



BYD FORKLIFT



ATEX



Li
Iron
Phosphate



ECB20/25/27 EXPLOSION-PROOF (ATEX) TRUCK

WORLD'S FIRST ATEX
COUNTERBALANCE FORKLIFT WITH
IRON-PHOSPHATE BATTERY
(2000 kg/2500 kg/2700 kg)

- Powered by Lithium Iron-Phosphate
- 80V AC technology
- Explosion Proof Protection System
Zone 1 – Category 2G
Zone 21 – Category 2D
Available for Zone 2/22 Cat 3G/3D and Zone 2 DetEx (Gas Detection System)
- 8 years or 10,000 hours battery warranty
- One battery for multiple working shifts
- One-hour fast charging possible
- Convenient side charging standard

**CHANGE YOUR MIND
NOT YOUR BATTERY**

As a result of a strategic partnership with the Miretti Group, the global leader in explosion-proof protection systems, BYD now offers the world's first ATEX certified counterbalance forklift powered by our own Lithium Iron-Phosphate battery.

BYD explosion-proof machines feature the lowest Total Cost of Ownership with only one battery required, even for use in multi-shift applications.



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 |
| 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 | Cushion |
| | 3.2 | Tyre size, front | | mm | 21×8-9 | 21×8-9 | 21×8×15 |
| | 3.3 | Tyre size, rear | | mm | 18×7-8 | 18x7-8 | 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 |
| 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 | 3990 | 3990 | 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 | 40/120/1070 | 40/120/1070 | 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 | 3646 |
| 4.34 | | Aisle width for pallets 800×1200 lengthways | Ast | mm | 3845 | 3845 | 3773 |
| 4.35 | | Turning radius | Wa | mm | 2020 | 2020 | 1895 |
| Performance Data | | 5.1 | Travel speed, with/without load | | Km/h | 20/20 | 20/20 |
| | 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 | 540 | 840 | 840 |
| | Others | 8.1 | Type of drive control | | | 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.

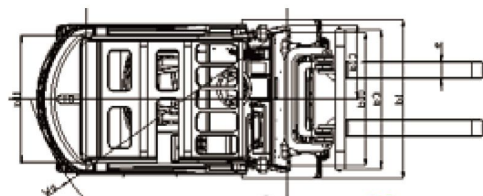
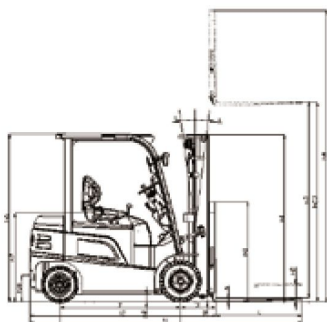
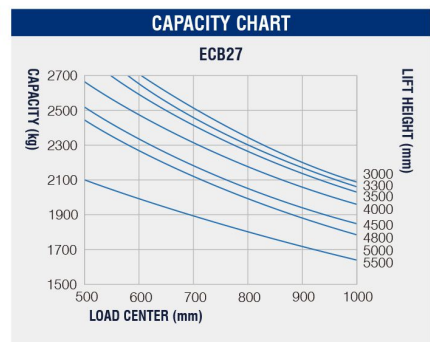
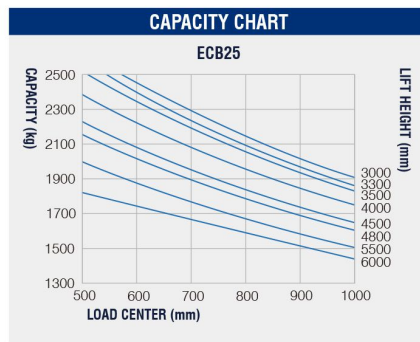
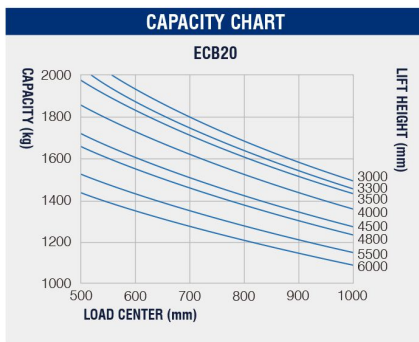


MAST SPECIFICATIONS

- 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) | | Residual Capacity (kg) | | 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 |
| | 5000 | 140 | 3130 | 5990 | 5° | 5° | 1620 | 1520 | 2110 | 1980 | 2260 | 2120 |
| 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 | - | - |
| | 6500 | 1840 | 2830 | 7490 | 5° | 5° | 1300 | 1200 | 1700 | 1600 | - | - |
| | 7000 | 2045 | 3035 | 7990 | 3° | 3° | 1000 | 1000 | 1100 | 1100 | - | - |
| 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 | - | - |
| | 7500 | 2245 | 3235 | 8490 | 3° | 3° | 600 | 600 | 700 | 700 | - | - |

LOADING CAPACITY



TRUCK FEATURES



STANDARD EQUIPMENT :

- Lithium Iron-phosphate technology
- Battery 80V 270Ah (21.6 kWh)
- Ex d Battery Box
- Ex e Dual AC traction motors
- Ex e Pump motors
- Ex q Inverter
- Fork sheathing
- Antistatic wheels
- Front working lights
- Cornering speed reduction
- Oil-immersed disc brake
- OPS (Operator Presence Sensor)
- Regenerative braking system
- Clear-view masts
- Charger 80V 100A

OPTIONAL EQUIPMENT :

- 1 hour fast charging solution
- Charger 80V 200A
- Battery 80V 540Ah (43.2 kWh)
- Cabin and weather protection kits
- Dual joystick control
- Synchronized steering control
- Blue light
- Flashing beacon
- Panoramic mirror
- Rear working light
- Orange seat belt
- Multiple masts variants



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