

# EL16/18-Pro



COUNTER BALANCE FORKLIFT SERIES



## NEW ENERGY FORKLIFT LEADER

BYD Efficient Lithium-Ion Electric Forklift

[byd-forklifts.com](http://byd-forklifts.com)

STANDARD FEATURES

|                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           |
| <ul style="list-style-type: none"><li>• Electric braking system</li><li>• Slope protection</li><li>• Programmable automatic speed limit</li></ul>                                                                                        | <ul style="list-style-type: none"><li>• High loading position protection</li><li>• Cylinder lowering speed limit</li><li>• Charger protection</li></ul>                                                                                                                                                        | <ul style="list-style-type: none"><li>• Reversing alarm</li><li>• LED headlights and rear combination lights</li></ul>                                                                    |
| Performance                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           |
| <ul style="list-style-type: none"><li>• Iron-phosphate Battery</li><li>• AC drive system</li><li>• AC hydraulic lift system</li><li>• Small turning radius</li><li>• Battery rapid charging</li><li>• Programmable performance</li></ul> | <ul style="list-style-type: none"><li>• Digital (LCD) multifunction display<ul style="list-style-type: none"><li>– Time &amp; date</li><li>– OPS time accumulator</li><li>– Battery capacity indicator</li><li>– Over-discharge warning (lift interrupt)</li><li>– Parking brake indicator</li></ul></li></ul> | <ul style="list-style-type: none"><li>– Direction indicator</li><li>– Maintenance indicator</li><li>– Overload indicator</li><li>• Built-in analyzer</li><li>• Self-diagnostics</li></ul> |
| Operability & Ergonomics                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           |
| <ul style="list-style-type: none"><li>• Strategically configured instrument</li><li>• Front &amp; rear operator assist grips</li></ul>                                                                                                   | <ul style="list-style-type: none"><li>• Hydraulic directional shift control</li><li>• Heavy-duty slip-resistant floor mat</li></ul>                                                                                                                                                                            | <ul style="list-style-type: none"><li>• Parking brake alarm</li></ul>                                                                                                                     |
| Serviceability                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                           |
| <ul style="list-style-type: none"><li>• AC drive motor (no brushes or commutator)</li><li>• AC hydraulic motor (no brushes or commutator)</li><li>• Charging port analyzing connection</li></ul>                                         | <ul style="list-style-type: none"><li>• Easy-access no-tools floorboard</li><li>• Maintenance-free battery case</li><li>• Easy-lift battery hood</li></ul>                                                                                                                                                     | <ul style="list-style-type: none"><li>• Hydraulic fluid level check</li><li>• Easy-access controllers</li><li>• CAN-bus controller wiring</li></ul>                                       |

OPTIONAL EQUIPMENT

|                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Load Handling (Wide visible mast)                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"><li>• Standard lift 2-stage mast (Duplex standard )</li><li>• Full free-lift 2-stage mast (Duplex FFL )</li><li>• Lifting buffer</li></ul>                                                                                                                             | <ul style="list-style-type: none"><li>• Full free-lift 3-stage 3-cylinder mast (Triplex FFL )</li><li>• Lifting speed limit</li></ul>                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"><li>• Other customized fork</li><li>• High-load backrest</li><li>• Other customized load backrest</li></ul>                                                                                                                                                         |
| Load Handling (Hose & Valve Assembly)                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"><li>• 4-way valve (no 3rd &amp; 4th function hosing)</li><li>• 4-way valve (with 3rd function hosing)</li><li>• 4-way valve (with 3rd &amp; 4th function hosing)</li><li>• Hydraulic DV10 fitting on 3rd lever</li><li>• Hydraulic DV10 fitting on 4th lever</li></ul> | <ul style="list-style-type: none"><li>• Cascade hang-on side shifter<ul style="list-style-type: none"><li>– Integral side shifter</li><li>– Fork positioners</li><li>– Clamps</li><li>– Rotators</li></ul></li></ul>                                                                                                                                                                                         | <ul style="list-style-type: none"><li>– Load pushes</li><li>– Multiple load handlers</li><li>– Mobile weighing</li><li>– Layer pickers</li><li>– Hose reels</li></ul>                                                                                                                                 |
| Lights & Indicators                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"><li>• Front working light</li><li>• Rear working light</li><li>• Strobe light</li></ul>                                                                                                                                                                                | <ul style="list-style-type: none"><li>• LED Distance Wanring spot Light</li><li>• LED Distance Wanring laser Light</li></ul>                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>• Back up buzzer</li><li>• Armrest horn</li></ul>                                                                                                                                                                                                               |
| Body                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"><li>• Operator presence sensing unit</li><li>• Fork camera</li><li>• Reversing radar</li><li>• Reversing camera</li><li>• Fan</li><li>• Fire extinguisher</li><li>• Overload protection</li><li>• Parking brake alarm</li></ul>                                        | <ul style="list-style-type: none"><li>• Rearview mirrors (left &amp; right sides)</li><li>• Flat internal rearview mirror</li><li>• Panoramic rearview mirror</li><li>• Rear assist grip with horn button</li><li>• Orange seatbelt</li><li>• Cabin without woors (Includes windshield with wiper, roof &amp; rear glass)</li><li>• Full sealing cabin (Includes windshield with wiper &amp; roof)</li></ul> | <ul style="list-style-type: none"><li>• Front windshield with wiper &amp; Roof</li><li>• Synchronous steering</li><li>• Special key</li><li>• Bay with USB inlet</li><li>• Fork sleeves</li><li>• Overhead guard sheet</li><li>• Double accelerator pedal (One on each side of brake pedal)</li></ul> |
| Wheels & Tires                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                       |
| <ul style="list-style-type: none"><li>• Solid</li></ul>                                                                                                                                                                                                                                                  | <ul style="list-style-type: none"><li>• Non-marking solid</li></ul>                                                                                                                                                                                                                                                                                                                                          | <ul style="list-style-type: none"><li>• Pneumatic</li></ul>                                                                                                                                                                                                                                           |

COUNTER BALANCE FORKLIFT SPECIFICATIONS

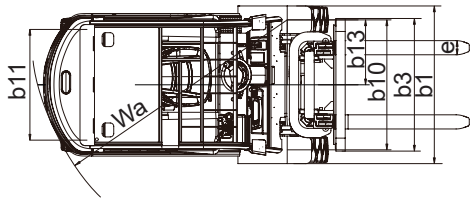
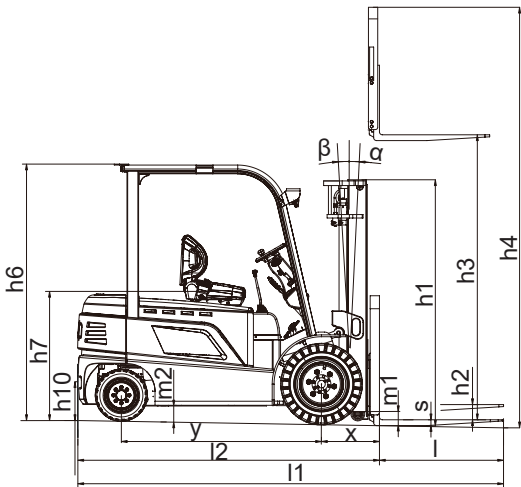
|                |                                                |       |       |             |             |
|----------------|------------------------------------------------|-------|-------|-------------|-------------|
| Characteristic | Manufacturer                                   |       |       | BYD         | BYD         |
|                | Model                                          |       |       | EL16-Pro    | EL18-Pro    |
|                | Power unit                                     |       |       | Electric    | Electric    |
|                | Operation                                      |       |       | Seat        | Seat        |
|                | Load capacity                                  | Q     | kg    | 1600        | 1800        |
|                | Load centre                                    | c     | mm    | 500         | 500         |
|                | Axle centre to force face                      | x     | mm    | 420         | 420         |
|                | Wheel base                                     | y     | mm    | 1400        | 1400        |
| Weights        | Service weight                                 |       | kg    | 3340        | 3490        |
|                | Axle load with load, front/rear                |       | kg    | 4206/734    | 4553/737    |
|                | Axle load without load, front/rear             |       | kg    | 1555/1785   | 1570/1920   |
| Wheels         | Tyre rubber, SE, pneumatic, polyurethane       |       |       | SE          | SE          |
|                | Tyre size, front                               |       |       | 6.00-9      | 6.00-9      |
|                | Tyre size, rear                                |       |       | 16x6-8      | 16x6-8      |
|                | Wheels, number front/rear (x = driven)         |       |       | 2x/2        | 2x/2        |
|                | Track width, front                             | b10   | mm    | 890         | 890         |
|                | Track width, rear                              | b11   | mm    | 870         | 870         |
| Dimensions     | Mast/fork carriage tilt, forward/backward      | α/β   | °     | 5/8         | 5/8         |
|                | Height of mast, lowered                        | h1    | mm    | 2020        | 2020        |
|                | Free lift                                      | h2    | mm    | 110         | 110         |
|                | Lift                                           | h3    | mm    | 3000        | 3000        |
|                | Height of Mast, extended                       | h4    | mm    | 4040        | 4040        |
|                | Height of overhead guard (cabin)               | h6    | mm    | 2050        | 2050        |
|                | Height of seat/stand on platform               | h7    | mm    | 1005        | 1005        |
|                | Towing coupling height                         | h10   | mm    | 270         | 270         |
|                | Overall length                                 | l1    | mm    | 3195        | 3195        |
|                | Length to fork face                            | l2    | mm    | 2125        | 2125        |
|                | Overall width                                  | b1    | mm    | 1050        | 1050        |
|                | Fork dimensions                                | s/e/l | mm    | 40/100/1070 | 40/100/1070 |
|                | Fork carriage to ISO 2328, class/type A, B     |       |       | 2A          | 2A          |
|                | Width of fork carriage                         | b3    | mm    | 1044        | 1044        |
|                | Ground clearance, below mast                   | m1    | mm    | 85          | 85          |
|                | Ground clearanc, centre of wheelbase           | m2    | mm    | 95          | 95          |
|                | Aisle width with pallet 1000x1200 across forks | Ast   | mm    | 3480        | 3480        |
|                | Aisle width with pallet 800x1200 along forks   | Ast   | mm    | 3680        | 3680        |
|                | Turning radius                                 | Wa    | mm    | 1860        | 1860        |
|                | Minimum pivoting point distance                | b13   | mm    | 537         | 537         |
| Performance    | Travel speed, with/without load                |       | Km/h  | 16/16       | 16/16       |
|                | Lifting speed, with/without load               |       | mm/s  | 420/450     | 420/450     |
|                | Lowering speed, with/without load              |       | mm/s  | 520/480     | 520/480     |
|                | Tractive force, with/without load              |       | KN    | 10/9.5      | 10/9.5      |
|                | Climbing ability, with/without load            |       | %     | 20/20       | 20/20       |
|                | Acceleration time, with/without load           |       | s     | 6.0/5.0     | 6.0/5.0     |
|                | Service brake                                  |       |       | Hydraulic   | Hydraulic   |
| Drive          | Drive motor, 60 minute rating                  |       | kW    | 8.5         | 8.5         |
|                | Lift motor, rating at S3 15%                   |       | kW    | 16          | 16          |
|                | Battery voltage/rated capacity                 |       | V/Ah  | 80/270      | 80/270      |
|                | Battery weight                                 |       | kg    | 650         | 650         |
| Others         | Type of drive control                          |       |       | AC          | AC          |
|                | Operating pressure for attachments             |       | Mpa   | ≤ 16        | ≤ 18        |
|                | Noise level at operator's ear                  |       | dB(A) | ≤ 75        | ≤ 75        |
|                | Traction pin connections                       |       |       | 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-advice, as products are subject to ongoing and continuous development.

MAST SPECIFICATIONS

- h1 Height, Mast Fully Lowered
- h2<sup>1</sup> Full Free Lift Height (1000mm Load Backrest)
- h4 Height, Mast Fully Extended
- h3 Lifting Height
- h2<sup>2</sup> Full Free Lift Height (without Load Backrest)
- α Tilt Forward
- β Tilt Backward

| MAST SPEC(mm)           | h3   | h2 <sup>1</sup> | h2 <sup>2</sup> | h1   | h4   | α   | β   | Residual Capacity@610mm<br>(without attachment)(kg) |          |
|-------------------------|------|-----------------|-----------------|------|------|-----|-----|-----------------------------------------------------|----------|
|                         | mm   | mm              | mm              | mm   | mm   | deg | deg | EL16-Pro                                            | EL18-Pro |
| 2-stage standard Mast   | 3000 | 125             | 125             | 2027 | 4040 | 5°  | 8°  | 1600                                                | 1800     |
|                         | 3300 | 125             | 125             | 2177 | 4340 | 5°  | 8°  | 1600                                                | 1770     |
|                         | 3500 | 125             | 125             | 2277 | 4540 | 5°  | 8°  | 1600                                                | 1740     |
|                         | 4000 | 125             | 125             | 2577 | 5040 | 5°  | 8°  | 1520                                                | 1660     |
|                         | 4500 | 125             | 125             | 2827 | 5540 | 5°  | 5°  | 1420                                                | 1560     |
|                         | 5000 | 125             | 125             | 3127 | 6040 | 5°  | 5°  | 1270                                                | 1400     |
| 2-stage with single FFL | 3000 | 1027            | 1431            | 2027 | 4040 | 5°  | 8°  | 1600                                                | 1800     |
|                         | 3300 | 1177            | 1581            | 2177 | 4340 | 5°  | 8°  | 1600                                                | 1770     |
|                         | 3500 | 1277            | 168             | 2277 | 4540 | 5°  | 8°  | 1600                                                | 1740     |
|                         | 4000 | 1577            | 1981            | 2577 | 5040 | 5°  | 8°  | 1520                                                | 1660     |
| 3-stage with single FFL | 4000 | 952             | 1340            | 1952 | 5040 | 5°  | 5°  | 1520                                                | 1660     |
|                         | 4500 | 1102            | 1506            | 2102 | 5540 | 5°  | 5°  | 1420                                                | 1560     |
|                         | 4800 | 1202            | 1606            | 2202 | 5840 | 5°  | 5°  | 1380                                                | 1510     |
|                         | 5000 | 1252            | 1656            | 2252 | 6040 | 5°  | 5°  | 1270                                                | 1400     |
|                         | 5500 | 1402            | 1806            | 2402 | 6540 | 5°  | 3°  | 1200                                                | 1320     |
|                         | 6000 | 1672            | 2040            | 2672 | 7040 | 5°  | 3°  | 1130                                                | 1250     |
|                         | 6500 | 1852            | 2240            | 2852 | 7540 | 3°  | 3°  | 870                                                 | 830      |



BYD Forklift production site is certified:  
ISO 9001   ISO 14001   OHSAS 18001

