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ISO45001:2018



ISO14001:2015



ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.



X SERIES

ELECTRIC TOW TRACTOR

With capacity of 6,000 to 18,000kg

LITHIUM POWERED



HANGCHA provides Li-ion battery (LiFePO₄) with 6 years or 12000 hours warranty.

**6 YEARS
WARRANTY**

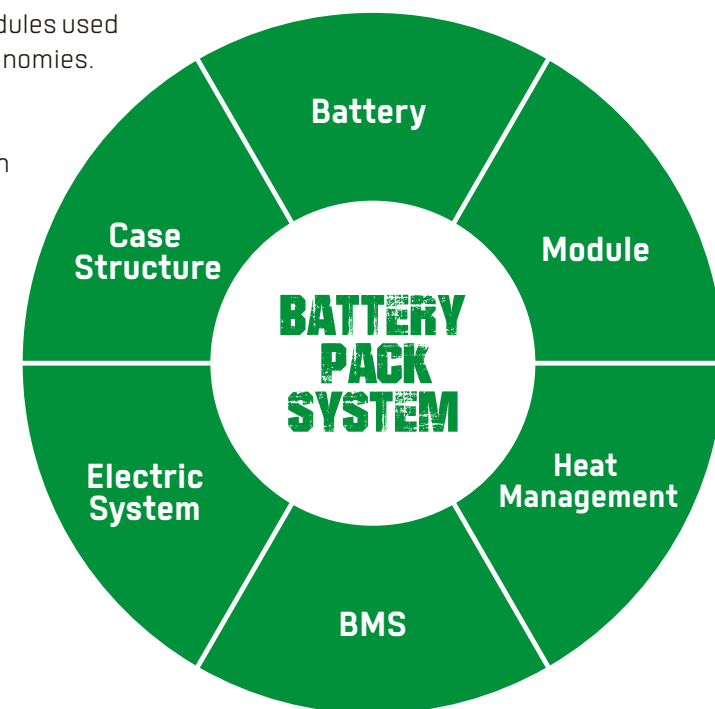
INNOVATIVE SOLUTIONS NEW POWER NOW

- / We use square lithium iron phosphate batteries and modules used in large quantities by commercial vehicles in mature economies.
- / Safe and effective: Charging efficiency as high as 95%.
- / Quick charging.
- / Long-working: 4000 charging cycles, capacity retention greater than 75%.
- / Maintenance-free: Battery does not require manual maintenance.
- / Green and clean: Pollution-free, zero emissions.



**Rapid charging and opportunity
charging ensure continuous
availability of vehicles**

Allow for fast full charging or boost charging.
They are maintenance free and do not require
a battery change when used for multi-shift
operations.



**POWERFUL DESIGN
TO INCREASE
PRODUCTIVITY**



X SERIES ELECTRIC TOW TRACTOR

Your reliable, powerful and connected working machine.

X series electric tow tractor (6-18t) are upgraded products. Through comprehensive upgrades in appearance, safety, reliability, advancement and comfort, the performance of the entire vehicle has been greatly improved compared to the original products. , to meet the traction operation needs of different users under various working conditions.

DESIGNED AROUND THE DRIVER

Large arcs and streamlined curved surfaces to form aesthetically pleasing appearance.

The optional fully enclosed cab is applicable to all-weather operations.



The wide-view cab with an integral frame is flexibly connected to the body, and has good sealing, sound insulation, vibration isolation and heat insulation, etc. as well as a large operation space to improve the driver's comfort.



Reliability and safety

- The main electrical components such as the motor controller, contactor, power plug and emergency cut-off switch are all quality products.
- Main force-bearing components such as the frame, drive axle and steering axle, etc. are designed to have high strength and meet heavy-duty operating conditions.
- The efficient AC power system has complete protection functions and greatly improved reliability and service life.
- Both front and rear wheels are equipped with brakes for flexible and reliable braking.



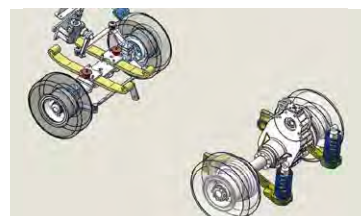
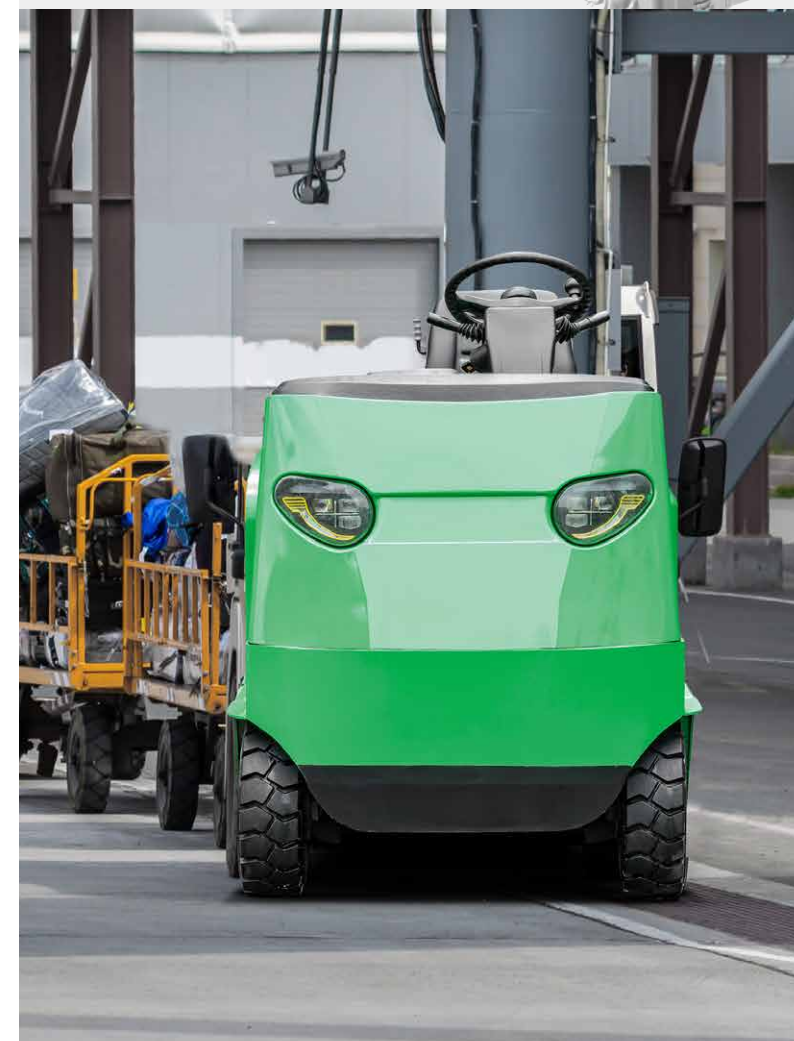
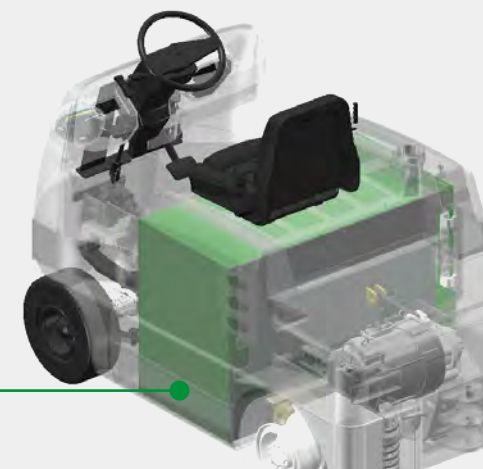
With advanced performance and forced air cooling, the fully-enclosed imported AC power system is safe and reliable.



Electronic parking braking: A more convenient and safer electronic hand brake is provided.

Stability

With the battery placed at the bottom of the vehicle frame, the vehicle has good stability.



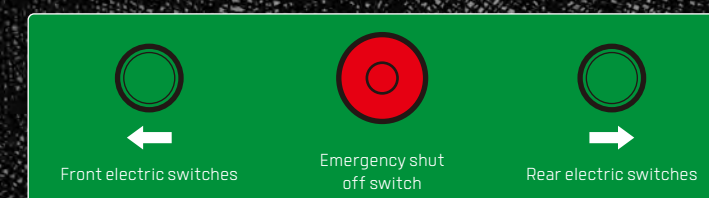
The front and rear axles equipped with a flexible suspension system offer less vibration and good comfort.



The operating pedals, instruments, hand wheel and switches are all provided according to ergonomic requirements and can be operated flexibly and easily.



Removed from a side of the vehicle, the battery provided for the standard configuration can be replaced and maintained more easily and is applicable to continuous operating conditions.



Operating switches at the rear of the vehicle:

There are front and rear electric switches and an emergency shut-off switch to enable easy and safe hooking.

The emergency shut-off switch equipped for the standard configuration complies with European safety standards.



REVOLUTIONARY PERFORMANCE.

- Instead of a traditional handbrake, an electromagnetic brake is used to realize the intelligent braking.
- With efficient and precise adjustment performance, the newly equipped AC control system supports longer operating hours after being charged once.
- With a driving speed up to 23km/h, the vehicle is efficient and fast.



LED System

The vehicle is equipped with LED lights, and the front turn signal lights use streamer technology.

Integrated LED headlights with functions of such as daytime running lights, high-beam low-beam and front turning streamers, etc., streamer LED tail lights and auxiliary side turn signal lights with strong alert function and offering higher safety.



LED-screen instruments

The large-screen LCD display and the gauges with fault self-diagnosis functions can accurately display information in harsh environments.

The LED-screen instruments have the functions of battery display, timer and fault self-diagnosis, without a handheld unit, maintenance and changing of the vehicle performance can be completed through the instruments. Faults are indicated in the form of a combination of codes and text, which are clearer and easier to read.



Remote control (optional):

Vehicle management system: With functions of vehicle status querying and recording, overspeed, door locking and radar alarm, etc., the equipment can be equipped with a 7-inch touch screen to make operations easier, facilitate all-round data display and real-time status reminding, and enable remote real-time monitoring, management and service.



The airport type lithium battery provided for the standard configuration can be charged in a short time and fully charged in 2 hours so that operating efficiency is effectively improved.



The world's leading horizontally-placed drive unit uses a special speed reducer with a large speed reduction ratio.

Optional battery list

	Capacity(Ah)	6t	8t	10t	12t	15t	18t
Lead-acid battery	300	●	—	—	—	—	—
	315	○	—	—	—	—	—
	345	○	—	—	—	—	—
	360	○	●	—	—	—	—
	375	○	○	—	●	—	—
	420	—	—	●	—	—	—
Lithium battery	450	—	—	○	○	●	●
	302	●	●	—	●	●	—
	456	○	○	●	○	○	●
	604	—	—	—	○	○	○

Note: ● Standard battery capacity ; ○ Optional battery capacity;



Features

Truck	Standard	Options
Electric power steering (12 - 18t)	●	
Simple canopy (without windows and wipers)		○
Simple canopy (with windows and wipers)		○
Specifications of traction device		○
Optional imported branded battery		○
Electric power steering (6 - 10t)		○
Controls and instruments		
Emergency shut-off switch	●	
Large LCD display	●	
Safety		
Horn, reversing buzzer	●	
Acoustic and optical alarm		○
Reversing voice buzzer		○
Alarm light		○
Fire extinguisher		○
Maintenance		
Battery removed sideways	●	
Lights		
LED headlights (high-beam / low-beam), turn signal lights, combination LED three-color tail lights	●	
Blue light		○
LED rear lights		○
Other		
Terminal power supply		○
Ultra-elastic solid tire		○
Cloud intelligent forklift management system		○
Charger		○
Seat with safety belt	●	
Cup holder, toolbox	●	
Left and right retrorreflectors (in conjunction with canopy and cab for the standard configuration)		○
Fan (in conjunction with canopy and cab)		○
Optional special seat		○
Fully enclosed cab		○
Chair sensing system		○
Decoupling hook-equipped traction pin		○

Maintainability

- The brushless AC motor is maintenance-free and significantly reduces the operating cost.
- The easy-to-remove rear platform hood facilitates the commissioning and maintenance of the electrical control system.
- The battery removed from a side of the vehicle enables easy repair and maintenance of the battery.
- The electrical control and electrical components are placed together and highly integrated.

X Series Electric Tow Tractor Specification

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.								
	1.2	Manufacturer's type designation		QSD60-XD3-M(I)	QSD80-XD3-M(I)	QSD100-XXD3-M(I)	QSD120-XC1-M(I)	QSD120-XC1-MITS	QSD150-XC1-M(I)	QSD150-XC1-MITS	QSD180-XC1-M(I)	QSD180-XC1-MITS
	1.5	Rated capacity /rated load	Q(kg)	6000	8000	10000	12000	12000	15000	15000	18000	18000
	1.7	Rated drawbar pull	F(N)	1500	2000	2500	3800	3800	4500	4500	4800	4800
Weight	1.9	Wheelbase	y(mm)	1340	1340	1340	1350	1240	1350	1240	1350	1240
	2.1	Service Weight	kg	1200(1150)	1300(1250)	1550(1385)	2230(1750)	1900	2470(2030)	1950	2470(2100)	2220
	2.2	Axle loading, front/rear	kg	570/630(530/620)	570/730(530/720)	700/850(570/810)	790/1440(530/1220)	525/1375	850/1620(520/1510)	590/1360	850/1620(520/1580)	720/1500
	3.2	Tyre size, front		4.00-8	4.00-8	4.00-8	16.6-8	4.00-8	16.6-8	4.00-8	16.6-8	4.00-8
Tyres, chassis	3.3	Tyre size, rear		4.00-8	4.00-8	4.00-8	18.7-8	18x7-8	18.7-8	18x7-8	18.7-8	18x7-8
	3.5	Wheels, number front / rear (x = driven wheels)		2/2x	2/2x	2/2x	2/2x	2/2x	2/2x	2/2x	2/2x	2/2x
	3.6	Tread, front	b10(mm)	879	879	879	880	778	880	778	880	778
	3.7	Tread, rear	b11(mm)	870	870	870	910	910	910	910	910	910
Dimensions	4.7	Height of overhead guard	h6(mm)	1340	1340	1340	1430	1585	1430	1585	1430	1585
	4.12	Coupling height	h10(mm)	274/330/386	274/330/386	274/330/386	350/450	350/450	350/450	350/450	350/450	350/450
	4.19	Overall length	l1(mm)	2050	2050	2050	2250	2020	2250	2020	2250	2020
	4.21	Overall width	b1(mm)	996	996	996	1100	1100	1100	1100	1100	1100
Performance data	4.32	Ground clearance, centre of wheelbase	m2(mm)	135	135	135	135	135	135	135	135	135
	4.35	Turning radius	W4(mm)	2400	2400	2400	2600	1720	2600	1720	2600	1720
	5.1	Travel speed, laden/unladen	km/h	-/18	-/18	-/18	-/23	-/23	-/23	-/23	-/23	-/23
	5.5	Drawbar pull at 60 minute rating	N	1500	2000	2500	3800	3800	4500	4500	4800	4800
Electric-engine	5.6	Max. Drawbar pull at 5 minute rating	N	4500	6000	7500	12000	12000	15000	15000	16000	16000
	5.7	Gradeability, laden/unladen	%	-/25	-/25	-/25	-/25	25	-/25	25	-/25	25
	5.10	Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
	6.1	Drive motor rating S2 60 min	kW	4.5	4.5	4.5	16	16	16	16	16	16
Electric-engine	6.4	Battery voltage, nominal capacity K5	V/Ah	48/300(48/268)	48/360(48/268)	48/420(48/400)	80/375(80/302)	80/302(Li-ion)	80/450(80/302)	80/302(Li-ion)	80/450(80/456)	80/456(Li-ion)
	6.5	Battery weight	kg	502(195)	560(195)	685(236)	960(450)	450	1150(450)	450	1150(450)	450

a) m2 refers to the height of the middle of the vehicle body above the ground, with a minimum ground clearance of 100mm .

