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IS014001:2015





"Hangcha Forklift" App herunterladen



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IS09001:2015



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 movable fully-suspend cab, easy for maintenance.
- / 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),	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.

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:

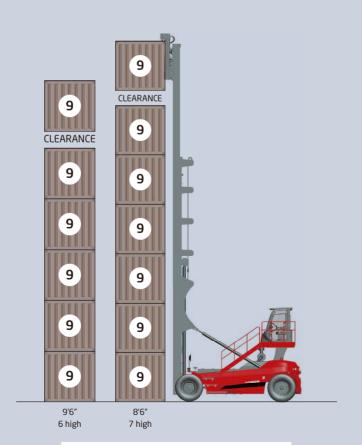




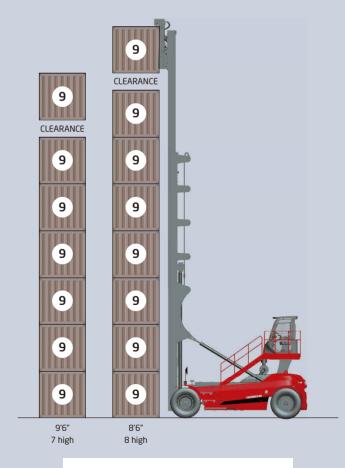
Improved design with built-in cabling and larger bending radius for hydraulic hose between pocket and end-post.



INNOVATION head.



H90EC-7-XRW83/H90EC-7-XRH10



H90EC-8-XRW83/H90EC-8-XRH10

Features

Transmission	Standard	Option
Pneumatic tyre	•	
Solid tyre		0
Steering system		
Fully hydraulic power steering	•	
Centralized lubrication system (machine)		0
Power system		
Extended exhaust pipe	•	
Lockable fuel cap	•	
Spark arrester		0
Pre-cleaner air filter	•	
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		
Operation proportion control	•	
Cab		
Cabin	•	
Climate control system (air-conditioning and heater)	•	
Radio	•	
Sunshade	•	
USB charging interface	•	
Clothes hanger hook	•	
Reading light	•	
1 x 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		0
Lifting height indicator on display		0

Electrical System	Standard	Options
Operator Presense System (OPS) with buzzer	•	
LCD display screen	•	
Main power switch	•	
Emergency power off switch	•	
Maintenance-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
In cabin CCTV		0
Rear blue safety light		0
Front and rear blue safety light		0
Three sided blue danger zone light		0
Overspeed alarm		0
Speed limitation		0
Voice reverse alarm		0
Automatic fire suppression system		0
Two-way radio		0
Weight indicator in display		0
Flashing warning light (non rotating) with control switch	•	
Tyre pressure monitoring	-	0
On-board diagnostics system	•	
Override switch	•	
Engine fault alarm	•	
Engine oil pressure alarm indicator	•	
Air filter warning indicator	•	
Water temperature indicator	•	
Hour meter	•	
Battery charge indicator	•	
Low hydraulic pressure alarm indicator		
Hydraulic oil filter warning indicator		
Oil gauge	•	
Fuel-water separator warning indicator	•	
Oil temperature gauge		
Pre-heat indicator		
Drive mode indicator		
	•	
Parking brake indicator	•	

X Series Empty Container Handler Specification

	1.1	Manufacturer			חטוכנחט נ	ROUP CO.,LTD.	
	1.1	Manufacturer's type designation		H90EC-7-XRW83		H90EC-7-XRH10	H90EC-8-XRH10
'	1.3			Diesel	H90EC-8-XRW83 Diesel		
8		Drive: electric (battery or mains), diesel, petrol, fuel gas		Seated	Seated	Diesel Seated	Diesel
Distinguishing mark	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Q (kg)	9000		9000	Seated
ting ma	1.5	Rated capacity/rated load	Λ (κR)		9000		9000
Dis	1.6	Stacking height, no. of containers (8'6" / 9'6")	s (mm)	7/6	8/7	7/6	8/7
'		Load centre distance	c (mm)	1220	1220	1220	1220
'	1.8	Load distance, centre of drive axle to fork	x (mm)	1340	1340	1340	1340
=	1.9	Wheelbase	y (mm)	4550	4550	4550	4550
Weight	2.1	Service Weight	kg	39800	41000	39800	41000
'	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic
ssis	3.2	Tyre size, front		14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR
Tyres, chassis	3.3	Tyre size, rear		14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR
res,	3.5	Wheels, number front / rear (x = driven wheels)		4/2	4/2	4/2	4/2
	3.6	Tread, front	b10 (mm)	3280	3280	3280	3280
	3.7	Tread, rear	b11 (mm)	2300	2300	2300	2300
'	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	3/4	3/4	3/4	3/4
	4.2	Height, mast lowered	h ₁ (mm)	10715	12015	10715	12015
	4.3	Lift height, min in twist locks	h2 (mm)	2200	2200	2200	2200
	4.4	Lift height, max in twist locks	h₃ (mm)	18670	21270	18670	21270
	4.5	Height, mast extended	h4 (mm)	19100	21700	19100	21700
'	4.7	Height of overhead cabin	he (mm)	4600	4600	4600	4600
'	4.8	Seat height relating to SIP	hz (mm)	3500	3500	3500	3500
'	4.12	Coupling height	h10 (mm)	740	740	740	740
ons	4.19	Overall length	l1 (mm)	7020	7020	7020	7020
Dimensions	4.20	Length to face of forks	I ₂ (mm)	6850	6850	6850	6850
Ë	4.21	Overall width	b1/b2(mm)	4120/2700	4120/2700	4120/2700	4120/2700
'	4.22	Spreader sideshift	mm	±600	±600	±600	±600
	4.24	Spreader width, retracted	b₃ (mm)	6100	6100	6100	6100
'	4.25	Spreader width, extended	bs (mm)	12240	12240	12240	12240
	4.31	Ground clearance, laden, below mast, laden/unladen	m1 (mm)	280/290	280/290	280/290	280/290
'	4.32	Ground clearance, centre of wheelbase	m2 (mm)	300	300	300	300
	4.34	Aisle width with(20' / 40')	Ast (mm)	10400/14500	10400/14500	10400/14500	10400/14500
'	4.35	Turning radius	Wa (mm)	6000	6000	6000	6000
'	4.36	Minimum pivoting point distance	b13 (mm)	2085	2085	2085	2085
	5.1	Travel speed, laden/unladen	km/h	26/28	26/28	26/28	26/28
'	5.2	Lift speed, laden/unladen	m/s	0.55/0.62	0.55/0.62	0.55/0.62	0.55/0.62
'	5.3	Lowering speed, laden/unladen	m/s	0.5/0.55	0.5/0.55	0.5/0.55	0.5/0.55
'	5.5	Drawbar pull, laden	N	160000	160000	160000	160000
t t	5.7	Gradeability, laden	%	22	22	22	22
e da	5.10	Service brake		Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake
Performance data		Parking brake		spring applied, hydraulic release multi-disc brake			
Per	7.1	Engine manufacturer/type		Volvo TAD851VE	Volvo TAD851VE	Volvo TAD881VE	Volvo TAD881VE
		Emission STD		StagellIA/Tier3	StageIIIA/Tier3	EU StageV	EU StageV
	7.2	Engine power	kW	185	185	185	185
	7.3	Rated speed	r/min	2200	2200	2200	2200
	7.4	Number of cylinders/displacement	(-)/(cm³)	6/7700	6/7700	6/7700	6/7700
	7.9	Vehicle electrical system voltage	V	24	24	24	24
d)	7.10	Battery voltage/nominal capacity	V/Ah	2×12/150	2×12/150	2×12/150	2×12/150
Engine		Rated torque	N·m/r/min	1160/1350	1160/1350	1175/1400	1175/1400
Ψ̈		Transmissions Manufacturer		DANA	DANA	DANA	DANA
		Stage FWD/RVS		3/3	3/3	3/3	3/3
	10.1	Operating pressure for attachments	Мра	17.5	17.5	17.5	17.5
		Oil volume for attachments	I/min	120	120	120	120
ا	10.2					-	-
lition ata	10.2	Hydraulic Tank - capacity (drain & refill)	liter	460	460	460	460
Addition data		Hydraulic Tank - capacity (drain & refill) Fuel tank capacity	liter liter	460 620	460 620	460 620	460 620

