

BOMAC
エクストラ ワークス エクストラ ストロング

FORKLIFT

ELECTRIC



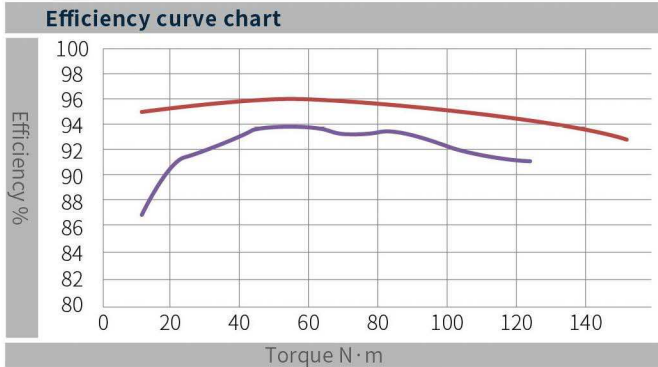
RE50-5 TON

EXTRA WORK, EXTRA STRONG

After more than 30 years of development, BOMAC has grown into a large company and a world-class forklift exporter and has been widely used in The World.



- The voltage is increased from 80V of traditional lithium battery powered truck to 153.6V. The overall energy efficiency is significantly improved by increasing of the motor power and reducing of the current of motor and controller.
- Permanent magnet synchronous motor for electric vehicle which has lighter mass compared with the same energy three-phase asynchronous motor is adopted and the comprehensive efficiency is significantly improved.
- Standard load sensing is equipped on the truck as standard which gives priority to steering and saves energy by 5%;

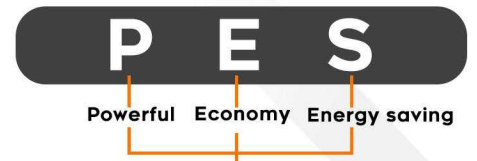


- Driving efficiency of three-phase asynchronous motor on flat ground.
- Driving efficiency of permanent magnet synchronous motor on flat ground.



The integrated power system reduces the wiring harness which greatly reduces the loss of electric energy transmission. And the levels of parts and control modules are clear and convenient for maintenance;

Driving speed 18km/h	Gradient with load 17%	Lifting Speed with load 380mm/s	Lifting Speed without load 500mm/s	The acceleration time of 10m at full load is reduced by 20%

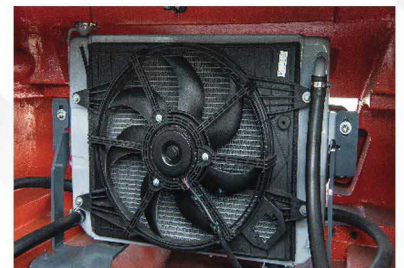


Multi gear performance modes meet your requirements for different working condition.

Smart safety functions offer comprehensive guarantee.



Emergency power-off switch is equipped as standard to ensure safety in case of emergency;



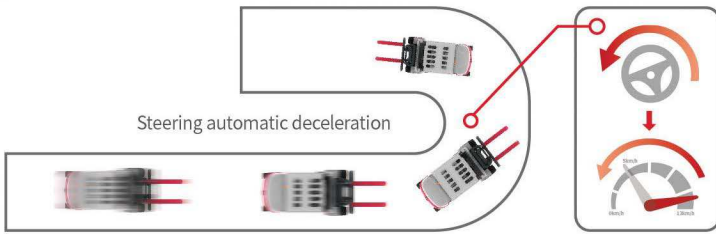
High efficiency liquid cooling and heat dissipation system is equipped as standard, which can meet the requirements of automobile S1 continuous working system;



System level voltage safety protection: The truck features Integrated / shortest design of voltage connection and multiple insulation monitoring protection;

System level voltage safety sectional design: when the maintenance switch is pulled out, the system fails or the key is disconnected, the voltage system will be automatically disconnected, and the maximum voltage shall not be greater than 76.8v

- **Steering deceleration function:** the standard steering automatic deceleration function can reduce the risk of tipping when steering;



Color screen instrument: it has the functions of full display of truck information, timely reminder and convenient operation;



Bomac Smart Fleet Management system (Domestic Basic Edition)

Vehicle positioning	Statistical form
Remote diagnosis	Vehicle management
Remote monitoring	Identification recognition (optional)
Maintenance reminder	Weight management (optional)
Battery management	Collision management (optional)

Internal combustion platform, stable and reliable

- The whole truck is developed based on the internal combustion truck platform, and all parts are mature and reliable. It has the advantages of high performance, high stability and high environmental adaptability of the internal combustion truck, as well as the green and environmental protection characteristics of the lithium truck.





Buffering under the mast makes goods handling operation more comfortable;



When the tilt cylinder sinks down in layout, the upper space of the bottom plate increases and the leg space is enlarged;



The armrest is equipped with horn switch for reversing.



The whole truck is equipped with USB interface and folder as standard;



Ratchet type parking brake operating handle offers more labor-saving operation;



Wide view mast optimize the blind area of operation vision and it is comfortable and safe for operation;

**Centralized maintenance point,
 Fast and convenient for maintenance**

- The truck features 80° hood opening angle and simple opening mechanism. The key lock is optional.
- Optimized layout of truck structure offers large internal space and convenient maintenance;
- Modular design of power assembly and electrical system offer convenient maintenance and low cost;



MANUFACTURER AND TECHNICAL DATA

Characteristic

1.01	Manufacturer					
1.02	Model			RE40	RE45	RE50
1.03	Configuration number			G2AL1L1		
1.04	Rated capacity	Q	Kg	4000	4500	5000
1.05	Load center distance	C	mm	500		
1.06	Power mode			Lithium battery		
1.07	Driving mode			Sit-on type		
1.08	Front overhang	x	Mm	560		
1.09	Wheelbase	y	mm	2100		

Weight

2.01	Total weight		Kg	5890 / 5590	6245 / 5945	6600 / 6300
2.02	Axle load (laden, front/rear)		Kg	8990 / 900	9720 / 1025	10430 / 1170
2.03	Axle load (unladen, front/rear)		Kg	2970 / 2920	2950 / 3295	2900 / 3700

Tyres

3.01	Tyre type			Solid Tyre		
3.02	Tyre size, front			8.25-15	300-15	
3.03	Tyre size, rear			7.00-12		
3.04	Wheels, number front/rear (x=driven wheels)			2X/2 (Dual tyre 4X/2)		
3.05	Tread, front	b ₁₀	mm	1180		
3.06	Tread, rear	b ₁₁	mm	1190		

Dimensions

4.01	Mast tilt angle (forward/backward)	A/β	°	6/12		
4.02	Height (mast lowered)	h ₁	mm	2275		
4.03	Free lifting height	h ₂	mm	150		
4.04	Lifting height (standard)	h ₃	mm	3000		
4.05	Max. height, extended (with backrest)	h ₄	mm	4250		
4.06	Height of overhead guard	h ₆	mm	2350		
4.07	Seat height relating to SIP (to ground)	h ₇	mm	1080		
4.08	Towing coupling height	h ₁₀	mm	430		
4.09	Overall length (with fork)	l ₁	mm	4255	4275	4325
4.10	Overall length (without fork)	l ₁	mm	3185	3205	3255
4.11	Overall width	b ₁	mm	1480		
4.12	Fork size thickness x width x length	s/e/l	mm	50x150x1070		
4.13	Fork carriage, according to IS02328			III		
4.14	Distance across fork-arms, Max./Min.	b ₅	mm	1340/300		
4.15	Ground clearance (laden, between mast)	m ₁	mm	150		
4.16	Ground clearance (center of wheelbase)	m ₂	mm	230		
4.17	Right angle stacking aisle width for pallet 1000 x1200mm crossways	Ast	mm	4610	4640	4690
4.18	Right angle stacking aisle width for pallet 800 x1200mm lengthways	Ast	mm	4810	4840	4890
4.19	Min. outside turning radius	Wa	mm	2850	2880	2930

Performance Data

5.01	Travel speed (laden / unladen)		km/h	18/19	18/19	18/19
5.02	Lift speed (laden / unladen)		m/s	450/500	420/500	390/500
5.03	Lowering speed (laden / unladen)		m/s	470/500	470/500	470/500
5.04	Max. drawbar pull (laden/unladen)		N	23000/20000	23000/20000	23000/20000
5.05	Max. gradeability (laden/unladen)		10%	19/20	18/20	17/20
5.06	Acceleration time (10m) (laden / unladen)		s			

Battery

6.01	Voltage / capacity (K5)		V/Ah	153.6/230 (Optional 153.6/330)		
6.02	Mass (Min./Max.)		Kg	330/435		

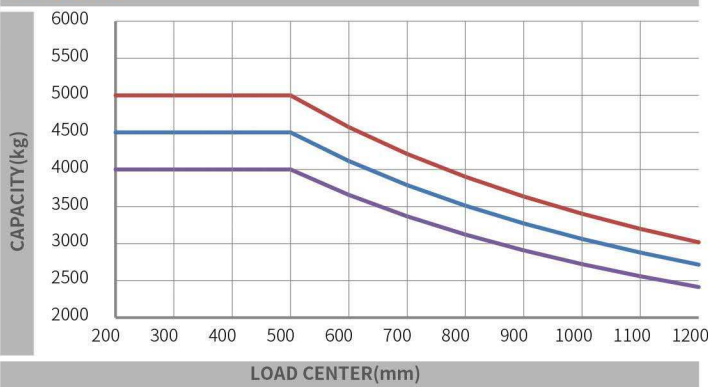
Motor and controller

7.01	Power of driving motor (S2-60min)		Kw	25		
7.02	Power of lifting motor (S3-15%)		Kw	20		
7.03	Control mode of driving motor			MOS tube / AC		
7.04	Control mode of lifting motor			MOS tube / AC		

Addition data

8.01	Service brake / Parking brake			Hydraulic power assisted braking / mechanical- ratchet type		
8.02	Operating pressure for attachments.		Mpa	14		

Load curve



RE40 RE45 RE50

Note: The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. the standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

Configurations

		Configurations			
Safety	Steering deceleration	●	Comfort	Semi-enclosure seat	●
	Rear handle with horn for truck reversing	●		Full suspension seat	○
	Overspeed alarm (5km/h)	○		1 USB interface (5V/1A)	●
	Overspeed alarm(8km/h)	○		Super low torque steering unit	●
	Overspeed alarm (10km/h)	○		Mechanical control valve	○
	Speed limit (no ultimate limit type)	○		Fan	○
	OPS (Travelling + Lifting + Tilting + Attachment) (Lowering is not include)	●	Cab / windshield	Panel mounted cab (with fan and wiper)	○
	Full set of OPS	○		Heater	○
	Safety switch for seat belt	●		Air conditioner only for cooling	○
	Hydraulic valve overload protection device	●		Air conditioner only for cooling + heater	○
	Dry powder extinguisher (0.5kg)	○		Front windshield (with wiper/no blow can)	○
	Dry powder extinguisher (2kg)	○		Rear windshield	○
	Backward buzzer	●	Top windshield (without fan)	○	
	Reversing speaker (Chinese)	○	Light	LED rear working lamp (one)	○
	Electronic upper buffering	○		Rear LED red/blue spot lamp	○
	Wide- angle central rearview mirror	●		Left, right and rear blue bar	○
	Rearview mirror on two sides + Center wide angle rearview mirror	○		Fixed type LED flicker warning lamp	●
	Reverse radar (4 probes)	○		Fixed type LED rotating warning lamp	○
	Reversing image (1 camera + 4 probes)	○		Fixed type LED rotating buzzer warning lamp	○
			Other	Sleeve for steering cylinder	●
		Sleeves for steering cylinder and tilting cylinder		○	
		FICS standard type (domestic)		○	

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