

## TRUCK FEATURES



### STANDARD EQUIPMENT:

- BYD Iron-Phosphate Technology
- Battery 80V 270Ah (21.6 kWh)
- Dual AC drive
- 4-way valve
- Integrated side-shifter
- Mechanical lever (Basic model)
- Finger-tip control (Comfort model)
- TFT display
- Cornering speed reduction
- Oil-immersed disc brake
- OPS (Operator Presence Sensor)
- Regenerative braking system
- Clear-view masts
- Charger 80V 100A
- Orange seat belt

### OPTIONAL EQUIPMENT:

- 1-hour fast-charging solution
- Charger 80V 200A
- Battery 80V 540Ah (43.2 kWh)
- Cabin and weather protection kits
- Dual joystick control
- Synchronised steering control
- Blue light
- Panoramic mirror
- Rear working light
- LED lights
- Multiple masts variants
- Double pedal system
- Battery 80V 340Ah (27.2 kWh)
- Later safety lights



The BYD ECB20/25 range of counterbalanced trucks are capable of lifting up to 2500 kg with a choice of 3 capacities. With dual AC drive technology, BYD Forklifts can offer performance levels which often exceed engine powered competitors. All BYD Forklifts are powered by the BYD Iron-Phosphate Technology and feature the most up-to-date Battery Management System. We also offer the longest battery-warranty in the industry, 8-years or 10,000 hours, whichever comes first. Thanks to ultra-fast side charging with flexible battery and charger options, BYD Forklifts easily operate in multi-shift applications on a single battery, saving you both time and money.

## ECB20/25/27

BYD COUNTERBALANCE FORKLIFT  
4-WHEELER (2000kg/2500kg/2700kg)

CHANGE YOUR MIND  
NOT YOUR BATTERY

 Lithium |  8 YRS 10,000 HRS Battery Warranty | BYD Iron-Phosphate

# ECB20/25/27 SPECIFICATIONS

|                  |                  |   |   |       |             |             |             |         |
|------------------|------------------|---|---|-------|-------------|-------------|-------------|---------|
| Identification   | 1.1              | Manufacturer                                |   |       | BYD         | BYD         | BYD         |         |
|                  | 1.2              | Model                                       |   |       | ECB20       | ECB25       | ECB27       |         |
|                  | 1.3              | Drive                                       |   |       | Electric    | Electric    | Electric    |         |
|                  | 1.4              | Operator type                               |   |       | Seat        | Seat        | Seat        |         |
|                  | 1.5              | Rated capacity                              | Q   | kg    | 2000        | 2500        | 2700        |         |
|                  | 1.6              | Load center                                 | c   | mm    | 500         | 500         | 600         |         |
|                  | 1.8              | Load distance, center of drive axle to fork | x   | mm    | 425         | 425         | 430         |         |
|                  | 1.9              | Wheelbase                                   | y   | mm    | 1505        | 1505        | 1505        |         |
|                  | Weight           | 2.1   | Service weight                              |       | kg          | 3600        | 4200        | 4460    |
| 2.2              |                  | Axle load, with load, front/rear            |   | kg    | 4901/699    | 5811/889    | 6338/822    |         |
| 2.3              |                  | Axle load, without load, front/rear         |   | kg    | 1672/1928   | 1775/2425   | 1799/2661   |         |
| Wheels, Chassis  | 3.1              | Tyres                                       |   |       | SE          | SE          | SE          |         |
|                  | 3.2              | Tyre size, front                            |   | mm    | 21×8-9      | 21×8-9      | 21×8×15     |         |
|                  | 3.3              | Tyre size, rear                             |   | mm    | 18×7-8      | 18×7-8      | 18×6×12.125 |         |
|                  | 3.5              | Wheels, number front rear (x=driven wheels) |   |       | 2x/2        | 2x/2        | 2x/2        |         |
|                  | 3.6              | Track width, front                          | b10   | mm    | 1000        | 1000        | 1000        |         |
|                  | 3.7              | Track width, rear                           | b11   | mm    | 955         | 955         | 965         |         |
|                  | Basic Dimensions | 4.1   | Tilt of mast/fork carriage forward/backward | a/b   | deg         | 5/8         | 5/8         | 5/5     |
| 4.2              |                  | Height, mast lowered                        | h1  | mm    | 2030        | 2030        | 2030        |         |
| 4.3              |                  | Free lift                                   | h2  | mm    | 140         | 140         | 140         |         |
| 4.4              |                  | Lift height                                 | h3  | mm    | 3000        | 3000        | 3000        |         |
| 4.5              |                  | Height, mast extended                       | h4  | mm    | 4040        | 4040        | 3990        |         |
| 4.7              |                  | Height of overhead guard                    | h6  | mm    | 2195        | 2195        | 2195        |         |
| 4.8              |                  | Seat height                                 | h7  | mm    | 1100        | 1100        | 1100        |         |
| 4.12             |                  | Coupling height                             | h10   | mm    | 333         | 333         | 333         |         |
| 4.19             |                  | Overall length                              | l1  | mm    | 3375        | 3375        | 3390        |         |
| 4.20             |                  | Length to face of forks                     | l2  | mm    | 2305        | 2305        | 2320        |         |
| 4.21             |                  | Overall width                               | b1  | mm    | 1195        | 1195        | 1195        |         |
| 4.22             |                  | Fork dimensions                             | s/e/l                                       | mm    | 40/100/1070 | 40/100/1070 | 45/125/1070 |         |
| 4.23             |                  | Fork carriage ISO 2328, class/type A, B     |   |       | 2A          | 2A          | 2A/3A       |         |
| 4.24             |                  | Fork carriage width                         | b3  | mm    | 1085        | 1085        | 1085        |         |
| 4.31             |                  | Ground clearance, with load, below mast     | m1  | mm    | 95          | 95          | 95          |         |
| 4.32             |                  | Ground clearance, center of wheelbase       | m2  | mm    | 105         | 105         | 105         |         |
| 4.33             |                  | Aisle width for pallets 1000×1200 crossways | Ast   | mm    | 3646        | 3646        | 3660        |         |
| 4.34             |                  | Aisle width for pallets 800×1200 lengthways | Ast   | mm    | 3845        | 3845        | 3787        |         |
| 4.35             |                  | Turning radius                              | Wa  | mm    | 2020        | 2020        | 2034        |         |
| Performance Data |                  | 5.1   | Travel speed, with/without load             |       | Km/h        | 20/20       | 20/20       | 18/18   |
|                  |                  | 5.2   | Lift speed, with/without load               |       | mm/s        | 420/450     | 420/450     | 420/450 |
|                  | 5.3              | Lowering speed, with/without load           |   | mm/s  | 500/400     | 500/400     | 500/400     |         |
|                  | 5.6              | Max. drawbar pull, with/without load        |   | KN    | 12.7/9.0    | 12.5/9.5    | 12/10       |         |
|                  | 5.8              | Max. gradeability, with/without load        |   | %     | 20/20       | 20/20       | 18/20       |         |
|                  | 5.10             | Service brake                               |   | s     | Mech./Hydr. | Mech./Hydr. | Mech./Hydr. |         |
| Motor            | 6.1              | Drive motor rating S2 60 min.               |   | kW    | 8×2         | 8×2         | 8×2         |         |
|                  | 6.2              | Lift motor rating at S3 15%                 |   | kW    | 20.7        | 20.7        | 20.7        |         |
|                  | 6.4              | Battery voltage, nominal capacity K5        |   | V/Ah  | 80/270      | 80/270      | 80/270      |         |
| 6.5              | Battery weight   |   | kg  | 350   | 350         | 840         |             |         |
| Others           | 8.1              | Type of drive control                       |   |       | AC          | AC          | AC          |         |
|                  | 8.2              | Operating pressure for attachments          |   | Bar   | 142         | 168         | 172         |         |
|                  | 8.4              | Sound level at the driver's ear             |   | dB(A) | ≤75         | ≤75         | ≤75         |         |
|                  | 8.5              | Towing coupling, type                       |   |       | PIN         | PIN         | PIN         |         |

\*BYD reserves the right to alter and modify the design, features and technical parameters of its products at any given time and without pre-advise, as products are subject to ongoing and continuous development.

# MAST SPECIFICATIONS

- h3 Lifting Height (mm)
- h2 Full Free Lift Height (mm) (Load Backrest 1000mm)
- h1 Height, Mast Fully Lowered (mm)
- h4 Height, Mast Fully Extended (mm) (Load Backrest 1000mm)
- α Tilt Forward
- β Tilt Backward

| Mast Specifications (mm)                      | h3   | h2   | h1   | h4   | α  | β   | Residual Capacity (kg) |              |              |              |              |              |
|---|------|------|------|------|----|-----|------------------------|--------------|--------------|--------------|--------------|--------------|
|   |      |      |      |      |    |     | ECB20 @500MM           | ECB20 @600MM | ECB25 @500MM | ECB25 @600MM | ECB27 @500MM | ECB27 @600MM |
| 2-stage standard Mast                         | 3000 | 140  | 2030 | 3990 | 5° | 8°  | 2000                   | 1930         | 2500         | 2450         | 2700         | 2700         |
|   | 3300 | 140  | 2180 | 4290 | 5° | 8°  | 2000                   | 1870         | 2500         | 2380         | 2700         | 2670         |
|   | 3500 | 140  | 2280 | 4490 | 5° | 8°  | 1970                   | 1830         | 2500         | 2340         | 2700         | 2620         |
|   | 4000 | 140  | 2580 | 4990 | 5° | 8°  | 1850                   | 1730         | 2380         | 2210         | 2680         | 2490         |
|   | 4500 | 140  | 2830 | 5490 | 5° | 5°  | 1720                   | 1610         | 2230         | 2080         | 2540         | 2360         |
| 2-stage FFL Mast                              | 3000 | 1070 | 2060 | 3990 | 5° | 8°  | 2000                   | 1930         | 2500         | 2450         | 2700         | 2700         |
|   | 3300 | 1220 | 2210 | 4290 | 5° | 8°  | 2000                   | 1870         | 2500         | 2380         | 2700         | 2670         |
|   | 3500 | 1320 | 2310 | 4490 | 5° | 8°  | 1970                   | 1830         | 2500         | 2340         | 2700         | 2620         |
|   | 4000 | 1570 | 2560 | 4990 | 5° | 8°  | 1850                   | 1730         | 2380         | 2210         | 2680         | 2490         |
| 3-stage FFL Mast (Dual full free lift mast)   | 4000 | 960  | 1950 | 4990 | 5° | 5°  | 1850                   | 1730         | 2380         | 2210         | 2680         | 2490         |
|   | 4500 | 1120 | 2110 | 5490 | 5° | 5°  | 1720                   | 1610         | 2230         | 2080         | 2540         | 2360         |
|   | 4800 | 1220 | 2210 | 5790 | 5° | 5°  | 1660                   | 1550         | 2160         | 2020         | 2460         | 2300         |
|   | 5000 | 1285 | 2275 | 5990 | 5° | 5°  | 1620                   | 1520         | 2110         | 1980         | 2260         | 2120         |
|   | 5500 | 1470 | 2460 | 6490 | 5° | 5°  | 1530                   | 1430         | 2000         | 1880         | 2130         | 2000         |
|   | 6000 | 1680 | 2670 | 6990 | 5° | 5°  | 1440                   | 1350         | 1800         | 1780         | -            | -            |
| 3-stage FFL Mast (Single full free lift mast) | 4000 | 935  | 1925 | 4990 | 5° | 5°  | 1850                   | 1730         | 2380         | 2210         | 2680         | 2490         |
|   | 4500 | 1095 | 2085 | 5490 | 5° | 5°  | 1720                   | 1610         | 2230         | 2080         | 2540         | 2360         |
|   | 4800 | 1195 | 2185 | 5790 | 5° | 5°  | 1660                   | 1550         | 2160         | 2020         | 2460         | 2300         |
|   | 5000 | 1255 | 2245 | 5990 | 5° | 5°  | 1620                   | 1520         | 2110         | 1980         | 2260         | 2120         |
|   | 5500 | 1455 | 2445 | 6490 | 5° | 5°  | 1530                   | 1430         | 2000         | 1880         | 2130         | 2000         |
|   | 6000 | 1665 | 2655 | 6990 | 5° | 5°  | 1440                   | 1350         | 1800         | 1780         | -            | -            |
|   | 6500 | 1825 | 2815 | 7490 | 5° | 3°  | 1300                   | 1200         | 1700         | 1600         | -            | -            |
|   | 7000 | 2045 | 3035 | 7990 | 3° | 3°  | 1000                   | 1000         | 1100         | 1100         | -            | -            |
| 7500  | 2245 | 3235 | 8490 | 3°   | 3° | 600 | 600                    | 700          | 700          | -            | -            |              |

# LOADING CAPACITY

