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A Series Electric Tow Tractor

with capacities of 4,500, 9,000, & 13,500lbs

Making Material Handling Easier
SINCE 1956



A Series Electric Tow Tractor

The compact A Series Electric Tow Tractor features Hangcha's advanced AC drive control technology. This technology provides the tractor with excellent performance, safe and reliable operation, and low maintenance costs. The electric tow tractor is a highly efficient tool perfect for keeping materials flowing among different zones in workshops, flow lines, airports, and large manufacturing facilities.

**Simple
Solid
Smart**



Appearance

- / The A Series Electric Tow Tractor has a smooth vivid profile and was designed to be ergonomic. The exterior of this tow tractor is powder coated in a durable, easy to see, red finish.
- / This tow tractor uses stamped steel plates and injection molded parts. This creates a robust and durable product that is able to successfully take on the wear and tear of its operational environment.

High Performance

- / The tow tractor features electric power steering as a part of its standard configuration. This makes maneuvering and load handling extremely easy.
- / The brushless AC travel motor features excellent acceleration, outstanding climbing ability, low heat emission, and is maintenance-free.
- / The AC control system is highly efficient thanks to its accurate and stable control.
- / The CANBUS structure makes communication between all of the machine's functions faster and more reliable.

Comfort

- / The LED headlights provide excellent illumination. This allows the operator to better see their operational environment when it is dark.
- / The multi-functional instrument display allows the operator to easily display different information and change many of the tow tractor's functions.
- / The front and rear axle suspension structure provides a comfortable operating experience when traveling in the tow tractor.
- / The standard USB charging port and mobile phone slot provide a convenient place for the operator to charge and store their phone.
- / The inching buttons are located on the back rear quarter panel of the tow tractor's body. This allows the operator to move the tractor forward and backward and engage the towing mechanism without needing to get in and out of the tractor.



Reliable LED Lighting



The Tow Tractor features the battery side roll out feature standard in order to replace the battery fast and easy.



Modern Outline Design with a LCD Instrument Display and USB Charging Port



Electrical Park Brake System



The tow tractor has a safety feature where it can only travel if the battery locking pin is correctly rotated.



Reliability

- / The three-support points, low center of gravity, and the high-strength steel framed design feature a large residual load capacity, durability, and a long service life.
- / All wires and cables are protected to significantly increase the reliability of the tow tractor's electrical system.
- / 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.

Maintenance

- / The brushless AC drive motor is maintenance-free. This significantly reduces the operating costs of the tow truck.
- / The integrated battery indicator, hour meter, and self-diagnostic instrument are all easy to use.
- / The maintenance hatch opens to allow for easy access to all of the truck's components.

Safety

- / The tractor slows down when cornering as a part of the standard configuration to improve stability and safety.
- / The Electrical Park Brake provides a safe and convenient addition to the standard configuration of the truck.
- / With the pedal sensing system, the tow tractor can be driven only if the operator has their foot on the pedal. If the operator takes their foot off the pedal, then the tractor comes to a stop to prevent an accident.



Standard Specification

- / AC Traction Motor
- / Automatic Deceleration at Turns
- / Key Switch
- / USB Charging Port
- / LED Headlight
- / LED Tail Light
- / Battery Side Extraction
- / Creep Speed Function
- / Safety Pedal
- / Emergency Cut Off Switch
- / Electrical Park Brake System
- / Traction device
- / Horn
- / Inching switch

Options

- / Full Cabin
- / Semi-Closed Cabin
- / Full Suspension Seat
- / Left and Right Mirror
- / Strobe Light
- / Solid Pneumatic Tires
- / Larger Capacity Battery



A Series Electric Tow Tractor

Distinguishing Marks	1.1	Manufacturer	HANGCHA GROUP CO.,LTD.			
			HCF A Model	QDD2	QDD4	QDD6
	1.2	Manufacturer's Type Designation	QDD20-AC1	QDD40-AC1	QDD60-AC1	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Electric	Electric	Electric	
	1.4	Operator Type: hand, pedestrian, standing, seated, order-picker	Sit down	Sit down	Sit down	
	1.5	Rated Capacity/Rated Load	Q(lb/t)	4500/2	9000/4	13500/6
	1.7	Rated Drawbar Pull	F(lbf/N)	112.5/500	225/1000	337.5/1500
	1.9	Wheelbase	y(in/mm)	45.1/1145	51.4/1305	51.4/1305
Weight	2.1	Service Weight (Including battery)	lb/kg	1938/880	2379/1080	2533/1150
Wheels & Tires	3.1	Tires: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic
	3.2	Tire Size, front		3.50-5-6PR	3.50-5-6PR	3.50-5-6PR
	3.3	Tire Size, rear		4.00-8-6PR	4.00-8-6PR	4.00-8-6PR
	3.5	Wheels, number front / rear (x = driven wheels)		1/2x	2/2x	2/2x
	3.6	Tread, front	b ₁₀ (in/mm)	0	9.8/250	9.8/250
	3.7	Tread, rear	b ₁₁ (in/mm)	30.3/770	30.3/770	30.3/770
Dimensions	4.12	Coupling Height	h ₁₀ (in/mm)	14.4/365.10.5/267	14.4/365.10.5/267	14.4/365.10.5/267
	4.17	Overhang	l ₅ (in/mm)	9.6/245	9.6/245	9.6/245
	4.19	Overall Length	l ₁ (in/mm)	66.3/1684	72.6/1844	72.6/1844
	4.21	Overall Width	b ₁ (in/mm)	35.4/900	35.4/900	35.4/900
	4.32	Ground Clearance, centre of wheelbase	m ₂ (in/mm)	3.9/100	3.9/100	3.9/100
	4.35	Turning Radius	W _a (in/mm)	63/1600	69.4/1763	69.4/1763
Performance	5.1	Travel Speed, laden/unladen	m/ph	3.7/8.1	3.7/8.1	3.7/8.1
			km/h	6/13	6/13	6/13
	5.6	Max. Drawbar Pull	lbf/N	450/2000	900/4000	1012.5/4500
	5.7	Gradeability, laden/unladen	%	5/25	5/25	5/25
Electric Motor	6.1	Drive Motor Rating S2 at 60 min	hp/kW	2.61/1.95	5.74/4.28	5.74/4.28
	6.4	Battery Voltage, nominal capacity K5	V/Ah	48/165	48/210	48/275
		Battery Voltage, nominal capacity K5 (Opt.)	V/Ah	48/180~210	48/220~350	48/280~350
		Electric Control Model		CURTIS	CURTIS	CURTIS

