

ELECRIC COUNTERBALANCE FORKLIFT TRUCK

MK15/20/25/30 MK35/40/45/50

MiMA[®]
Min Space, Max Performance

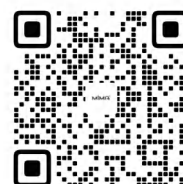
BANYITONG SCIENCE & TECHNOLOGY DEVELOPING CO.,LTD.

Add: Crossing of Dai he Road and Cailun Road,Hefei,China

Tel: +86 551 6219 3112

Email: sales@mimachina.com

Website: www.mimaforklift.com



Website





6000mm
Max. lifting height

MK series is a type of front-drive 4 wheels counterbalanced forklift with capacities of 1500 to 5000kg, horizontally-mounted design. It adopts a large-speed ratio drive axle box assembly, higher work efficiency. The optimized vehicle body structure is welded with high-quality steel plates, with a large arc streamlined appearance, advanced baking paint technology, mature and reliable accessories, which improve the cost-effectiveness of the whole vehicle and meet the needs of customers in various working conditions.



**AC
Drive**

Equipped with AC drive motor, reasonable use of the regenerative braking function of AC drive motor to improve safety. At the same time, it can be reverse charged and maintenance-free



Environmental protection/Low noise/Cost saving

MiMA Electric forklift(2000kg)

Charging 1 hour consumes about 3.5 KW · h, fully charged consumes about 32 KW · h

The cost of one hour's work is about 0.8 US dollars

The full charged battery can work about 8 hours. The cost is about 6.4 US dollars

The working time is about 1000 hours for one year and the cost is about 800 US dollars.

Diesel forklift (2000kg)

In general, the fuel consumption is 5L per hour

The cost of one hour's work is about 5.0 US dollars

The cost of working 8 hours is about 40 US dollars

If the diesel forklift working 1000 hours for one year, the cost is about 5000 US dollars.

**Saving 4200
US dollars
per year**



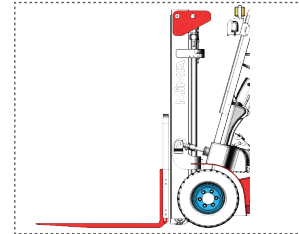
Adapt to various attachments which can meet the needs of various industries



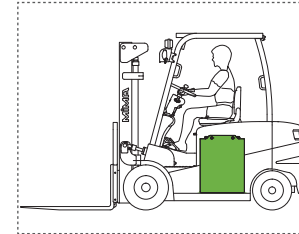
Li-ION (OPTION)

- Energy consumption >30% lower
- 5 years warranty, battery life up to 10 years
- Sealed design, maintenance free
- Fast charging, 2 hours can be fully charged, no backup battery required
- The LiFePO4 batteries are the safest type of Lithium batteries

PERFORMANCE



With small front overhang design and light weight, work stability is improved and work time becomes longer with lower energy consumption.



The driving motor is arranged horizontally, and the battery is sunk at the bottom of the vehicle to improve the driving stability.



Adopt large speed ratio drive axle box assembly to improve work efficiency, climbing ability, reduce energy consumption and noise.

PERFORMANCE



New large screen LED instrument, good visibility, intuitive reading, friendly human-computer interface.

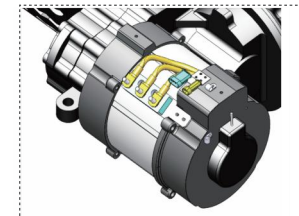


Ergonomic anti-fatigue seat which can be adjusted at multiple angles according to the driver's needs.



The operator can adjust the steering wheel according to his position

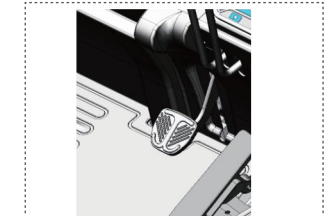
SAFETY



AC drive and regenerative braking



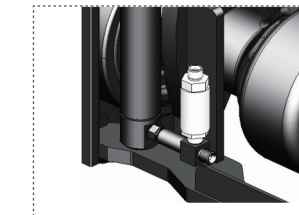
Hand brake



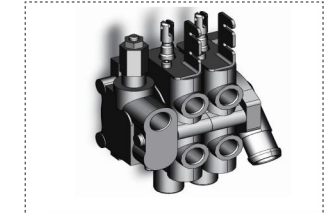
Foot hydraulic pedal brake



Quick cut-off valve



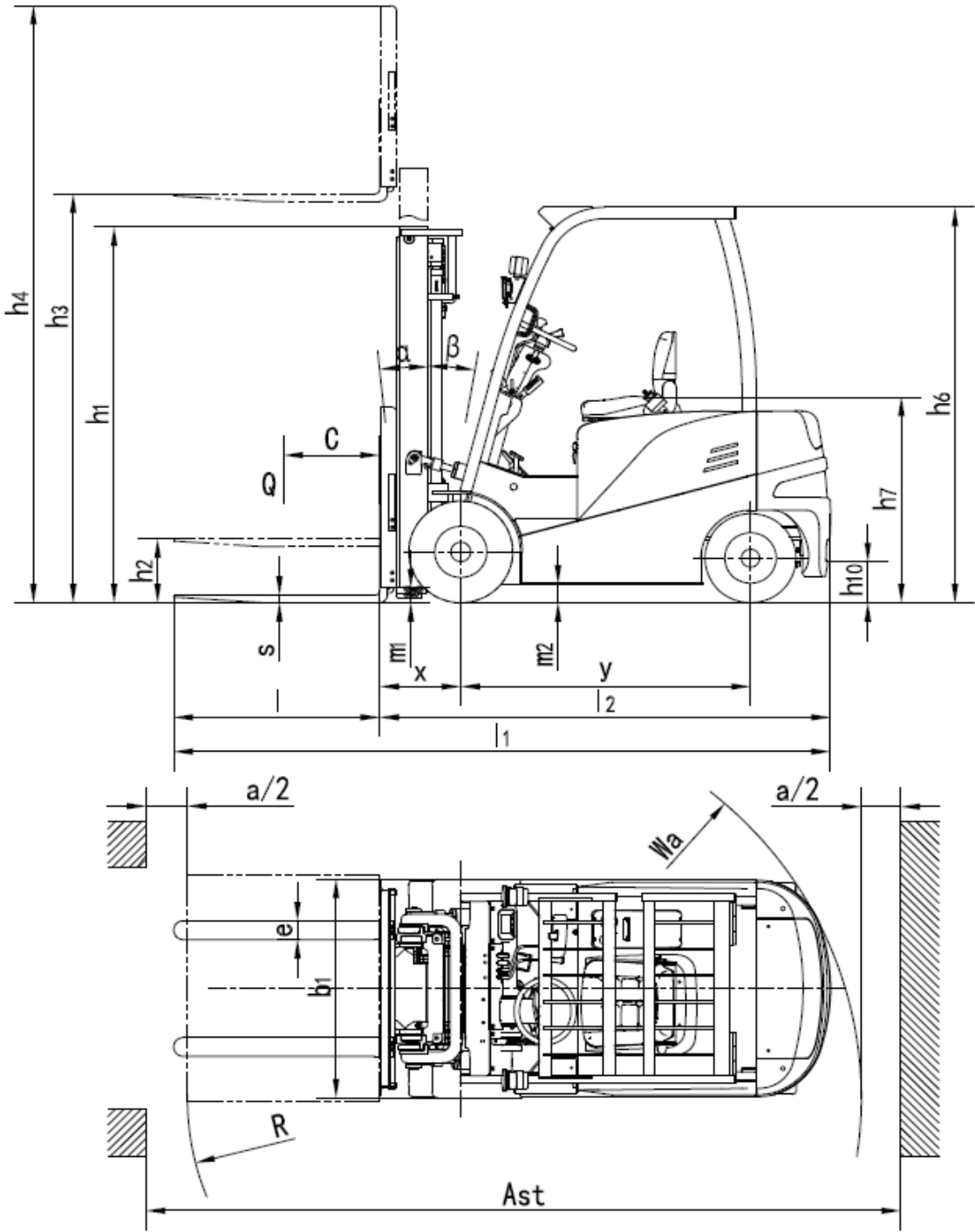
Lowering speed limit valve



Tilt lock valve
Overload relief valve

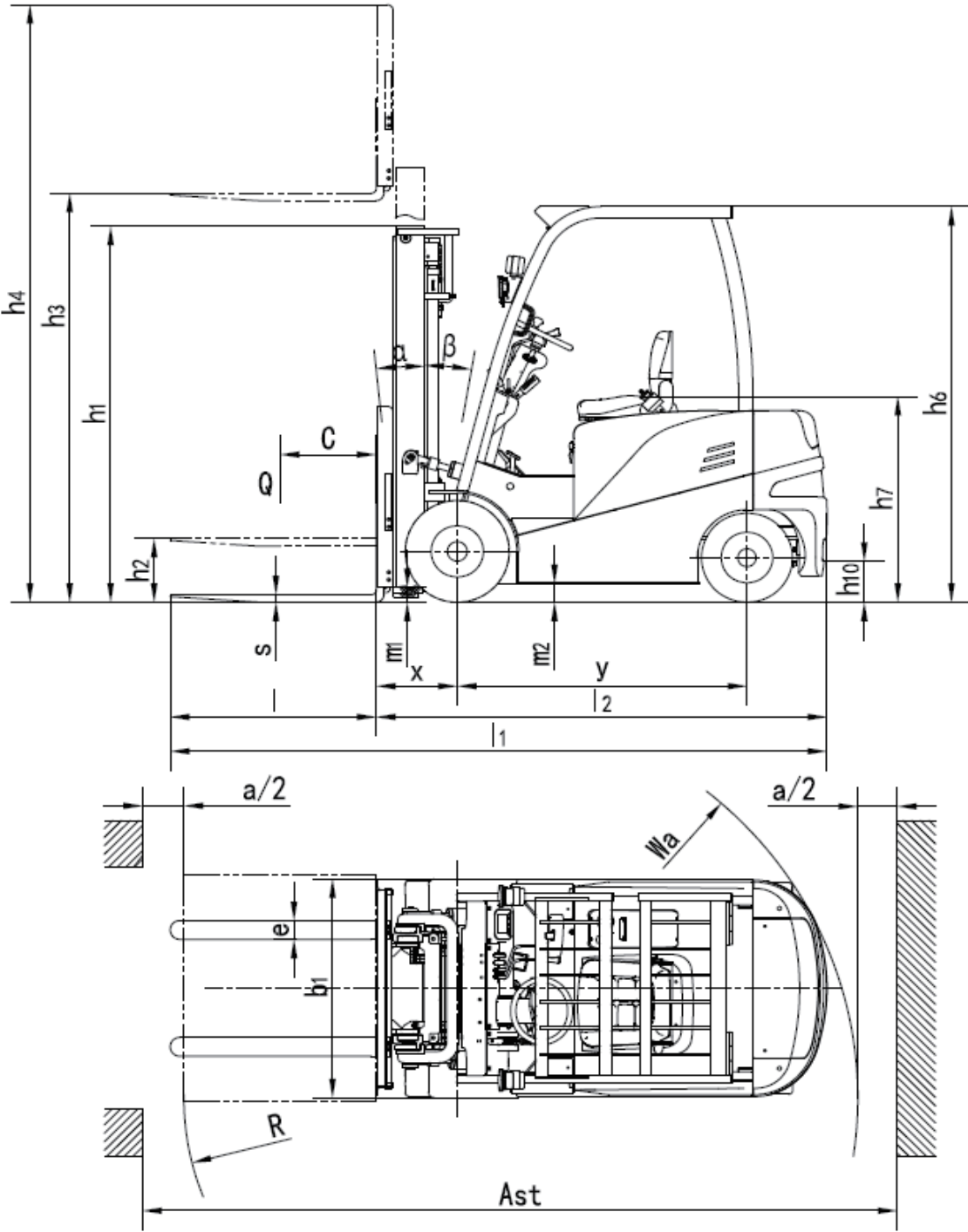
Standard					
1.1	Brand	MiMA	MiMA	MiMA	MiMA
1.2	Model	MK15	MK20	MK25	MK25
1.3	Power type	Battery	Battery	Battery	Battery
1.4	Operation type	Seated	Seated	Seated	Seated
1.5	Rated capacity	Q(kg)	1500	2000	2500
1.6	Load center	C(mm)	500	500	500
1.7	Front overhang	x(mm)	380	420	425
1.8	Wheelbase	y(mm)	1380	1505	1505
1505	1700				
Weight					
2.1	Service weight(incl. battery)	kg	2900	3380	3820
3600					
Wheel					
3.1	Wheel type	Pneumatic tyre	Pneumatic tyre	Pneumatic tyre	Pneumatic tyre
3.2	Load wheel	mm	130-205	460×180-205	460×180-205
3.3	Drive wheel	mm	160-230	540×205-230	540×205-230
3.4	Number of wheels, front/rear(x=drive wheel)	2x/2	2x/2	2x/2	2x/2
3.5	Wheel tread, drive side	b10(mm)	910	950	950
3.6	Wheel tread, load side	b11(mm)	930	960	960
Size					
4.1	Mast tilting	$\alpha / \beta (^{\circ})$	6/10	6/10	6/10
4.2	Mast closed height	h1(mm)	1995	1995	1995
4.3	Free lift height	h2(mm)	135	140	145
4.4	Lift height	h3(mm)	3000	3000	3000
4.5	Mast extended height with load-backrest	h4(mm)	4030	4030	4030
4.6	Overhead guard height	h6(mm)	2100	2100	2100
2130					
4.7	Seat height	h7(mm)	1090	1090	1090
1120					
4.8	Overall length	L1(mm)	3205	3410	3415
3615					
4.9	Length to fork face	L2(mm)	2135	2340	2345
2545					
4.10	Overall width	b1(mm)	1110	1160	1160
1200					
4.11	Fork size	l/e/s(mm)	1070/100/35	1070/122/40	1070/122/40
1070/122/40					
4.12	Installation level	2A	2A	2A	2A
4.13	Fork carriage width	b3(mm)	1040	1040	1040
1040					
4.14	Fork outside width	b5(mm)	222~1000	222~1000	222~1000
222~1000					
4.15	Mast ground clearance	m1(mm)	85	85	85
85					
4.16	Body ground clearance	m2(mm)	100	100	100
100					
4.17	Aisle width for pallet 1000*1200mm	Ast(mm)	3580	3720	3720
3920					
4.18	Turning radius	Wa(mm)	2000	2100	2100
2300					
Function					
5.1	Driving speed(load/unload)	km/h	10/12	10/12	10/12
10/12					
5.2	Lifting speed(load/unload)	km/h	300/480	230/400	230/400
230/400					
5.3	Lowering speed(load/unload)	y(mm)	380/360	420/480	390/480
390/480					
5.4	Max. gradeability(load/unload)(S2-5min)	%(tan θ)	14/15	14/15	14/15
14/15					
5.5	Brake type	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Drive					
6.1	Driving motor(S2-5min)	kw	AC 6.8	AC 6.8	AC 6.8
AC 6.8					
6.2	Lifting motor(S3-15%)	kw	DC 8.2	DC 8.6	DC 8.6
DC 8.6					
6.3	Battery voltage/capacity	V/Ah	48/400	48/490	48/560
48/560					
6.4	Battery weight	kg	645	750	870
885					
6.5	Steering system	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Other					
7.1	Lithium battery voltage/capacity	V/Ah	48/300	48/300	48/300
48/300					
7.2	AC lifting motor(S3-15%)	kw	AC 10	AC 10	AC 12
AC 12					

The standard model data will vary according to the configuration.



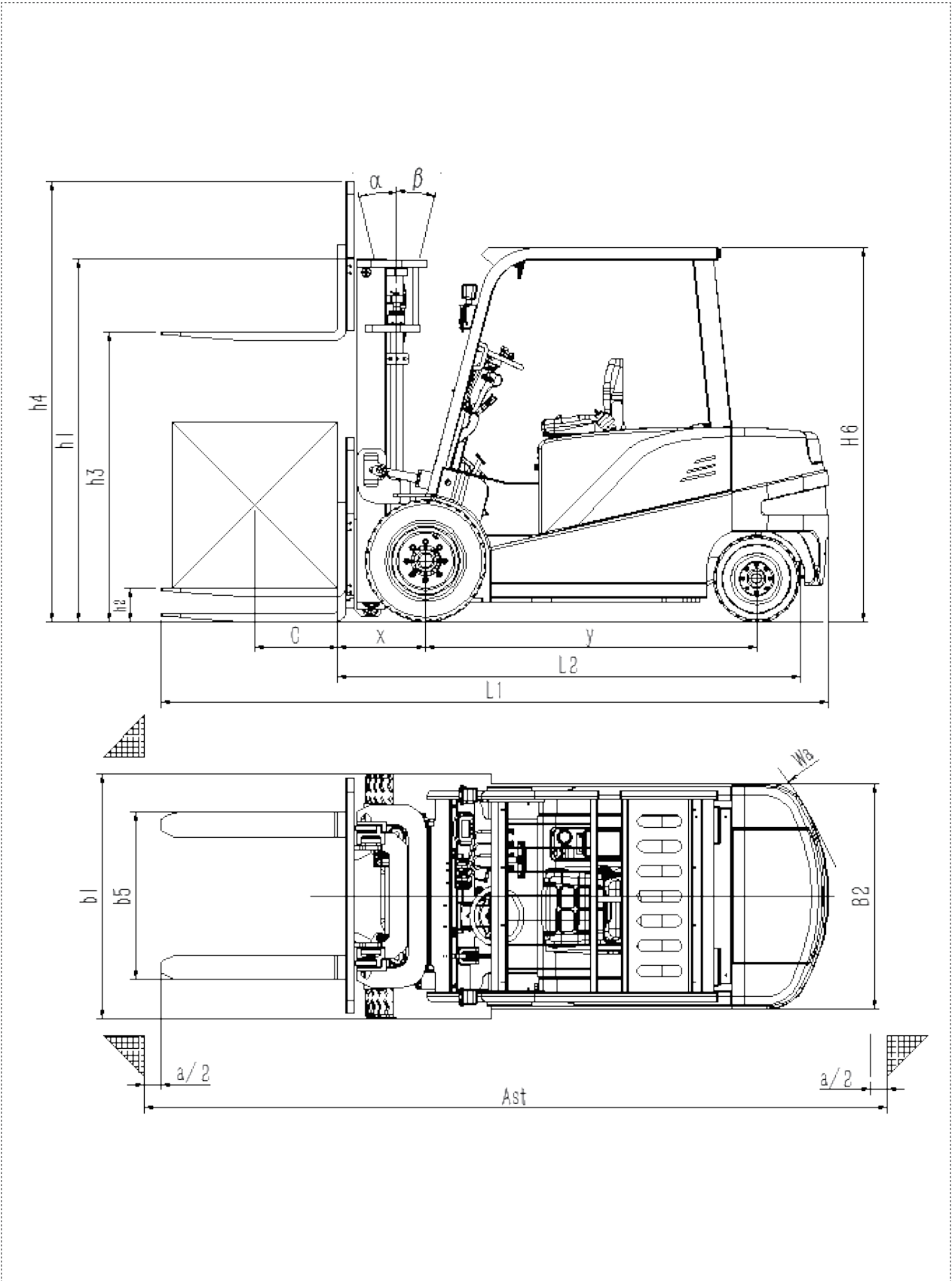
Standard					
1.1	Brand		MiMA	MiMA	MiMA
1.2	Model		MK30	MK35	MK40
1.3	Power type		Battery	Battery	Battery
1.4	Operation type		Seated	Seated	Seated
1.5	Rated capacity	Q(kg)	3000	3500	4000
1.6	Load center	C(mm)	500	500	500
1.7	Front overhang	x(mm)	433	484	484
1.8	Wheelbase	y(mm)	1700	1800	1800
Weight					
2.1	Service weight(incl. battery)	kg	4460	4870	5300
Wheel					
3.1	Wheel type		Pneumatic tyre	Solid tyre	Solid tyre
3.2	Load wheel	mm	460×180-205	460×180-205	460×180-205
3.3	Drive wheel	mm	590×230-260	590×260-305	590×260-305
3.4	Number of wheels, front/rear(x=drive wheel)		2x/2	2x/2	2x/2
3.5	Wheel tread, drive side	b10(mm)	970	1080	1080
3.6	Wheel tread, load side	b11(mm)	960	990	990
Size					
4.1	Mast tilting	α /β (°)	6/10	6/10	6/10
4.2	Mast closed height	h1(mm)	2110	2110	2110
4.3	Free lift height	h2(mm)	145	150	150
4.4	Lift height	h3(mm)	3000	3000	3000
4.5	Mast extended height with load-backrest	h4(mm)	4256	4256	4256
4.6	Overhead guard height	h6(mm)	2130	2130	2130
4.7	Seat height	h7(mm)	1120	1120	1120
4.8	Overall length	L1(mm)	3620	3770	3770
4.9	Length to fork face	L2(mm)	2550	2700	2700
4.10	Overall width	b1(mm)	1200	1330	1330
4.11	Fork size	l/e/s(mm)	1070/125/45	1070/125/50	1070/125/50
4.12	Installation level		3A	3A	3A
4.13	Fork carriage width	b3(mm)	1100	1100	1100
4.14	Fork outside width	b5(mm)	250~1050	250~1050	250~1050
4.15	Mast ground clearance	m1(mm)	90	90	90
4.16	Body ground clearance	m2(mm)	100	100	100
4.17	Aisle width for pallet 1000*1200mm	Ast (mm)	3920	4190	4190
4.18	Turning radius	Wa(mm)	2300	2450	2450
Function					
5.1	Driving speed(load/unload)	km/h	10/12	10/12	10/12
5.2	Lifting speed(load/unload)	mm/s	200/340	200/300	200/300
5.3	Lowering speed(load/unload)	mm/s	300/460	300/460	300/460
5.4	Max. gradeability(load/unload)(S2-5min)	%(tanθ)	14/15	14/15	14/15
5.5	Brake type		Hydraulic	Hydraulic	Hydraulic
Drive					
6.1	Driving motor(S2-60min)	kw	AC11.75	AC14	AC14
6.2	Lifting motor(S3-15%)	kw	DC10	DC10	DC10
6.3	Battery voltage/capacity	V/Ah	80/400	80/400	80/450
6.4	Battery weight	kg	1070	1000	1195
6.5	Steering system		Hydraulic	Hydraulic	Hydraulic
Other					
7.1	Lithium battery voltage/capacity	V/Ah	80/300	80/300	80/460
7.2	AC lifting motor(S3-15%)	kw	AC13.5	AC13.5	AC13.5

The standard model data will vary according to the configuration.



Standard			
1.1	Brand	MiMA	
1.2	Model	MK 50	
1.3	Power type	Battery	
1.4	Operation type	Seated	
1.5	Rated capacity	Q(kg)	4999
1.6	Load center	C(mm)	500
1.7	Front overhang	x(mm)	530
1.8	Wheelbase	y(mm)	2000
Weight			
2.1	Service weight(incl. battery)	kg	7100
Wheel			
3.1	Wheel type		Solid tyre
3.2	Load wheel	mm	540×205-230
3.3	Drive wheel	mm	250-381
3.4	Number of wheels, front/rear(x=drive wheel)		2x/2
3.5	Wheel tread, drive side	b10(mm)	1225
3.6	Wheel tread, load side	b11(mm)	1025
Size			
4.1	Mast tilting	α / β (°)	6/11
4.2	Mast closed height	h1(mm)	2180
4.3	Free lift height	h2(mm)	150
4.4	Lift height	h3(mm)	3000
4.5	Mast extended height with load-backrest	h4(mm)	4040
4.6	Overhead guard height	h6(mm)	2250
4.7	Seat height	h7(mm)	1230
4.8	Overall length	L1(mm)	4060
4.9	Length to fork face	L2(mm)	2990
4.10	Overall width	b1/b2(mm)	1470 /1350
4.11	Fork size	l/e/s(mm)	1070 /150 /50
4.12	Installation level		3A
4.13	Fork carriage width	b3(mm)	1380
4.14	Fork outside width	b5(mm)	320 ~ 1320
4.15	Mast ground clearance	m1(mm)	120
4.16	Body ground clearance	m2(mm)	120
4.17	Aisle width for pallet 1000*1200mm	Ast (mm)	4490
4.18	Aisle width for pallet 800*1200mm	Ast (mm)	4690
4.19	Turning radius	Wa (mm)	2690
Function			
5.1	Driving speed(load/unload)	km /h	12/13
5.2	Lifting speed(load/unload)	mm /s	200 /220
5.3	Lowering speed(load/unload)	mm /s	270 /290
5.4	Traction capacity(load/unload)(S2-5min)	N	15680
5.5	Max. gradeability(load/unload)(S2-5min)	%(tan θ)	15/15
5.6	Brake type		Hydraulic
Drive			
6.1	Driving motor(S2-60min)	kw	AC 16.6
6.2	Lifting motor(S3-15%)	kw	AC 15
6.3	Battery voltage/capacity	V/Ah	80 /630
6.4	Battery weight	kg	1690
6.5	Steering system		Hydraulic
Other			
7.1	Lithium battery voltage/capacity	V/Ah	80/600

The standard model data will vary according to the configuration.



Duplex mast									
Model	MK	15-25	15-27	15-30	15-33	15-35	15-37	15-40	15-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3700	4000	4500
Mast extended height with load-backrest	h4(mm)	3530	3730	4030	4330	4530	4730	5030	5530
Mast closed height	h1(mm)	1745	1845	1995	2145	2245	2345	2545	2795
Free lift height	h2(mm)	135	135	135	135	135	135	135	135

Duplex full free mast									
Model	MK	15-25	15-27	15-30	15-33	15-35	15-37	15-40	15-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3700	4000	4500
Mast extended height with load-backrest	h4(mm)	3540	3740	4040	4340	4540	4740	5040	5540
Mast closed height	h1(mm)	1745	1845	1995	2145	2245	2345	2545	2795
Free lift height	h2(mm)	702	802	952	1102	1202	1302	1502	1752

Triplex full free mast								
Model	MK	15-36	15-40	15-45	15-48	15-50	15-55	15-60
Lift height	h3(mm)	3600	4000	4500	4800	5000	5500	6000
Mast extended height with load-backrest	h4(mm)	4630	5030	5530	5830	6030	6530	7030
Mast closed height	h1(mm)	1795	1928	2095	2195	2262	2428	2595
Free lift height	h2(mm)	755	888	1055	1155	1222	1388	1555

Duplex mast									
Model	MK	20-25	20-27	20-30	20-33	20-35	20-37	20-40	20-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3700	4000	4500
Mast extended height with load-backrest	h4(mm)	3530	3730	4030	4330	4530	4730	5030	5530
Mast closed height	h1(mm)	1745	1845	1995	2145	2245	2345	2545	2795
Free lift height	h2(mm)	140	140	140	140	140	140	140	140

Duplex full free mast									
Model	MK	20-25	20-27	20-30	20-33	20-35	20-37	20-40	20-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3700	4000	4500
Mast extended height with load-backrest	h4(mm)	3580	3780	4080	4380	4580	4780	5080	5580
Mast closed height	h1(mm)	1745	1845	1995	2145	2245	2345	2545	2795
Free lift height	h2(mm)	702	802	952	1102	1202	1302	1502	1752

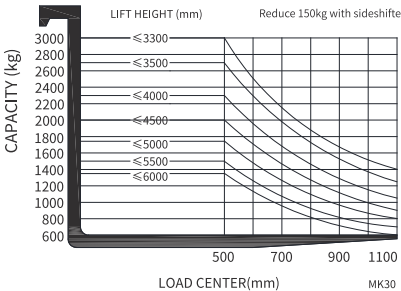
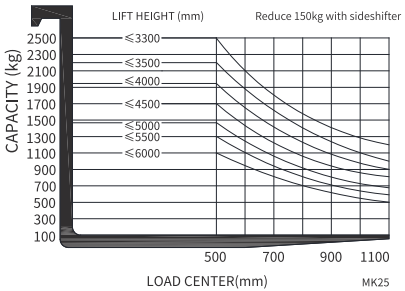
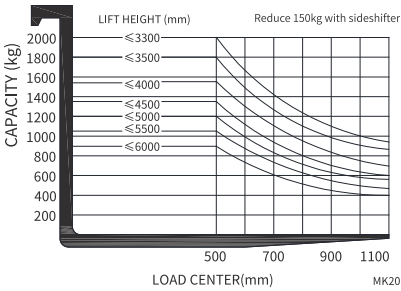
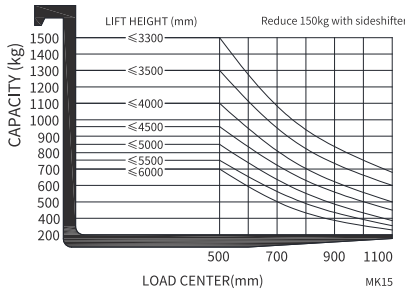
Triplex full free mast								
Model	MK	20-36	20-40	20-45	20-48	20-50	20-55	20-60
Lift height	h3(mm)	3600	4000	4500	4800	5000	5500	6000
Mast extended height with load-backrest	h4(mm)	4635	5035	5535	5835	6035	6535	7035
Mast closed height	h1(mm)	1795	1930	2095	2195	2260	2425	2595
Free lift height	h2(mm)	752	887	1052	1152	1217	1382	1552

MK20 is the same as MK25.

Duplex mast									
Model	MK	30-25	30-27	30-30	30-33	30-35	30-37	30-40	30-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3700	4000	4500
Mast extended height with load-backrest	h4(mm)	3760	3960	4260	4560	4760	4960	5260	5760
Mast closed height	h1(mm)	1860	1960	2110	2260	2360	2460	2660	2910
Free lift height	h2(mm)	145	145	145	145	145	145	145	145

Duplex full free mast									
Model	MK	30 -25	30-27	30-30	30-33	30-35	30-37	30-40	30-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3700	4000	4500
Mast extended height with load-backrest	h4(mm)	3770	3970	4270	4570	4770	4970	5270	5770
Mast closed height	h1(mm)	1850	1950	2100	2250	2350	2450	2650	2900
Free lift height	h2(mm)	716	816	966	1116	1216	1316	1516	1766

Triplex full free mast								
Model	MK	30-36	30-40	30-45	30-48	30-50	30-55	30-60
Lift height	h3(mm)	3600	4000	4500	4800	5000	5500	6000
Mast extended height with load-backrest	h4(mm)	4730	5130	5630	5930	6130	6630	7130
Mast closed height	h1(mm)	1850	1985	2150	2250	2315	2480	2650
Free lift height	h2(mm)	696	831	996	1096	1161	1326	1496



Duplex mast									
Model	MK	35-25	35-27	35-30	35-33	35-35	35-37	35-40	35-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3700	4000	4500
Mast extended height with load-backrest	h4(mm)	3630	3830	4130	4430	4630	4830	5130	5630
Mast closed height	h1(mm)	1850	1950	2100	2250	2350	2450	2650	2900
Free lift height	h2(mm)	150	150	150	150	150	150	150	150

Duplex full free mast									
Model	MK	35-25	35-27	35-30	35-33	35-35	35-37	35-40	35-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3700	4000	4500
Mast extended height with load-backrest	h4(mm)	3635	3835	4135	4435	4635	4835	5135	5635
Mast closed height	h1(mm)	1850	1950	2100	2250	2350	2450	2650	2900
Free lift height	h2(mm)	716	816	966	1116	1216	1316	1516	1766

Triplex full free mast									
Model	MK	35-36	35-40	35-45	35-48	35-50	35-55	35-60	
Lift height	h3(mm)	3600	4000	4500	4800	5000	5500	6000	
Mast extended height with load-backrest	h4(mm)	4730	5130	5630	5930	6130	6630	7130	
Mast closed height	h1(mm)	1850	1983	2150	2250	2317	2483	2650	
Free lift height	h2(mm)	696	829	996	1096	1163	1329	1496	

Duplex mast									
Model	MK	50-25	50-27	50-30	50-33	50-35	50-37.5	50-40	50-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3750	4000	4500
Mast extended height with load-backrest	h4(mm)	3765	3965	4265	4565	4765	5015	5265	5765
Mast closed height	h1(mm)	1930	2030	2180	2330	2430	2555	2730	2980
Free lift height	h2(mm)	150	150	150	150	150	150	150	150

Duplex full free mast									
Model	MK	50-25	50-27	50-30	50-33	50-35	15-37.5	50-40	50-45
Lift height	h3(mm)	2500	2700	3000	3300	3500	3750	4000	4500
Mast extended height with load-backrest	h4(mm)	3775	3975	4275	4575	4775	5030	5275	5775
Mast closed height	h1(mm)	1930	2030	2180	2330	2430	2555	2730	2980
Free lift height	h2(mm)	655	755	905	1055	1155	1280	1455	1705

Triplex full free mast									
Model	MK	50-40	50-42	50-43.5	50-45	50-48	50-50	50-55	50-60
Lift height	h3(mm)	4000	4200	4350	4500	4800	5000	5500	6000
Mast extended height with load-backrest	h4(mm)	5090	5515	5665	5815	6115	6325	6825	7315
Mast closed height	h1(mm)	2095	2160	2210	2260	2360	2430	2645	2810
Free lift height	h2(mm)	820	885	935	985	1085	1155	1370	1535

MK40 is the same as MK35, MK45 is the same as MK50.

