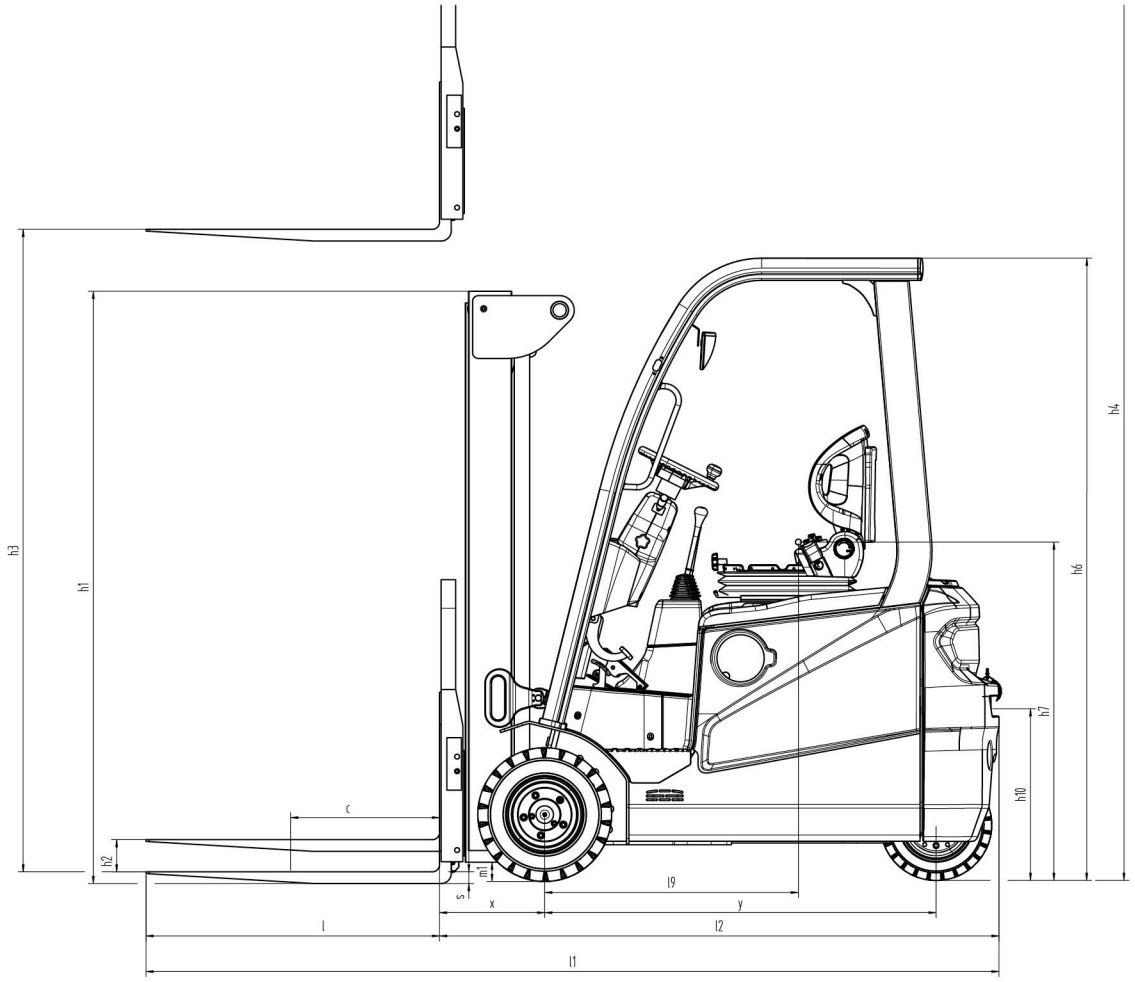
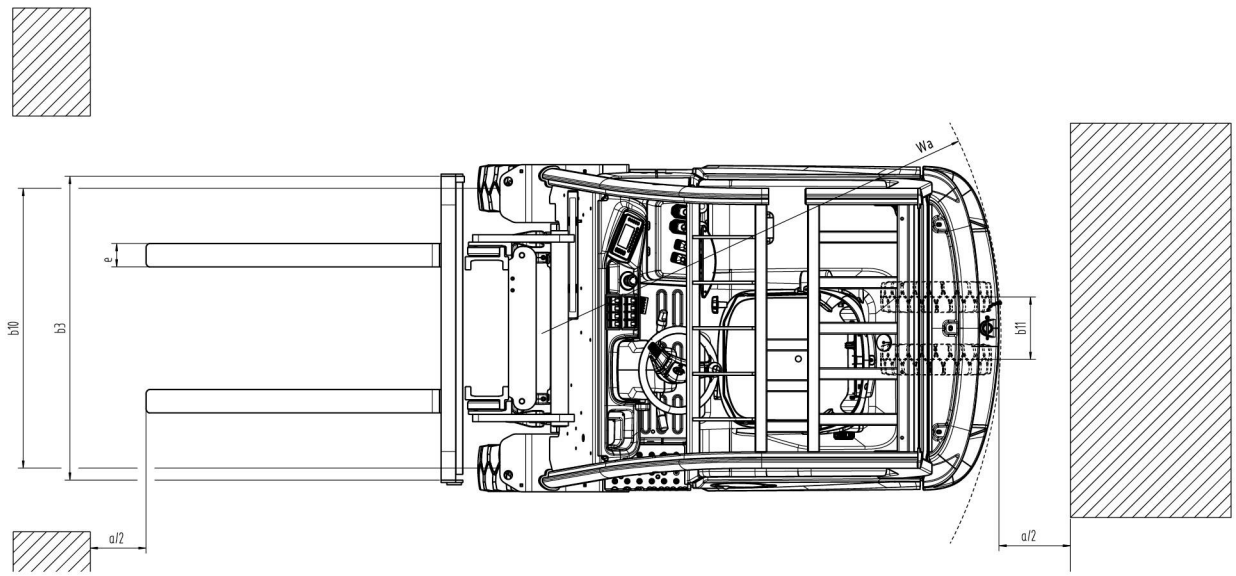
Baoli
KBET 15-20Li

Baoli

1.1	Manufacturer		KION BAOLI	KION BAOLI	KION BAOLI
1.2	Manufacturer's type designation		KBET 15Li G1	KBET 18Li G1	KBET 20Li G1
1.3	Drive: electric, diesel, petrol, fuel gas		Electric	Electric	Electric
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)	360	360	360
1.9	Wheelbase	y (mm)	1340	1340	1370
2.1	Service weight	Kg	2980	3300	3500
2.2	Axle loading, laden front/rear	Kg	3945/535	4470/630	4819/687
2.3	Axle loading, unladen front/rear	Kg	1465/1515	1480/1820	1536/1964
3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Solid rubber	Solid rubber	Solid rubber
3.2	Tyre size, front		18×7-8 SE	200/50-10 SE	200/50-10 SE
3.3	Tyre size, rear		15×4 1/2-8 SE	140/55-9 SE	16×6-8 SE
3.5	Wheels, number front/rear (x = driven wheels)		2× /2	2× /2	2× /2
3.6	Tread, front	b10 (mm)	948	978	978
3.7	Tread, rear	b11 (mm)	216	220	220
4.1	Tilt of mast/fork carriage forward/backward	α/β (°)	6/7	6/7	6/7
4.2	Height, mast lowered	h1 (mm)	2050	2050	2050
4.3	Free lift	h2 (mm)	150	150	150
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)	2130	2130	2130
4.8	Seat height/stand height	h7 (mm)	1154	1156	1156
4.12	Coupling height	h10 (mm)	588	588	600
4.19	Overall length	l1 (mm)	3128	3128	3165
4.20	Length to face of forks	l2 (mm)	1928	1928	1965
4.21	Overall width	b1/b2 (mm)	1120	1180	1180
4.22	Fork dimensions ISO 2331	s/e/l (mm)	40×100×1200	40×100×1200	40×100×1200
4.23	Fork carriage ISO 2328, class/type A, B		2A	2A	2A
4.24	Fork carriage width	b3 (mm)	1040	1040	1040
4.31	Ground clearance, laden, below mast	m1 (mm)	96	96	96
4.32	Ground clearance, centre of wheelbase	m2 (mm)	100	100	100
4.34.1	Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	3251	3251	3296
4.34.2	Aisle width for pallets 800 x 1200 lenghtways	Ast (mm)	3375	3375	3420
4.35	Turning radius	Wa (mm)	1565	1565	1610
4.36	Internal turning radius	b13 (mm)	-	-	-
5.1	Travel speed, laden/unladen	km/h	16/16	16/16	16/16
5.2	Lift speed, laden/unladen	m/s	0.44/0.53	0.40/0.53	0.35/0.53
5.3	Lowering speed, laden/unladen	m/s	0.45/0.46	0.43/0.46	0.42/0.46
5.8	Max gradeability, laden/unladen	%	18/20	18/20	18/20
5.10	Service brake		Mech/Hydr	Mech/Hydr	Mech/Hydr
6.1	Drive motor rating S2 60 min	kW	4.6×2	4.6×2	4.6×2
6.2	Lift motor rating at S3 15%	kW	11.5	11.5	11.5
6.4	Battery voltage/nominal capacity K5	V/Ah	76.8 /228	76.8 /228	76.8 /228
6.5	Battery weight	kg	210	210	210
6.6	Energy consumption according to VDI cycle	kWh/h	4.3	4.4	4.6
10.1	Operating pressure for attachments	bar	150	170	185
10.7	Sound pressure level at driver's seat	dB (A)	68	68	68


h3
h1
h2
h4
h6
h7
h10
c
m1
s
x
l9
y
l
l2
l1


Wa
e
b10
b3
b11
a/2
a/2

KBET 15Li G1								
Mast type	H3	Capacity - Load center 500 mm	Capacity - Load center 500 mm - with IntegSideshift	Capacity - Load center 500 mm - with Hang on Sideshift	H1	H4	H2	Tilting angle Front/back
VM Tele	3000	1500	1500	1300	2068	4040	150	6/7
	3300	1500	1500	1300	2218	4340	150	6/7
	3500	1500	1500	1300	2318	4540	150	6/7
	4000	1500	1480	1240	2568	5040	150	6/7
	4500	1500	1250	1080	2818	5540	150	6/7
	5000	1200	1050	900	3118	6040	150	6/7
VFM 2 stage	3000	1500	1500	1300	2041	4040	990	6/7
	3300	1500	1500	1300	2191	4040	990	6/7
	3500	1500	1500	1300	2291	4540	1240	6/7
	4000	1500	1480	1240	2541	5040	1490	6/7
VFHM triplex	4250	1500	1260	1070	2041	5040	1490	6/7
	4550	1300	1150	970	2141	5590	1090	6/7
	4700	1260	1100	920	2191	5740	1140	6/7
	4850	1210	1050	870	2241	5890	1190	6/7
	5000	1160	1000	820	2291	6040	1240	6/7
	5500	1000	820	660	2541	6540	1490	6/7
	6000	840	650	490	2791	7040	1740	6/7
	6500	700	500	350	3033	7540	1990	6/7

KBET 18Li G1								
Mast type	H3	Capacity - Load center 500 mm	Capacity - Load center 500 mm - with IntegSideshift	Capacity - Load center 500 mm - with Hang on Sideshift	H1	H4	H2	Tilting angle Front/back
VM Tele	3000	1800	1800	1600	2068	4040	150	6/7
	3300	1800	1800	1600	2218	4340	150	6/7
	3500	1800	1800	1600	2318	4540	150	6/7
	4000	1800	1770	1570	2568	5040	150	6/7
	4500	1800	1440	1240	2818	5540	150	6/7
	5000	1300	1150	950	3118	6040	150	6/7
VFM 2 stage	3000	1800	1800	1600	2041	4040	990	6/7
	3300	1800	1800	1600	2191	4040	990	6/7
	3500	1800	1800	1600	2291	4540	1240	6/7
	4000	1800	1770	1570	2541	5040	1490	6/7
VFHM triplex	4250	1680	1500	1310	2041	5040	1490	6/7
	4550	1560	1370	1180	2141	5590	1090	6/7
	4700	1500	1300	1120	2191	5740	1140	6/7
	4850	1440	1240	1060	2241	5890	1190	6/7
	5000	1380	1170	1000	2291	6040	1240	6/7
	5500	1180	960	790	2541	6540	1490	6/7
	6000	980	740	580	2791	7040	1740	6/7
	6500	800	550	400	3033	7540	1990	6/7

KBET 20Li G1								
Mast type	H3	Capacity - Load center 500 mm	Capacity - Load center 500 mm - with IntegSideshift	Capacity - Load center 500 mm - with Hang on Sideshift	H1	H4	H2	Tilting angle Front/back
VM Tele	3000	2000	2000	1750	2068	4040	150	6/7
	3300	2000	2000	1750	2218	4340	150	6/7
	3500	2000	2000	1750	2318	4540	150	6/7
	4000	2000	1840	1600	2568	5040	150	6/7
	4500	1740	1530	1310	2818	5540	150	6/7
	5000	1400	1250	1050	3118	6040	150	6/7
VFM 2 stage	3000	2000	2000	1750	2041	4040	990	6/7
	3300	2000	2000	1750	2191	4040	990	6/7
	3500	2000	2000	1750	2291	4540	1240	6/7
	4000	2000	1840	1600	2541	5040	1490	6/7
VFHM triplex	4250	1880	1710	1480	2041	5040	1490	6/7
	4550	1760	1580	1370	2141	5590	1090	6/7
	4700	1700	1520	1310	2191	5740	1140	6/7
	4850	1640	1460	1250	2241	5890	1190	6/7
	5000	1580	1400	1200	2291	6040	1240	6/7
	5500	1380	1190	1010	2541	6540	1490	6/7
	6000	1180	980	820	2791	7040	1740	6/7
	6500	1000	800	650	3033	7540	1990	6/7

KBET 15-20Li

The KBET 15Li, KBET 18Li, and KBET 20Li, with a load capacity ranging from 1,5 to 2,0 tons and a maximum lifting height of 6,5 meters, are the latest Baoli three-wheeled trucks.
The KBET series excels in easy handling in narrow spaces thanks to its compact design and twin front electric motors; the turning radius is only 1,6 meters.
KBET is powered by lithium-ion battery (80 Volt / 228 Ah), which offer numerous advantages. The lithium-ion batteries allow for quick interim charges, ensuring increased truck availability; additionally, they are virtually maintenance-free and eliminate the risk of hazardous gases during charging.
The two traction electric motors and the lifting motor are equipped with alternating current (AC) technology and therefore do not require maintenance. Compared to previous 3-wheel models, the KBET 15-20Li achieves higher travel speeds; additionally, it offers a remarkable improvement in energy consumption, showcasing a commitment to sustainability.

The KBET series is equipped with wet brakes, offering the main advantage of significantly lower maintenance requirements compared to trucks with drum brakes.
The cabin has been designed with a focus on safety and comfort. A metal grid step and a large handle ensure safe entry and exit from the driver's compartment. The operator benefits from two storage compartments, along with two USB ports for charging small electronic devices. The electronic forward / reverse switch allows for fast and easy changes in driving direction, enhancing maneuverability. The rear handhold with an integrated horn ensures safe reversing, prioritizing a secure working environment.
The trucks come standard with a foot-activated parking brake; in comparison to the traditional hand parking brake, the foot-activated solution requires less effort to engage and disengage and ensures easier access and exit from the driver's compartment.
A color screen display, providing all the key information at a glance, allows for easy and quick control over the truck's status.

Technology

- Compact size enables maneuverability in tight spaces (1,6 meter turning radius).
- Lithium-ion battery for increased truck availability.
- Maintenance-free battery.
- No hazardous gases emitted during charging.
- AC technology motors for maintenance-free operation.
- Enhanced performance.
- Low energy consumption.
- Wet brakes ensuring low maintenance costs.

Ergonomics and driver's workplace

- Metal grid step and large handle for safe entry and exit from the driver's compartment.
- Electronic forward/reverse switch for fast and easy changes in driving direction.
- Rear handhold with horn for safe reversing.
- Foot-activated parking brake: less effort for engagement/ disengagement, easier access to the driver's compartment.
- Color screen display for quick access to key truck information, ensuring easy control.
- Availability of half and full cabin options.