

Baoli

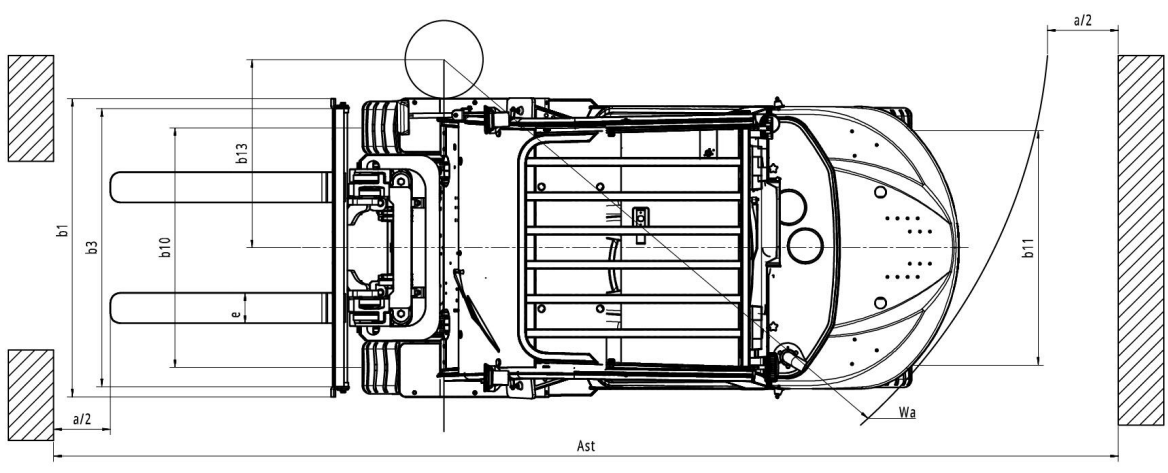
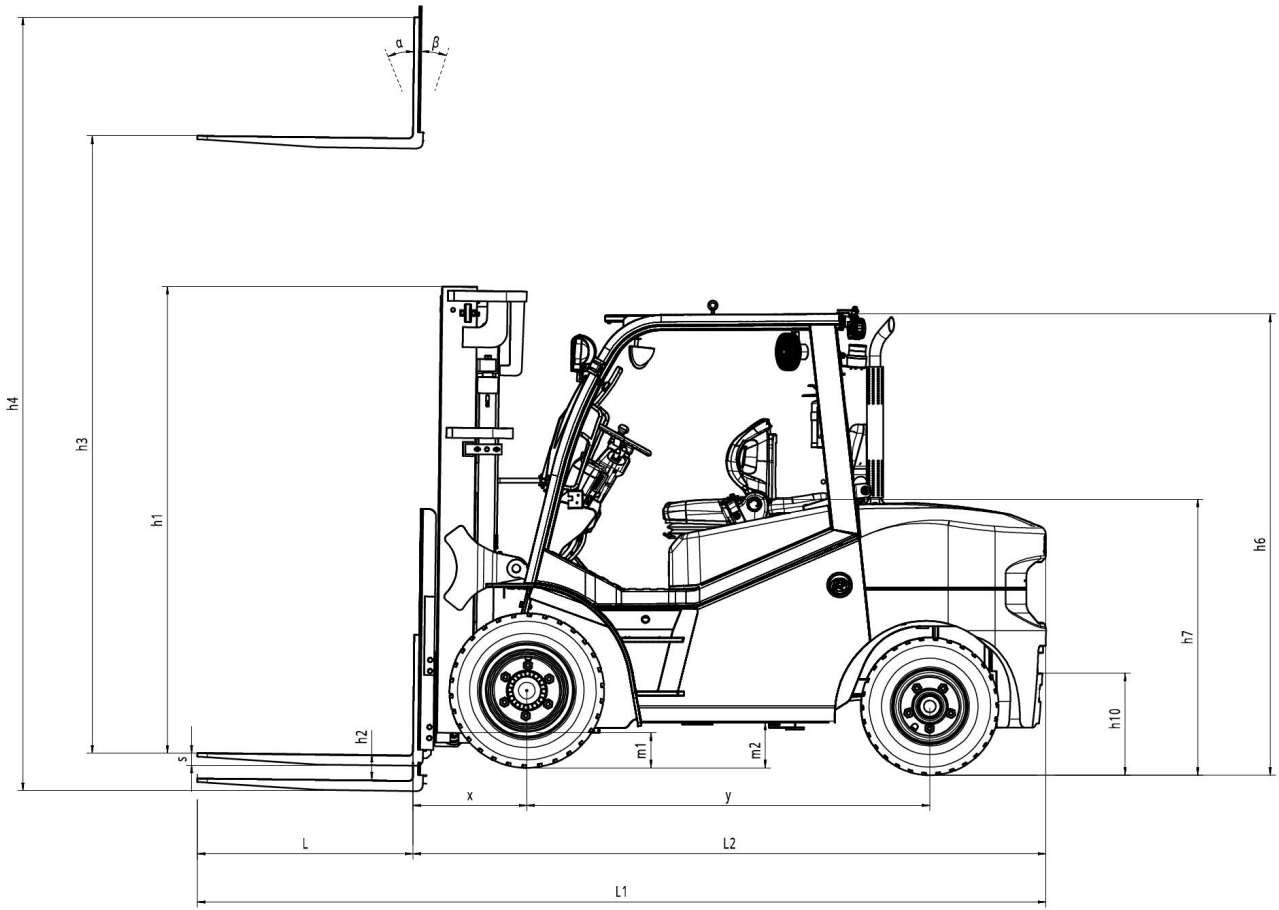
KBD 40-50S



Baoli

| | | | | | |
|--------|---|--------------------|------------------|----------------|-------------------|
| 1.1 | Manufacturer | | KION BAOLI | KION BAOLI | KION BAOLI |
| 1.2 | Manufacturer's type designation | | KBD 40 Deutz EU5 | KBD 40 Weichai | KBD 40 Mitsubishi |
| 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) | 4,0 | 4,0 | 4,0 |
| 1.6 | Load centre distance | c (mm) | 500 | 500 | 500 |
| 1.8 | Load distance, centre of drive axle to fork | x (mm) | 562 | 562 | 562 |
| 1.9 | Wheelbase | y (mm) | 2000 | 2000 | 2000 |
| 2.1 | Service weight | Kg | 6800 | 6780 | 7240 |
| 2.2 | Axle loading, laden front/rear | Kg | 9627/1243 | 9830/1250 | 10240/1100 |
| 2.3 | Axle loading, unladen front/rear | Kg | 2731/3676 | 3340/3440 | 3800/3440 |
| 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | SE | SE | SE |
| 3.2 | Tyre size, front | | 315/70-15 | 315/70-15 | 315/70-15 |
| 3.3 | Tyre size, rear | | 7,00-12 | 7,00-12 | 7,00-12 |
| 3.6 | Tread, front | b10 (mm) | 1180 | 1180 | 1180 |
| 3.7 | Tread, rear | b11 (mm) | 1190 | 1190 | 1190 |
| 4.1 | Tilt of mast/fork carriage forward/backward | α/β (°) | 6/12 | 6/12 | 6/12 |
| 4.2 | Height, mast lowered | h1 (mm) | 2390 | 2390 | 2390 |
| 4.3 | Free lift | h2 (mm) | 150 | 150 | 150 |
| 4.4 | Lift | h3 (mm) | 3000 | 3000 | 3000 |
| 4.5 | Height, mast extended | h4 (mm) | 4275 | 4275 | 4275 |
| 4.7 | Height of overhead guard (cabin) | h6 (mm) | 2260 | 2260 | 2260 |
| 4.8 | Seat height/stand height | h7 (mm) | 1315 | 1280 | 1280 |
| 4.12 | Coupling height | h10 (mm) | 380 | 380 | 380 |
| 4.19 | Overall length | l1 (mm) | 4180 | 4180 | 4180 |
| 4.20 | Length to face of forks | l2 (mm) | 3110 | 3110 | 3110 |
| 4.21 | Overall width | b1/b2 (mm) | 1485 | 1485 | 1485 |
| 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 50x150x1070 | 50x150x1070 | 50x140x1070 |
| 4.23 | Fork carriage ISO 2328, class/type A, B | | III A | III A | III A |
| 4.24 | Fork carriage width | b3 (mm) | 1380 | 1380 | 1380 |
| 4.31 | Ground clearance, laden, below mast | m1 (mm) | 145 | 145 | 145 |
| 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 180 | 180 | 180 |
| 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 4552 | 4552 | 4627 |
| 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 4752 | 4752 | 4827 |
| 4.35 | Turning radius | Wa (mm) | 2790 | 2790 | 2790 |
| 4.36 | Internal turning radius | b13 (mm) | 900 | 900 | 900 |
| 5.1 | Travel speed, laden/unladen | km/h | 24/25 | 25,3/26,2 | 24,4/25,3 |
| 5.2 | Lift speed, laden/unladen | m/s | 0,440/0,530 | 0,456/0,528 | 0,440/0,530 |
| 5.3 | Lowering speed, laden/unladen | m/s | 0,420/0,290 | 0,455/0,320 | 0,420/0,290 |
| 5.5 | Drawbar pull, laden/unladen | kN | 25/23 | 24 | 24 |
| 5.7 | Gradeability, laden/unladen | % | 20 | 20 | 20 |
| 5.10 | Service brake | | Mech/Hydr | Mech/Hydr | Mech/Hydr |
| 7.1 | Engine manufacturer/type | | Deutz TCD2.9 L4 | Weichai WP4.1 | Mitsubishi S6S |
| 7.2 | Engine power according to ISO 1585 | kW | 55.4 | 62.5 | 52 |
| 7.3 | Rated speed | min-1 | 2300 | 2300 | 2300 |
| 7.4 | Number of cylinders/displacement | cm3 | 4/2900 | 4/4090 | 6/4966 |
| 7.5 | Fuel consumption according to VDI cycle | l/h or kg/h | 5,1 l/h | 10 | 6.15 |
| 7.9 | Vehicle electrical system voltage | V | 12 | 24 | 24 |
| 8.1 | Type of drive unit | | Hydrodynamic | Hydrodynamic | Hydrodynamic |
| 10.4 | Fuel tank, capacity | l/kg | 90 | 90/75 | 90/75 |
| 10.8 | Towing coupling, type DIN | | Pin | Pin | Pin |

| | | | | | |
|--------|---|--------------------|-------------------|-----------------|--------------------|
| 1.1 | Manufacturer | | KION BAOLI | KION BAOLI | KION BAOLI |
| 1.2 | Manufacturer's type designation | | KBD 50S Deutz EU5 | KBD 50S Weichai | KBD 50S Mitsubishi |
| 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) | 5,0 | 5,0 | 5,0 |
| 1.6 | Load centre distance | c (mm) | 500 | 500 | 500 |
| 1.8 | Load distance, centre of drive axle to fork | x (mm) | 567 | 567 | 567 |
| 1.9 | Wheelbase | y (mm) | 2000 | 2000 | 2000 |
| 2.1 | Service weight | Kg | 7340 | 7380 | 7780 |
| 2.2 | Axle loading, laden front/rear | Kg | 11000/1420 | 11360/1320 | 11330/1450 |
| 2.3 | Axle loading, unladen front/rear | Kg | 3120/4200 | 3220/4160 | 3160/4620 |
| 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | SE | SE | SE |
| 3.2 | Tyre size, front | | 315/70-15 | 315/70-15 | 315/70-15 |
| 3.3 | Tyre size, rear | | 7,00-12 | 7,00-12 | 7,00-12 |
| 3.6 | Tread, front | b10 (mm) | 1180 | 1180 | 1180 |
| 3.7 | Tread, rear | b11 (mm) | 1190 | 1190 | 1190 |
| 4.1 | Tilt of mast/fork carriage forward/backward | α/β (°) | 6/12 | 6/12 | 6/12 |
| 4.2 | Height, mast lowered | h1 (mm) | 2390 | 2390 | 2390 |
| 4.3 | Free lift | h2 (mm) | 150 | 155 | 155 |
| 4.4 | Lift | h3 (mm) | 3000 | 3000 | 3000 |
| 4.5 | Height, mast extended | h4 (mm) | 4275 | 4275 | 4275 |
| 4.7 | Height of overhead guard (cabin) | h6 (mm) | 2260 | 2260 | 2260 |
| 4.8 | Seat height/stand height | h7 (mm) | 1315 | 1280 | 1280 |
| 4.12 | Coupling height | h10 (mm) | 380 | 380 | 380 |
| 4.19 | Overall length | l1 (mm) | 4230 | 4230 | 4230 |
| 4.20 | Length to face of forks | l2 (mm) | 3160 | 3160 | 3160 |
| 4.21 | Overall width | b1/b2 (mm) | 1485 | 1485 | 1485 |
| 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 55x150x1070 | 55x150x1070 | 55x150x1070 |
| 4.23 | Fork carriage ISO 2328, class/type A, B | | III A | III A | III A |
| 4.24 | Fork carriage width | b3 (mm) | 1380 | 1380 | 1380 |
| 4.31 | Ground clearance, laden, below mast | m1 (mm) | 145 | 145 | 145 |
| 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 180 | 180 | 180 |
| 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 4597 | 4597 | 4667 |
| 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 4797 | 4797 | 4867 |
| 4.35 | Turning radius | Wa (mm) | 2830 | 2830 | 2830 |
| 4.36 | Internal turning radius | b13 (mm) | 900 | 900 | 900 |
| 5.1 | Travel speed, laden/unladen | km/h | 24/25 | 25,3/26,2 | 24,4/25,3 |
| 5.2 | Lift speed, laden/unladen | m/s | 0,440/0,530 | 0,456/0,528 | 0,440/0,530 |
| 5.3 | Lowering speed, laden/unladen | m/s | 0,420/0,290 | 0,455/0,320 | 0,420/0,290 |
| 5.5 | Drawbar pull, laden/unladen | kN | 25/23 | 24 | 24 |
| 5.7 | Gradeability, laden/unladen | % | 20 | 20 | 20 |
| 5.10 | Service brake | | Mech/Hydr | Mech/Hydr | Mech/Hydr |
| 7.1 | Engine manufacturer/type | | Deutz TCD2.9 L4 | Weichai WP4.1 | Mitsubishi S6S |
| 7.2 | Engine power according to ISO 1585 | kW | 55.4 | 62.5 | 52 |
| 7.3 | Rated speed | min-1 | 2300 | 2300 | 2300 |
| 7.4 | Number of cylinders/displacement | cm3 | 4/2900 | 4/4090 | 6/4966 |
| 7.5 | Fuel consumption according to VDI cycle | l/h or kg/h | 5,4 l/h | 8,7 l/h | 7,6 l/h |
| 7.9 | Vehicle electrical system voltage | V | 12 | 24 | 24 |
| 8.1 | Type of drive unit | | Hydrodynamic | Hydrodynamic | Hydrodynamic |
| 10.4 | Fuel tank, capacity | l/kg | 90 | 90/75 | 90/75 |
| 10.8 | Towing coupling, type DIN | | Pin | Pin | Pin |



KBD 40 Deutz EU5

| Mast type | H3 | Capacity - Load center 500 mm | Capacity - Load center 500 mm - with Sideshift | Capacity - Load center 500 mm - Twin tyres | Capacity - Load center 500 mm - Twin tyres - with Sideshift | H1 | H4 with load backrest | H2 without load backrest | H2 with load backrest | Tilting angle Front/back |
|--------------|------|-------------------------------|--|--|---|------|-----------------------|--------------------------|-----------------------|--------------------------|
| VM Tele | 3000 | 4000 | 3750 | 4000 | 3750 | 2390 | 4275 | 150 | 150 | 6/12 |
| | 3300 | 4000 | 3750 | 4000 | 3750 | 2540 | 4575 | 150 | 150 | 6/12 |
| | 4000 | 4000 | 3750 | 4000 | 3750 | 2940 | 5275 | 150 | 150 | 6/6 |
| | 4500 | 4000 | 3750 | 4000 | 3750 | 3190 | 5775 | 150 | 150 | 6/6 |
| | 5000 | 4000 | 3750 | 4000 | 3750 | 3440 | 6275 | 150 | 150 | 6/6 |
| VFM 2 stage | 3000 | 4000 | 3750 | 4000 | 3750 | 2390 | 4275 | 1544 | 1165 | 6/12 |
| | 3500 | 4000 | 3750 | 4000 | 3750 | 2640 | 4775 | 1794 | 1415 | 6/12 |
| | 4000 | 4000 | 3750 | 4000 | 3750 | 2890 | 5275 | 2044 | 1665 | 6/12 |
| VFHM triplex | 3920 | 4000 | 3750 | 4000 | 3750 | 2245 | 5195 | 1399 | 1020 | 6/6 |
| | 4350 | 4000 | 3750 | 4000 | 3750 | 2390 | 5625 | 1544 | 1165 | 6/6 |
| | 4500 | 4000 | 3750 | 4000 | 3750 | 2441 | 5775 | 1595 | 1216 | 6/6 |
| | 4700 | 4000 | 3750 | 4000 | 3750 | 2507 | 5975 | 1661 | 1282 | 6/6 |
| | 5000 | 4000 | 3750 | 4000 | 3750 | 2640 | 6275 | 1794 | 1415 | 6/6 |
| | 6000 | 3480 | 3230 | 4000 | 3750 | 3005 | 7275 | 2159 | 1780 | 3/6 |

KBD 40 Weichai - KBD 40 Mitsubishi

| Mast type | H3 | Capacity - Load center 500 mm | Capacity - Load center 500 mm - with Sideshift | Capacity - Load center 500 mm - Twin tyres | Capacity - Load center 500 mm - Twin tyres - with Sideshift | H1 | H4 with load backrest | H2 without load backrest | H2 with load backrest | Tilting angle Front/back |
|--------------|------|-------------------------------|--|--|---|------|-----------------------|--------------------------|-----------------------|--------------------------|
| VM Tele | 3000 | 4000 | 3750 | 4000 | 3750 | 2390 | 4275 | 150 | 150 | 6/12 |
| | 3300 | 4000 | 3750 | 4000 | 3750 | 2540 | 4575 | 150 | 150 | 6/12 |
| | 4000 | 3800 | 3550 | 4000 | 3750 | 2940 | 5275 | 150 | 150 | 6/6 |
| | 4500 | 3500 | 3250 | 4000 | 3750 | 3190 | 5775 | 150 | 150 | 6/6 |
| | 5000 | 3100 | 2850 | 3700 | 3450 | 3440 | 6275 | 150 | 150 | 6/6 |
| VFM 2 stage | 3000 | 4000 | 3750 | 4000 | 3750 | 2390 | 4275 | 1544 | 1165 | 6/12 |
| | 3500 | 4000 | 3750 | 4000 | 3750 | 2640 | 4775 | 1794 | 1415 | 6/12 |
| | 4000 | 3800 | 3550 | 4000 | 3750 | 2890 | 5275 | 2044 | 1665 | 6/12 |
| VFHM triplex | 3920 | 3900 | 3650 | 3900 | 3650 | 2245 | 5195 | 1399 | 1020 | 6/6 |
| | 4350 | 3800 | 3550 | 3800 | 3550 | 2390 | 5625 | 1544 | 1165 | 6/6 |
| | 4500 | 3500 | 3250 | 3500 | 3250 | 2441 | 5775 | 1595 | 1216 | 6/6 |
| | 4700 | 3400 | 3150 | 3400 | 3150 | 2507 | 5975 | 1661 | 1282 | 6/6 |
| | 5000 | 3000 | 2750 | 3600 | 3350 | 2640 | 6275 | 1794 | 1415 | 6/6 |
| | 6000 | 2000 | 1750 | 3200 | 2950 | 3005 | 7275 | 2159 | 1780 | 3/6 |

KBD 50S Deutz EU5

| Mast type | H3 | Capacity - Load center 500 mm | Capacity - Load center 500 mm - with Sideshift | Capacity - Load center 500 mm - Twin tyres | Capacity - Load center 500 mm - Twin tyres - with Sideshift | H1 | H4 with load backrest | H2 without load backrest | H2 with load backrest | Tilting angle Front/back |
|--------------|------|-------------------------------|--|--|---|------|-----------------------|--------------------------|-----------------------|--------------------------|
| VM Tele | 3000 | 5000 | 4750 | 5000 | 4750 | 2390 | 4275 | 150 | 150 | 6/12 |
| | 3300 | 5000 | 4750 | 5000 | 4750 | 2540 | 4575 | 150 | 150 | 6/12 |
| | 4000 | 5000 | 4750 | 5000 | 4750 | 2940 | 5275 | 150 | 150 | 6/6 |
| | 4500 | 5000 | 4750 | 5000 | 4750 | 3190 | 5775 | 150 | 150 | 6/6 |
| | 5000 | 5000 | 4750 | 5000 | 4750 | 3440 | 6275 | 150 | 150 | 6/6 |
| VFM 2 stage | 3000 | 5000 | 4750 | 5000 | 4750 | 2390 | 4275 | 1544 | 1165 | 6/12 |
| | 3500 | 5000 | 4750 | 5000 | 4750 | 2640 | 4775 | 1794 | 1415 | 6/12 |
| | 4000 | 5000 | 4750 | 5000 | 4750 | 2890 | 5275 | 2044 | 1665 | 6/12 |
| VFHM triplex | 3920 | 5000 | 4750 | 5000 | 4750 | 2245 | 5195 | 1399 | 1020 | 6/6 |
| | 4350 | 5000 | 4750 | 5000 | 4750 | 2390 | 5625 | 1544 | 1165 | 6/6 |
| | 4500 | 5000 | 4750 | 5000 | 4750 | 2441 | 5775 | 1595 | 1216 | 6/6 |
| | 4700 | 5000 | 4750 | 5000 | 4750 | 2507 | 5975 | 1661 | 1282 | 6/6 |
| | 5000 | 5000 | 4750 | 5000 | 4750 | 2640 | 6275 | 1794 | 1415 | 6/6 |
| | 6000 | 4480 | 4230 | 5000 | 4750 | 3005 | 7275 | 2159 | 1780 | 3/6 |

KBD 50S Weichai - KBD 50S Mitsubishi

| Mast type | H3 | Capacity - Load center 500 mm | Capacity - Load center 500 mm - with Sideshift | Capacity - Load center 500 mm - Twin tyres | Capacity - Load center 500 mm - Twin tyres - with Sideshift | H1 | H4 with load backrest | H2 without load backrest | H2 with load backrest | Tilting angle Front/back |
|--------------|------|-------------------------------|--|--|---|------|-----------------------|--------------------------|-----------------------|--------------------------|
| VM Tele | 3000 | 5000 | 4750 | 5000 | 4750 | 2390 | 4275 | 150 | 150 | 6/12 |
| | 3300 | 5000 | 4750 | 5000 | 4750 | 2540 | 4575 | 150 | 150 | 6/12 |
| | 4000 | 4600 | 4350 | 4600 | 4350 | 2940 | 5275 | 150 | 150 | 6/6 |
| | 4500 | 4500 | 4250 | 4800 | 4550 | 3190 | 5775 | 150 | 150 | 6/6 |
| | 5000 | 4000 | 3750 | 4600 | 4350 | 3440 | 6275 | 150 | 150 | 6/6 |
| VFM 2 stage | 3000 | 5000 | 4750 | 5000 | 4750 | 2390 | 4275 | 1544 | 1165 | 6/12 |
| | 3500 | 5000 | 4750 | 5000 | 4750 | 2640 | 4775 | 1794 | 1415 | 6/12 |
| | 4000 | 4600 | 4350 | 5000 | 4750 | 2890 | 5275 | 2044 | 1665 | 6/12 |
| VFHM triplex | 3920 | 4800 | 4550 | 4800 | 4550 | 2245 | 5195 | 1399 | 1020 | 6/6 |
| | 4350 | 4700 | 4450 | 4700 | 4450 | 2390 | 5625 | 1544 | 1165 | 6/6 |
| | 4500 | 4500 | 4250 | 4500 | 4250 | 2441 | 5775 | 1595 | 1216 | 6/6 |
| | 4700 | 4200 | 3950 | 4200 | 3950 | 2507 | 5975 | 1661 | 1282 | 6/6 |
| | 5000 | 3800 | 3550 | 4500 | 4250 | 2640 | 6275 | 1794 | 1415 | 6/6 |
| | 6000 | 2500 | 2250 | 4000 | 3750 | 3005 | 7275 | 2159 | 1780 | 3/6 |

KBD/G 40-50S



For more heavy-duty applications, Baoli offers the Diesel-powered KBD 40 and KBD 50S trucks and the KBG 40 and KBG 50S with LPG engines. These forklifts are available with load capacities of 4.0 and 5.0 tonnes at 500 mm load centre. KBD/G 40-50S are available with Deutz and HDI EU5-compliant engines. For the markets where CE conformity is not required, it is possible to select Isuzu, Mitsubishi or Weichai Diesel engines and PSI LPG engines. The KBD 40-50S is extremely versatile and can be used in hard work environments as well as for very precise handlings. It is fitted with a very precise transmission, developed

by Baoli using KION Group technologies, and features a good visibility in any direction and a comfortable workplace. The KBD/G 40-50S are very manoeuvrable. They 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. The KBD/G 40-50S is designed to become the benchmark in terms of stability in its market segment. The very high residual capacities result in enhanced safety of the truck. An optimised and plain design ensures easy maintenance operations.

Technology

- ✓ High-quality hydrodynamic transmission
- ✓ Two speeds available for adapting to different applications
- ✓ 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.



Ergonomics and driver's workplace

- ✓ Robust driver's cabin for excellent visibility
- ✓ Reduced diameter steering wheel (300 mm) for excellent manoeuvrability
- ✓ Hydraulic levers to the right of the operator for maximum comfort
- ✓ Operator dashboard with multifunction display
- ✓ Adjustable seat and steering column
- ✓ Very spacious driver's seat and large operator footboard
- ✓ Half and full cabin available.



Baoli

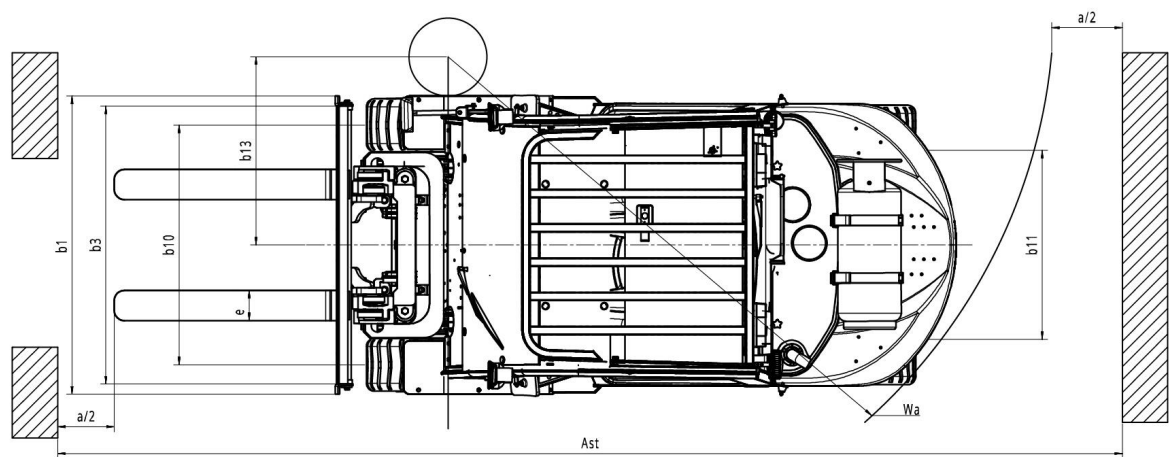
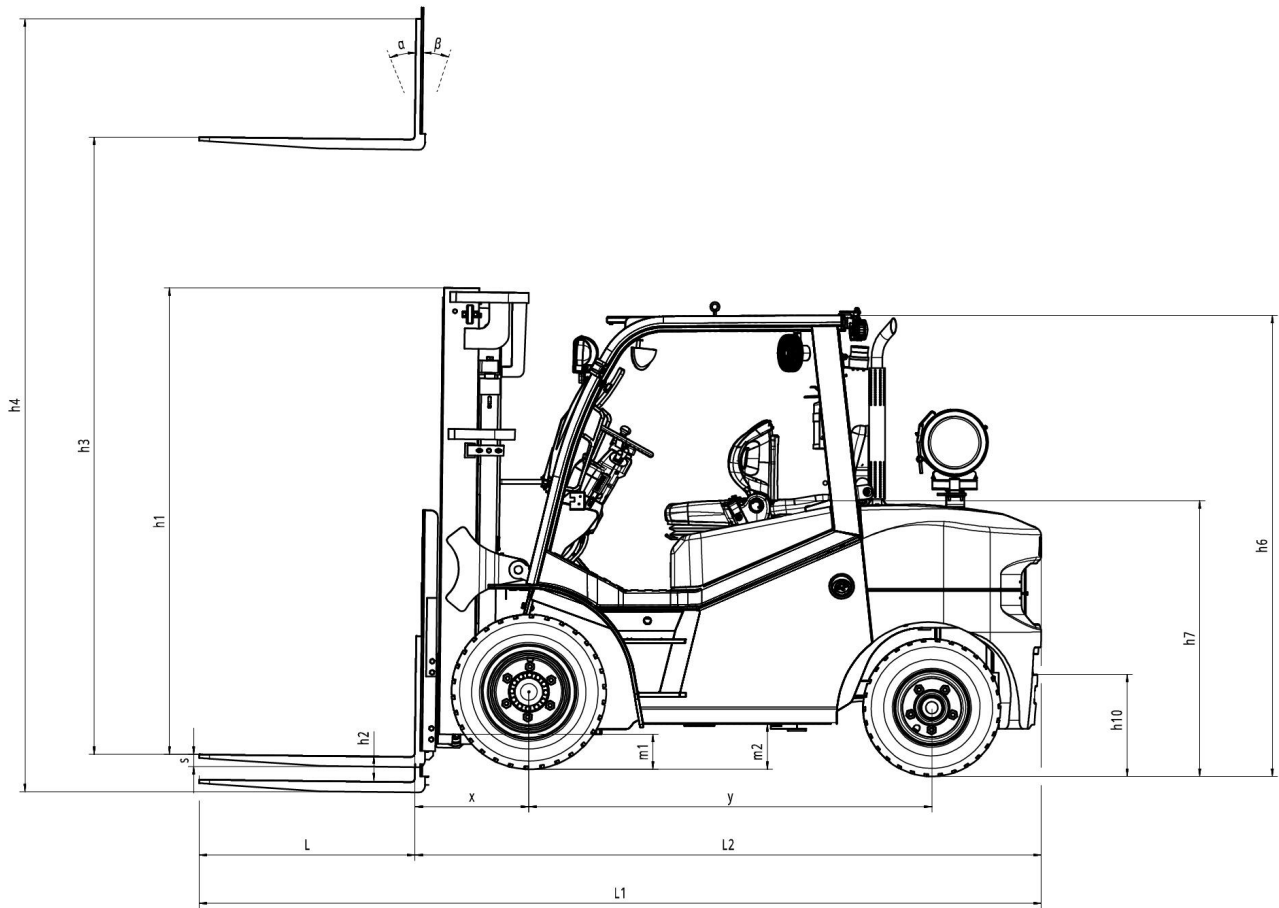
KBG 40-50S



Baoli

| | | | | | |
|--------|---|--------------------|------------------|--------------|--------------|
| 1.1 | Manufacturer | | KION BAOLI | KION BAOLI | KION BAOLI |
| 1.2 | Manufacturer's type designation | | KBG 40 EU5 | KBG 40 | KBG 50S |
| 1.3 | Drive: electric, diesel, petrol, fuel gas | | LPG | LPG | LPG |
| 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Seated | Seated | Seated |
| 1.5 | Rated capacity / Rated load | Q (t) | 4,0 | 4,0 | 5,0 |
| 1.6 | Load centre distance | c (mm) | 500 | 500 | 500 |
| 1.8 | Load distance, centre of drive axle to fork | x (mm) | 562 | 562 | 567 |
| 1.9 | Wheelbase | y (mm) | 2000 | 2000 | 2000 |
| 2.1 | Service weight | Kg | 6800 | 6450 | 6950 |
| 2.2 | Axle loading, laden front/rear | Kg | 9550/1250 | 9460/990 | 10850/1100 |
| 2.3 | Axle loading, unladen front/rear | Kg | 3340/3460 | 2645/3805 | 2800/4150 |
| 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | SE | SE | SE |
| 3.2 | Tyre size, front | | 315/70-15 | 315/70-15 | 315/70-15 |
| 3.3 | Tyre size, rear | | 7,00-12 | 7,00-12 | 7,00-12 |
| 3.6 | Tread, front | b10 (mm) | 1180 | 1180 | 1180 |
| 3.7 | Tread, rear | b11 (mm) | 1190 | 1190 | 1190 |
| 4.1 | Tilt of mast/fork carriage forward/backward | α/β (°) | 6/12 | 6/12 | 6/12 |
| 4.2 | Height, mast lowered | h1 (mm) | 2390 | 2390 | 2390 |
| 4.3 | Free lift | h2 (mm) | 150 | 155 | 155 |
| 4.4 | Lift | h3 (mm) | 3000 | 3000 | 3000 |
| 4.5 | Height, mast extended | h4 (mm) | 4275 | 4275 | 4275 |
| 4.7 | Height of overhead guard (cabin) | h6 (mm) | 2260 | 2260 | 2260 |
| 4.8 | Seat height/stand height | h7 (mm) | 1315 | 1260 | 1260 |
| 4.12 | Coupling height | h10 (mm) | 390 | 390 | 390 |
| 4.19 | Overall length | l1 (mm) | 4186 | 4186 | 4221 |
| 4.20 | Length to face of forks | l2 (mm) | 3116 | 3116 | 3151 |
| 4.21 | Overall width | b1/b2 (mm) | 1485 | 1485 | 1485 |
| 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 50x150x1070 | 50x140x1070 | 55x150x1070 |
| 4.23 | Fork carriage ISO 2328, class/type A, B | | III A | III A | III A |
| 4.24 | Fork carriage width | b3 (mm) | 1480 | 1480 | 1480 |
| 4.31 | Ground clearance, laden, below mast | m1 (mm) | 145 | 145 | 145 |
| 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 180 | 180 | 180 |
| 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 4557 | 4557 | 4597 |
| 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 4757 | 4757 | 4797 |
| 4.35 | Turning radius | Wa (mm) | 2795 | 2795 | 2830 |
| 4.36 | Internal turning radius | b13 (mm) | 922 | 922 | 922 |
| 5.1 | Travel speed, laden/unladen | km/h | 24/26 | 20/22 | 20/22 |
| 5.2 | Lift speed, laden/unladen | m/s | 0,470/0,530 | 0,450/0,480 | 0,430/0,480 |
| 5.3 | Lowering speed, laden/unladen | m/s | 0,420/0,360 | 0,380/0,350 | 0,380/0,350 |
| 5.5 | Drawbar pull, laden/unladen | kN | 24/21 | 20/15 | 22/16 |
| 5.7 | Gradeability, laden/unladen | % | 20 | 20 | 20 |
| 5.10 | Service brake | | Mech/Hydr | Mech/Hydr | Mech/Hydr |
| 7.1 | Engine manufacturer/type | | Hyundai PM03 EU5 | PSI 4,3L | PSI 4,3L |
| 7.2 | Engine power according to ISO 1585 | kW | 55.2 | 69.8 | 69.8 |
| 7.3 | Rated speed | min-1 | 2300 | 2300 | 2300 |
| 7.4 | Number of cylinders/displacement | cm3 | 4/3400 | 6/4294 | 6/4294 |
| 7.5 | Fuel consumption according to VDI cycle | l/h or kg/h | 6 kg/h | - | - |
| 7.9 | Vehicle electrical system voltage | V | 12 | - | - |
| 8.1 | Type of drive unit | | Hydrodynamic | Hydrodynamic | Hydrodynamic |
| 10.4 | Fuel tank, capacity | l/kg | - | 80/57 | 80/57 |
| 10.8 | Towing coupling, type DIN | | Pin | Pin | Pin |

| | | | |
|--------|---|--------------------|------------------|
| 1.1 | Manufacturer | | KION BAOLI |
| 1.2 | Manufacturer's type designation | | KBG 50S EU5 |
| 1.3 | Drive: electric, diesel, petrol, fuel gas | | LPG |
| 1.4 | Operator type: hand, pedestrian, standing, seated, order-picker | | Seated |
| 1.5 | Rated capacity / Rated load | Q (t) | 5,0 |
| 1.6 | Load centre distance | c (mm) | 500 |
| 1.8 | Load distance, centre of drive axle to fork | x (mm) | 567 |
| 1.9 | Wheelbase | y (mm) | 2000 |
| 2.1 | Service weight | Kg | 7360 |
| 2.2 | Axle loading, laden front/rear | Kg | 11020/1440 |
| 2.3 | Axle loading, unladen front/rear | Kg | 3140/4220 |
| 3.1 | Tyres: solid rubber, superelastic, pneumatic, polyurethane | | SE |
| 3.2 | Tyre size, front | | 315/70-15 |
| 3.3 | Tyre size, rear | | 7,00-12 |
| 3.6 | Tread, front | b10 (mm) | 1180 |
| 3.7 | Tread, rear | b11 (mm) | 1190 |
| 4.1 | Tilt of mast/fork carriage forward/backward | α/β (°) | 6/12 |
| 4.2 | Height, mast lowered | h1 (mm) | 2390 |
| 4.3 | Free lift | h2 (mm) | 150 |
| 4.4 | Lift | h3 (mm) | 3000 |
| 4.5 | Height, mast extended | h4 (mm) | 4275 |
| 4.7 | Height of overhead guard (cabin) | h6 (mm) | 2260 |
| 4.8 | Seat height/stand height | h7 (mm) | 1315 |
| 4.12 | Coupling height | h10 (mm) | 380 |
| 4.19 | Overall length | l1 (mm) | 4221 |
| 4.20 | Length to face of forks | l2 (mm) | 3151 |
| 4.21 | Overall width | b1/b2 (mm) | 1485 |
| 4.22 | Fork dimensions ISO 2331 | s/e/l (mm) | 55x150x1070 |
| 4.23 | Fork carriage ISO 2328, class/type A, B | | III A |
| 4.24 | Fork carriage width | b3 (mm) | 1480 |
| 4.31 | Ground clearance, laden, below mast | m1 (mm) | 145 |
| 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 180 |
| 4.34.1 | Aisle width for pallets 1000 x 1200 crossways | Ast (mm) | 4597 |
| 4.34.2 | Aisle width for pallets 800 x 1200 lengthways | Ast (mm) | 4797 |
| 4.35 | Turning radius | Wa (mm) | 2830 |
| 4.36 | Internal turning radius | b13 (mm) | 922 |
| 5.1 | Travel speed, laden/unladen | km/h | 24/26 |
| 5.2 | Lift speed, laden/unladen | m/s | 0,470/0,530 |
| 5.3 | Lowering speed, laden/unladen | m/s | 0,430/0,360 |
| 5.5 | Drawbar pull, laden/unladen | kN | 24/21 |
| 5.7 | Gradeability, laden/unladen | % | 20 |
| 5.10 | Service brake | | Mech/Hydr |
| 7.1 | Engine manufacturer/type | | Hyundai PM03 EU5 |
| 7.2 | Engine power according to ISO 1585 | kW | 55.2 |
| 7.3 | Rated speed | min-1 | 2300 |
| 7.4 | Number of cylinders/displacement | cm3 | 4/3400 |
| 7.5 | Fuel consumption according to VDI cycle | l/h or kg/h | 6,4 kg/h |
| 7.9 | Vehicle electrical system voltage | V | 12 |
| 8.1 | Type of drive unit | | Hydrodynamic |
| 10.4 | Fuel tank, capacity | l/kg | - |
| 10.8 | Towing coupling, type DIN | | Pin |



KBG 40 EU5 - KBG 40

| Mast type | H3 | Capacity - Load center 500 mm | Capacity - Load center 500 mm - with Sideshift | Capacity - Load center 500 mm - Twin tyres | Capacity - Load center 500 mm - Twin tyres - with Sideshift | H1 | H4 with load backrest | H2 without load backrest | H2 with load backrest | Tilting angle Front/back |
|--------------|------|-------------------------------|--|--|---|------|-----------------------|--------------------------|-----------------------|--------------------------|
| VM Tele | 3000 | 4000 | 3750 | 4000 | 3750 | 2390 | 4275 | 150 | 150 | 6/12 |
| | 3300 | 4000 | 3750 | 4000 | 3750 | 2540 | 4575 | 150 | 150 | 6/12 |
| | 4000 | 4000 | 3750 | 4000 | 3750 | 2940 | 5275 | 150 | 150 | 6/6 |
| | 4500 | 4000 | 3750 | 4000 | 3750 | 3190 | 5775 | 150 | 150 | 6/6 |
| | 5000 | 4000 | 3750 | 4000 | 3750 | 3440 | 6275 | 150 | 150 | 6/6 |
| VFM 2 stage | 3000 | 4000 | 3750 | 4000 | 3750 | 2390 | 4275 | 1544 | 1165 | 6/12 |
| | 3500 | 4000 | 3750 | 4000 | 3750 | 2640 | 4775 | 1794 | 1415 | 6/12 |
| | 4000 | 4000 | 3750 | 4000 | 3750 | 2890 | 5275 | 2044 | 1665 | 6/12 |
| VFHM triplex | 3920 | 4000 | 3750 | 4000 | 3750 | 2245 | 5195 | 1399 | 1020 | 6/6 |
| | 4350 | 4000 | 3750 | 4000 | 3750 | 2390 | 5625 | 1544 | 1165 | 6/6 |
| | 4500 | 4000 | 3750 | 4000 | 3750 | 2441 | 5775 | 1595 | 1216 | 6/6 |
| | 4700 | 4000 | 3750 | 4000 | 3750 | 2507 | 5975 | 1661 | 1282 | 6/6 |
| | 5000 | 4000 | 3750 | 4000 | 3750 | 2640 | 6275 | 1794 | 1415 | 6/6 |
| | 6000 | 3480 | 3230 | 4000 | 3750 | 3005 | 7275 | 2159 | 1780 | 3/6 |

KBG 50S - KBG 50S EU5

| Mast type | H3 | Capacity - Load center 500 mm | Capacity - Load center 500 mm - with Sideshift | Capacity - Load center 500 mm - Twin tyres | Capacity - Load center 500 mm - Twin tyres - with Sideshift | H1 | H4 with load backrest | H2 without load backrest | H2 with load backrest | Tilting angle Front/back |
|--------------|------|-------------------------------|--|--|---|------|-----------------------|--------------------------|-----------------------|--------------------------|
| VM Tele | 3000 | 5000 | 4750 | 5000 | 4750 | 2390 | 4275 | 150 | 150 | 6/12 |
| | 3300 | 5000 | 4750 | 5000 | 4750 | 2540 | 4575 | 150 | 150 | 6/12 |
| | 4000 | 5000 | 4750 | 5000 | 4750 | 2940 | 5275 | 150 | 150 | 6/6 |
| | 4500 | 5000 | 4750 | 5000 | 4750 | 3190 | 5775 | 150 | 150 | 6/6 |
| | 5000 | 5000 | 4750 | 5000 | 4750 | 3440 | 6275 | 150 | 150 | 6/6 |
| VFM 2 stage | 3000 | 5000 | 4750 | 5000 | 4750 | 2390 | 4275 | 1544 | 1165 | 6/12 |
| | 3500 | 5000 | 4750 | 5000 | 4750 | 2640 | 4775 | 1794 | 1415 | 6/12 |
| | 4000 | 5000 | 4750 | 5000 | 4750 | 2890 | 5275 | 2044 | 1665 | 6/12 |
| VFHM triplex | 3920 | 5000 | 4750 | 5000 | 4750 | 2245 | 5195 | 1399 | 1020 | 6/6 |
| | 4350 | 5000 | 4750 | 5000 | 4750 | 2390 | 5625 | 1544 | 1165 | 6/6 |
| | 4500 | 5000 | 4750 | 5000 | 4750 | 2441 | 5775 | 1595 | 1216 | 6/6 |
| | 4700 | 5000 | 4750 | 5000 | 4750 | 2507 | 5975 | 1661 | 1282 | 6/6 |
| | 5000 | 5000 | 4750 | 5000 | 4750 | 2640 | 6275 | 1794 | 1415 | 6/6 |
| | 6000 | 4480 | 4230 | 5000 | 4750 | 3005 | 7275 | 2159 | 1780 | 3/6 |

KBD/G 40-50S



For more heavy-duty applications, Baoli offers the Diesel-powered KBD 40 and KBD 50S trucks and the KBG 40 and KBG 50S with LPG engines. These forklifts are available with load capacities of 4.0 and 5.0 tonnes at 500 mm load centre. KBD/G 40-50S are available with Deutz and HDI EU5-compliant engines. For the markets where CE conformity is not required, it is possible to select Isuzu, Mitsubishi or Weichai Diesel engines and PSI LPG engines. The KBD 40-50S is extremely versatile and can be used in hard work environments as well as for very precise handlings. It is fitted with a very precise transmission, developed

by Baoli using KION Group technologies, and features a good visibility in any direction and a comfortable workplace. The KBD/G 40-50S are very manoeuvrable. They 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. The KBD/G 40-50S is designed to become the benchmark in terms of stability in its market segment. The very high residual capacities result in enhanced safety of the truck. An optimised and plain design ensures easy maintenance operations.

Technology

- ✓ High-quality hydrodynamic transmission
- ✓ Two speeds available for adapting to different applications
- ✓ 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.



Ergonomics and driver's workplace

- ✓ Robust driver's cabin for excellent visibility
- ✓ Reduced diameter steering wheel (300 mm) for excellent manoeuvrability
- ✓ Hydraulic levers to the right of the operator for maximum comfort
- ✓ Operator dashboard with multifunction display
- ✓ Adjustable seat and steering column
- ✓ Very spacious driver's seat and large operator footboard
- ✓ Half and full cabin available.

