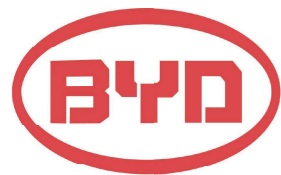


ECB35

COUNTER BALANCE
FORKLIFT SERIES



BYD FORKLIFT



AVAILABLE FEATURES

Safety

- | | | |
|---|---|--|
| <ul style="list-style-type: none">• Electric braking system• Slope protection• Multi-functional seat with safe belt• Operator Presence Sensing (OPS) | <ul style="list-style-type: none">• Programmable automatic speed limit• Cylinder lowering speed limit• Charger protection• Overload protection | <ul style="list-style-type: none">• High loading position protection• Strobe light and reversing alarm• LED headlights and rear combination lights |
|---|---|--|

Performance

- | | | |
|---|--|---|
| <ul style="list-style-type: none">• Iron-phosphate Battery• AC drive system• AC hydraulic lift system• Small turning radius• Battery rapid charging & opportunity charging• Programmable performance | <ul style="list-style-type: none">• Digital (LCD) multifunction display<ul style="list-style-type: none">– Time & date– OPS time accumulator– Battery capacity indicator– Over-discharge warning (lift interrupt)– Parking brake indicator | <ul style="list-style-type: none">– Direction indicator– Maintenance indicator– Overload indicator• Built-in analyzer• Self-diagnostics |
|---|--|---|

Operability & Ergonomics

- | | | |
|--|---|---|
| <ul style="list-style-type: none">• Strategically configured instrument• Front & rear operator assist grips• Automatic fork-leveling control | <ul style="list-style-type: none">• Hydraulic directional shift control• Seat-mounted Mini dual joystick• Heavy-duty slip-resistant floor mat | <ul style="list-style-type: none">• Bay with USB port• Bay with Cup holder• Parking brake alarm |
|--|---|---|

Serviceability

- | | | |
|--|--|---|
| <ul style="list-style-type: none">• AC drive motor (no brushes or commutator)• AC hydraulic motor (no brushes or commutator)• Charging port analyzing connection | <ul style="list-style-type: none">• Easy-access no-tools floorboard• Maintenance-free battery case• Easy-lift battery hood | <ul style="list-style-type: none">• Hydraulic fluid level check• Easy-access controllers• CAN-bus controller wiring |
|--|--|---|

OPTIONAL EQUIPMENT

Load Handling (Wide visible mast)

- | | | |
|---|---|---|
| <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• Other customized fork• High-load backrest• Other customized load backrest |
|---|---|---|

Load Handling (Hose & Valve Assembly)

- | | | |
|--|--|---|
| <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• Cascade hang-on side shifter<ul style="list-style-type: none">– Integral side shifter– Fork positioners– Clamps– Rotators | <ul style="list-style-type: none">– Load pushes– Multiple load handlers– Mobile weighing– Layer pickers– Hose reels |
|--|--|---|

Lights & Indicators

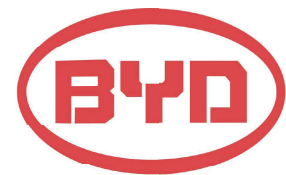
- | | | |
|--|---|---|
| <ul style="list-style-type: none">• Front headlights• Rear combination lights | <ul style="list-style-type: none">• LED Distance Warning spot Light• LED Distance Warning laser Light• Strobe light, yellow (on top of OHG) | <ul style="list-style-type: none">• Back up buzzer• Armrest horn |
|--|---|---|

Body

- | | | |
|---|--|---|
| <ul style="list-style-type: none">• Operator Presence Sensing Unit• Fork camera• Reversing radar• Reversing camera• Fan• Fire extinguisher• Overload protection• Parking brake alarm | <ul style="list-style-type: none">• 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) | <ul style="list-style-type: none">• 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

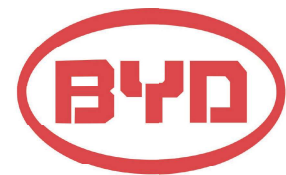
- | | | |
|---|---|---|
| <ul style="list-style-type: none">• Solid | <ul style="list-style-type: none">• Non-marking solid | <ul style="list-style-type: none">• Pneumatic |
|---|---|---|



BYD FORKLIFT

COUNTER BALANCE FORKLIFT SPECIFICATIONS

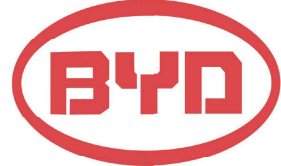
Characteristic	Manufacturer				BYD		BYD	
	Model				ECB35B/ECB35C		ECB35D/ECB35E	
	Power Unit				Electric		Electric	
	Operation				Seat		Seat	
	Load Capacity	Q	lbs	kg	7716	3500	7716	3500
	Load Centre	c	in	mm	20	500	20	500
	Axle Centre To Force Face	x	in	mm	18	460	20	500
	Wheel Base	y	in	mm	68	1725	68	1725
Weights	Service Weight		lbs	kg	11993	5440	12346	5600
	Axle Load With Load, Front/rear		lbs	kg	17024/2685	7722/1218	17886/2176	8113/987
	Axle Load Without load, Front/rear		lbs	kg	5013/6980	2274/3166	5697/6649	2584/3016
Wheels	Tyre Rubber, SE, Pneumatic, Polyurethane				SE		SE	
	Tyre Size, Front				23x10-12		28x9-15	
	Tyre Size, Rear				200/50-10		200/50-10	
	Wheels, Number Front/rear (x = driven)				2x/2		2x/2	
	Track Width, Front	b10	in	mm	44	1110	44	1120
	Track Width, Rear	b11	in	mm	38	955	38	955
Dimensions	Mast/fork Carriage Tilt, Forward/backward	α/β	°	°	5/8		5/8	
	Height Of Mast, Lowered	h1	in	mm	83	2105	83	2105
	Free Lift	h2	in	mm	5	130	5	130
	Lift	h3	in	mm	118	3000	118	3000
	Height Of Mast, Extended	h4	in	mm	159	4050	157	4000
	Height Of Overhead Guard (Cabin)	h6	in	mm	87	2215	87	2215
	Height Of Seat/stand On Platform	h7	in	mm	45	1140	45	1140
	Towing Coupling Height	h10	in	mm	13	333	13	333
	Overall Length	l1	in	mm	143	3630	144	3670
	Length To Fork Face	l2	in	mm	101	2560	102	2600
	Overall Width	b1	in	mm	54	1360	54	1360
	Fork Dimensions	s/e/l	in	mm	2/5/42	50/125/1070	2/5/42	50/125/1070
	Fork Carriage To ISO 2328, Class/type A, B				3A		3A	
	Width Of Fork Carriage	b3	in	mm	45	1145	45	1145
	Ground Clearance, Below Mast	m1	in	mm	4	110	4	110
	Ground Clearance, Centre Of Wheelbase	m2	in	mm	5	130	5	130
	Aisle Width With Pallet 1000 x 1200 Across Forks	Ast	in	mm	153	3875	156	3970
	Aisle Width With Pallet 800 x 1200 Along Forks	Ast	in	mm	160	4070	164	4170
	Turning Radius	Wa	in	mm	87	2210	89	2270
	Minimum Pivoting Point Distance	b13	in	mm	19	485	22	560
Performance	Travel Speed, With/without Load		mph	Km/h	12/12	20/20	9/10	15/16
	Lifting Speed, With/without Load		ft/min	mm/s	75/89	380/450	75/89	380/450
	Lowering Speed, With/without Load		ft/min	mm/s	108/89	550/450	108/89	550/450
	Tractive Force, With/without Load		KN	KN	17.2/13.6		14/14	
	Climbing Ability, With/without Load		%	%	20/20		15/20	
	Acceleration Time, With/without Load		s	s	4.9/4.3		4/4.5	
	Service Brake				Hydraulic		Hydraulic	
Drive	Drive Motor, 60 Minute Rating		HP	kW	13.4x2	10x2	29	21.5
	Lift Motor, Rating at S3 15%		HP	kW	32	24	32	24
	Battery Voltage/Rated Capacity		V/Ah	V/Ah	80/540		80/540	
	Battery Weight		lbs	kg	1367	620	1367	620
Others	Type Of Drive Control				AC		AC	
	Operating Pressure For Attachments		Mpa	Mpa	18		18	
	Noise Level At Pperator's Ear		dB(A)	dB(A)	≤75		≤75	
	Traction Pin Connections				PIN		PIN	



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MAST SPECIFICATIONS

ECB35 General	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(130)	5(130)	83(2105)	157(4000)	37(950)	5°	8°	8139(3692)	7562(3430)
	130(3300)	5(130)	5(130)	89(2255)	169(4300)	37(950)	5°	8°	7903(3585)	7355(3336)
	138(3500)	5(130)	5(130)	93(2355)	177(4500)	37(950)	5°	8°	7754(3517)	7222(3276)
	146(3700)	5(130)	5(130)	97(2455)	185(4700)	37(950)	5°	8°	\	\
	157(4000)	5(130)	5(130)	103(2605)	197(5000)	37(950)	5°	8°	7385(3350)	6896(3128)
	177(4500)	5(130)	5(130)	114(2905)	217(5500)	37(950)	5°	6°	6918(3138)	6477(2938)
	189(4800)	5(130)	5(130)	120(3055)	228(5800)	37(950)	5°	6°	6720(3048)	6296(2856)
	197(5000)	5(130)	5(130)	126(3205)	236(6000)	37(950)	5°	6°	6631(3008)	6221(2822)
	217(5500)	5(130)	5(130)	136(3455)	256(6500)	37(950)	5°	6°	6310(2862)	5930(2690)
	236(6000)	5(130)	5(130)	146(3705)	276(7000)	37(950)	5°	6°	5977(2711)	5628(2553)
Two-stages Fully Free Mast	118(3000)	45(1155)	54(1382)	83(2105)	157(4000)	37(950)	5°	8°	8139(3692)	7562(3430)
	130(3300)	51(1305)	60(1532)	89(2255)	169(4300)	37(950)	5°	8°	7903(3585)	7355(3336)
	138(3500)	55(1405)	64(1632)	93(2355)	177(4500)	37(950)	5°	8°	7754(3517)	7222(3276)
	157(4000)	65(1655)	74(1882)	103(2605)	197(5000)	37(950)	5°	8°	7385(3350)	6896(3128)
ECB35B / ECB35C Three- Stages Fully Free Mast (4 cylinders)	157(4000)	41(1040)	50(1267)	78(1990)	217(5500)	37(950)	5°	6°	7385(3350)	6896(3128)
	177(4500)	49(1240)	58(1467)	86(2190)	217(5500)	37(950)	5°	6°	6918(3138)	6477(2938)
	189(4800)	55(1390)	61(1550)	92(2340)	228(5800)	37(950)	5°	6°	6720(3048)	6296(2856)
	197(5000)	55(1390)	64(1617)	92(2340)	236(6000)	37(950)	5°	6°	6631(3008)	6221(2822)
	217(5500)	63(1590)	72(1817)	100(2540)	256(6500)	37(950)	5°	6°	6310(2862)	5930(2690)
	236(6000)	70(1790)	79(2017)	108(2740)	276(7000)	37(950)	5°	6°	5977(2711)	5628(2553)
	256(6500)	79(2005)	88(2232)	116(2955)	295(7500)	37(950)	5°	3°	5516(2502)	5373(2437)
ECB35B / ECB35C Three- Stages Fully Free Mast (3 cylinders)	157(4000)	45(1140)	54(1367)	82(2090)	197(5000)	37(950)	5°	6°	7385(3350)	6896(3128)
	171(4350)	49(1255)	58(1482)	87(2205)	211(5350)	37(950)	5°	6°	\	\
	177(4500)	51(1305)	60(1532)	89(2255)	217(5500)	37(950)	5°	6°	6918(3138)	6896(3128)
	189(4800)	55(1405)	64(1632)	93(2355)	228(5800)	37(950)	5°	6°	6720(3048)	6477(2938)
	197(5000)	58(1470)	67(1697)	95(2420)	236(6000)	37(950)	5°	6°	6631(3008)	6296(2856)
	209(5300)	62(1570)	71(1797)	99(2520)	248(6300)	37(950)	5°	6°	\	6221(2822)
	217(5500)	64(1635)	73(1862)	102(2585)	256(6500)	37(950)	5°	6°	6310(2862)	5930(2690)
	236(6000)	71(1800)	80(2027)	108(2750)	276(7000)	37(950)	5°	6°	5977(2711)	5628(2553)
ECB35D / ECB35E Three- Stages Fully Free Mast (3 cylinders)	256(6500)	77(1960)	86(2187)	115(2910)	295(7500)	37(950)	5°	3°	5516(2502)	5373(2437)
	157(4000)	45(1140)	54(1367)	82(2090)	197(5000)	37(950)	5°	6°	7385(3350)	6896(3128)
	171(4350)	49(1255)	58(1482)	87(2205)	211(5350)	37(950)	5°	6°	\	\
	177(4500)	51(1305)	60(1532)	89(2255)	217(5500)	37(950)	5°	6°	6918(3138)	6477(2938)
	189(4800)	55(1405)	64(1632)	93(2355)	228(5800)	37(950)	5°	6°	6720(3048)	6296(2856)
	197(5000)	58(1470)	67(1697)	95(2420)	236(6000)	37(950)	5°	6°	6631(3008)	6221(2822)
	209(5300)	62(1570)	71(1797)	99(2520)	248(6300)	37(950)	5°	6°	\	\
	217(5500)	64(1635)	73(1862)	102(2585)	256(6500)	37(950)	5°	6°	6310(2862)	5930(2690)
	236(6000)	71(1800)	80(2027)	108(2750)	276(7000)	37(950)	5°	6°	5977(2711)	5628(2553)
	256(6500)	77(1960)	86(2187)	115(2910)	295(7500)	37(950)	5°	3°	5516(2502)	5373(2437)



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