kg	1984	900
Others	Type Of Drive Control				AC	
	Operating Pressure For Attachments		Mpa	Mpa	17.0	
	Noise Level At Pperator's Ear		dB(A)	dB(A)	≤75	
	Traction Pin Connections				—	



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MAST SPECIFICATIONS

ECB50	Maximum Fork Height (h3)	With 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)	deg	deg	lbs (kg)	lbs (kg)
Standard Mast	118(3000)	6(145)	93(2350)	168(4255)	47(1200)	6°	8°	11568(5247)	10714(4860)
	138(3500)	6(145)	102(2600)	187(4755)	47(1200)	6°	8°	11204(5082)	10366(4702)
	157(4000)	6(145)	112(2850)	207(5255)	47(1200)	6°	8°	10683(4846)	10018(4544)
	177(4500)	6(145)	122(3100)	227(5755)	47(1200)	6°	6°	9907(4494)	9317(4226)
	197(5000)	6(145)	132(3350)	246(6255)	47(1200)	6°	6°	9431(4278)	8885(4030)
Two-stages Fully Free Mast	118(3000)	41(1035)	88(2235)	168(4255)	47(1200)	6°	8°	11568(5247)	10714(4860)
	130(3300)	47(1185)	94(2385)	179(4555)	47(1200)	6°	8°	\	\
	138(3500)	51(1285)	98(2485)	187(4755)	47(1200)	6°	8°	11204(5082)	10366(4702)
	157(4000)	62(1585)	110(2785)	207(5255)	47(1200)	6°	8°	10683(4846)	10018(4544)
Three-Stages Fully Free Mast	157(4000)	37(945)	84(2145)	207(5255)	47(1200)	6°	6°	10683(4846)	10018(4544)
	177(4500)	44(1115)	91(2315)	227(5755)	47(1200)	6°	6°	9907(4494)	9317(4226)
	189(4800)	48(1215)	95(2415)	238(6055)	47(1200)	6°	6°	\	\
	197(5000)	51(1285)	98(2485)	246(6255)	47(1200)	6°	6°	9431(4278)	8885(4030)
	217(5500)	57(1445)	104(2645)	266(6755)	47(1200)	6°	6°	8995(4080)	8488(3850)
	236(6000)	64(1615)	111(2815)	286(7255)	47(1200)	6°	6°	8583(3893)	8113(3680)
	256(6500)	70(1785)	118(2985)	305(7755)	47(1200)	6°	3°	8113(3680)	7681(3484)
	268(6800)	74(1885)	121(3085)	317(8055)	47(1200)	6°	3°	7879(3574)	7465(3386)



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