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ISO 45001
ISO 45001:2018



ISO 14001
ISO 14001:2015



ISO 9001
ISO 9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.

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X Series Electric Tow Tractor

with capacities of 10,000 to 32,000kg

The World of Hangcha



Easy/
Efficiency/
Economy



Appearance

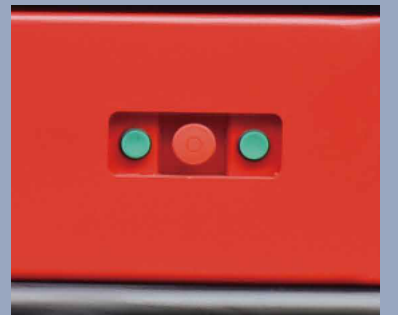
/ With the integrated steel structure, the internationally-fashionable large arc and streamline pattern is utilized. The appearance is beautiful. The vehicle is applicable to such works as traction, pushing and handling.

Safety

- / Advanced AC control system-The high-frequency IMOTION integrated controller can guarantee stable and accurate vehicle running. The motor has fine electric control matching performance, and has such functions as stable start-up, regenerative braking, plug braking, anti-slip at ramp and so on. It is energy-saving, high-efficiency, safe and reliable.
- / With the vacuum servo braking system, double-cavity and double-pipe are arranged in X lay-out. The front and rear parts are provided with differential pressure. All wheels can be braked. The servo ratio is great, braking is safe, stable and reliable; with the vacuum bucket design, when the power is ineffective, servo braking can be reliably realized.
- / The mater electric switch is provided, the vehicle safety can be guaranteed through emergency power shut-off.

Advancedness

- / The fully AC power system provides strong power and more accurate speed-adjusting performance. AC power system is used for both running and steering.
- / The high-efficiency power system and high-performance battery extend the operating time after one charging.
- / The LED display instrument of the international first-class brand is utilized; such instrument has functions of electric quantity display, timing meter and failure self-diagnosis. Without the handheld unit, changing vehicle performance and overhaul can be completed via the instruments. The failure will be displayed both in code and text, which is more visual and easy for reading.
- / At the vehicle rear side, there are the operating switches (front and behind electric switches, emergency power shut-off switch).
- / The vehicle battery can be replaced through being hoisted or laterally moved out, which provides convenience for use by the user(20-32t).
- / The electric system of the whole vehicle utilizes the waterproof design; the electric control utilizes the forced cooling and can also have functions of heat emission, air guide, dust prevention, waterproofing.
- / The bottom plate at the rear part of the vehicle can be used as the loading platform.



At the vehicle left rear side, there are the operating switches (front and behind electric switches, emergency power shut-off switch). The hook can be conveniently and safely manipulated



The imported and fully AC power system has advanced performance, is fully enclosed, utilizes forced air-cooling and is safe and reliable



Remote control (optional): Vehicle management system: Vehicle status enquiry and record, alarm for overspeed, door lock, radar and so on. The equipment can be provided with 7-inch touch screen. The operation is simple and convenient. With overall data display & real-time status reminding, monitoring, management and service can be realized in remote way



With the internationally-advanced and transversely-arranged driving unit, the special reduction gearbox is utilized, and the great reduction ratio design is used

Stability

/ The battery is placed at the bottom of the vehicle frame and between the front axle and rear axle. With the ultra-low gravity center, the excellent stability of the whole vehicle is ensured.

Comfort

/ The man-machine interactive system utilizes the new-type digital panel and combined rocker switch, the vehicle travel condition can be displayed clearly, and it is simple, reliable and visual.

/ With such special technologies for vehicle as transversely-arranged oil cylinder steering axle, fully-hydraulic steering device and so on, the steering radius is small, and the special operating force is less than 10N.

/ With the advanced chassis elastic suspension technology and long wheelbase design, the vehicle has fine smoothness.

/ The integrated driver's cab has large visual field and is made of irregular tubes. The driver's cab is flexibly connected to the vehicle body, has fine tightness, can isolate sound, vibration, heat and so on. Better comfort is offered for the driver. With the wide operating space and lower boarding/get-down pedal, the operator can board or get down conveniently.

/ The front and rear angles of inclination of the steering wheel are adjustable; the seat can be adjusted by 150mm to front or rear. The operator can select the best driving position.

Environmental protection

/ With such advantages of mute, non-pollution and saving energy, the environmental protection requirements can be met.

/ The whole vehicle utilizes the asbestos-free material.

Maintainability

/ Such electric elements as electric control, contactor, instrument, accelerator and so on are products of internationally well-known brands, and have high reliability.

/ AC power system is used for both running and steering. The motor is maintenance-free, and the maintenance cost for carbon brush replacement and so on is reduced.

/ With the rear cover design provided with air spring, large openness and barrier-free rear view, maintenance for such electric elements as battery, motor, controller and so on is very convenient.

Standard specification

/ LED Head lamp (high beam head lamp and dipped head lamp)

/ Boarding handle

/ Large and integrated rubber pedal cushion

/ Steering signal lamp

/ Steering wheel adjustable device

/ High-power AC drive system

/ LED rear work lamp assembly

/ Standard seat

/ Fully hydraulic steering

/ Multi-functional combined instrument

/ Front windshield wipers

/ Vacuum servo hydraulic brake

/ Electric horn

/ Front windshield wiper water

/ Standard battery

/ Reversing buzzer

/ Reflecting mirror

/ Fully-enclosed driver's cab

/ Top light

/ Inching switch

/ Sun-shield

/ Standard traction pin

/ Front bumper

/ EPB(Electronic Parking Brake) (20-32t)

Options

/ High-performance imported lead-acid battery

/ Speed limit

/ Warm air blower

/ Large-capacity domestically-made lead-acid battery

/ Speed limit alarm

/ Solid tyre

/ Domestically-made lithium iron phosphate battery

/ Traction pin height solution

/ Semi-enclosed driver's cab

/ Imported lithium iron phosphate battery

/ Alarm light

/ Rear windshield wipers

/ Battery charger

/ Rear work light

/ Rear windshield wiper water

/ Suspended seat

/ Extinguisher

/ Remote management system

/ EPB(Electronic Parking Brake) (1.0-1.5t)

/ Fan



The integrated driver's cab has large visual field and is made of irregular tubes. The driver's cab is flexibly connected to the vehicle body, has fine tightness, can isolate sound, vibration, heat and so on. With the wide operating space, better comfort is offered for the driver.



The large LED display screen has functions of electric quantity display, timing meter and failure self-diagnosis. Without the handheld unit, changing vehicle performance and overhaul can be completed via the instruments. The failure will be displayed both in code and text, which is more visual and easy for reading.



The battery can be replaced through being hoisted or laterally moved out, which provides convenience for use by the user(20-32t).



Equipped with electronic parking brake, more convenient and safer (20-32t).



X

Series

Electric Tow Tractor



X series 10-32t Electric Tow Tractor Specification

Distinguishing mark	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.									
	1.2	Manufacturer's type designation	QSD100-XC2-1S1*	QSD150-XC2-1S1*	QSD200-XD3*	QSD200-XD3-1*	QSD250-XD3-L*	QSD250-XD3*	QSD250-XD3-IL*	QSD320-XD3-L*	QSD320-XD3*	QSD320-XD3-IL*
Weight	1.5	Rated capacity/rated load	Q(t)	10	15	20	20	25	25	32	32	32
	1.7	Rated drawbar pull	F(N)	3200	4000	6300	6300	6300	6300	7000	7000	7000
Tyres, chassis	1.9	Wheelbase	y(mm)	1210	1410	1475	1475	1760	1760	1760	1475	1760
	2.1	Service Weight	kg	2150	2550	3450	3250	4350	3650	3850	4550	4050
	2.3	Axle loading, unladen front/rear	kg	950/1200	1000/1550	1410/2040	1150/2100	1800/2550	1350/2300	1500/2350	1820/2730	1635/2350
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic	pneumatic
	3.2	Tyre size, front		6.00-9	6.00-9	6.50-10	6.50-10	6.50-10	6.50-10	6.50-10	6.50-10	6.50-10
	3.3	Tyre size, rear		7.00-12	7.00-12	7.00-12	7.00-12	7.00-12	7.00-12	7.00-12	28x9-15	28x9-15
	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)	1124.5	1124.5	1124.5	1124.5	1124.5	1124.5	1124.5	1124.5	1124.5
	3.7	Tread, rear	b11 (mm)	1170	1170	1170	1170	1170	1170	1170	1150	1150
	4.7	Height of overhead guard (cabin)	h8 (mm)	1875	1875	1895	1895	1895	1895	1895	1895	1895
Dimensions	4.12	Coupling height	h10 (mm)	450/350	450/350	550/450/350	550/450/350	550/450/350	550/450/350	550/450/350	550/450/350	550/450/350
	4.16	Length of loading surface	l3 (mm)	1285	1485	1640	1640	1925	1640	1925	1640	1925
	4.17	Overhang	l5 (mm)	710	710	710	710	710	710	710	710	710
	4.18	Width of loading surface	b9 (mm)	1080	1080	1165	1165	1165	1165	1165	1165	1165
	4.19	Overall length	l1 (mm)	2900	3100	3165	3165	3450	3165	3450	3165	3450
	4.21	Overall width	b1, b2 (mm)	1300/1350	1300/1350	1300/1380	1300/1380	1300/1380	1300/1380	1300/1380	1300/1380	1300/1380
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	130	130	150	150	150	150	150	150	150
	4.35	Turning radius	W6 (mm)	2500	2750	2825	2825	3350	2825	3350	2825	3350
Electric engine data	5.1	Travel speed, laden/unladen	km/h	11/20	11/20	11/25	11/25	11/25	11/25	11/25	11/25	11/25
	5.6	Max. drawbar pull, laden/unladen	N	-/10000	-/14000	-/20000	-/20000	-/20000	-/20000	-/26000	-/26000	-/26000
	5.7	Gradeability, laden/unladen	%	-/25	-/25	-/33	-/33	-/33	-/33	-/33	-/33	-/33
	5.10	Service brake		Hydraulic/ Mechanical	Hydraulic/ Mechanical	Hydraulic/ Electromagnetic	Hydraulic/ Electromagnetic	Hydraulic/ Electromagnetic	Hydraulic/ Electromagnetic	Hydraulic/ Electromagnetic	Hydraulic/ Electromagnetic	Hydraulic/ Electromagnetic
	6.1	Drive motor rating S2 60 min	kW	8	16	30	30	30	30	30	30	30
	6.4	Battery voltage, nominal capacity K5	V/Ah	48/456(Lithium)	80/456(Lithium)	80/500	80.5/456(Lithium)	80/775	80/500	80/456(Lithium)	80/775	80/620

Note: * CE model

