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# Counterbalanced Forklift 3,500 lb. Capacity

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KBET18  
48V Electric Forklift Truck

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# Technical Data

November 2016

	POS	ITEM DESCRIPTION		UNIT	METRIC	UNIT	IMPERIAL
Distinguishing mark	1.1	Manufacturer			BAOLI		BAOLI
	1.2	Model designation			KBET18/4.7m-triplex		KBET18/4.7m-triplex
	1.2.1	Chassis configuration			3-Wheel		3-Wheel
	1.3	Power unit: battery, diesel, LP, gas			Electric		Electric
	1.4	Operation: manual, pedestrian, rider standing, rider seated, order picker			Seated		Seated
	1.5	Rated capacity/rated load	Q	kg	1600	lb	3500
	1.6	Load center distance	c	mm	600	in	24
	1.8	Load distance, center of drive axle to fork	x	mm	375	in	14.7
	1.9	Wheel base	y	mm	1295	in	51
Weight	2.1	Service weight (with battery)		kg	3700	lb	8150
	2.1a	Service weight (without battery)		kg	2880	lb	6350
	2.2	Axle loading, with load front/rear		kg	5160/320	lb	11375/705
	2.3	Axle loading, without load front/rear		kg	1900/1800	lb	4190/3970
Tires/chassis	3.1	Tire type: cushion, cushion super elastic, pneumatic			S/E		S/E
	3.2	Tire size, front			18x7-8		18x7-8
	3.3	Tire size, rear			16x6-8		16x6-8
	3.5	Wheels, number front/rear (x = driven wheels)			2x/2		2x/2
	3.6	Tread, front	b10	mm	890	in	35
	3.7	Tread, rear	b11	mm	205	in	8
	Basic dimensions	4.1	Mast/fork carriage tilt forward/backward	$\alpha / \beta$	°	5/5	°
4.2		Height of mast lowered	h1	mm	2185	in	86
4.3		Free lift	h2	mm	1185	in	46.6
4.4		Lift	h3	mm	4700	in	185
4.5		Height of mast extended	h4	mm	5542	in	218
4.7		Height of overhead guard (cabin)	h6	mm	2015	in	79
4.8		Seat height relating to SIP/stand height	h7	mm	958	in	38
4.12		Height of tow coupling	h10	mm	600	in	24
4.19		Overall length	l1	mm	2965	in	116.7
4.20		Length to fork face	l2	mm	1895	in	74.6
4.21		Overall width	b 1/b 2	mm	1066	in	42
4.22		Fork dimensions DIN ISO 2331	s / e / l	mm	35*120*1070	in	1.4*4.7*42
4.23		Fork carriage: class			Class II		Class II
4.24		Fork carriage: width	b3	mm	968	in	38.1
Performance		4.31	Ground clearance under mast, with load	m1	mm	120	in
	4.32	Ground clearance, center of wheelbase	m2	mm	110	in	4.3
	4.33	Aisle width with pallet 40" x 48" across forks	Ast	mm	3240	in	127.6
	4.35	Turning radius	Wa	mm	1550	in	61
	5.1	Travel speed, with/without load		km/h	14/15.5	mph	8.7/9.6
	5.2	Lift speed, with/without load		m/s	0.28/0.45	fpm	55/88.6
	5.3	Lowering speed, with/without load		m/s	0.46/0.42	fpm	90.5/82.7
	5.5	Drawbar pull, with/without load		kN	8.7	lbf	1956
Electric engine	5.7	Gradeability, with/without load		%	20/20	%	20/20
	5.10	Service brake			Electric/mechanical		Electric/mechanical
	6.1	Drive motor rating (60 min. rating)		kW	2x6.5	kW	2x6.5
	6.2	Lift motor (15% rating)		kW	15	kW	15
	6.3	Battery compartment dimension (l x w x h)		mm	975/553/590	in	38.4/21.75/23.2
	6.4	Battery voltage	U	V	48	V	48
	6.4.1	nominal capacity K5	K5	Ah	505/525/595	Ah	505/525/595
Misc.	6.5	Battery weight		kg	810~920	lb	1786~2028
	10.1	Operating pressure for attachments		bar	160	bar	160
	10.7	Sound pressure level at the driver's seat		dB(A)	≤75	dB(A)	≤75
		Drive control			AC		AC

\* Maximum battery height should not exceed 23.2 in. (590 mm)

## Performance

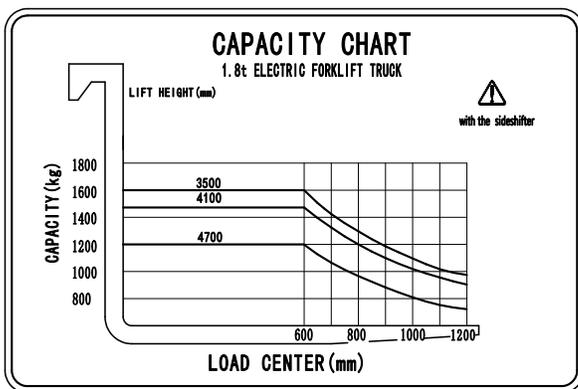
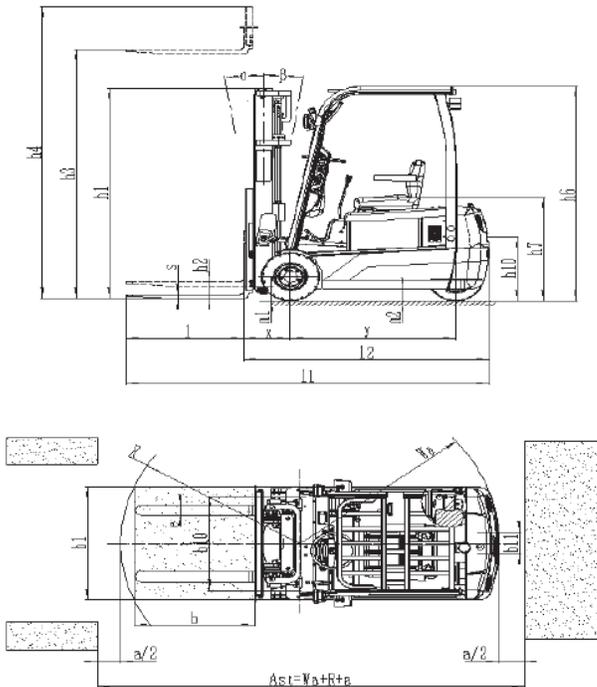
The AC dual-drive motors with SME controllers provide excellent power and increase productivity. The energy-efficient design allows for continuous operation during day-to-day jobs. The compact design allows for ease of maneuverability in narrow aisles.

## Quality & Support

Optimized standard specifications allow Baoli to offer higher quality trucks and parts than the competition. Baoli forklifts come with the KION NA Standard Warranty and 12-month return on initial parts orders without penalty; the warranty excludes maintenance parts.

## Service Network

Fully integrated into the KION North America supply and service chain and service system, Baoli provides shared resources from within the KION Group brands and offers a well-developed sales and service network. With Baoli spare parts in stock at the KION NA warehouse, spare parts delivery is possible within 24 hours throughout the U.S. on special demand.



## Standard Equipment

- Solid, super elastic drive and steer tires
- Triplex mast
- 185-inch lift height
- Class II hang-on sideshifter
- Hook type Class II forks
- Overhead guard 79-inch height
- 5-degree forward, 5-degree backwards tilt
- Rear pillar assist with horn
- Left and right external rear view mirrors
- Overhead guard entry grip
- Third function valve
- Third function reeving triple mast
- Three individual hydraulic control levers
- Back up alarm and strobe light
- Overhead mounted LED spotlights
- Comfort suspension seat
- Tilting adjustable steering column
- Operating instruction / finish and marking
- Standard KION NA Warranty



## Motors

- AC power
- Dual-drive motors
- SME controller



## Truck Design

- Compact design for narrow aisles
- Low center of gravity
- Standard KION structure painting



## Operator Compartment

- Comfort suspension seat
- Ergonomically designed
- Fully adjustable



## Maintenance

- Almost zero maintenance required
- Easy access for battery maintenance
- Nearly 90-degree opening for battery compartment

KION North America Corporation  
2450 West 5th North Street, Summerville, SC 29483  
Phone: 843 875 8000 Truck Sales Fax: 843 875 8471  
E-mail: trucksales.na@kiongroup.com  
www.kion-na.com

Standard truck meets all applicable mandatory requirements of ANSI/ITSDF B56.1 standards for powered industrial trucks. NOTE: Performance data may vary due to motor and system efficiency tolerances. The performance depicted represents nominal values obtained under typical operating conditions. Metric dimensions are in millimeters unless otherwise specified. All metric dimensions are not direct equivalents due to rounding data. The descriptions and specifications included on this data sheet were in effect at the time of printing. KION North America Corporation reserves the right to make improvements and changes in specification or design without notice and without incurring obligation. Please check with your authorized Baoli dealer for information on possible updates or revisions.