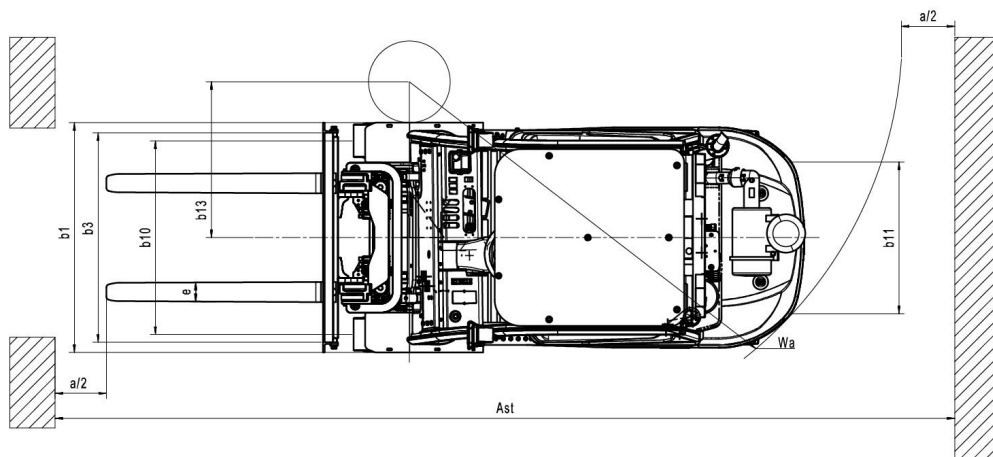
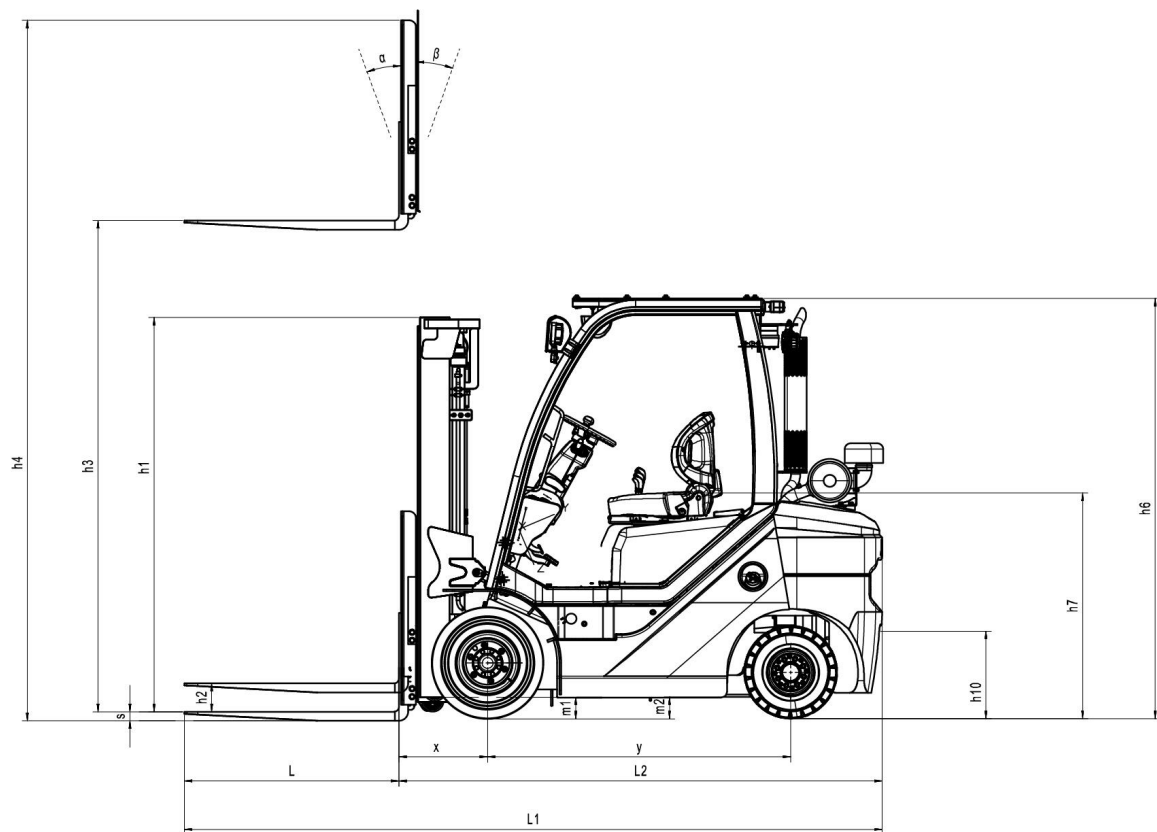


# Baoli

## KBD 15-20+



|        |                                                                 |                    |                    |                    |                    |
|--------|-----------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| 1.1    | Manufacturer                                                    |                    | KION BAOLI         | KION BAOLI         | KION BAOLI         |
| 1.2    | Manufacturer's type designation                                 |                    | KBD 15+ EU5        | KBD 18+ EU5        | KBD 20+ EU5        |
| 1.3    | Drive: electric, diesel, petrol, fuel gas                       |                    | Diesel             | Diesel             | Diesel             |
| 1.4    | Operator type: hand, pedestrian, standing, seated, order-picker |                    | Seated             | Seated             | Seated             |
| 1.5    | Rated capacity / Rated load                                     | Q (t)              | 1.5                | 1.8                | 2,0                |
| 1.6    | Load centre distance                                            | c (mm)             | 500                | 500                | 500                |
| 1.8    | Load distance, centre of drive axle to fork                     | x (mm)             | 435                | 435                | 435                |
| 1.9    | Wheelbase                                                       | y (mm)             | 1500               | 1500               | 1500               |
| 2.1    | Service weight                                                  | Kg                 | 3100               | 3250               | 3320               |
| 2.2    | Axle loading, laden front/rear                                  | Kg                 | 3800/600           | 4370/680           | 4460/800           |
| 2.3    | Axle loading, unladen front/rear                                | Kg                 | 1080/2020          | 1320/1930          | 1300/2020          |
| 3.1    | Tyres: solid rubber, superelastic, pneumatic, polyurethane      |                    | SE                 | SE                 | SE                 |
| 3.2    | Tyre size, front                                                |                    | 6,50-10-14PR       | 6,50-10-14PR       | 6,50-10-14PR       |
| 3.3    | Tyre size, rear                                                 |                    | 5,00-8-10PR        | 5,00-8-10PR        | 5,00-8-10PR        |
| 3.6    | Tread, front                                                    | b10 (mm)           | 940                | 940                | 940                |
| 3.7    | Tread, rear                                                     | b11 (mm)           | 920                | 920                | 920                |
| 4.1    | Tilt of mast/fork carriage forward/backward                     | $\alpha/\beta$ (°) | 6/12               | 6/12               | 6/12               |
| 4.2    | Height, mast lowered                                            | h1 (mm)            | 2002               | 2002               | 2002               |
| 4.3    | Free lift                                                       | h2 (mm)            | 128                | 128                | 128                |
| 4.4    | Lift                                                            | h3 (mm)            | 3000               | 3000               | 3000               |
| 4.5    | Heigh, mast extended                                            | h4 (mm)            | 4040               | 4040               | 4040               |
| 4.7    | Height of overhead guard (cabin)                                | h6 (mm)            | 2085               | 2085               | 2085               |
| 4.8    | Seat height/stand height                                        | h7 (mm)            | 1140               | 1140               | 1140               |
| 4.12   | Coupling height                                                 | h10 (mm)           | 220                | 220                | 220                |
| 4.19   | Overall length                                                  | l1 (mm)            | 3282               | 3316               | 3490               |
| 4.20   | Length to face of forks                                         | l2 (mm)            | 2362               | 2396               | 2420               |
| 4.21   | Overall width                                                   | b1/b2 (mm)         | 1140               | 1140               | 1140               |
| 4.22   | Fork dimensions ISO 2331                                        | s/e/l (mm)         | 35x120x1070        | 35x120x1070        | 40x122x1070        |
| 4.23   | Fork carriage ISO 2328, class/type A, B                         |                    | II A               | II A               | II A               |
| 4.24   | Fork carriage width                                             | b3 (mm)            | 1040               | 1040               | 1040               |
| 4.31   | Ground clearance, laden, below mast                             | m1 (mm)            | 110                | 110                | 110                |
| 4.32   | Ground clearance, centre of wheelbase                           | m2 (mm)            | 105                | 105                | 105                |
| 4.34.1 | Aisle width for pallets 1000 x 1200 crossways                   | Ast (mm)           | 3795               | 3815               | 3835               |
| 4.34.2 | Aisle width for pallets 800 x 1200 lenghtways                   | Ast (mm)           | 3995               | 4015               | 4035               |
| 4.35   | Turning radius                                                  | Wa (mm)            | 2160               | 2180               | 2200               |
| 4.36   | Internal turning radius                                         | b13 (mm)           | 601.5              | 601.5              | 601.5              |
| 5.1    | Travel speed, laden/unladen                                     | km/h               | 17/17              | 17/17              | 17/17              |
| 5.2    | Lift speed, laden/unladen                                       | m/s                | 0,650/0,760        | 0,590/0,760        | 0,530/0,760        |
| 5.3    | Lowering speed, laden/unladen                                   | m/s                | 0,480/0,430        | 0,480/0,430        | 0,480/0,430        |
| 5.5    | Drawbar pull, laden/unladen                                     | kN                 | 15/10              | 15/10              | 15/10              |
| 5.7    | Gradeability, laden/unladen                                     | %                  | 20                 | 20                 | 20                 |
| 5.10   | Service brake                                                   |                    | Mech/Hydr          | Mech/Hydr          | Mech/Hydr          |
| 7.1    | Engine manufacturer/type                                        |                    | HDI DM02 (D24) EU5 | HDI DM02 (D24) EU5 | HDI DM02 (D24) EU5 |
| 7.2    | Engine power according to ISO 1585                              | kW                 | 36.4               | 36.4               | 36.4               |
| 7.3    | Rated speed                                                     | min-1              | 2400               | 2400               | 2400               |
| 7.4    | Number of cylinders/displacement                                | cm3                | 4/2400             | 4/2400             | 4/2400             |
| 7.5    | Fuel consumption according to VDI cycle                         | l/h or kg/h        | 2 l/h              | 2,2 l/h            | 2,5 l/h            |
| 7.9    | Vehicle electrical system voltage                               | V                  | 12                 | 12                 | 12                 |
| 8.1    | Type of drive unit                                              |                    | Hydrodynamic       | Hydrodynamic       | Hydrodynamic       |
| 10.4   | Fuel tank, capacity                                             | l/kg               | 54                 | 54                 | 54                 |
| 10.8   | Towing coupling, type DIN                                       |                    | Pin                | Pin                | Pin                |



| KBD 15+ EU5  |      |                                     |                                                            |                                                                     |      |                          |                             |                          |                             |
|--------------|------|-------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|------|--------------------------|-----------------------------|--------------------------|-----------------------------|
| Mast type    | H3   | Capacity -<br>Load center<br>500 mm | Capacity -<br>Load center<br>500 mm -<br>with<br>Sideshift | Capacity -<br>Load center<br>500 mm -<br>with<br>IntegSideshif<br>t | H1   | H4 with load<br>backrest | H2 without<br>load backrest | H2 with load<br>backrest | Tilting angle<br>Front/back |
| VM Tele      | 3000 | 1500                                | 1350                                                       | 1350                                                                | 2002 | 4041                     | 128                         | 128                      | 6/12                        |
|              | 3300 | 1500                                | 1350                                                       | 1350                                                                | 2152 | 4341                     | 128                         | 128                      | 6/12                        |
|              | 4000 | 1500                                | 1350                                                       | 1350                                                                | 2552 | 5041                     | 128                         | 128                      | 6/8                         |
|              | 4500 | 1500                                | 1350                                                       | 1350                                                                | 2802 | 5541                     | 128                         | 128                      | 6/6                         |
|              | 5000 | 1500                                | 900                                                        | 900                                                                 | 3052 | 6041                     | 128                         | 128                      | 3/6                         |
| VFM 2 stage  | 3000 | 1500                                | 1350                                                       | 1350                                                                | 2002 | 4041                     | 1411                        | 1001                     | 6/12                        |
|              | 4000 | 1500                                | 1350                                                       | 1350                                                                | 2552 | 5041                     | 1961                        | 1551                     | 6/8                         |
| VFHM triplex | 4350 | 1500                                | 1350                                                       | 1350                                                                | 2102 | 5391                     | 1489                        | 1101                     | 6/6                         |
|              | 4500 | 1500                                | 1350                                                       | 1350                                                                | 2152 | 5541                     | 1539                        | 1151                     | 6/6                         |
|              | 4700 | 1500                                | 1350                                                       | 1350                                                                | 2217 | 5741                     | 1604                        | 1216                     | 6/6                         |
|              | 4800 | 1500                                | 1350                                                       | 1350                                                                | 2252 | 5841                     | 1639                        | 1251                     | 6/6                         |
|              | 5000 | 1380                                | 780                                                        | 780                                                                 | 2395 | 6041                     | 1782                        | 1394                     | 6/6                         |
|              | 5500 | 1020                                | 420                                                        | 420                                                                 | 2629 | 6541                     | 2016                        | 1628                     | 3/6                         |
|              | 6000 | 720                                 | 120                                                        | 120                                                                 | 2862 | 7041                     | 2249                        | 1861                     | 3/6                         |

| KBD 18+ EU5  |      |                                     |                                                            |                                                                     |      |                          |                             |                          |                             |
|--------------|------|-------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|------|--------------------------|-----------------------------|--------------------------|-----------------------------|
| Mast type    | H3   | Capacity -<br>Load center<br>500 mm | Capacity -<br>Load center<br>500 mm -<br>with<br>Sideshift | Capacity -<br>Load center<br>500 mm -<br>with<br>IntegSideshif<br>t | H1   | H4 with load<br>backrest | H2 without<br>load backrest | H2 with load<br>backrest | Tilting angle<br>Front/back |
| VM Tele      | 3000 | 1800                                | 1650                                                       | 1650                                                                | 2002 | 4041                     | 128                         | 128                      | 6/12                        |
|              | 3300 | 1800                                | 1650                                                       | 1650                                                                | 2152 | 4341                     | 128                         | 128                      | 6/12                        |
|              | 4000 | 1800                                | 1650                                                       | 1650                                                                | 2552 | 5041                     | 128                         | 128                      | 6/8                         |
|              | 4500 | 1800                                | 1650                                                       | 1650                                                                | 2802 | 5541                     | 128                         | 128                      | 6/6                         |
|              | 5000 | 1800                                | 1200                                                       | 1200                                                                | 3052 | 6041                     | 128                         | 128                      | 3/6                         |
| VFM 2 stage  | 3000 | 1800                                | 1650                                                       | 1650                                                                | 2002 | 4041                     | 1411                        | 1001                     | 6/12                        |
|              | 4000 | 1800                                | 1650                                                       | 1650                                                                | 2552 | 5041                     | 1961                        | 1551                     | 6/8                         |
| VFHM triplex | 4350 | 1800                                | 1650                                                       | 1650                                                                | 2102 | 5391                     | 1489                        | 1101                     | 6/6                         |
|              | 4500 | 1800                                | 1650                                                       | 1650                                                                | 2152 | 5541                     | 1539                        | 1151                     | 6/6                         |
|              | 4700 | 1800                                | 1650                                                       | 1650                                                                | 2217 | 5741                     | 1604                        | 1216                     | 6/6                         |
|              | 4800 | 1800                                | 1650                                                       | 1650                                                                | 2252 | 5841                     | 1639                        | 1251                     | 6/6                         |
|              | 5000 | 1680                                | 1080                                                       | 1080                                                                | 2395 | 6041                     | 1782                        | 1394                     | 6/6                         |
|              | 5500 | 1320                                | 720                                                        | 720                                                                 | 2629 | 6541                     | 2016                        | 1628                     | 3/6                         |
|              | 6000 | 1020                                | 420                                                        | 420                                                                 | 2862 | 7041                     | 2249                        | 1861                     | 3/6                         |

| KBD 20+ EU5  |      |                                     |                                                            |                                                                     |      |                          |                             |                          |                             |
|--------------|------|-------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------|------|--------------------------|-----------------------------|--------------------------|-----------------------------|
| Mast type    | H3   | Capacity -<br>Load center<br>500 mm | Capacity -<br>Load center<br>500 mm -<br>with<br>Sideshift | Capacity -<br>Load center<br>500 mm -<br>with<br>IntegSideshif<br>t | H1   | H4 with load<br>backrest | H2 without<br>load backrest | H2 with load<br>backrest | Tilting angle<br>Front/back |
| VM Tele      | 3000 | 2000                                | 1850                                                       | 1850                                                                | 2002 | 4041                     | 128                         | 128                      | 6/12                        |
|              | 3300 | 2000                                | 1850                                                       | 1850                                                                | 2152 | 4341                     | 128                         | 128                      | 6/12                        |
|              | 4000 | 2000                                | 1850                                                       | 1850                                                                | 2552 | 5041                     | 128                         | 128                      | 6/8                         |
|              | 4500 | 2000                                | 1850                                                       | 1850                                                                | 2802 | 5541                     | 128                         | 128                      | 6/6                         |
|              | 5000 | 2000                                | 1400                                                       | 1400                                                                | 3052 | 6041                     | 128                         | 128                      | 3/6                         |
| VFM 2 stage  | 3000 | 2000                                | 1850                                                       | 1850                                                                | 2002 | 4041                     | 1411                        | 1001                     | 6/12                        |
|              | 4000 | 2000                                | 1850                                                       | 1850                                                                | 2552 | 5041                     | 1961                        | 1551                     | 6/8                         |
| VFHM triplex | 4350 | 2000                                | 1850                                                       | 1850                                                                | 2102 | 5391                     | 1489                        | 1101                     | 6/6                         |
|              | 4500 | 2000                                | 1850                                                       | 1850                                                                | 2152 | 5541                     | 1539                        | 1151                     | 6/6                         |
|              | 4700 | 2000                                | 1850                                                       | 1850                                                                | 2217 | 5741                     | 1604                        | 1216                     | 6/6                         |
|              | 4800 | 2000                                | 1850                                                       | 1850                                                                | 2252 | 5841                     | 1639                        | 1251                     | 6/6                         |
|              | 5000 | 1890                                | 1290                                                       | 1290                                                                | 2395 | 6041                     | 1782                        | 1394                     | 6/6                         |
|              | 5500 | 1520                                | 920                                                        | 920                                                                 | 2629 | 6541                     | 2016                        | 1628                     | 3/6                         |
|              | 6000 | 1180                                | 580                                                        | 580                                                                 | 2862 | 7041                     | 2249                        | 1861                     | 3/6                         |



The KBD/G 15-20+ forklifts are available with load capacities of 1.5, 1.8 and 2.0 tonnes. Simple and robust, they are designed to provide productivity and outstanding stability.

The KBD+ are equipped with Diesel EU5 HDI engines. The KBG+ are available with CE-compliant Deutz LPG engines. The KBD/G 15-20+ trucks are versatile and ideal for multiple applications.

A good manoeuvrability and smooth driving behaviour are guaranteed by the KION hydrodynamic transmission. The excellent stability ensures high load capacities and safety

under all conditions of use. The KBD+ and KBG+ are the perfect choice for anyone looking for a sturdy product of quality.

The KBD+ and KBG+ forklifts are equipped with important driving aids – the electronic driving direction selector, easily accessible hydraulic levers, a dashboard with multifunction display and the parking brake pedal. A spacious cabin is designed to guarantee maximum visibility and good comfort for the driver.

The quality of the components and good accessibility for maintenance operations ensure outstanding reliability.

## Technology

- ✓ High-quality and precise hydrodynamic transmission
- ✓ Fully suspended cabin
- ✓ Inching pedal for high precision handlings
- ✓ Robust mast: two stages, two stages free lift, three stages free lift
- ✓ Lifting cylinders cushioned during descent
- ✓ Electronic driving direction selector
- ✓ Metal engine compartment bonnet for maximum resistance and functionality
- ✓ Easy access to all components

## Ergonomics and workplace

- ✓ Robust driver's cabin for excellent visibility
- ✓ Reduced diameter steering wheel (300 mm) for excellent manoeuvrability
- ✓ Side levers as standard
- ✓ Operator dashboard with multifunction display
- ✓ Foot-activated parking brake
- ✓ Adjustable seat and steering column
- ✓ Ascent handle and rear handle with a horn activation button
- ✓ Large and comfortable operator footboard
- ✓ Half and full cabin available

