



TKA SERIES - 1.0-1.5 TONNE 3-WHEEL ELECTRIC
COUNTERBALANCE FORKLIFTS



TKA Series – 3-Wheel Electric Counterbalance Forklift – Capacity 1,000 – 1,500 Kgs | Lift Height: 3.0m up to 4.5m

The TKA Series is a compact and agile 3-wheel electric counterbalance forklift, designed for tight turning spaces and high-efficiency handling in confined warehouse environments. With lift heights up to 4.8 metres and capacities of 1.0 or 1.5 tonnes, the TKA is ideal for narrow aisle work, retail logistics, and light-to-medium duty stacking tasks. Equipped with dual-drive AC motors, regenerative braking, and a tight turning radius, the TKA Series offers excellent manoeuvrability, low operating noise, and responsive control — all while delivering zero-emission performance.

Ideal for:

- Warehouses with limited space or tight aisles
- Indoor stacking, loading, and pallet movement
- Operators needing compact handling with full counterbalance versatility

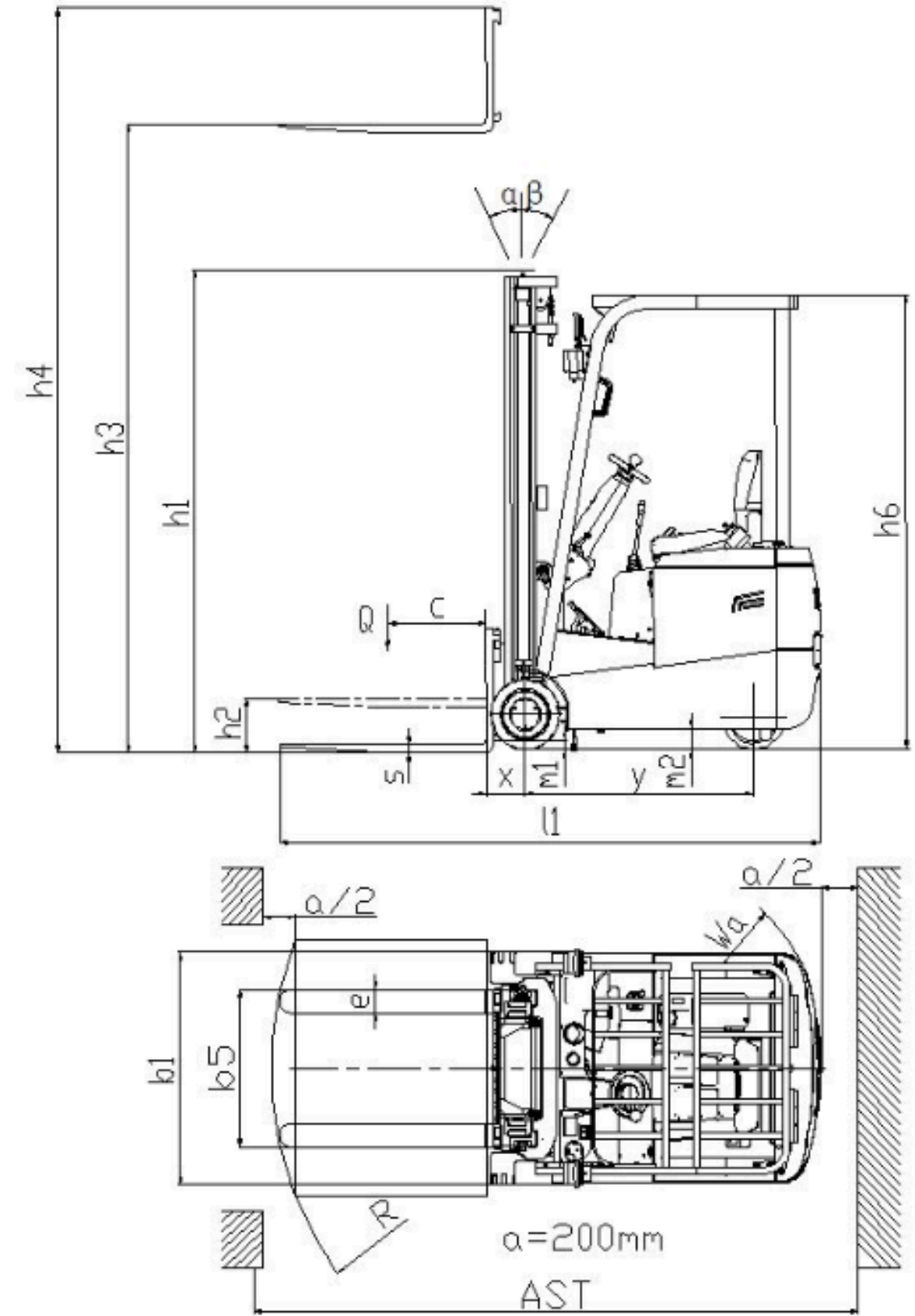


Technical Parameter

Characteristics	1.1	Manufacturer		MIMA	MIMA	MIMA
	1.2	Model		TKA10	TKA15	TKA15
		Technical code		1KA10S	1KA15S	1KA15M
	1.3	Power type		Battery	Battery	Battery
	1.4	Operation		Seated	Seated	Seated
	1.5	Load capacity	Q(kg)	1000	1500	1500
	1.6	Load center distance	C(mm)	500	500	500
	1.7	Front overhang	x(mm)	168	168	175
Weights	1.8	Wheelbase	y(mm)	975~990~1020	1127~1142~1172	996~1018~1060
	2.1	Service Weight(incl./excl. battery)	kg	1700	1990	2250
	2.2	Axle loading, laden front/rear	kg	335 /2365	390/3170	350/3400
	2.3	Axle loading, unladen front/rear	kg	1045 /655	1250/750	1450/800
Wheels	3.1	Tyre type		Polyurethane	Polyurethane	Solid rubber/Polyurethane
	3.2	Tyre size, front		φ285×100	φ285×100	φ305×140
	3.3	Tyre size, rear		φ230×110	φ280×135	φ280×135
	3.4	Wheels,number front/rear (X=driven)		2 / 1X	2 / 1X	2 / 1X
	3.5	Track width, front	b10(mm)	804	804	870
	3.6	Track width, rear	b11(mm)	/	/	/
Dimensions	4.1	Mast tilt angle front/rear	α/β(°)	2/4	2/4	2/4
	4.2	Mast retracted height	h1(mm)	Refer to mast parameter	Refer to mast parameter	Refer to mast parameter
	4.3	Free Lift height	h2(mm)	90	90	/
	4.4	Lift height	h3(mm)	3000	3000	3000
	4.5	Mast extended height	h4(mm)	Refer to mast parameter	Refer to mast parameter	Refer to mast parameter
	4.6	Overhead guard height	h6(mm)	1965	1965	1965
	4.7	Seat height	h7(mm)	930	930	930
	4.8	Tow hoisting height	h10(mm)	/	/	/
	4.9	Overall length	L1(mm)	2330	2496	2450
	4.10	Length to fork face	L2(mm)	1410	1576	1495
	4.11	Overall width	b1/b2(mm)	912	912	1010
	4.12	Fork dimensions	l/e/s(mm)	920/100/35	920/100/35	920/100/35
	4.13	Installation level(ISO2328)		2A	2A	2A
	4.14	Fork carriage width	b3(mm)	620	620	680
	4.15	Fork outside spread(max-min)	b5(mm)	620~220	620~220	680~220
	4.16	Ground clearance below mast	m1(mm)	90	90	70
	4.17	Ground clearance,body	m2(mm)	90	90	85
	4.18	Aisle width with pallet 1000*1200mm,	Ast(mm)	2760	2925	2845
	4.19	Aisle width with pallet 800*1200mm,	Ast(mm)	2870	3037	2960
	4.20	More stacking aisle width	Ast(mm)	Refer to aisle parameter	Refer to aisle parameter	Refer to aisle parameter
	4.21	Turning radius	Wa(mm)	1255	1415	1325
Performance	5.1	Travelling speed, laden/unladen	km/h	6/7	6/7	6/7
	5.2	Travelling speed, laden/unladen backward	km/h	/	/	/
	5.3	Lift speed, laden/unladen	mm/s	85/105	125/200	125/225
	5.4	Lowering speed, laden/unladen	mm/s	300/250	300/250	350/300
	5.5	Tractive force, laden/unladen	N	/	/	/
	5.6	Gradeability, laden/unladen	%	8/10	5/10	8/10
	5.7	Speeding time(10m), laden/unladen	S	/	/	/
	5.8	Brake, Traveling		Mechanical	Mechanical	Mechanical
	5.9	Brake, Parking		Electromagnetic	Electromagnetic	Electromagnetic
Drive	6.1	Drive motor, rating S2=60	kw	AC1.5	AC2.3	AC2.5
	6.2	Lift motor, rating S3=15%	kw	DC2	DC3	DC3.5
	6.3	Lead acid battery voltage/capacity(standard)	V/Ah	24/300	24/350	24/480
	6.4	Lithium battery voltage/capacity(option)	V/Ah	24/200	24/200	24/300
	6.6	Lead acid battery weight(standard)	kg	277	290	370

- Note:
1. The parameters of traveling speed, lifting and lowering speed, climbing ability, etc. noted in the above table are for the standard model of duplex mast;
 2. The data of series standard models will be changed according to the different configurations;

2D View



Load Parameter Table TKA10S

Mast type	Mast mode I	Lifting height t mm	Capacity									
			kg									
	C(mm)➤@		500	550	600	650	700	750	800	850	900	
Duplex mast												
	40L	4000	400	350	290	240	140	90				
	37L	3700	600	540	470	400	290	240	120	70		
	35L	3500	750	680	600	520	410	350	230	170	90	
	33L	3300	830	750	670	590	470	400	280	220	140	
	30L	3000	1000	910	800	730	600	530	400	340	250	

Load Parameter Table TKA15S

Mast type	Mast mode I	Lifting height t mm	Capacity									
			kg									
	C(mm)➤@		500	550	600	650	700	750	800	850	900	
Duplex mast												
	35L	3500	1100	970	860	740	620	510	400	330	230	
	33L	3300	1300	1160	1030	900	770	660	540	460	350	
	30L	3000	1500	1350	1200	1060	920	800	680	590	480	

1KA15S Max lift height 3500mm

Load Parameter Table TKA15M

Mast type	Mast mode I	Lifting height t mm	Capacity									
			kg									
	C(mm)➤@		500	550	600	650	700	750	800	850	900	
Duplex mast												
	45L	4500	600	510	410	320	220	150	60			
	40L	4000	800	690	590	480	380	290	190	130	40	
	37L	3700	920	810	690	580	470	380	280	210	120	
	35L	3500	1100	970	850	730	610	510	400	320	230	
	33L	3300	1300	1160	1020	890	760	660	540	460	360	
	30L	3000	1500	1350	1200	1060	920	800	680	590	480	

Mast Parameter Table TKA10S

Mast type	Mast model	Lifting height	Mast retracted height	Mast extended height	Free lifting height (with standard blocking shelf)		Mast tilt angle
					mm		(°)
Duplex mast							
	40L	4000	2545	4530	110	140	2/4
	37L	3700	2345	4230	110	140	2/4
	35L	3500	2245	4030	110	140	2/4
	33L	3300	2145	3830	110	140	2/4
	30L	3000	1995	3530	110	140	2/4
	27L	2700	1845	3230	110	140	2/4
	25L	2500	1745	3030	110	140	2/4

Mast Parameter Table TKA15S

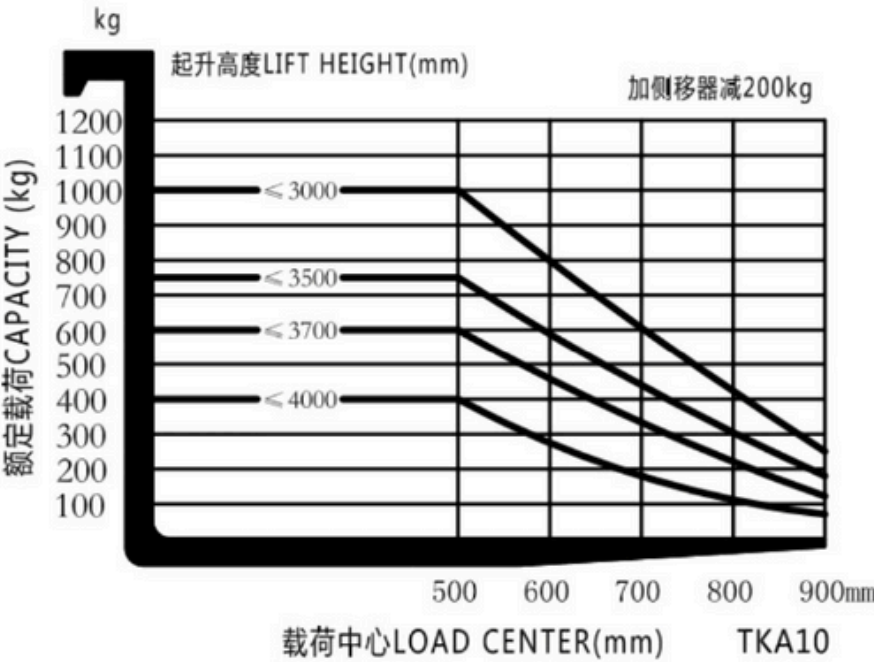
Mast type	Mast model	Lifting height	Mast retracted height	Mast extended height	Free lifting height (with standard blocking shelf)		Mast tilt angle
					mm		(°)
Duplex mast							
	35L	3500	2245	4030	110	140	2/4
	33L	3300	2145	3830	110	140	2/4
	30L	3000	1995	3530	110	140	2/4
	27L	2700	1845	3230	110	140	2/4
	25L	2500	1745	3030	110	140	2/4

TKA15S Max lift height 3500mm

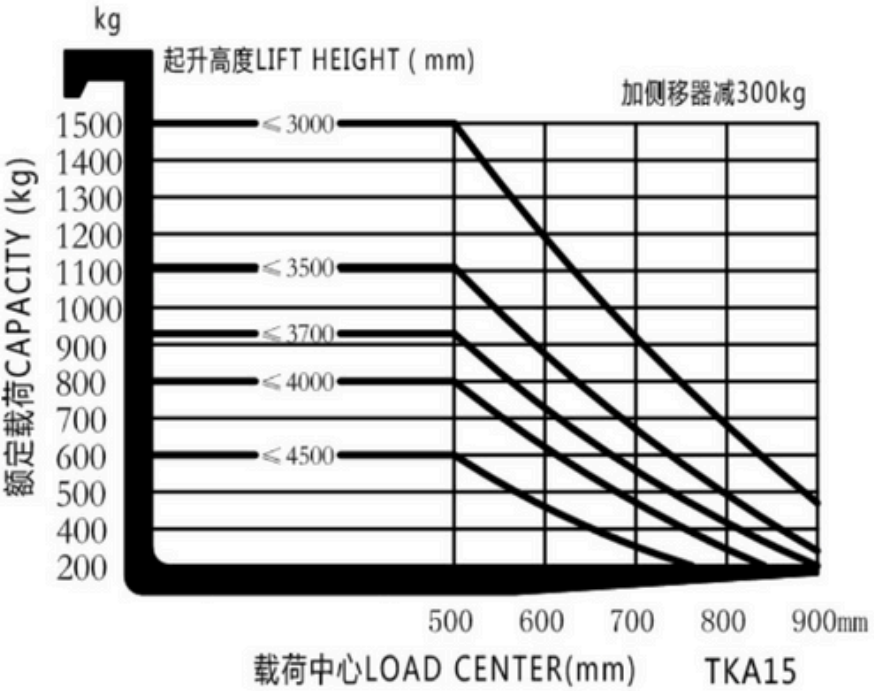
Mast Parameter Table TKA15M

Mast type	Mast model	Lifting height	Mast retracted height	Mast extended height	Free lifting height (with standard blocking shelf)		Mast tilt angle
					mm		(°)
Duplex mast	45L	4500	2865	5110			
	40L	4000	2615	4610	/	140	2/4
	37L	3700	2415	4260	/	140	2/4
	35L	3500	2315	4060	/	140	2/4
	33L	3300	2215	3860	/	140	2/4
	30L	3000	2065	3560	/	140	2/4
	27L	2700	1915	3260	/	140	2/4
	25L	2500	1815	3060	/	140	2/4
Triplex mast	45S	4500	2100	5180	/	760	2/4

CAPACITY CHART



CAPACITY CHART



Note: 1. 300kg load reduction when external side shifter is added; 120kg load reduction when built-in side shifter is added to 1KA10S; 200kg load reduction when built-in side shifter is added to 1KA15S/1KA15M.
2. The comprehensive load capacity of adding other attachments should be recalculated;