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A trucks conform uropean Safety nents.

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XH SERIES HIGH-VOLTAGE LITHIUM BATTERY EMPTY CONTAINER HANDLER

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with capacity of 9,000kg



The World of Hangcha



INNOVATIVE LITHIUM-ION





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.

SPEED MODELS

PROTECTION RATE

579 V CHARGING TIME (20-100%) **1.3Hour IP67 VEHICLE WATER RESISTANCE IPX4**

Appearance

VOLTAGE

/ 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.

FOR YOU BUSINES





EFFICIENT AND DURABLE

Advancement

- / A high-torque permanent magnet synchronous motor provides strong power for the vehicle with performance indicators benchmarked against that of internal combustion forklifts.
- / A 579V high-voltage platform with low system loss and a standard chilled water tank for heavy-duty truck to achieve good heat dissipation.
- / The vehicle has independently developed VCU program along with PDU+MCU+BMS+DC/DC to form a reliable and efficient drive system with flexible function configuration.
- / With motor, electric control and battery adopting liquid-cooling heat dissipation, the forklift can absolutely carry out long-time and high-intensity operations as internal combustion forklifts.

Reliable

/ The novel spreader has a higher reliability, a longer service life, a lower failure rate and a lower maintenance cost.

Ultra long battery life

- / A large-capacity lithium battery for the standard configuration can meet the long battery life need.
- / Both the drive and operating systems are efficient and energy-saving vehicle-grade permanent magnet synchronization systems
- / High-voltage platform, less vehicle current and minimal system heat loss.
- / Braking energy and potential energy recovery effectively prolongs operating time.



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(Manual Service Disconnect) 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 suspended cabin, easy for maintenmance.

- / 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.



SMART AND CONVENIENT





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.

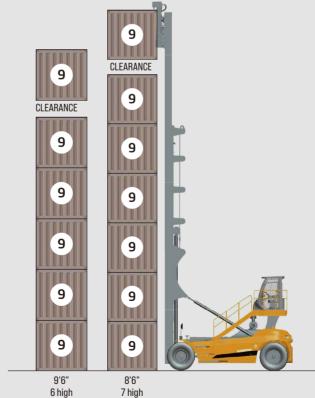
Suitable for:

/ 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.



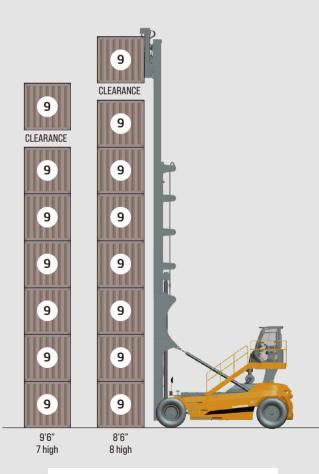
TECHNICAL SPECIF

Type of lifting system Type of stacking Spreader weight (TW) Carriage weight (MPS) Lifting capacity (SWL) Telescopic positions Telescoping speed, 20-40 Telescoping speed, 40-20 Sideshift Mechanical pile slope (MF vertical floating end-post Hydraulics, operating pres Hydraulics, flow Electric - control voltage Communication Colour

* Calculated speed at 60 L/min

H90EC-7-XHJG

ICATIONS			
	Two vertical twistlocks		
	Normal and block stacking		
	3 600 kgs		
	1 050 kgs		
	9 tonnes		
	20 and 40ft		
Oft	< 12 sec.*		
Oft	< 14 sec.*		
	± 600 optional ± 400 mm		
PS],	At 20ft position: approx. 200 mm		
sts	At 40ft position: approx. 200 mm		
essure up to	140 bar		
	40-60 L/min		
9	24 VDC		
	CAN 2.0B		
	Black grey RAL 7021		



H90EC-8-XHJG

Features

Transmission	Standard	Options
Pneumatic tyre	•	
Solid tyre		0
Steering system	, i	
Fully hydraulic power steering		
Centralized lubrication system (machine)	• •	0
Truck		
Tow pin	•	
Electrostatic discharge chain		0
Rear-view mirror on right & left mudguards	•	
Operating system		
Integrated joystick	•	
Adjustable steering column	•	
Adjustable armrest	•	
Hydraulic system		
Variable hydraulic pump system	•	
Operation proportion control	•	
Cab		
Cabin	•	
Climate control system (air-conditioning and heater)	•	
Radio	•	
Sunshade	•	
USB charging interface Clothes hanger hook	•	
Reading light	•	
1x 24V power supply		0
1 x 12V power supply		0
License plate frame		0
Fan	•	
Lifting components		
Duplex mast		
Standard lifting height	•	
Optional lifting height		0
Spreader & twistlock double protection	•	
Emergency descent	•	
Twistlock counter	•	
2 x Spreader twistlock light	•	
Other		
Standard color	•	
User defined colour		0
Fire extinguisher (2kg/4kg)		0
Vehicle toolkit	•	
Mast automatic vertical realignment	•	
Lifting height indicator on display		

Electrical System	Standard	Options
Operator Presense System (OPS) with buzzer		
CD display screen	•	
Main power switch	•	
Emergency power off switch	•	
Naintenance-free 24V lead acid battery	•	
Reverse buzzer	•	
High decible horn	•	
LED lights (entire vehicle)	•	
2 x Working light on front mudguard	•	
2 x Front working light on top of cabin	•	
2 x Rear working light on top of cabin	•	
2 x Working light on both sides of mast	•	
Reverse sensor	•	
Rearview camera system	•	
Rearview camera system with memory		0
Front & rearview camera system		0
Front & rearview camera system with memory		0
4 directions camera system with single display		0
4 directions camera recording system with single display		0
n cabin CCTV		0
Rear blue safety light		0
Front and rear blue safety light		0
Three sided blue danger zone light		0
Dverspeed alarm		
		0
Speed limitation Voice reverse alarm		0
		0
Automatic fire suppression system	•	
Two-way radio		0
Weight indicator in display	•	
Flashing warning light (non rotating) with control switch	•	-
Tyre pressure monitoring		0
Dn-board diagnostics system	•	
Nater cooling system for lithium battery	•	
Automatic fire suppression system for lithium battery pack	•	
Manual Service Disconnect (MSD) switch	•	
ligh voltage interlock	•	
nsulation protection	•	
Power-on self-test	•	
Energy recovery (braking regeneration)	•	
Energy recovery (descent regeneration)	•	
/ehicle Control Unit (VCU)	•	
Dual charging ports	•	
Dverride switch	•	
Turning deceleration		0
Hour meter	•	
Battery charge indicator	•	
Low hydraulic pressure alarm indicator	•	
lydraulic oil filter warning indicator	•	
Drive mode indicator	•	
Parking brake indicator		

XH Series High-voltage Lithium Battery Empty Container Handler Specification

	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.		
-	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	
<u>B</u> u	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	
uishi	1.5	Rated capacity/rated load	Q (kg)	9000	9000	
Distinguishing mark	1.6	Stacking height, no. of containers (8'6" / 9'6")		7/6	8/7	
ä	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	
	2.1	Service Weight	kg	41300	42500	
Weight	2.2	Axle loading, laden front/rear	kg	34400/10800	35200/11200	
We	2.3	Axle loading, unladen front/rear	kg	25500/15800	26300/16200	
	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane	1.9	14.00-24-28PR	14.00-24-28PR	
	3.2	Tyre size, front		14.00-24-28PR	14.00-24-28PR	
Tyres, chassis	3.3	Tyre size, rear		Pneumatic	Pneumatic	
s, ch	3.5	Wheels, number front / rear (x = driven wheels)		4x/2	4x/2	
Tyre	3.6	Tread, front	b10 (mm)	3280	3280	
	3.0	Tread, rear	b10 (11111)	2300	2300	
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	3/4 10715	3/3 12015	
	4.2	Height, mast lowered	h1 (mm)			
	4.3	Lift height, min in twist locks	h2 (mm)	2200	2200	
	4.4	Lift height, max in twist locks	h3 (mm)	18670	21270	
	4.5	Height, mast extended	h4 (mm)	19100	21700	
	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	
insio	4.20	Length to face of forks	l2 (mm)	6850	6850	
Dimensions	4.21	Overall width	b2(mm)	4120	4120	
	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(20' / 40')	Ast (mm)	10400/14500	10400/14500	
	4.35	Turning radius, inner - outer 20ft - outer 40ft	R/Wa/R1	820/6000/8200	820/6000/8200	
	4.36	Minimum pivoting point distance	b13 (mm)	2085	2085	
	5.1	Travel speed, laden/unladen	km/h	23/24	23/24	
ta	5.2	Lift speed, laden/unladen	m/s	0.55/0.62	0.55/0.62	
Performance data	5.3	Lowering speed, laden/unladen	m/s	0.50/0.55	0.50/0.55	
nanc	5.5	Drawbar pull, laden	N	120000	120000	
rforr	5.7	Gradeability, laden	%	22	22	
Pe	5.10	Service brake		Wet disc brake	Wet disc brake	
		Parking brake		spring applied, hydraulic	release multi-disc brake	
	6.1	Drive motor rating S9 60 min Rated/Peak	kW	143/220	143/220	
ain	6.2	Lift motor rating at \$9 15% Rated/Peak	kW	89/160	89/160	
Electric drivetrain		Battery Capacity	kWh / Ah	350/604	350/604	
ric dr	6.4	Nominal Voltage	V	579	579	
Electi	6.5	Battery weight	kg	3200	3200	
-		Battery dimensions	l/b/h(mm)	1356×1220×940	1356×1220×940	
	10.1	Operating pressure for attachments	Mpa	17.5	17.5	
	10.2	Oil volume for attachments	I/min	120	120	
tion ta	10.2	Hydraulic Tank - capacity (drain & refill)	liter	420	420	
Addition data	10.3	Sound pressure level at the driver 's seat	dB (A)	65	65	
	10.7					

