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XH SERIES HIGH-VOLTAGE LITHIUM BATTERY EMPTY **CONTAINER HANDLER**

Independently developed by Hangcha on the basis of decades of deep understanding of electric products and internal combustion products, XH series high-voltage counterweight lithium battery empty container handlers are a new series of high-voltage lithium battery empty container handlers that first use a new energy vehicle voltage platform and represent a breakthrough over the traditional design concept. With improved efficiency, power, reliability, etc., XH series forklift models have performance and operating condition completely superseding that of the internal combustion forklifts.

VOLTAGE

579 V

100% CHARGE FOR

1Hour IP67

WATER RESISTANCE

IPX4

SPEED MODELS

Appearance

/ With the inherited exterior design of X series internal combustion empty container handlers and a smooth and sturdy profile, the whole vehicle is stylish, sturdy and powerful, showing modern industrial aesthetics.

HANGCHA

FASTER & MORE EFFICIENCY.

Compared with low-voltage lithium battery forklifts, high-voltage lithium battery technology can save about 40% of the overall cost during the service cycle.

Low Voltage Lithium Battery Forklift



Compared with fuel forklifts, high-voltage lithium battery technology can save about 90% of the overall cost during the

Fuel Forklift

Lithium Electric Forklift





Under normal charging and discharging conditions, the lithium battery of Hangcha products has a capacity retention rate of more than 75% and a life span of up to 10 years after 4000 cycles of charging and discharging.

Through disruptive battery and fast charging technology, the charging time is greatly shortened

Fast charging makes it possible for the whole vehicle to work

Get the battery fully charge:

Hangcha High Voltage Electric Forklift

Electric Forklift





Safety

- / The cover of the vehicle is designed to be sealed to the water resistance level of IPX4.
- / The electrical system has high-voltage interlocking, insulation monitoring and potential balancing functions to offer vehicle-grade safety.
- / Both the battery and junction box have MSD maintenance switches to enable one-click power-down and safer maintenance.
- / Key structural parts have been verified highly reliable by the market for many years while being used by internal combustion forklifts.



All the motor and electronic controls reach the dust and water resistance level of IP67, a high protection level adequate to withstand harsh operating environments.



A turning deceleration function effectively reduces risk of tipping over.



The high-voltage lithium battery is equipped with an automatic fire extinguisher for the standard configuration. The vehicle is equipped with a pipe network automatic fire extinguisher for the standard configuration.

- / The spreader twist-lock equipped with mechanical and electrical protection devices, lifting interruption control, OPS system, travel speed limiting and other functions ensure safe operations.
- / The LED lighting system ensures the brightness of the lighting within the operating range.
- / A visual reversing radar is provided for the standard configuration and other options such as an tire pressure monitoring, overload protection, etc. can be provided.







Fully-suspended all-round vision cab

- / The large-stroke bodily-movable fully-suspended cab can be repaired and maintained easily, can easily switch to the manual movement mode, and easily move.
- / With the vehicle frame damper connected and the tight sound and heat insulation design, most vibration and noise are shielded.
- / The largely-curved front and rear windows, all-glass left and right doors and large glass ceiling enable a broad view.
- / An inclinable telescopic steering column and fully-suspended adjustable seat with a high backrest and safety belt, with seat sensing and driving position sensing functions.
- / A high-power cooling and heating air conditioner, two ventilation modes internal and external circulation, sunshades, speedadjustable wipers and defrosting function make driving more comfortable.







TECHNICAL SPECIFICATIONS			
Type of lifting system	Two vertical twistlocks		
Type of stacking	Normal and block stacking		
Spreader weight (TW)	3 600 kgs		
Carriage weight (MPS)	1 050 kgs 9 tonnes		
Lifting capacity (SWL)			
Telescopic positions	20 and 40ft		
Telescoping speed, 20-40ft	< 12 sec.*		
Telescoping speed, 40-20ft	< 14 sec.*		
Sideshift	± 600 optional ± 400 mm		
Mechanical pile slope (MPS),	At 20ft position: approx. 200 mm		
vertical floating end-posts	At 40ft position: approx. 200 mm		
Hydraulics, operating pressure up to	140 bar		
Hydraulics, flow	40-60 L/min		
Electric - control voltage	24 VDC		
Communication	CAN 2.0B		
Colour	Black grey RAL 7021		

^{*} Calculated speed at 60 L/min

Single handling container spreader Vertical Twistlocks.



Improved design with built-in cabling and larger bending radius for hydraulic hose between pocket and end-post.



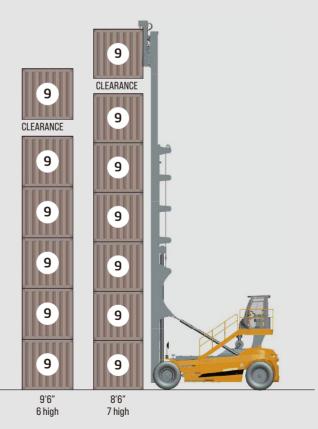
INNOVATION head.

Suitable for:

/ 20' or 40' ISO containers of 8' (2.44 m) width.
 / Approx. 2.45-2.50 m wide "pallet-wide" 20' or 40' containers, with ISO-like 'chamfered' corner castings.
 / With speed limitation for laden/unladen.

Not suitable for:

- / Approx. 2.45 2.60 m wide "CPC" containers (Cellular Pallet-wide Containers) with non-ISO corner castings.
- / Approx. 2.45 2.50 m wide "pallet-wide" 20' or 40' containers, with ISO-like 'chamfered' corner castings.



H90EC-7-XHJG

H90EC-8-XHJG



Standard Specification

- / Cab
- / Multi-direction adjustable armrest
- / Emergency descending
- / LCD bus instrument
- / Hydraulic oil filter alarm
- / Snail horn
- / Multifunctional color-screen instruments
- / Maintenance-free 24V lead-acid battery
- / Standard seat
- / Fully hydraulic power steering
- / Steering wheel adjusting device
- / Visual reversing radar
- / Accumulator low pressure alarm
- / Alarm light
- / Neutral gear switch
- / Water chilling unit for lithium battery
- / Automatic fire extinguisher for lithium battery
- / Mast LED light
- / Cooling and heating air conditioner
- / Chair sensing system
- / Traction device
- / Neutral indicator
- / Vehicle LED lights
- / Oil-resistant tread tire
- / Standard lithium battery box
- / Emergency shut-off switch
- / VCU controller
- / Electrically-controlled joystick
- / Spreader twist-lock double protection
- / Rearview mirror
- / Pneumatic tire
- / Reversing buzzer
- / MSD maintenance switch
- / Maintenance reminding

Options

- / User specified color
- / Reverse voice buzzer
- / Weighing system
- / Blue light
- / Twist-lock counter
- / Fire extinguisher (2kg/4kg)
- / Speed limit alarm
- / Tire pressure monitoring
- / Solid tire
- / Acoustic and optical alarm light
- / Driving record system
- / Central lubrication system
- / Front view system (optionally with a memory)
- / Vehicle intercom
- / Turning deceleration
- / Cloud intelligent management system
- / Vehicle toolkit



XH Series High-voltage Lithium Battery Empty Container Handler Specification

	1.1	Manufacturer		HANGCHA GR	NIPCO ITO
	1.2	Manufacturer's type designation		H90EC-7-XHJG	H90EC-8-XHJG
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric	Electric
Distinguishing mark	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	9000	9000
	1.6	Stacking height, no. of containers (8'6" / 9'6")	4 (1.9)	7/6	8/7
	1.7	Load centre distance	c (mm)	1220	1220
	1.8	Load distance, centre of drive axle to fork	x (mm)	1340	1340
	1.9	Wheelbase	y (mm)	4550	4550
Weight	2.1	Service Weight	kg	41300	42500
	2.2	Axle loading, laden front/rear	kg	34400/10800	35200/11200
	2.3	Axle loading, unladen front/rear	kg	25500/15800	26300/16200
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	Ng	14.00-24-28PR	14.00-24-28PR
ISSIS	3.2	Tyre size, front		14.00-24-28PR	14.00-24-28PR
Tyres, chassis	3.3	Tyre size, rrunt Tyre size, rear		Pneumatic Pneumatic	Pneumatic
Tyre	3.5	Wheels, number front / rear (x = driven wheels)		4x/2	4x/2
	3.6	Tread, front	b10 (mm)	3280	3280
				2300	2300
	3.7	Tread, rear	b11 (mm)	3/3	3/3
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	10715	12015
	4.2	Height, mast lowered	h1 (mm)	2200	2200
	4.3	Lift height, min in twist locks	h2 (mm)	18670	21270
	4.4	Lift height, max in twist locks	h3 (mm)	19100	21700
	4.5	Height, mast extended	h4 (mm)		
	4.7	Height of overhead cabin	h6 (mm)	4600	4600
	4.8	Seat height relating to SIP	h7 (mm)	3500	3500
su	4.12	Coupling height	h10 (mm)	760	760
Dimensions	4.19	Overall length	I1 (mm)	6850	6850
l iii	4.20	Length to face of forks	12 (mm)	4120	4120
	4.21	Overall width	b1/b2(mm)	4120/2700	4120/2700
	4.22	Spreader sideshift	mm	±600	±600
	4.24	Spreader width,retracted, min	b3 (mm)	6100	6100
	4.25	Spreader width, extended, max	b5 (mm)	12240	12240
	4.31	Ground clearance, laden, below mast	m1 (mm)	290	290
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	330	330
	4.34	Aisle width with(8'6" / 9'6")	Ast (mm)	10200/14000	10200/14000
	4.35	Turning radius	Wa (mm)	6000	6000
	4.36	Minimum pivoting point distance	b13 (mm)	2085	2085
	5.1	Travel speed, laden/unladen	km/h	23/24	23/24
ıta	5.2	Lift speed, laden/unladen	m/s	0.55/0.62	0.55/0.62
nce da	5.3	Lowering speed, laden/unladen	m/s	0.50/0.55	0.50/0.55
Performance data	5.5	Drawbar pull, laden	N	120000	120000
Perf	5.7	Gradeability, laden	%	22 Wat dies basha	22
	5.10	Service brake		Wet disc brake	Wet disc brake
		Parking brake		spring applied, hydraulic	
	6.1	Drive motor rating S2 60 min	kW	143	143
	6.2	Lift motor rating at S3 15%	kW	89	89
Electric-engine	6.3	Battery acc. to DIN 43531/35/36 A,B,C, no		/	/ F70.0/004
	6.4	Battery voltage, nominal capacity K5	V/Ah	579.6/604	579.6/604
ctric	6.5	Battery weight	kg	3200	3200
Ele		Battery dimensions	l/b/h(mm)	1356×1220×940	1356×1220×940
	6.6	Energy consumption acc. to VDI cycle	kWh/h	/	/
		Max. battery weight	kg	3675	3675
		Min. battery weight	kg	3325	3325
	10.1	Operating pressure for attachments	bar	150	150
 	10.2	Oil volume for attachments	I/min	120	120
Addition data	10.3	Hydraulic Tank - capacity (drain & refill)	liter	/	/
~	10.7	Sound pressure level at the driver 's seat	dB (A)	/	/
	10.8	Towing coupling, type DIN 15170		Φ40	Φ40

