

USER GUIDE

Electric tow / tug

SK N



NOTE : All information contained in this document is based on the data available at the time of printing. The manufacturer reserves the right to modify its products at any time without notice, obligation, or constraint. Please check our website for any updates.

Thank you for using this smart tow tractor, for your safety and correct operation, Please read these instructions carefully before using it .

Keep this manual on file for future reference . If this is lost, please contact your local supplier for a new copy.

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1. OPERATING ENVIRONMENT AND WARNING

The smart tow tractor should be used in any dry space, on even and level floors or ground , The temperature range in which the smart tow tractor can continuously operate is +5 °C~ +30 °C

- Operator appropriately trained, familiar with operating ,maintenance and safety instructions
- Operator must know and master the drive and operational properties of the smart tow tractor
- Do not exceed the rated capacity
- Do not modify the smart tow tractor without the manufacturer's permission
- Do not add or remove ,weld or bend any parts
- Do not turn the smart tow tractor abruptly on a ramp
- Never use the smart tow tractor to transport people
- In case of a malfunction, push the safety emergency switch(No.2,fig.3) on the speed regulator .

2. GERNERAL SPECIFICATION

Model		SK1000N	SK1500N
Rated capacity	kg	1000	1500
Handle height	mm	895	900
Total width	mm	460	550
Total height	mm	980	1000
Travel speed	km/h	6	6
Brakes		electromagnetic	electromagnetic
Traction motor	kw	DC 0,4	DC 0,6
Traction battery	V/Ah	24 / 25	24 / 36
Built-in charger	V/Ah	24 / 3	24 / 5
Electronic controller	type	Curtis	Curtis
Rubber wheels		non-marking	non-marking
Weight	kg	110	200

3. ATTACH HOOK TO MAINFRAME

3.1) Loosen and remove the setting Washer 8, Spring washer 8 and screw M8*25 (No.3, No.4,No.5,fig.1)

3.2) Put the joint plate (No.1, fig.1) under the mainframe and hook above the mainframe

3.3) Insert the washer 8, spring washer 8 and screw M8*25 ,Adjust hook height to appropriate position for moving object, then tighten them securely.

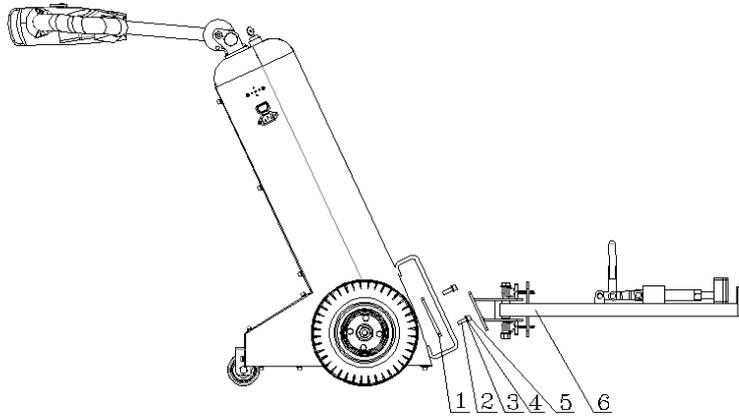


Fig 1

No.	Description	Quantity
1.	Joint plate	1
2.	Mainframe	1
3.	Washer 8	4
4.	Spring washer 8	4
5.	Screw M8X25	4
6	Hook unit	1

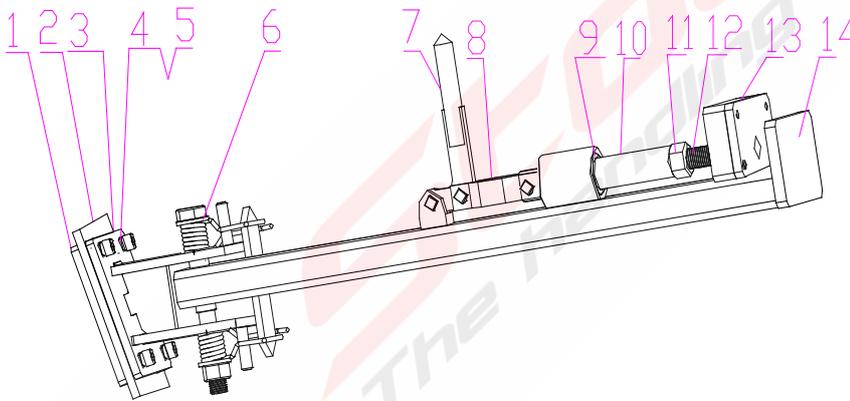


Fig 2

No.	Description	Quantity
1.	Joint plate	1
2.	Mainframe	1
3.	Joint base	1
4.	Screw M8X25	4
5.	Spring washer 8	4
6.	Restoration spring unit	1
7.	Handle	1
8.	Locking mechanism	1
9.	Bushing	1
10.	Shaft	1
11.	Nut M16	1
12.	Hexagon socket screw	1
13.	Slide block	1
14.	Hook frame	1



4. OPERATING AND ADJUSTING HOOK UNIT

After attached hook unit to mainframe, turn handle (No.6) backward, loosen nut M16 (No.11), Take allen wrench, and insert the hole of the hexagon socket screw(No.12), then turn hexagon socket screw (No.12) , so that the distance between slide block(No.13) and hook frame can be adjusted , to fit with object's thickness , to clamp the object , then tighten nut M16.

Turn handle (No.6) backward, Moving hook to appropriate position, Turn handle forward, the object can be clamped and can be moved.

5. DRIVING SMART TOW TRACTOR

1) Speed knob.

Speed and acceleration are freely programmable.

To operate the smart tow tractor moving forward or backward . turn the butterfly speed knob clockwise or counter clockwise gently and smoothly .

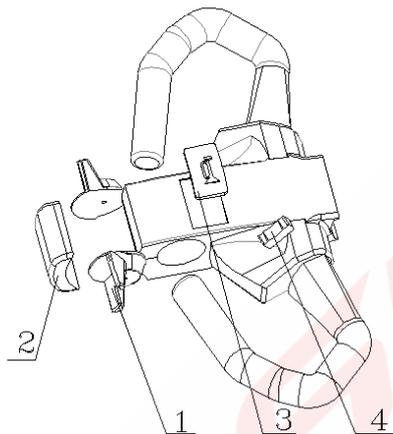


FIG 3

No.	Description	Quantity
1.	Speed knob	2
2.	Safety emergency switch	1
3.	Horn button	1
4.	High and slow speed switch	1

2) Safety emergency switch (No.2 , fig 3)

The safety emergency switch prevents you from getting squeezed between the smart tow tractor and the obstacle . When you push it , the smart tow tractor will stop.

3) Horn

4)High and slow speed switch .This button allows you to freely switch fast and slow. Handle unit (No.1 and No.2,fig

5)Pull locating stud (No. 4) out locating plate (No. 2), and turn handle unit to appropriate position, then insert locating stud into locating plate.

5. GENERAL DRIVING INSTRUCTIONS

- 1) Before starting to operate, make sure that the daily maintenance has been carried out.
- 2) Turn the speed controller gently and smoothly;
- 3) To slow down, release the butterfly speed knob

6. BATTERY (No.1) AND CHARGER STAND (No.5)

If the battery voltage is low, it must be recharged. User takes out the charging cable (9), one end plugging in the charger plug (2), the other end plugging in the socket with 100-240VAC. The charging indicator includes red and green LED. Red LED shows that the power is charging. Green LED shows that the power is full. Charging full time is about 8 hours.

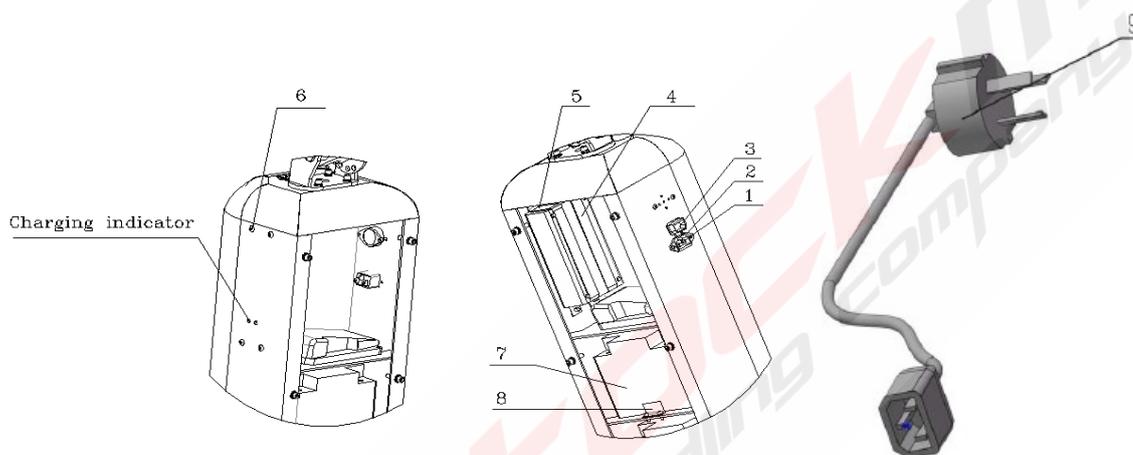


Fig 4

No.	Description	Quantity	No.	Description	Quantity
1	Screw M4X15	2	6.	Screw M5X20	4
2	Charger plug	1	7.	Storage battery	2
3.	Protect cover	1	8.	Limit stop	2
4.	Hoop	2	9.	charging cable	1
5.	Charger	1			

Attention:

- Do not smoke when working with battery
- Battery fluid is a corrosive and solution, avoid getting it on the skin or in the eyes
- Please charge the battery in time
- A low battery charge status may damage the battery during long-time use.
- Getting wet in the rain and snow is never allowed.

7. MAINTENANCE

It is recommended to sign a maintenance agreement with the smart tow tractor dealer, who can also supply spare parts. Contact our maintenance department or your smart tow tractor dealer for good and efficient maintenance service

Safety instructions for maintenance

- Keep the working area clean without oil ,grease, water etc
- Carry out the daily check maintenance before operating
- It is recommend to carry out semi-annual inspection service(500h)
- Additional maintenance work for service 1000 hour

