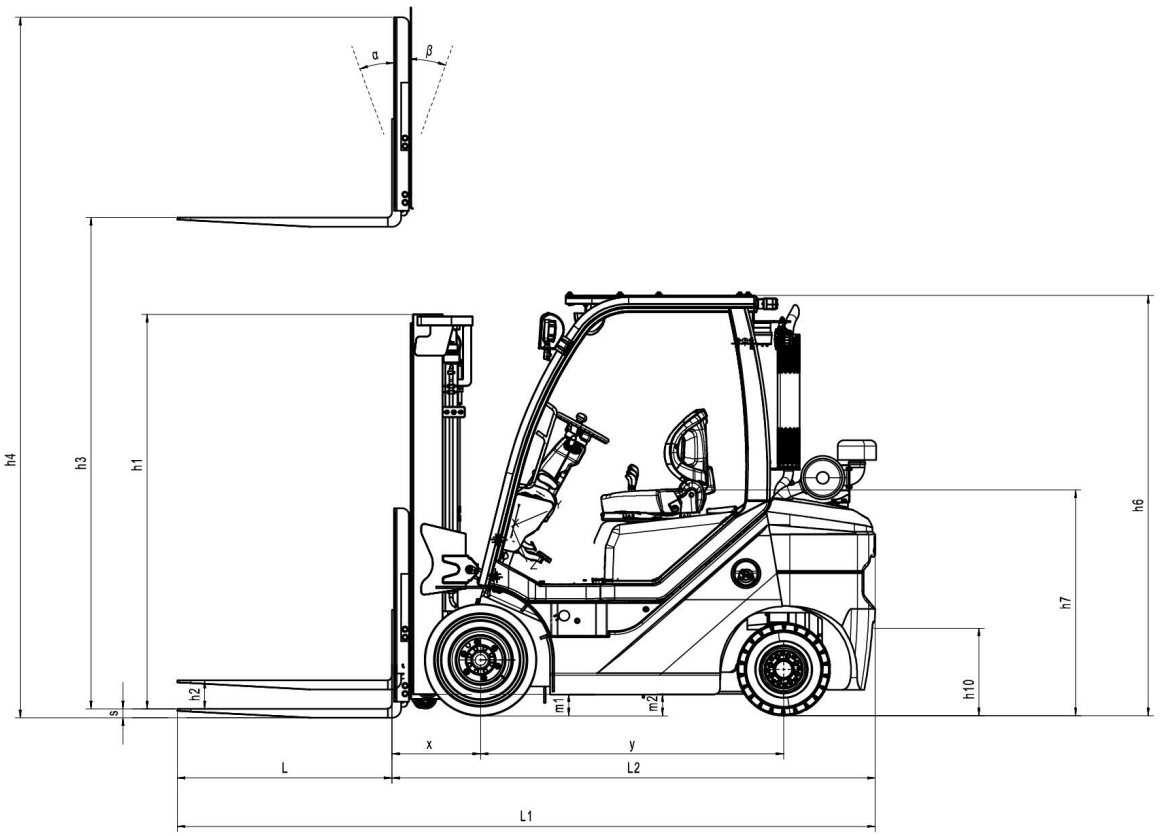
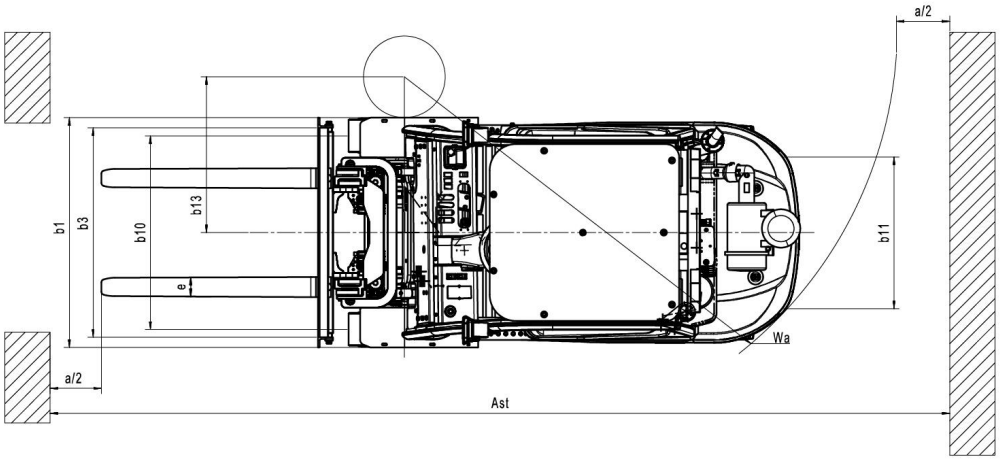
Baoli
KBD 15-20+

Baoli

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	α/β (°)	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


α
β
h4
h3
h1
h2
s
m1
m2
x
y
L
L2
L1
h10
h7
h6


a/2
b1
b3
b10
b13
e
b11
Wa
a/2
Ast

KBD 15+ EU5								
Mast type	H3	Capacity - Load center 500 mm	Capacity - Load center 500 mm - with Sideshift	H1	H4 with load backrest	H2 without load backrest	H2 with load backrest	Tilting angle Front/back
VM Tele	3000	1500	1380	2002	4041	128	128	6/12
	3300	1500	1380	2152	4341	128	128	6/12
	4000	1500	1380	2552	5041	128	128	6/8
	4500	1500	1380	2802	5541	128	128	6/6
	5000	1500	1380	3052	6041	128	128	3/6
VFM 2 stage	3000	1500	1380	2002	4041	1411	1001	6/12
	3500	1500	1380	2152	4541	1561	1151	6/12
	4000	1500	1380	2552	5041	1961	1551	6/8
VFHM triplex	4350	1500	1380	2102	5391	1489	1101	6/6
	4500	1500	1380	2152	5541	1539	1151	6/6
	4700	1500	1380	2217	5741	1604	1216	6/6
	4800	1500	1380	2252	5841	1639	1251	6/6
	5000	1350	1230	2395	6041	1782	1394	6/6
	5400	1100	980	2595	6441	1982	1594	3/6
	5500	1000	880	2629	6541	2016	1628	3/6
	6000	700	580	2862	7041	2249	1861	3/6

KBD 18+ EU5								
Mast type	H3	Capacity - Load center 500 mm	Capacity - Load center 500 mm - with Sideshift	H1	H4 with load backrest	H2 without load backrest	H2 with load backrest	Tilting angle Front/back
VM Tele	3000	1800	1680	2002	4041	128	128	6/12
	3300	1800	1680	2152	4341	128	128	6/12
	4000	1800	1680	2552	5041	128	128	6/8
	4500	1800	1680	2802	5541	128	128	6/6
	5000	1800	1680	3052	6041	128	128	3/6
VFM 2 stage	3000	1800	1680	2002	4041	1411	1001	6/12
	3500	1800	1680	2152	4541	1561	1151	6/12
	4000	1800	1680	2552	5041	1961	1551	6/8
VFHM triplex	4350	1800	1680	2102	5391	1489	1101	6/6
	4500	1800	1680	2152	5541	1539	1151	6/6
	4700	1800	1680	2217	5741	1604	1216	6/6
	4800	1800	1680	2252	5841	1639	1251	6/6
	5000	1650	1530	2395	6041	1782	1394	6/6
	5400	1400	1280	2595	6441	1982	1594	3/6
	5500	1300	1180	2629	6541	2016	1628	3/6
	6000	1000	880	2862	7041	2249	1861	3/6

KBD 20+ EU5								
Mast type	H3	Capacity - Load center 500 mm	Capacity - Load center 500 mm - with Sideshift	H1	H4 with load backrest	H2 without load backrest	H2 with load backrest	Tilting angle Front/back
VM Tele	3000	2000	1880	2002	4041	128	128	6/12
	3300	2000	1880	2152	4341	128	128	6/12
	4000	2000	1880	2552	5041	128	128	6/8
	4500	2000	1880	2802	5541	128	128	6/6
	5000	2000	1880	3052	6041	128	128	3/6
VFM 2 stage	3000	2000	1880	2002	4041	1411	1001	6/12
	3500	2000	1880	2152	4541	1561	1151	6/12
	4000	2000	1880	2552	5041	1961	1551	6/8
VFHM triplex	4350	2000	1880	2102	5391	1489	1101	6/6
	4500	2000	1880	2152	5541	1539	1151	6/6
	4700	2000	1880	2217	5741	1604	1216	6/6
	4800	2000	1880	2252	5841	1639	1251	6/6
	5000	1850	1730	2395	6041	1782	1394	6/6
	5400	1600	1480	2595	6441	1982	1594	3/6
	5500	1500	1380	2629	6541	2016	1628	3/6
	6000	1150	1030	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 Doosan engines. For markets where CE conformity is not required, a Diesel engine by Isuzu is also available.
The KBG+ are available with CE-compliant Deutz LPG engines and GCT LPG engines for the markets where CE conformity is not required.
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
- Engine (Diesel): Doosan D24 (EU5) or Isuzu C240 (CE conformity is not required)
- Engine (LPG): Deutz G2.2 (EU5) or GCT K21 (CE conformity is not required).

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.