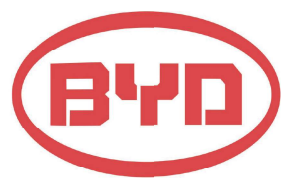


# ECB40

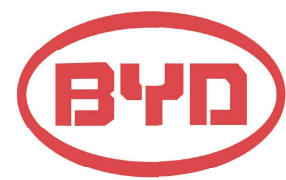
COUNTER BALANCE  
FORKLIFT SERIES

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BYD FORKLIFT





## 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

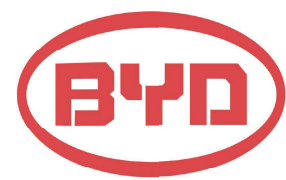
- Front headlights
- Rear combination lights
- LED Distance Warning spot Light
- LED Distance Warning laser Light
- Strobe light, yellow (on top of OHG)
- Back up buzzer
- Armrest horn

#### 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

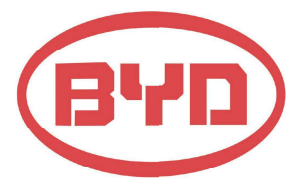
- Solid
- Non-marking solid
- Pneumatic



## BYD FORKLIFT

### COUNTER BALANCE FORKLIFT SPECIFICATIONS

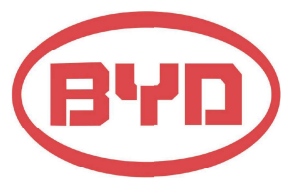
|                |                                                  |                |        |       |                     |             |
|----------------|--------------------------------------------------|----------------|--------|-------|---------------------|-------------|
| Characteristic | Manufacturer                                     |                |        |       | BYD                 |             |
|                | Model                                            |                |        |       | ECB40B/ECB40C       |             |
|                | Power Unit                                       |                |        |       | Electric            |             |
|                | Operation                                        |                |        |       | Seat                |             |
|                | Load Capacity                                    | Q              | lbs    | kg    | 8818                | 4000        |
|                | Load Centre                                      | c              | in     | mm    | 20                  | 500         |
|                | Axle Centre To Fork Face                         | x              | in     | mm    | 22                  | 555         |
|                | Wheel Base                                       | y              | in     | mm    | 79                  | 2000        |
| Weights        | Service Weight                                   |                | lbs    | kg    | 14881               | 6750        |
|                | Axle Load With Load, Front/rear                  |                | lbs    | kg    | 20811/28889440/1310 |             |
|                | Axle Load Without load, Front/rear               |                | lbs    | kg    | 7341/7540 3330/3420 |             |
| 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        | $\alpha/\beta$ | °      | °     | 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                         |                |        |       | —                   |             |



**BYD FORKLIFT**

**MAST SPECIFICATIONS**

| ECB40                        | Maximum Fork Height (h3) | With 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)  | deg             | deg            | lbs (kg)                                     | lbs (kg)                                     |
| Standard Mast                | 118(3000)                | 6(145)                           | 93(2350)     | 168(4255)                                 | 47(1200) | 6°              | 8°             | 9639(4372)                                   | 8929(4050)                                   |
|                              | 138(3500)                | 6(145)                           | 102(2600)    | 187(4755)                                 | 47(1200) | 6°              | 8°             | 9431(4278)                                   | 8673(3934)                                   |
|                              | 157(4000)                | 6(145)                           | 112(2850)    | 207(5255)                                 | 47(1200) | 6°              | 8°             | 8977(4072)                                   | 8417(3818)                                   |
|                              | 177(4500)                | 6(145)                           | 122(3100)    | 227(5755)                                 | 47(1200) | 6°              | 6°             | 8239(3737)                                   | 7749(3515)                                   |
|                              | 197(5000)                | 6(145)                           | 132(3350)    | 246(6255)                                 | 47(1200) | 6°              | 6°             | 7815(3545)                                   | 7361(3339)                                   |
| Two-stages Fully Free Mast   | 118(3000)                | 41(1035)                         | 88(2235)     | 168(4255)                                 | 47(1200) | 6°              | 8°             | 9639(4372)                                   | 8929(4050)                                   |
|                              | 130(3300)                | 47(1185)                         | 94(2385)     | 179(4555)                                 | 47(1200) | 6°              | 8°             | \                                            | \                                            |
|                              | 138(3500)                | 51(1285)                         | 98(2485)     | 187(4755)                                 | 47(1200) | 6°              | 8°             | 9431(4278)                                   | 8673(3934)                                   |
|                              | 157(4000)                | 62(1585)                         | 110(2785)    | 207(5255)                                 | 47(1200) | 6°              | 8°             | 8977(4072)                                   | 8417(3818)                                   |
| Three-Stages Fully Free Mast | 157(4000)                | 37(945)                          | 84(2145)     | 207(5255)                                 | 47(1200) | 6°              | 6°             | 8977(4072)                                   | 8417(3818)                                   |
|                              | 177(4500)                | 44(1115)                         | 91(2315)     | 227(5755)                                 | 47(1200) | 6°              | 6°             | 8239(3737)                                   | 7749(3515)                                   |
|                              | 189(4800)                | 48(1215)                         | 95(2415)     | 238(6055)                                 | 47(1200) | 6°              | 6°             | \                                            | \                                            |
|                              | 197(5000)                | 51(1285)                         | 98(2485)     | 246(6255)                                 | 47(1200) | 6°              | 6°             | 7815(3545)                                   | 7361(3339)                                   |
|                              | 217(5500)                | 57(1445)                         | 104(2645)    | 266(6755)                                 | 47(1200) | 6°              | 6°             | 7425(3368)                                   | 7006(3178)                                   |
|                              | 236(6000)                | 64(1615)                         | 111(2815)    | 286(7255)                                 | 47(1200) | 6°              | 6°             | 7059(3202)                                   | 6673(3027)                                   |
|                              | 256(6500)                | 70(1785)                         | 118(2985)    | 305(7755)                                 | 47(1200) | 6°              | 3°             | 6631(3008)                                   | 6279(2848)                                   |
|                              | 268(6800)                | 74(1885)                         | 121(3085)    | 317(8055)                                 | 47(1200) | 6°              | 3°             | 6422(2913)                                   | 6085(2760)                                   |



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