

# TE 10Li

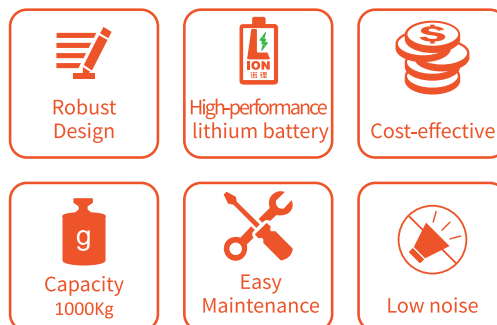
## Electric Tow Tractor

The TE10Li is an entry-level electric tractor for all light-duty works. Compactness and portability are the core of TE10Li philosophy. With an ultra-compact footprint, it can move freely through complex scenarios such as supermarkets, factories, hospitals and airports. The effortlessly replaceable plug-and-play Li-ion battery provides a solid guarantee of continuous operation when it is required; moreover, the maximum weight of the battery is only approx. 8 kg, everyone can replace the battery within seconds.

Compact in appearance but mighty in power. Thanks to the battery's high energy density and the durable drive axle, the TE10Li can move loads of a staggering 1000KG, covering almost all light industrial demands.

Being User-friendly is the design purpose of the TE10Li. The innovative handle adjustment mechanism and low-speed mode allow the operator to adjust the height of the handle and reduce the running speed rapidly, based on application needs. Ergonomically designed handle ensures operation comfort.

The truck is equipped with an emergency reverse button, which forces the truck to move in reverse in case an operator is jammed in confined area, minimizing the risk of injuries. The truck is equipped with detachable coupling arm having stepless height adjustment, with its pivot point close to wheelbase making maneuverability higher. Various options of available couplings, including electric coupling, ensure that TE10Li is suitable for broad applications. The existing structure also allows to design and connect any custom-type of hook, if required.



## USER-FRIENDLY AND SAFE



### ERGONOMIC BUTTONS

The ergonomically designed buttons are comfortable for operation. In terms of functionality, there is also a slow speed mode, an emergency reverse function and a horn switch, which is perfectly fitted to the demands of users.

### ADJUSTABLE TILLER

The height of tiller can be freely adjusted, making it easy to adapt the truck to the habits of different operators.



### WHEEL GUARD

guard around wheels provides side protection, and can effectively prevent the wheels from rolling over the user's foot.



### CASTORS

Swivel castors with adjustable height allow to set the most comfortable transportation angle of the truck when used without load as well as help to overcome some obstacles on the way and move the truck without power supply freely.

### PIN CODE PANEL

The user-friendly concept of the TE10Li is reflected in the details. Pin code panel integrates truck status display and a digital lock.

On the one hand, with a PIN code and RFID tag for quick unlocking, the digital lock prevents the truck from operation by unauthorized personnel

On the other hand, The LCD screen shows the truck's status, including the number of hours working, the battery charge level and possible fault codes for diagnostic purposes.



## COMPACT BUT POWERFUL

The high energy density battery provides a powerful output, ensuring the truck can tow up to 1 ton cargo.



The drive axle with differential mechanism provides smooth and effortless steering while driving with consistent transfer of torque from motor to both wheels in any time; Moreover, a steady acceleration of the truck can be achieved with the help of the electronic control system.



Soft rubber non-marking solid wheels ensure high traction with various ground surfaces, making truck having a great grip during the operation and supplying consistent towing force.

## REMOTE CONTROL SYSTEM (OPTIONAL)



TE10Li is available with an optional remote control system. With an optional remote control, the application range of the TE10Li can be widened to a great extent by its rapid response and precise operation. For example, personnel can easily push stacked shopping carts via remote operation in large shopping malls, while an operator only needs to do directional corrections, which decreases the workload and on the other hand increases efficiency.

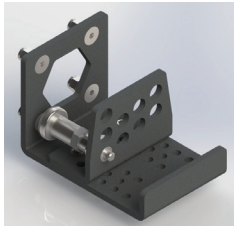
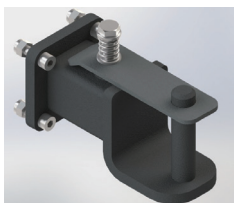
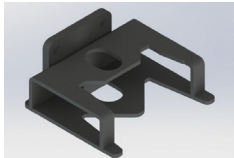
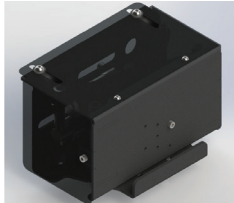
## MULTIPLE SELECTION OF COUPLINGS

The TE10Li's couplings are designed to maximize the user satisfaction in different scenarios



Coupling arm is included to the standard supply set, it can be fixed with towing tractor and adjusted vertically on its sliding guides steplessly. It is equipped with centering spring on rotating hinge. The arm can be mounted to the towing tractor by its either flange depending on your application needs.

To the free end of coupling arm a coupling can be mounted. Refer to selection of offered couplings (standard and optional); it is also possible to install customized couplings which can be mounted to the flange with help of M8 screws. The pattern of holes is 60x60 mm diameter 8,5 mm.

	<b>STANDARD MANUAL COUPLING</b> The standard coupling with effective height of hooking plate 25 mm is customizable through repositioning of clamping bracket within the nominal range 5-60 mm, the decoupling is prevented with help of spring loaded pin with manual release, which position is adjustable through reposition to one of the available holes.
	<b>PIN COUPLING (OPTIONAL)</b> The pin coupling is equipped with top holding spring loaded bracket, preventing decoupling. The diameter of pin is 20 mm, available nominal height of pin under the holding bracket is 70 mm.
	<b>LKE COUPLING (OPTIONAL)</b> The coupling for LKE pin connectors
	<b>ELECTRIC COUPLING (OPTIONAL)</b> The coupling is equipped with linear actuator allowing to make coupling/decoupling operations from the tiller of towing tractor. The clamping distance is available in a nominal range of 20-60 mm. The effective height of hooking plate is 25 mm. The limiting bolt located on movable plate allows to prevent decoupling of trolley to the top, its position is adjustable according to your needs via repositioning to one of the available holes.
<b>CUSTOMIZED COUPLINGS</b>	Design your own coupling or request it from us.

## NEW GENERATION OF LI-ION BATTERY

### SMART LITHIUM BATTERY

Maintenance-free 24V Lithium battery and 24V intelligent charger for long operation time, fast charging and opportunity charging. The integrated BMS (Battery Management System) controls all important parameters and performance of lithium battery.

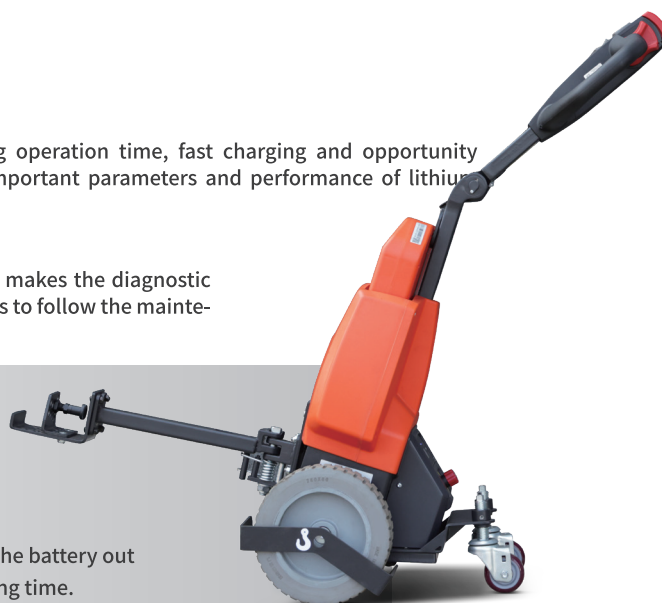
### MAINTENANCE FRIENDLY

The truck is equipped with Curtis controller and CAN-bus technology, which makes the diagnostic and troubleshooting easier. Amount of working hours shown at the panel helps to follow the maintenance schedule.

CAN-bus



Socket on battery case for easy battery charging without necessity to take the battery out  
Fast and opportunity charging during breaks in operations increases working time.





# Type sheet for industrial truck acc. to VDI 2198

1KG=2.2LB 1INCH=25.4MM

## Identification

1.2	Manufacturer's type designation		TE10Li
1.3	Drive		Battery
1.4	Operator type		Pedestrian
1.5	Load Capacity / rated load	Q (t)	1.0
1.8	Rated drawbar pul	F(N)	200
1.9	Wheelbase	y (mm)	325

## Weights

2.1	Service weight	kg	67
2.3	Axle load at no load, drive side/load side	kg	55/19

## Wheels, Chassis

3.1	Tires		Rubber
3.2	Tire size,front	Øx w (mm)	Ø 250 ×80
3.3	Tire size,rear	Øx w (mm)	Ø 75×32
3.5	Wheels,number front/rear(x=driven wheels)		2/2x
3.6	Tread, front	b10 (mm)	185
3.7	Tread, rear	b11 (mm)	385

## Basic Dimensions

4.9	Height of tiller in drive position min./ max.	h14 (mm)	750/1150
4.19	Overall length	l1 (mm)	915
4.21	Overall width	b1 (mm)	503
4.32	Ground clearance, centre of wheelbase	m2 (mm)	35

## Performance Data

5.1	Travel speed, laden/ unladen	km/h	4.5/4.9
5.5	Drawbar pull,laden/unladen	N	200/-
5.6	Max.drawbar pull,laden/unladen	N	550/-
5.10	Service brake		Electromagnetic

## E-Motor

6.1	Drive motor rating S2 60min	kW	0.4
6.3	Battery acc. to DIN 43531/ 35/ 36 A, B, C, no		NO
6.4	Battery voltage, nominal capacity K5	V / Ah	24/36
6.5	Battery weight	kg	7.5

## Other Details

8.1	Type of drive control		DC-Speed Control
8.4	Sound level at driver's ear acc. to EN 12053	dB(A)	<70

