

TRUCK FEATURES



STANDARD FEATURE:

BYD Iron-Phosphate Technology
Battery 80V 540Ah
Dual AC drive
3.0m 2-stage standard mast
4-way valve
Mechanical lever (Basic model)
Finger-tip control (Comfort model)
Full LED lights
MSG45 Leather seat (Basic model) / MSG65
Leather seat (Comfort model)
Orange seat belt
1070mm forks
80V 200A charger

OPTIONAL FEATURE:

Mast variants
Integral/hook-on sideshifter
Battery capacity upgrade (80V 680A/810A/1020A)
Dual joystick control system
MSG65 textile / MSG75 seat options
Full cabin options
Lights options (Flashing beacon/Spot lights/
Rear working lights/ Lateral Safety lights)
Panoramic mirror
Storage box with USB port
Non-marking tyres
Double pedal system
Synchronised steering control
Fork auto-leveling
5th hydraulic function
80V400A charger with dual charging solution
for 80V 810A/1020A batteries



ISO 9001
ISO 14001
OHSAS 18001



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"The BYD ECB50 has been developed in line with the market requirements... The truck feels and works remarkably stable and its performance is a realistic alternative to engine powered trucks. As with the smaller models from BYD, the Lithium-Iron Phosphate battery and the corresponding quick charger are the main strengths. The calculated savings can be realized, maintenance of the battery and truck can also be reduced to a minimum.
...What's more, the impressive looking truck is surprisingly smooth and easy to operate. The stability is convincing and the materials used are extremely durable even when used in harsh conditions."

- IFoy test verdict

ECB40/45/50

BYD COUNTERBALANCE FORKLIFT
4-WHEELER (4000kg/4500kg/5000kg)

CHANGE YOUR MIND
NOT YOUR BATTERY

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

ECB40/45/50 TECHNICAL SPECIFICATIONS

| | | | | | | | |
|------------------|------------------|---|---|-------|-------------|-------------|-------------|
| Identification | 1.1 | Manufacturer | | | BYD | BYD | BYD |
| | 1.2 | Model | | | ECB40 | ECB45 | ECB50 |
| | 1.3 | Drive | | | Electric | Electric | Electric |
| | 1.4 | Operator type | | | Seat | Seat | Seat |
| | 1.5 | Rated capacity | Q | kg | 4000 | 4500 | 5000 |
| | 1.6 | Load centre | c | mm | 500 | 500 | 500 |
| | 1.8 | Load distance, centre of drive axle to fork | x | mm | 555 | 555 | 555 |
| | 1.9 | Wheelbase | y | mm | 2000 | 2000 | 2000 |
| | Weight | 2.1 | Service weight | | kg | 6750 | 7030 |
| 2.2 | | Axle load, with load, front/rear | | kg | 9440/1310 | 10188/1342 | 10960/1390 |
| 2.3 | | Axle load, without load, front/rear | | kg | 3330/3420 | 3315/3715 | 3320/4030 |
| Wheels, Chassis | 3.1 | Tyres | | | SE | SE | SE |
| | 3.2 | Tyre size, front | | | 28/12.5-15 | 28/12.5-15 | 28/12.5-15 |
| | 3.3 | Tyre size, rear | | | 21x/8-9 | 21x/8-9 | 21x/8-9 |
| | 3.5 | Wheels, number front rear (x=driven wheels) | | | 2x/2 | 2x/2 | 2x/2 |
| | 3.6 | Track width, front | b10 | mm | 1216 | 1216 | 1216 |
| | 3.7 | Track width, rear | b11 | mm | 1130 | 1130 | 1130 |
| | Basic Dimensions | 4.1 | Tilt of mast/fork carriage forward/backward | a/b | deg | 6/8 | 6/8 |
| 4.2 | | Height, mast lowered | h1 | mm | 2350 | 2350 | 2350 |
| 4.3 | | Free lift | h2 | mm | 130 | 130 | 130 |
| 4.4 | | Lift height | h3 | mm | 3000 | 3000 | 3000 |
| 4.5 | | Height, mast extended | h4 | mm | 4255 | 4255 | 4255 |
| 4.7 | | Height of overhead guard | h6 | mm | 2360 | 2360 | 2360 |
| 4.8 | | Seat height | h7 | mm | 1260 | 1260 | 1260 |
| 4.12 | | Coupling height | h10 | mm | 490 | 490 | 490 |
| 4.19 | | Overall length | l1 | mm | 3990 | 3990 | 3990 |
| 4.20 | | Length to face of forks | l2 | mm | 2920 | 2920 | 2920 |
| 4.21 | | Overall width | b1 | mm | 1516 | 1516 | 1516 |
| 4.22 | | Fork dimensions | s/e/l | mm | 50/150/1070 | 50/150/1070 | 50/150/1070 |
| 4.23 | | Fork carriage ISO 2328, class/type A, B | | | 3A | 3A | 3A |
| 4.24 | | Fork carriage width | b3 | mm | 1500 | 1500 | 1500 |
| 4.31 | | Ground clearance, with load, below mast | m1 | mm | 150 | 150 | 150 |
| 4.32 | | Ground clearance, centre of wheelbase | m2 | mm | 160 | 160 | 160 |
| 4.33 | | Aisle width for pallets 1000x1200 crossways | Ast | mm | 4355 | 4355 | 4355 |
| 4.34 | | Aisle width for pallets 800x1200 lengthways | Ast | mm | 4555 | 4555 | 4555 |
| 4.35 | | Turning radius | Wa | mm | 2600 | 2600 | 2600 |
| Performance Data | | 5.1 | Travel speed, with/without load | | Km/h | 18/18 | 18/18 |
| | 5.2 | Lift speed, with/without load | | mm/s | 350/450 | 350/450 | 350/450 |
| | 5.3 | Lowering speed, with/without load | | mm/s | 500/400 | 500/400 | 500/400 |
| | 5.6 | Max. drawbar pull, with/without load | | KN | 23/18 | 23/18 | 23/18 |
| | 5.8 | Max. gradeability, with/without load | | % | 15/20 | 15/20 | 15/20 |
| | 5.10 | Service brake | | | Hydr. | Hydr. | Hydr. |
| Motor | 6.1 | Drive motor rating S2 60 min. | | kW | 15x2 | 15x2 | 15x2 |
| | 6.2 | Lift motor rating at S3 15% | | kW | 25.4 | 25.4 | 25.4 |
| | 6.4 | Battery voltage, nominal capacity K5 | | V/Ah | 80/810 | 80/810 | 80/810 |
| | 6.5 | Battery weight | | kg | 900 | 900 | 900 |
| | Other | 8.1 | Type of drive control | | | AC | AC |
| 8.2 | | Operating pressure for attachments | | Bar | 170 | 170 | 170 |
| 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 1200mm) h1 Height, Mast Fully Lowered (mm)
h4 Height, Mast Fully Extended (mm) (Load Backrest 1200mm) α Tilt Forward β Tilt Backward

| Mast Specifications (mm) | h3 | h2 | h1 | h4 | α | β | Residual Capacity (kg) (without attachment) | | |
|--------------------------|-------------------------|------|------|------|------|----|---|-------|-------|
| | | | | | | | @500MM | | |
| | | | | | | | ECB40 | ECB45 | ECB50 |
| 2-stage standard Mast | 3000 | 140 | 2350 | 4250 | 6° | 8° | 4000 | 4500 | 5000 |
| | 3300 | 140 | 2500 | 4550 | 6° | 8° | 4000 | 4500 | 5000 |
| | 3500 | 140 | 2600 | 4750 | 6° | 8° | 4000 | 4500 | 5000 |
| | 4000 | 140 | 2850 | 5250 | 6° | 8° | 4000 | 4400 | 4800 |
| | 4500 | 140 | 3100 | 5750 | 6° | 6° | 3800 | 4200 | 4600 |
| | 5000 | 140 | 3350 | 6250 | 6° | 6° | 3600 | 4000 | 4400 |
| 2-stage FFL Mast | 3000 | 1035 | 2235 | 4250 | 6° | 8° | 4000 | 4500 | 5000 |
| | 3300 | 1185 | 2385 | 4550 | 6° | 8° | 4000 | 4500 | 5000 |
| | 3500 | 1285 | 2485 | 4750 | 6° | 8° | 4000 | 4500 | 5000 |
| | 4000 | 1585 | 2785 | 5250 | 6° | 8° | 4000 | 4400 | 4800 |
| | 4000 | 945 | 2145 | 5250 | 6° | 6° | 3900 | 4250 | 4650 |
| | 3-stage with single FFL | 4300 | 1045 | 2245 | 5550 | 6° | 6° | 3800 | 4150 |
| 4500 | | 1115 | 2315 | 5750 | 6° | 6° | 3700 | 4050 | 4450 |
| 4800 | | 1215 | 2415 | 6050 | 6° | 6° | 3600 | 3950 | 4350 |
| 5000 | | 1285 | 2485 | 6250 | 6° | 6° | 3500 | 3850 | 4250 |
| 5500 | | 1445 | 2645 | 6750 | 6° | 6° | 3300 | 3650 | 4050 |
| 6000 | | 1615 | 2815 | 7050 | 6° | 6° | 3100 | 3450 | 3850 |
| 6500 | | 1785 | 2985 | 7750 | 6° | 3° | 2900 | 3250 | 3650 |
| 6800 | | 1885 | 3085 | 8050 | 6° | 3° | 2800 | 3150 | 3550 |
| 7200 | | 2065 | 3265 | 8450 | 3° | 3° | 2600 | 2950 | 3350 |
| 7500 | | 2165 | 3365 | 8750 | 3° | 3° | 2500 | 2850 | 3250 |

LOADING CAPACITY

