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X Series Empty Container Handler

A new generation high-quality professional product, which is newly developed on the basis of Hangcha's X series platforms and years of industry experience and extensively adopts advanced technologies, is mainly used in the loading handling and stacking operations of empty 20ft and 40ft ISO containers.

Reliable

- / The gearbox(DANA), drive axle(KESSLER), engine and key hydraulic parts are all have stable and reliable quality.
- / The accumulated years of industry experience, digital product design, finite element analysis, kinematic and dynamic simulation calculation, field verification, and fatigue, overload, strain tests ensure the reliable structure of the truck.
- / The mast is made of high-strength steel and has an ultra-wide structure designed. The installation point of the inclined oil cylinder is arranged at a high position to improve the rigidity and stability of the truck.
- / The truck's heat dissipation management system automatically adjusts the heat dissipation intensity, so that each system can quickly enter the efficient operating state. The large heat dissipation capacity design ensures the requirements for the heat dissipation in high temperature environments to be met.
- / With waterproof and dust-proof design, the electrical system has higher reliability.
- / The novel spreader has a higher reliability, a longer service life, a lower failure rate and a lower maintenance cost.







Comfortable

- / The instruments with high-definition color screens display the truck status in real time and the fault alarm enable easier maintenance.
- / The new generation electronically-controlled gearbox enables flexible, smooth and comfortable gear shifting.

Efficient

- / The throttle following control provided for controlling the engine speed, the single-hand joystick and the electric proportional control enable flexible, accurate and efficient control.
- / Higher lifting speed and faster dynamic response enable the operation efficiency to be effectively improved.
- / Easy maintenance design a wide-opened hood, a large-space electric control box, a larger cab space, multiple hydraulic inspection points, easy access to the oil and water during inspection, and built-in diagnostic and query functions of the smart instruments.

Safe

- / 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 automatic fire extinguishing system, 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			
Lifting capacity (SWL)	9 tonnes			
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),	pile slope (MPS), At 20ft position: approx. 200 mm			
ertical floating end-posts At 40ft position: approx. 200				
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.

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:

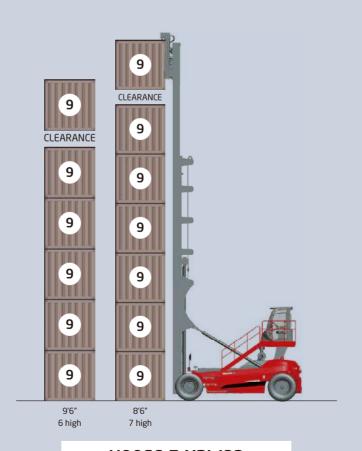




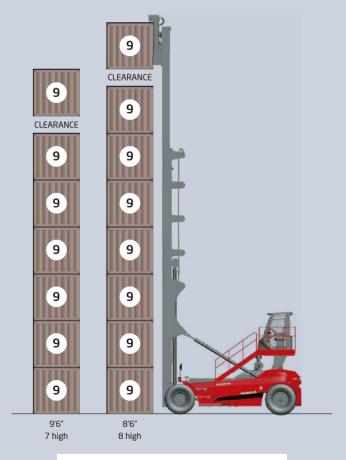
Improved design with built-in cabling and larger bending radius for hydraulic hose between pocket and end-post.



INNOVATION head.



H90EC-7-XRW83



H90EC-8-XRW83



Standard Specification

- / Sunshade
- / Steering wheel column adjusting device
- / High-position exhaust
- / Torque converter temperature control management
- / Multifunctional instruments
- / Emergency lowering
- / Reading light
- / Armrest's multi-directional adjustment device
- / Traction device
- / LED lights
- / Reverse buzzer
- / Overtime idling will automatically turn off
- / Cooling and heating air conditioner
- / OPS system
- / Emergence power off switch
- / Snail horn
- / Maintenance reminding
- / Radio
- / Pneumatic tire
- / Fully hydraulic power steering
- / Visual reversing radar
- / Spreader twist-lock double protection
- / Fault diagnosis system

Options

- / Customer painting
- / Fire extinguisher (2kg/4kg)
- / Overload protection devices
- / Reverse buzzer
- / Solid tire
- / Automatic fire extinguishing system
- / Speed limit alarm
- / Blue light
- / Tire pressure monitoring
- / Central lubrication system
- / Front view system (optionally with a memory)
- / Automatic Vertical mast
- / Spark arrester
- / Weighing system
- / Intercom
- / Soft landing



X Series Empty Container Handler Specification

	1.1	Manufacturer		HANGCHA	GROUP CO.,LTD.
	1.2	Manufacturer's type designation		H90EC-7-XRW83	H90EC-8-XRW83
-	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	Diesel
Distinguishing mark	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated
ar Ar	1.5	Rated capacity/rated load	Q (kg)	9000	9000
iti m	1.6	Stacking height, no. of containers (8'6" / 9'6")	Α (ν.ρ.)	7/6	8/7
oj.	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
ᆂ	1.5	Wilecipase	y (IIIIII)	4330	4550
Weight	2.1	Service Weight	kg	39800	41000
chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic
	3.2	Tyre size, front		14.00-24-28PR	14.00-24-28PR
	3.3	Tyre size, rear		14.00-24-28PR	14.00-24-28PR
Tyres,	3.5	Wheels, number front / rear (x = driven wheels)		4/2	4/2
≥	3.6	Tread, front	b10 (mm)	3280	3280
	3.7	Tread, rear	b11 (mm)	2300	2300
	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	3/4	3/4
	4.2	Height, mast lowered	h1 (mm)	10715	12015
	4.3	Lift height, min in twist locks	hz (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	h ₆ (mm)	4600	4600
	4.8	Seat height relating to SIP	h ₇ (mm)	3500	3500
	4.12	Coupling height	h ₁₀ (mm)	740	740
٤	4.19	Overall length	I ₁ (mm)	7000	7000
Dimensions	4.20	Length to face of forks	Iz (mm)	6850	6850
imer	4.21		b1/b2(mm)	4120/2700	4120/2700
		Overall width			
	4.22	Spreader sideshift	mm	±600	±600
	4.24	Spreader width, retracted	b3 (mm)	6100	6100
	4.25	Spreader width, extended	bs (mm)	12240	12240
	4.31	Ground clearance, laden, below mast	mı (mm)	290	290
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	300	300
	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	26/28	26/28
	5.2	Lift speed, laden/unladen	m/s	0.55/0.62	0.55/0.62
	5.3	Lowering speed, laden/unladen	m/s	0.5/0.55	0.5/0.55
	5.5	Drawbar pull, laden	N	160000	160000
ata	5.7	Gradeability, laden	%	22	22
b 90	5.10	Service brake		Wet disc brake	Wet disc brake
Performance data		Parking brake		spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brak
	7.1	Engine manufacturer/type		Volvo TAD851VE	Volvo TAD851VE
		Emission STD		StageIIIA/Tier3	StageIIIA/Tier3
	7.2	Engine power	kW	185	185
	7.3	Rated speed	r/min	2200	2200
	7.4	Number of cylinders/displacement	(-)/(cm³)	6/7700	6/7700
	7.9	Vehicle electrical system voltage	V	24	24
ion .	7.10	Battery voltage/nominal capacity	V/Ah	2×12/150	2×12/150
Combustion- engine		Rated torque	N·m/r/min	1160/1350	1160/1350
en		Transmissions Manufacturer		DANA	DANA
Ü		Stage FWD/RVS		3/3	3/3
	10.1	Operating pressure for attachments	bar	250	250
			I/min	288	288
	10.2				
ition	10.2	Oil volume for attachments Hydraulic Tank - canacity (drain & refill)			
Addition data	10.2 10.3 10.4	Hydraulic Tank - capacity (drain & refill) Fuel tank capacity	liter	460 620	460 620

