



HANGCHA

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ISO14001
ISO14001:2015



ISO9001
ISO9001:2015



HANGCHA trucks conform
to the European Safety
Requirements.



X series Electric Tow Tractor

with capacities of 6,000 to 10,000kg

The World of Hangcha



**Environment/
Efficiency/
Economy**



Appearance

- / Large arc-shaped, streamlined surface modeling is adopted, with beautiful and elegant appearance.

Comfort

- / Fully flexible suspension system is adopted for both front and rear axles, featuring small vibration and comfortable operation.
- / The battery of standard configuration is removed from truck side, so that maintenance and replacement of the battery is more convenient and rapid, which is suitable for continuous operation.
- / The optional fully-enclosed cab is suitable for operation in all kinds of weather conditions.

Stability

- / The battery is sunk to bottom of carriage, so the truck has good stability.

Advancement

- / Electromagnetic brake is adopted as parking brake, instead of traditional hand brake, so as to realize intelligent parking braking.
- / Fully flexible suspension system is adopted for both front and rear axles to ensure comfortable driving of the operator.
- / Large-screen LCD display and failure self-diagnosis instrument are applied to enable accurate display even in harsh environment.
- / The newly configured AC control system offers efficient, accurate adjustment performance, and extends working hours for single charge.
- / All lights of the truck are of LED, and the latest streamer technology is applied for front turn signal lamps.
- / The entire truck features high speed and high efficiency, with maximum travel speed up to 18km/h.



The battery can be removed from truck side, so it is very convenient for battery maintenance



Loading platform, easy to load and unload goods



Various operating pedals, instruments, steering wheel, and switches are configured based on ergonomic requirements, and are comfortable and flexible for operation



Upon special design, the traction device can prevent the towing pin coming off during traveling



Low-level widely open foot board is very convenient for the operator to get on / off the truck

X Series

Electric Tow Tractor



Reliability and Safety

- / Motor controller, contactors, power socket, emergency power off switch and other main electric elements are all of famous brands from abroad.
- / Carriage, drive axle, steering axle and other main load-bearing parts are designed as high-strength parts, so as to meet heavy-load working conditions.
- / As standard configuration, emergency power off switch meets European safety standard.
- / AC power system features high efficiency, complete protection functions, and substantially higher reliability and service life.
- / Both front and rear wheels are equipped with brake to realize flexible and reliable braking.

Easy Maintenance

- / The brushless, maintenance-free AC motor reduces operation cost significantly.
- / The easily-removable rear deck cover is convenient for debugging and maintenance of electronic control system.
- / Electronic control and electric elements are placed together with high degree of integration.

Standard specification

- / LED headlamp (high beam, low beam), direction indication lamp, LED rear three-color combination lamp
- / DIN Battery
- / Horn, back-up beeper
- / Emergency power off switch
- / Large LCD display
- / Battery side roll out
- / Seat with safety belt



Cup holder, tool box

Options

- / Simple canopy (with no windshield and windshield wipers)
- / Simple canopy (with windshield and windshield wipers)
- / Fully-enclosed cab
- / Fan (together with canopy or cab)
- / Alarm light
- / Specification of traction system (see Table 1)
- / Right and left rear-view mirrors (standard configuration for canopy, cab)
- / On-seat operation of traction pin
- / Fire extinguisher
- / Blue-light Lamp
- / Audible and visual alarm
- / LED rear working lamp
- / OPS system
- / Voice back-up beeper
- / Optional special seat
- / Optional imported brand battery
- / Super-elastic solid tires
- / Charger



HANGCHA

X80

HANGCHA X80

X series 6.0-10t Electric Tow Tractor Specification

Distinguishing mark	00060-XD2		00070-XD2		00070-XD2-L		00080-XD2		00080-XD2-L		00090-XD2		00090-XD2-L		00100-XD2	
	Model	Electric	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat
1.1 Manufacturer	HANICHA GROUP CO., LTD.															
1.2 Model	00060-XD2		00070-XD2		00070-XD2-L		00080-XD2		00080-XD2-L		00090-XD2		00090-XD2-L		00100-XD2	
1.3 Drive	Electric		Electric		Electric		Electric		Electric		Electric		Electric		Electric	
1.4 Maximal pedestrian stand-on, seated order picker operation	0		0		0		0		0		0		0		0	
1.5 Load capacity/rated load	6000		7000		7000		8000		8000		9000		9000		10000	
1.7 Rated tractive power	F/150		1750		1750		2000		2000		2250		2250		2500	
1.9 Wheelbase	1035		1035		1035		1035		1035		1035		1035		1250	
2.1.1 Netweight incl battery (see row 6.5)	1270		1270		1450		1390		1450		1500		1500		1550	
2.3 Axle load without load/with load	540/680		590/680		700/750		590/740		700/750		590/750		700/800		700/850	
3.1 Tyres, front/rear	Pneumatic/Pneumatic		Pneumatic/Pneumatic		SE/Pneumatic		SE/Pneumatic		SE/Pneumatic		SE/Pneumatic		SE/Pneumatic		SE/Pneumatic	
3.2 Tyre size front	400-8		400-8		400-8		400-8		400-8		16-6-8		16-6-8		400-8	
3.3 Tyres, number front/rear (* = driven wheels)	4/2x		4/2x		4/2x		4/2x		4/2x		4/2x		4/2x		4/2x	
3.5 Tyre tread width front	0		0		0		0		0		0		0		0	
3.7 Tyre tread width rear	Ø70		Ø70		Ø70		Ø70		Ø70		Ø70		Ø70		Ø70	
4.7 Height of overhead guard	2140		2140		2140		2140		2140		2140		2140		2140	
4.8 Seat height/ground height	1020		1020		1020		1020		1020		1020		1020		1020	
4.12.1 Coupling height	274		274		274		274		274		274		274		274	
4.12.2 Over all height	380		380		380		380		380		380		380		380	
4.12.3 3 coupling height	386		386		386		386		386		386		386		386	
4.13 Loading weight without load	686		686		686		686		686		686		686		686	
4.16 Loading axle length	395		395		395		395		395		395		395		395	
4.17 Overhang length	350		350		350		350		350		350		350		350	
4.18 Loading axle width	508		508		508		508		508		508		508		508	
4.24 Overall width	1890		1890		1890		1890		1890		1890		1890		1890	
4.25 Overall width	396		396		396		396		396		396		396		396	
4.33 Overall rear axle distance	1345		1345		1345		1345		1345		1345		1345		1345	
4.35 Overall front axle distance	1450		1450		1450		1450		1450		1450		1450		1450	
4.36 Overall axle distance	1450		1450		1450		1450		1450		1450		1450		1450	
5.1 Overall front axle load	11218		10578		10578		9278		9278		9278		9278		9278	
5.5 Overall rear axle load	1500		1750		1750		2000		2000		2250		2250		2500	
5.6 Max. operating and maximum	4500		5250		5250		6000		6000		6750		6750		7500	
5.7 Gradeability/maximum	9/25		5/25		5/25		5/25		5/25		5/25		5/25		5/25	
5.10 Service brake	hydraulic		hydraulic		hydraulic		hydraulic		hydraulic		hydraulic		hydraulic		hydraulic	
6.1 Drive motor output	52.60 kW		52.60 kW		52.60 kW		52.60 kW		52.60 kW		52.60 kW		52.60 kW		52.60 kW	
6.3 Battery as per DIN43531	A 43511		A 43511		A 43511		A 43511		A 43511		A 43511		A 43511		A 43511	
6.4 Battery volumetric nominal capacity	48/300		48/300		48/300		48/300		48/300		48/300		48/300		48/300	
6.5 Battery weight	502		502		695		560		695		560		695		560	
8.1 Type of drive control	AC		AC		AC		AC		AC		AC		AC		AC	
8.4 Sound pressure level at operator's ear as per EN12053	60		60		60		60		60		60		60		60	

Battery specification

Battery voltage(V)	Capacity (Ah)	Gr	Zr	BR	9r	10r	7L	8L	9L
300	300	●	○	○	○	○	○	○	○
380	380	○	○	○	○	○	○	○	○
420	420	○	○	○	○	○	○	○	○
500	500	○	○	○	○	○	○	○	○
600	600	○	○	○	○	○	○	○	○

● Battery 30d ... Battery Opt 7L means Zr long wheelbase/SL means Br long wheelbase/SL means 8r long wheelbase

Traction device specification

Sd	Coupling height (mm)	Maximum rise (mm)
Opt 1	274/330/386	50
Opt 2	210/274/330	50
	330/386/442	50



v= speed (km/h), m= incline (%), F= drawbar pull (N)

Using method: It requires about 1250N traction for towing when the QDD60-XD2 tow tractor travels on 5% upward slope by towing 3t load and in such case the travel speed is 7.3km/h approximately.

Warning: Better apply tow tractor with brake when gradient of downward slope is over 4%.

