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CK-05  
Electric Order Picker 0.5T

EP EQUIPMENT CO.,LTD.  
www.ep-ep.com



## C K-05 Electric Order Picker

Featuring an innovative patent pending design the CK-05 Electric Order Picker delivers the performance of a industrial order picker in a highly compact, maneuverable and capable machine. Well suited for a wide array of inventory management and fulfillment tasks, this vehicle has been purposefully developed to maximize productivity while minimizing operating cost in retail, warehousing and distribution applications.

## D esign

The CK-05 Electric Order Picker attractive design is driven by durability, utility and efficiency.

## P erformance

## D rive motor

1. Maintenance-free AC drive system with quick response, accurate control, and excellent power efficiency

## A C Controller

1. Regenerative braking extends run times during operation by using motor resistance to slowly recharge the onboard batteries.
2. High-efficiency signal processing controller improves motor response time and response accuracy enhancing operator control and maneuverability.
3. EPS system greatly improves steering speed, and makes the truck more intuitive to drive for the operator.

## H ydraulics and Mast

1. One-way valve ensures loads stability during lift and lowering functions. This reduces the chance for product damage and assures safe operation.
2. High strength steel mast channels with oversized mast rollers provide high rigidity and low deflection and exceptional stability at height.
3. Totally enclosed mast design is uniquely integrated into the vehicle to deliver strength and easy maintenance without compromising vehicle operation.
4. Two-stage or three-stage masts are optional to tailor the vehicle to meet the specific needs and attributes of a given facility.
5. Mechanical, hydro cylinder and electronic triple lift limit protection enhances safety while lifting or lowering in motion.

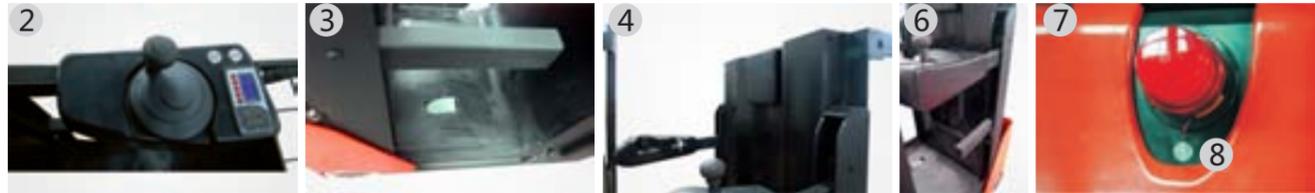
## B rake

1. Electrical motor brake provides regenerative braking during deceleration.
2. EPS system enhances the vehicles parking brake strength.

## O perability & Safety

1. Motor, controls and chassis have been developed to together deliver exceptional vehicle maneuverability that drives overall efficiency, productivity, and safety.
2. Compact ergonomic controls provides the operator are easy and intuitive while allowing for a large comfortable operating space.
3. Safe start floor pedal ensures that the operator is in a proper driving position during transit.
4. Rubber seat back cushion and available floor matting reduces strain on the operator.
5. Retractable side handrails are equipped with safety switches to ensure that the handrails are in the closed position during operation.

6. Slope alarm system alerts the truck operator when driving into or across areas with a grade which may present a safety hazard.
7. Lowering alarm system warns workers at ground level to be clear of the vehicle during descent.
8. Ground level hydraulic release prevents operators from being trapped at height due to a system failure.
9. Deceleration switch activates when the mast is lifted up to 50 cm and every mast stage elevation reducing drive speed by half to ensure stable fluid operation.
10. Rigid steel chassis protects the operator and is resistant to impact.



**Key parts of CK-05 Electric order Picker**

Component	Brand	Country
Drive motor	ISKRA	Europe
Transmission	COMER	Italy
Steering wheel	Vulkolann	Europe
Hydraulic pump	Bucher	Switzerland
Drive motor controller	ZAPI	Italy
Steering controller	ZAPI	Italy
Electrical Panel	ZAPI	Italy
Battery	Optional	
Steering motor	ISKRA	Europe
Accelerator	PG	UK
Connector	AMP	USA
Operating Panel step motors		Japan



Characteristics		
1.1	Brand	EP
1.2	Model	CK-05
1.3	Power type	Electrical
1.4	Operation type	stand on
1.5	Load capacity	Q(kg) 450
1.6	Ground clearance	G(mm) 50
1.7	Wheelbase	E(mm) 1140
Weight		
2.1	Chassis Weight (without battery)	kg 960
Wheels, Chassis		
3.1	Tire: Drive/Rear Wheels	PU/Rubber
3.2	Drive wheel size	(mm) Φ230x75
3.3	Rear wheel size	(mm) Φ204x76
3.5	Drive/Rear wheel Qty.	1./2
Dimensions		
4.4	Lift Height	hmax(mm) 3000
4.5	Control Height	h3(mm) 1225
4.6	Collapsed Height	h0(mm) 1570
4.7	Overall Length	L0(mm) 1485
4.8	Overall Width	b1(mm) 820
4.9	Load Tray Size(front)	L1/b2(mm) 575/800
4.1	Load Tray Size (rear/foldable)	L4/b2(mm) 270/800
4.11	Operator Compartment Size	L2/b2(mm) 545/800
4.12	Turning Radius	R0(mm) 1385
Performance		
5.1	Travel speed (Lowered/Max. Height)	km/h 6
5.2	Lifting speed (loaded)	m/s 0.21
5.3	Lowering speed (loaded)	m/s 0.21
5.8	Gradeability (loaded/unloaded)	% 6/15
5.1	Brake type	Electromagnetic
Drive		
6.1	Drive motor rating	kw 1.5
6.2	Lift motor rating	kw 2.2
6.4	Battery voltage	V/Ah 24/224
Others		
8.1	Drive control type	AC ZIPA

