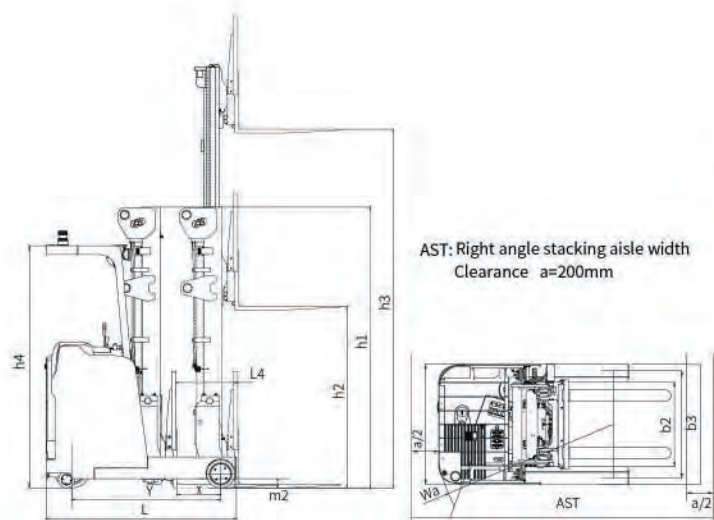


Manufacturer's Data and Design Characteristics					
Character					
1.01	Manufacturer			MINERVA	
1.02	Model			MHQD 20	MHQD 25
1.03	Configuration number			A2RLIG2	A2RLIG2
1.04	Load capacity	Q	kg	2000	2500
1.05	Load center distance	C	mm	500	
1.06	Power mode			Lithium Battery	
1.07	Driving mode			Stand-on	
1.08	Wheel base	Y	mm	1500	1685
Tyre					
2.01	Tyre type			Polyurethane	
2.02	Wheels number,drive/caster/load (x-driven wheels)			1x/2/2	
2.03	Track Width,load	b3	mm	1078	
2.04	Wheel size, load		mm	ø285x100	
2.05	Wheel size, drive		mm	ø330x114	
2.06	Wheel size, caster		mm	ø178x76	
Size					
3.01	Lift height	h3	mm	3000	3000
3.02	Free lift	h2	mm	120	120
3.03	Mast height, lowered	h1	mm	2135	2135
3.04	Fork size, thickness/width/length	s/e/l	mm	35x100x920	40x122x920
3.05	Fork adjusting width		mm	244~722	244~722
3.07	Truck body length(fork excluded)	L	mm	1900	2085
3.08	Truck body width	b1	mm	1190	1190
3.09	Distance between support arms	b2	mm	846	846
3.10	Reach distance	l4	mm	660	805
3.11	Height of overhead guard	h4	mm	2210	2210
3.12	Ground clearance,below mast	m2	mm	75	75
3.13	Turning radius	Wa	mm	1795	1965
3.14	Load distance,centre of support arm wheel to face of forks	X	mm	480	635
3.15	Aisle width with pallet 1100x1100W,clearance 200	Ast	mm	2825	2910
3.16	Aisle width with pallet 1000x1100W,clearance 200	Ast	mm	2750	2845
Performance					
4.01	Travelling speed,with/without load		km/h	11/12	11/12
4.02	Lifting speed,with/without load		m/s	0.3/0.5	0.3/0.5
4.03	Lowering speed,with/without load		m/s	0.5/0.45	0.5/0.45
4.04	Reach speed,with/without load		m/s	0.19/0.19	0.19/0.19
4.05	Maximum climbing ability, with/without load(≤2.5m/s)		%	10/15	10/15
Weight					
5.01	Total weight(with battery)		kg	3220	3230
Battery					
6.01	k5 Battery voltage/capacity k5		V/Ah	80/150	80/150
6.02	Battery weight		kg	400	400
6.03	Battery box dimension		mm	1140x340x540	1140x340x540
Moter and controller					
7.01	Drive moter power		kw	6	6
7.02	Lifting moter power		kw	12	12
7.03	Steering moter power		kw	0.6	0.6
7.04	Type of driving control			MOSTET/AC	
7.05	Type of lifting control			MOSTET/AC	
7.06	Type of steering control			MOSTET/AC	
7.07	Transmission box			HELI special transmission box	
7.08	Service brake			Electrical	

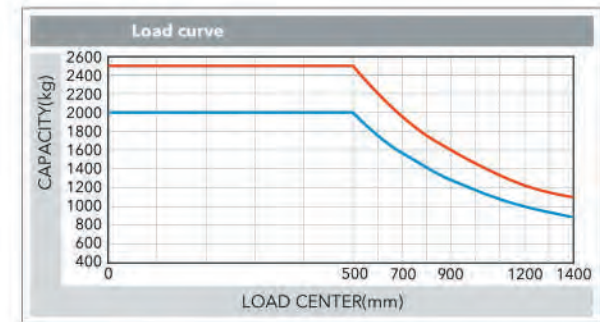
NOTE: Detailed information about lithium battery,please contact our salesmen or engineer.



RENEWABLE ENERGY TECHNOLOGIES

With the use of AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

15%



2 t 2.5 t

WIDE VIEW MAST									
Mast model	Lifting height (mm)		Free lifting height(mm)		Mast height, lowered(mm)		Load capacity(kg)		Forks tilt angle (front/rear) α / β
	MHQD 20	MHQD 25	MHQD 20	MHQD 25	MHQD 20	MHQD 25	MHQD 20	MHQD 25	
M300	3000	3000	120	120	2135	2135	2000	2500	2°/4°
M350	3500	3500	120	120	2385	2385	2000	2500	2°/4°
M400	4000	4000	120	120	2635	2635	2000	2500	2°/4°
M450	4500	4500	120	120	2885	2885	1900	2400	2°/4°
M500	5000	5000	120	120	3135	3135	1800	2300	2°/4°

WIDE VIEW FULL FREE 3-STAGE MAST									
Mast model	Lifting height (mm)		Free lifting height(mm)		Mast height, lowered(mm)		Load capacity(kg)		Forks tilt angle (front/rear) α / β
	MHQD 20	MHQD 25	MHQD 20	MHQD 25	MHQD 20	MHQD 25	MHQD 20	MHQD 25	
ZSM430	4300	4300	1140	1140	2165	2165	2000	2500	2°/4°
ZSM460	4600	4600	1240	1240	2265	2265	1900	2400	2°/4°
ZSM480	4800	4800	1300	1300	2332	2332	1850	2350	2°/4°
ZSM500	5000	5000	1367	1367	2399	2399	1800	2300	2°/4°
ZSM540	5400	5400	1500	1500	2532	2532	1700	2200	2°/4°
ZSM570	5700	5700	1600	1600	2632	2632	1650	2150	2°/4°
ZSM600	6000	6000	1700	1700	2732	2732	1550	2050	2°/4°
ZSM630	6300	6300	1800	1800	2832	2832	1500	2000	2°/4°
ZSM675	6750	6750	1950	1950	2982	2982	1350	1850	2°/4°
ZSM700	7000	7000	2040	2040	3065	3065	1300	1800	2°/4°
ZSM715	7150	7150	2090	2090	3115	3115	1250	1750	2°/4°
ZSM750	7500	7500	2200	2200	3232	3232	1200	1700	2°/4°



Standard Equipment

AC travelling motor
AC Lifting motor
AC steering motor
Electrical brake
DC/DC converter
Low noisy gear pump
Control valve(three throw)
3000mm stage mast
Standard fork
Backrest
Polyurethane tyre
LED meter
Front working light
Vertical battery change
Rearview mirror
Mechanical lever operation
Fork tilting
Backward buzzer
HELI package
Storage box
Folder

Optional Equipment

Three-stage full free lift mast
Two-stage mast(other lifting height)
Fork with other length
Control valve(four throw)
Monitoring system
Warning light
Blue spotlight
Integral sideshifter
On-board charger
Rear working light or Rear blue light
Fan
Fire extinguisher
Truck networking
Neutral package
Mechanical brake
Other lithium battery
Alternative colour schemes

Configuration number	Configuration
A2RLIG2	Manually operated valve
	Mechanical handle control hydraulic functions
	ZAPI travelling motor controller
	ZAPI lifting motor controller
	ZAPI steering motor controller
	Fork tilt



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2.0-2.5 t

G2 SERIES LITHIUM BATTERY
POWERED REACH TRUCK
(STAND-ON TYPE)(80V)



Forward driving

G2 SERIES 2.0-2.5 t **LI-ION**

FEATURES OF THE COMPLETED TRUCK

Three phase AC type motor technology

- Three phase AC type motor control on travelling, lifting and steering
- Good acceleration
- Fast and sensitive respond on travel direction shifting
- Free from maintenance motor without carbon brush having long service life and low maintenance cost,Energy regenerating during deceleration extending operation hours

Newly designed hydraulic system

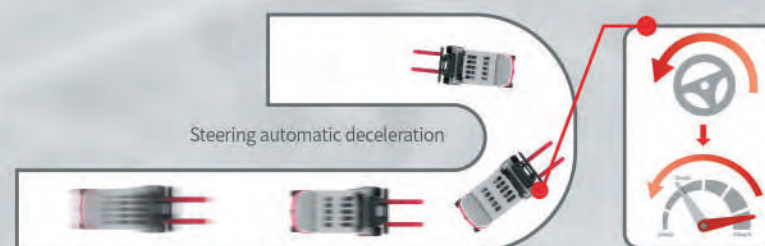
- Newly designed hydraulic system with high working efficiency
- High power lifting motor
- MOSTET lifting speed governing electric controller
- New type low noisy gear pump, high efficiency and long life
- Max.lifting speed without load 22% increased
- Max.lifting speed with load 19% increased

Optimized intelligent design

- CAN bus technology
- Parking brake on slope
- Operation sequence protection
- Travelling speed control
- Lifting speed control
- Electric controller self protection
- Dead-man footswitch traction interlock

Advanced EPS electric powered steering

- EPS electric power steering offering easy, flexible, high efficient and mute operation
- Steering motor controller
- Automatic centering function
- Automatic limit on speed and accelerated speed when steering



Six independent braking systems

- Automatic braking when accelerator lever is released
- Emergency brake activated by releasing foot switch
- Parking brake activated by pressing button on the panel
- Automatic hold-on brake
- Emergency isolator
- Parking brake activated by the hydraulic control lever

Displayer



- High quality meter displaying important operating data
- 180° steering angle position display
- Display of battery power and fault code
- Travelling mode selection
- Lifting lock indication
- Hour meter
- Labor hour display

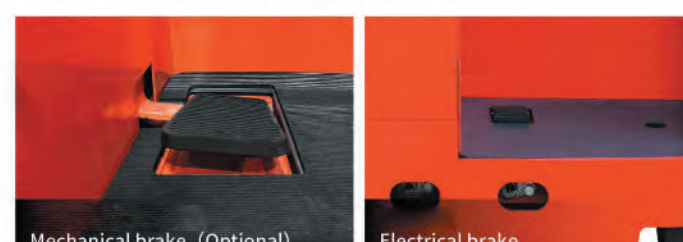


Wide view mast

- Good view when loaded
- Integral backrest
- High residual load capacity at high lift height
- Buffering during lifting and lowering
- Buffering on lifting and lowering limit
- Buffering on mast moving forward and backward limit
- Lift height range:3000-6750mm

Comfort cab

- The driver's body is fully protected within the truck contours
- Easy reach to important operation
- Handrail



Pedal height
260mm

