

BYD FORKLIFT

ECB16 - four 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		BYD	
	Model				ECB16S-B/ECB16S-C		ECB16D-B/ECB16D-C	
	Power Unit				Electric		Electric	
	Operation				Seat		Seat	
	Load Capacity	Q	lbs	kg	3527	1600	3527	1600
	Load Centre	c	in	mm	20	500	20	500
	Axle Centre To Force Face	x	in	mm	17	420	15	370
	Wheel Base	y	in	mm	55	1400	55	1400
Weights	Service Weight		lbs	kg	7363	3340	6944	3150
	Axle Load With Load, Front/rear		lbs	kg	9273/1618	4206/734	8785/1687	3985/765
	Axle Load Without load, Front/rear		lbs	kg	3428/3935	1555/1785	3064/3946	1390/1760
Wheels	Tyre Rubber, SE, Pneumatic, Polyurethane				SE		SE	
	Tyre Size, Front				6.00-9		18x7-8	
	Tyre Size, Rear				16x6-8		140/55-9	
	Wheels, Number Front/rear (x = driven)				2x/2		2x/2	
	Track Width, Front	b10	in	mm	35	890	35	900
	Track Width, Rear	b11	in	mm	34	870	35	900
Dimensions	Mast/fork Carriage Tilt, Forward/backward	α/β	°	°	5/8		5/7	
	Height Of Mast, Lowered	h1	in	mm	80	2020	80	2020
	Free Lift	h2	in	mm	4	110	5	120
	Lift	h3	in	mm	118	3000	118	3000
	Height Of Mast, Extended	h4	in	mm	159	4040	159	4040
	Height Of Overhead Guard (Cabin)	h6	in	mm	81	2050	81	2050
	Height Of Seat/stand On Platform	h7	in	mm	40	1005	39	990
	Towing Coupling Height	h10	in	mm	11	270	10	250
	Overall Length	l1	in	mm	126	3195	124	3145
	Length To Fork Face	l2	in	mm	84	2125	82	2075
	Overall Width	b1	in	mm	41	1050	42	1060
	Fork Dimensions	s/e/l	in	mm	2/4/39	40/100/1000	2/4/42	40/100/1070
	Fork Carriage To ISO 2328, Class/type A, B				2A		2A	
	Width Of Fork Carriage	b3	in	mm	41	1044	41	1040
	Ground Clearance, Below Mast	m1	in	mm	3	85	4/4	95/100
	Ground Clearance, Centre Of Wheelbase	m2	in	mm	4	95	3/4	85/90
	Aisle Width With Pallet 1000 x 1200 Across Forks	Ast	in	mm	137	3480	134	3400
	Aisle Width With Pallet 800 x 1200 Along Forks	Ast	in	mm	145	3680	141	3590
	Turning Radius	Wa	in	mm	73	1860	72	1820
Minimum Pivoting Point Distance	b13	in	mm	21	537	17	433	
Performance	Travel Speed, With/without Load		mph	Km/h	10/10	16/16	10/10	16/16
	Lifting Speed, With/without Load		ft/min	mm/s	83/89	420/450	83/89	420/450
	Lowering Speed, With/without Load		ft/min	mm/s	102/94	520/480	94/89	480/450
	Tractive Force, With/without Load		KN	KN	10.0/9.5		9.0/8.0	
	Climbing Ability, With/without Load		%	%	20/20		15/20	
	Acceleration Time, With/without Load		s	s	6.0/5.0		4.5/4.0	
	Service Brake				Hydraulic		Hydraulic	
Drive	Drive Motor, 60 Minute Rating		HP	kW	11	8.5	6.7x2	5x2
	Lift Motor, Rating at S3 15%		HP	kW	21	16	21	16
	Battery Voltage/Rated Capacity		V/Ah	V/Ah	80/270		80/270	
	Battery Weight		lbs	kg	1433	650	1433	650
Others	Type Of Drive Control				AC		AC	
	Operating Pressure For Attachments		Mpa	Mpa	≤16		≤16	
	Noise Level At Pperator's Ear		dB(A)	dB(A)	≤75		≤75	
	Traction Pin Connections				PIN		PIN	

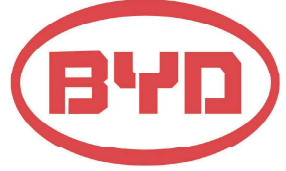


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MAST SPECIFICATIONS

ECB16 D-B / ECB16 D-C	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°	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)
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 cylinder)	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)
Three-Stages Fully Free Mast(4 cylinder)	256(6500)	75(1903)	88(2240)	112(2853)	295(7485)	37(950)	5°	3°	1854(841)	2097(951)
	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)	

ECB16 S-B / ECB16 S-C	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(2027)	159(4040)	39(1000)	5°	8°	3699(1678)	3419(1551)
	130(3300)	5(125)	5(125)	86(2177)	171(4340)	39(1000)	5°	8°	3574(1621)	3309(1501)
	138(3500)	5(125)	5(125)	90(2277)	179(4540)	39(1000)	5°	8°	3503(1589)	3245(1472)
	157(4000)	5(125)	5(125)	101(2577)	198(5040)	39(1000)	5°	8°	3148(1428)	2930(1329)
	177(4500)	5(125)	5(125)	111(2827)	218(5540)	39(1000)	5°	6°	3000(1361)	2800(1270)
	197(5000)	5(125)	5(125)	123(3127)	238(6040)	39(1000)	5°	6°	2842(1289)	2657(1205)
Three-Stages Fully Free Mast (3 cylinder)	157(4000)	37(952)	53(1340)	77(1952)	198(5040)	39(1000)	5°	6°	3148(1428)	2930(1329)
	177(4500)	43(1102)	59(1506)	83(2102)	218(5540)	39(1000)	5°	6°	3000(1361)	2800(1270)
	189(4800)	47(1202)	63(1606)	87(2202)	230(5840)	39(1000)	5°	6°	2926(1327)	2731(1239)
	197(5000)	49(1252)	65(1656)	89(2252)	238(6040)	39(1000)	5°	6°	2842(1289)	2657(1205)
	209(5300)	53(1352)	69(1756)	93(2352)	250(6340)	39(1000)	5°	6°	\	\
	217(5500)	55(1402)	71(1806)	95(2402)	257(6540)	39(1000)	5°	3°	2643(1199)	2478(1124)
	228(5800)	61(1552)	77(1956)	100(2552)	269(6840)	39(1000)	5°	3°	\	\
	236(6000)	66(1672)	80(2040)	105(2672)	277(7040)	39(1000)	5°	3°	2176(987)	2370(1075)
	256(6500)	73(1852)	88(2240)	112(2852)	297(7540)	39(1000)	3°	3°	1854(841)	2097(951)



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