

LI-ION
TECHNOLOGY

INNOVATIVE LITHIUM-ION



X Series Electric Lithium-ion Tow Tractor

with capacities of 44,000 to 70,000lbs

The World of Hangcha
SINCE 1956





HANGCHA

320

HANGCHA

Exterior

/ Although it has a stylish profile thanks to its large wheel arches and streamlined surfaces, the X Series Tow Tractor is still built to withstand punishing operational environments. The tow tractor is built with a streamlined integral steel structure to enhance its durability.

Safety

- / The IMOTION integrated control system ensures smooth and accurate driving control. It also provides excellent speed regulation, regenerative braking, reverse braking, and anti-sliding on ramps. The control system adds to the safety and reliability of the X Series Tow Tractors.
- / The electric vacuum assisted braking system uses a double-chamber and double-pipeline all-wheel braking design with front and rear dynamic proportional partial pressure control to perform safe and reliable braking. The large-capacity vacuum cylinder is designed to also work when the truck is not on. If the operator pumps the pedal six times, it reliably assists braking when the vehicle is not on to increase operational safety.
- / The tow tractor features an emergency cut off switch.
- / The S-EPS (Electric Power Steering) synchronous steering system and the synchronous steering axle operate according to road conditions to ensure straight driving and safe and reliable steering.
- / The pull rod is equipped with a double safety hook feature to prevent misoperation of the pull rod. Although simple, it greatly improves the reliability and safety of the tow tractor.
- / The tow tractor features an IPX5 water resistance rating. Key electronics are placed in a high position inside of the tractor's body to prevent road surface water from getting the electronics wet. This ensures strong wading ability, safety, and reliability.

Comfort

- / The large multi-functional instrument display is positioned in front of the operator for clear visibility and easy access to adjust the functions of the tractor. The combination rocker switches are also placed in an easy to reach position.
- / The entire cab is suspended thanks to its integral steel frame being flexibly connected to the chassis. This allows the cab to be well sealed from the outdoor elements, provide sound and heat insulation, and have less vibration transferred to the operator. All of this combined with the suspension seat provides the operator with a comfortable working environment.
- / The chassis' elastic suspension technology and long wheelbase design enable a more comfortable operating experience.
- / The large cab and low boarding steps allow the operator to easily get on and off the vehicle.
- / The ergonomically designed tilt-adjustable small-diameter steering wheel combined with a seat with 6" of adjust-ability allows the operator to find their optimal driving position. This allows the operator to be more productive.

Reliability

- / Important components, such as the switches, connector clips, and instruments, are all parts from industry known suppliers to ensure reliability, performance, and ease of service.
- / The brushless AC travel motor features excellent acceleration, outstanding climbing ability, low heat emission, and is maintenance-free.
- / The easy-to-dismount electric controller, wide opening hood, and the rear hood make maintaining the tow tractor very convenient.
- / The Lithium Iron Phosphate battery pack requires no maintenance making the tow tractor extremely reliable.



Advancement

- / The high performance AC power system provides precise speed regulation and increases productivity.
- / The highly efficient lithium iron phosphate battery is installed vertically. The standard 80V/404Ah battery pack can last for a long time.
- / The LED instrument display provides the operator with a battery display and timer. Changing the settings of the vehicle's performance can be completed through the controller's display. Faults are also indicated on this display in the form of easy to read codes and text.
- / The operating switches at the rear of the vehicle include front and rear jog switches and an emergency shut-off switch.
- / The vehicle is equipped standard, with LED lights and integrated high-beam and low-beam headlights.
- / The electrical components are cooled using forced air cooling and heat dissipation. They are dust and water resistant.
- / The inching buttons and an emergency cut off switch are located on the rear panel of the tow tractor's body. This allows the operator to move the tractor forward and backward and engage the towing mechanism without needed to get in and out of the tractor.



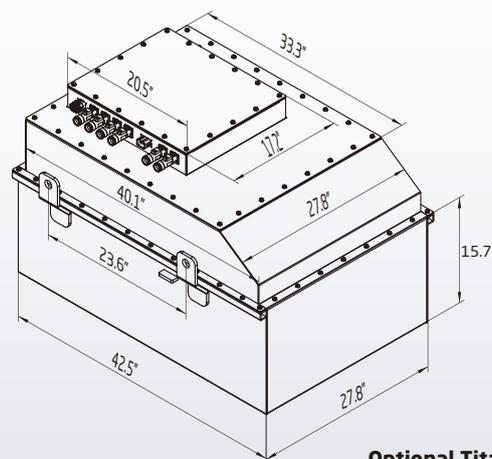
Environmentally Friendly

- / The tow tractor runs quietly meaning that there is no excessive noise pollution when operating it.
- / Because of the lithium-ion technology, the tow tractor is extremely efficient. This allows it to save energy.
- / The lithium-ion technology also doesn't release any harmful pollution into the environment, meaning that it is environmentally friendly.

CATL Lithium Iron Phosphate Battery Packs

- / Integrated Battery Management System (BMS) continually monitors energy management and ensures reliable operation.
- / HANGCHA provides these Lithium Iron Phosphate (LiFePO4) battery packs with up to a 5 year or 10,000 hour warranty.
- / See warranty certificate for specific warranty information on the Lithium Iron Phosphate battery packs.

Battery Capacity	Standard	Optional	Optional
Battery Capacity [V/Ah] [kW-h]	80V/404Ah 32.32kW-h	80V/542Ah 43.36kW-h	80V/808Ah 66.24kW-h



Standard Titan Charger
(80V/200Ah)



Optional Titan Dual
Charging Guns Charger
(80V/400Ah)



Standard Specification

- / LED Headlights (High & Low Beam)
- / Turn Signal
- / Combination Rear LED Lights
- / Multi-function Instrument Cluster
- / Electric Horn
- / Backup Alarm
- / Interior Courtesy Light
- / USB Interface
- / Boarding Handle
- / Adjustable Steering Wheel
- / Standard Seat
- / Front Wiper
- / Standard Lithium Iron Phosphate Battery Pack
- / Reflective mirror
- / Jog Switch
- / Large Integral Rubber Pedal Pads
- / High-Power AC Drive System
- / Electric Power Assisted Synchronous Steering System
- / Vacuum Assisted Hydraulic Braking
- / Fully Enclosed Cab
- / Sunshade
- / Standard Tow Pin

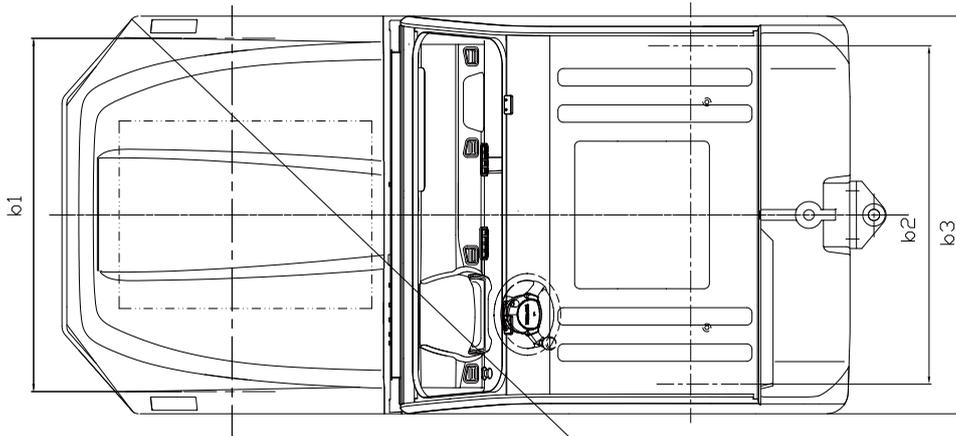
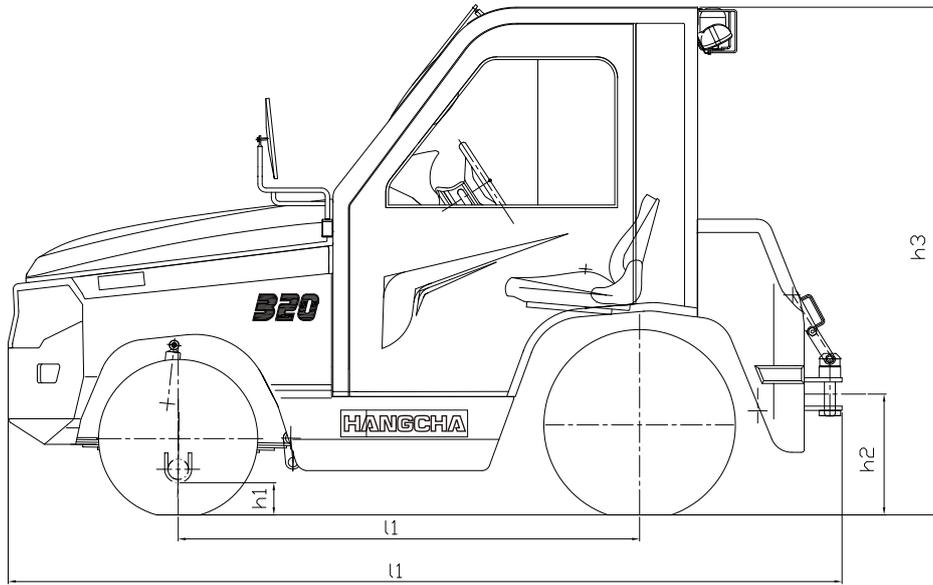
Options

- / Semi-Enclosed Cab
- / No Cab
- / Heater
- / Air Conditioner
- / Suspension Seat
- / Operator Presence System
- / Tow Pin Height Scheme
- / Rear Platform Rail
- / Large Capacity Lithium Iron Phosphate Battery Packs with capacities of 542Ah or 808Ah
- / Deceleration when Turning Function
- / Backup Camera
- / Battery Charger
- / Fire Extinguisher
- / Speed Limiter
- / Monitoring Equipment

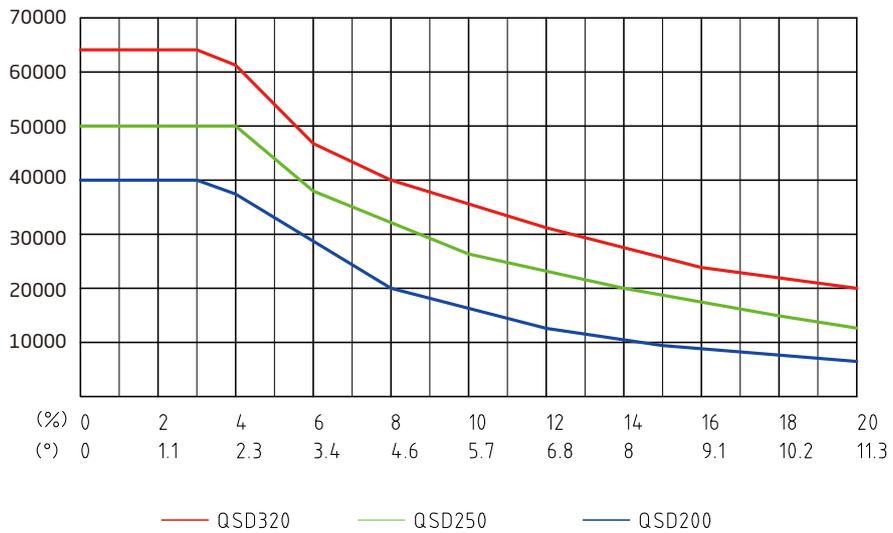
X Series Electric Lithium-ion Tow Tractor Specification

Distinguishing Marks	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
		HCFA Model Designation	BT200Li	BT250Li	BT320Li	
	1.2	Manufacturer's Type Designation	QSD200-XD2-MI	QSD250-XD2-MI	QSD320-XD2-MI	
	1.5	Rated Capacity/Rated Load	Q (lb/t)	44000/20	55000/25	70000/32
	1.7	Rated Drawbar Pull	F(lbf/N)	2248/10000	2473/11000	2698/12000
	1.9	Wheelbase	y (in/mm)	67/1710	67/1710	67/1710
Weight	2.1	Service Weight	lb/kg	7496/3400	8466/3840	8907/4040
	2.2	Axle Loading, front/rear	lb kg	2050/5445 930/2470	2624/5842 1190/2650	2624/6393 1190/2900
Tires & Chassis	3.2	Tire Size, front		6.50-10-10PR	6.50-10-10PR	6.50-10-10PR
	3.3	Tire Size, rear		7.00-12-12PR	7.00-12-12PR	28×9-15-14PR
	3.5	Wheels, number front / rear (x = driven wheels)		2/2	2/2	2/2
	3.6	Tread, front	b ₁₀ (in/mm)	52/1322	52/1322	52/1322
	3.7	Tread, rear	b ₁₁ (in/mm)	50/1260	50/1260	50/1260
Dimensions	4.7	Height of Overhead Guard (cabin)	h ₆ (in/mm)	58/1480	58/1480	58/1480
	4.12	Coupling Height	h ₁₀ (in/mm)	19.5/17.7/16 495/450/405	19.5/17.7/16 495/450/405	19.5/17.7/16 495/450/405
	4.19	Overall Length	l ₁ (in/mm)	122/3090	122/3090	122/3090
	4.21	Overall Width	b ₁ (in/mm)	58/1480	58/1480	58/1480
	4.32	Ground Clearance, centre of wheelbase	m ₂ (in/mm)	5/120	5/120	5/120
	4.35	Turning Radius	W ₃ (in/mm)	132/3350	132/3350	132/3350
Performance Data	5.1	Travel Speed, laden/unladen	mph kph	-/16 -/25	-/16 -/25	-/16 -/25
	5.5	Drawbar Pull at 60 Minute Rating	lbf/N	2248/10000	2473/11000	2698/12000
	5.7	Gradeability, laden/unladen	%	- / 33%	- / 33%	- / 33%
	5.10	Service Brake		Hydraulic	Hydraulic	Hydraulic
Electric Motor	6.1	Drive Motor Rating at S2 60 min	hp/kW	40/30	40/30	40/30
	6.4	Battery Voltage, nominal capacity K5	V/Ah	80/404	80/404	80/404
	6.5	Battery Weight	lb/kg	838/380	838/380	838/380





(lbs) (lbs) / %





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