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ISO14001
2015



ISO9001
2015



HANGCHA trucks conform
to the European Safety
Requirements.

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X Series 3/4 Empty Container Handler

with capacities of 6,000 to 7,000kg



The World of Hangcha
SINCE 1956





Appearance

/ Professional exterior industrial design, high-end product with high identification, compact and smooth style showing modern industrial aesthetics. Hidden arrangement. The exposed part allows more clean and neat appearance.

Comfort

/ Excellent all round visibility is achieved by the overall design. Meanwhile, the advanced, low-noise, ergonomic control arrangement and the standard cab with cooling and heating air conditioner improve the driving comfort, and can meet the driver's needs for long time and high intensity operation, no matter it is in summer or winter.



Suspended seat with fingertip system that can be easily adjusted to suit each customer.



Intelligent

/ The central controller of the forklift uses CAN bus architecture to monitor the built-in diagnostic sensors, manage the functions of the forklift and raise central fault alarm of the forklift. /Optional intelligent management system can be selected to make remote intelligent monitoring manage devices more easily.



Optional imaging system with front and rear camera, increasing the safety greatly.

Maintainability

/ The whole vehicle is equipped with a tiltable cab, a wide-opened hood, mast centralized lubrication and fault diagnosis display function, which is very convenient for maintenance.
/ Battery compartment is easy to open for easy maintenance.



Fully-suspended all-round vision cab

The new fully-suspended all-round vision cab (HPC) and optimized vehicle outline enable all-round sight and view. Performance of the air conditioner is improved to enable uniform conditioned air blowing from the air outlet and a strong cooling effect. The waterproof, dust-proof, heatproof, soundproof, noise-reducing sealing design improves driving comfort. The molded interior parts enable a more comfortable feel. The integral frame is constituted by profiled steel pipes. The structural parts have higher strength.



Reliable

- / The adoption of famous-brand engine, transmission and drive axle, and the parts subject to verification for many years achieve stable quality and high reliability.
- / Safety control functions such as over-speed alarm, overload alarm and descending buffer can be configured to ensure operation safety.
- / The adoption of the spreader of an internationally renowned brand brings a higher reliability, a longer service life, a lower failure rate and a lower maintenance cost.
- / Heavy-duty traction axle, two-stage deceleration; Wet brake, maintenance-free; Hydraulic release spring action parking brake, safe and reliable.



OKAMURA gear box with micro-electronic control provides for two-shift power shifting, travelling is stable and accurate.

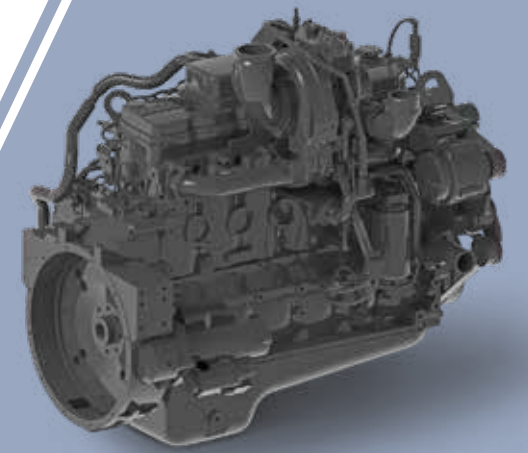


STAGE V & TIER 4F

HANGCHA with you at every stage

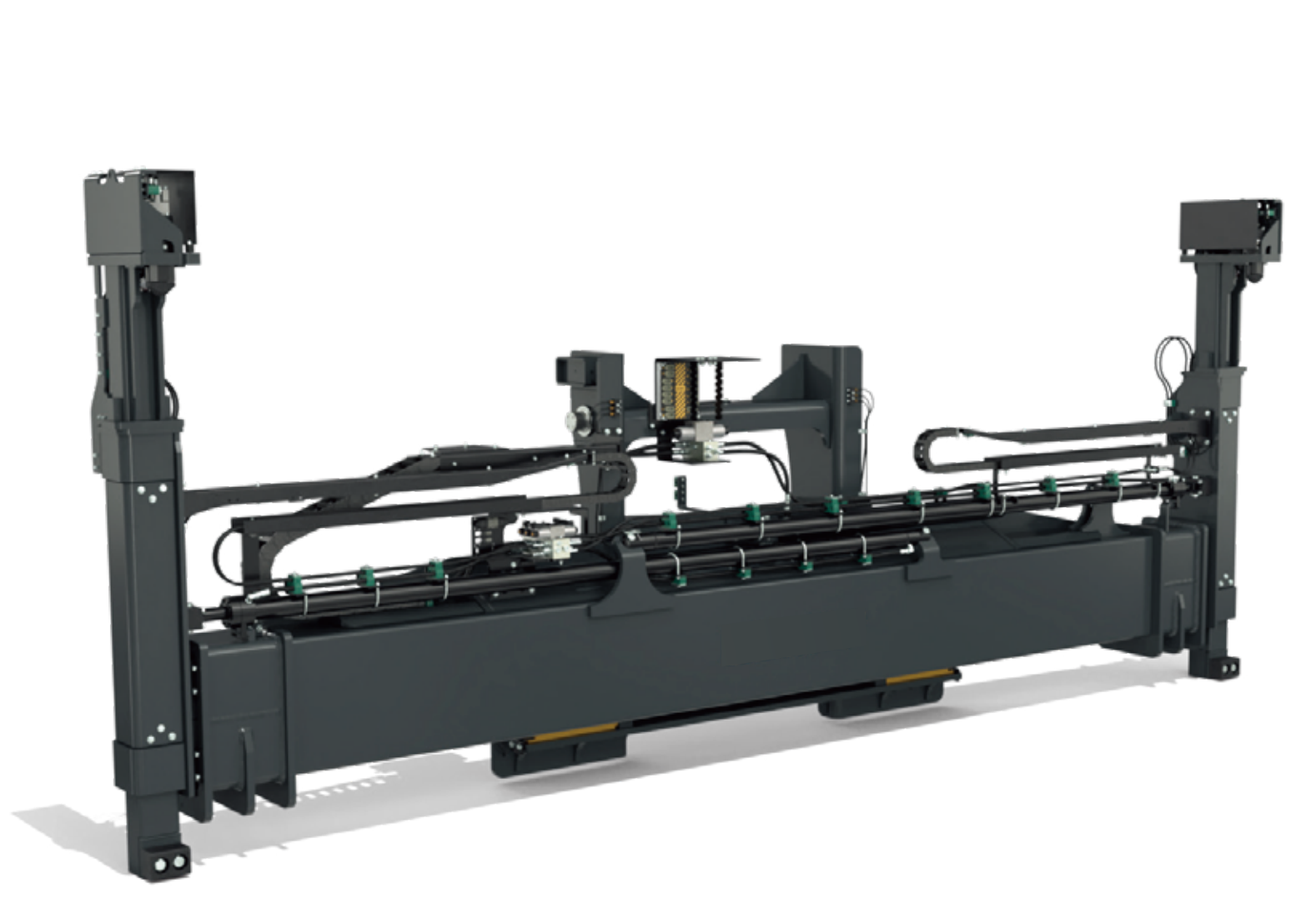
Efficient, reliable solutions for your demands

With Hangcha you can meet all Stage V/Tier 4f emissions standards which provides customer demands for value, innovation and performance. The technologies include common rail fuel systems, Turbocharged Inter-cooled selective catalytic reduction (SCR), diesel oxidation catalysts (DOC) and diesel particulate filters (DPF). Designed and optimised to every engine model, our forklift truck maximises efficiency and reliability.



CUMMINS B6.7





Single handling container spreader Vertical Twistlocks.



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



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.

TECHNICAL SPECIFICATIONS	
Type of lifting system	Two vertical twistlocks
Type of stacking	Normal and block stacking
Spreader weight (TW)	3600kgs
Carriage weight (MPS)	1050kgs
Lifting capacity (SWL)	6-7tonnes
Telescopic positions	20 and 40ft
Telescoping speed, 20-40ft	< 12sec.*
Telescoping speed, 40-20ft	< 14sec.*
Sideshift	± 600
Mechanical pile slope (MPS), vertical floating end-posts	At 20ft position: approx. 200mm At 40ft position: approx. 200mm
Hydraulics, operating pressure up to	140bar
Hydraulics, flow	40-60L/min
Electric - control voltage	24VDC
Communication	CAN 2.0B
Colour	Black grey RAL 7021

* Calculated speed at 60 L/min



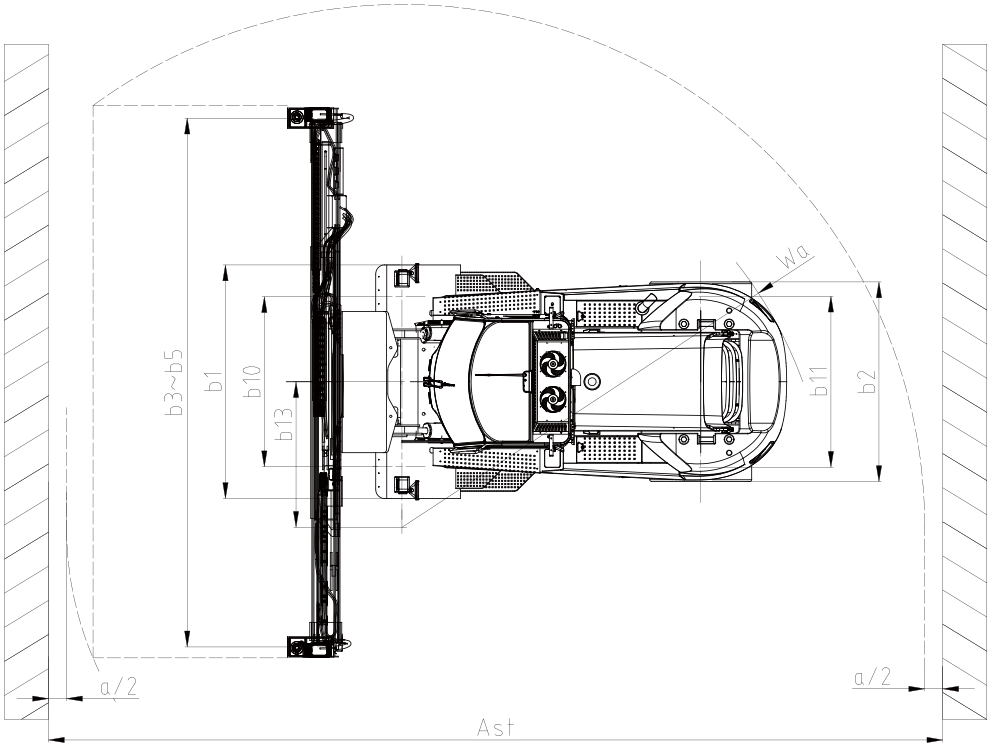
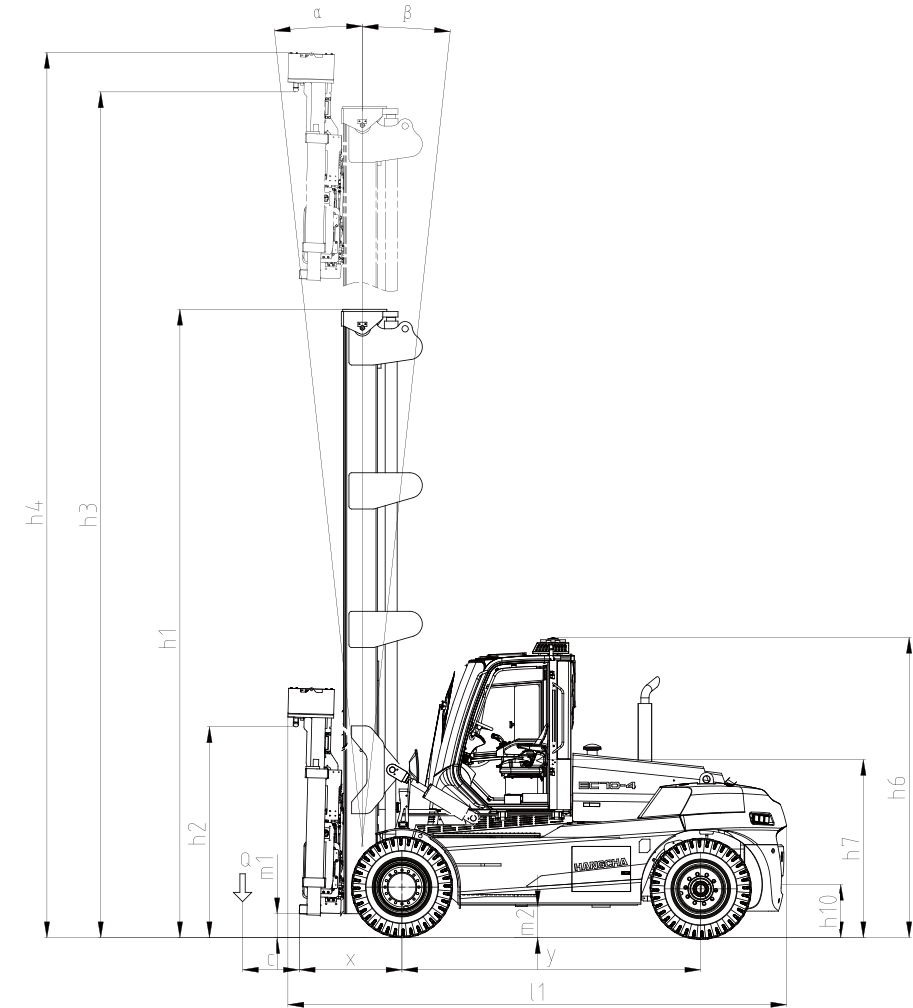
Features

Transmission	Standard	Options
Pneumatic tyre	●	
Solid tyre		○
Steering system		
Fully hydraulic power steering	●	
Centralized lubrication system (machine)		○
Power system		
Extended exhaust pipe	●	
Lockable fuel cap		○
Spark arrester		○
Pre-cleaner air filter	●	
Truck		
Tow pin	●	
Electrostatic discharge chain		○
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)	●	
Manual tilting cabin	●	
Electric tilting cabin		○
Radio	●	
Sunshade	●	
USB charging interface	●	
Clothes hanger hook	●	
Reading light	●	
1 x 24V power supply		○
1 x 12V power supply		○
License plate frame		○
Fan	●	
Lifting components		
Duplex mast	●	
Standard lifting height	●	
Optional lifting height		○
Spreader & twistlock double protection	●	
Twistlock counter		○
2 x Spreader twistlock light	●	
Other		
Standard color	●	
User defined colour		○
Fire extinguisher (2kg/4kg)		○
Vehicle toolkit	●	
Mast automatic vertical realignment		○
Lifting height indicator on display		○
Dynamic speed Limit depending of lift height(customer defined)		○

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		○
Front & rearview camera system		○
Front & rearview camera system with memory		○
4 directions camera system with single display		○
4 directions camera recording system with single display		○
In cabin CCTV		○
Rear blue safety light		○
Front and rear blue safety light		○
Three sided blue danger zone light		○
Overspeed alarm		○
Voice reverse alarm		○
Automatic fire suppression system		○
Two-way radio		○
Weight indicator in display		○
Flashing warning light (non rotating) with control switch	●	
Tyre pressure monitoring		○
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	●	
Service indicator	●	

X series 3/4 Empty Container Handler Specification

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.			
	1.2	Manufacturer's type designation		H60EC-3-XRG90B	H70EC-4-XRG90B	H60EC-3-XRH13B	H70EC-4-XRH13B
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	Diesel	Diesel	Diesel
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	6000	7000	6000	7000
	1.6	Stacking height, no. of containers (8'6" / 9'6")		3/3	4/4	3/3	4/4
	1.7	Load centre distance	c (mm)	1220	1220	1220	1220
	1.8	Load distance, centre of drive axle to fork	x (mm)	1173	1173	1173	1173
	1.9	Wheelbase	y (mm)	3300	3300	3300	3300
Weight	2.1	Service Weight	kg	23900	25300	23900	25300
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2	Tyre size, front		12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR
	3.3	Tyre size, rear		12.00-20-20PR	12.00-20-20PR	12.00-20-20PR	12.00-20-20PR
	3.5	Wheels, number front / rear (x = driven wheels)		4/2	4/2	4/2	4/2
	3.6	Tread, front	b10(mm)	1878	1878	1878	1878
	3.7	Tread, rear	b11(mm)	1890	1890	1890	1890
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	5/6	5/6	5/6	5/6
	4.2	Height, mast lowered	h1(mm)	5425	6925	5425	6925
	4.3	Lift height, min in twist locks	h2(mm)	2307	2037	2307	2037
	4.4	Lift height, max in twist locks	h3(mm)	9217	12217	9217	12217
	4.5	Height, mast extended	h4(mm)	9607	12607	9607	12607
	4.7	Height of overhead cabin	h6(mm)	3300	3300	3300	3300
	4.8	Seat height relating to SIP	h7(mm)	1950	1950	1950	1950
	4.12	Coupling height	h10(mm)	590	590	590	590
	4.19	Overall length	l1(mm)	5423	5423	5423	5423
	4.20	Length to face of forks	l2(mm)	-	-	-	-
	4.21	Overall width	b1/b2(mm)	2580/2205	2580/2205	2580/2205	2580/2205
	4.22	Spreader sideshift	mm	±600	±600	±600	±600
	4.24	Spreader width,retracted, min	b3(mm)	6100	6100	6100	6100
	4.25	Spreader width, extended, max	b5(mm)	12240	12240	12240	12240
	4.31	Ground clearance, laden, below mast	m1(mm)	250	250	250	250
	4.32	Ground clearance, centre of wheelbase	m2(mm)	345	345	345	345
	4.34	Aisle width with(8'6" / 9'6")	Ast(mm)	9680/14280	9680/14280	9680/14280	9680/14280
	4.35	Turning radius	Wa(mm)	4750	4750	4750	4750
	4.36	Minimum pivoting point distance	b13(mm)	1600	1600	1600	1600
Performance data	5.1	Travel speed, laden/unladen	km/h	29	29	29	29
	5.2	Lift speed, laden/unladen	m/s	0.52/0.53	0.52/0.53	0.52/0.53	0.52/0.53
	5.3	Lowering speed, laden/unladen	m/s	0.50/0.48	0.50/0.48	0.50/0.48	0.50/0.48
	5.5	Drawbar pull, laden	N	115000	115000	115000	115000
	5.7	Gradeability, laden	%	20	20	20	20
	5.10	Service brake		Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake
		Parking brake		spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake
Engine	7.1	Engine manufacturer/type		YUCHAI YC07160-T400	YUCHAI YC07160-T400	CUMMINS B6.7	CUMMINS B6.7
		Emission STD		China IV	China IV	EU StageV	EU StageV
	7.2	Engine power	kW	118	118	116	116
	7.3	Rated speed	r/min	2200	2200	2200	2200
	7.4	Number of cylinders/displacement	(-)/(cm³)	6/6870	6/6870	6/6700	6/6700
	7.9	Vehicle electrical system voltage	V	24	24	24	24
	7.10	Battery voltage/nominal capacity	V/Ah	2×12/120	2×12/120	2×12/120	2×12/120
		Rated torque	N·m/r/min	670/1400~1700	670/1400~1700	746/1300	746/1300
		Transmissions Manufacturer		OKAMURA	OKAMURA	OKAMURA	OKAMURA
		Stage FWD/RVS		2/1	2/1	2/1	2/1
Addition data	10.1	Operating pressure for attachments	Mpa	15	15	15	15
	10.2	Oil volume for attachments	l/min	120	120	120	120
	10.3	Hydraulic Tank - capacity (drain & refill)	liter	500	500	500	500
	10.4	Fuel tank capacity	liter	430	430	430	430
	10.7	Sound pressure level at the driver's seat	dB (A)	72	72	72	72





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HANGCHA trucks conform
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X Series Empty Container Handler

with capacities of 9,000kg

STAGE V
CERTIFIED

REACH
THE SKY



The World of Hangcha
SINCE 1956



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.



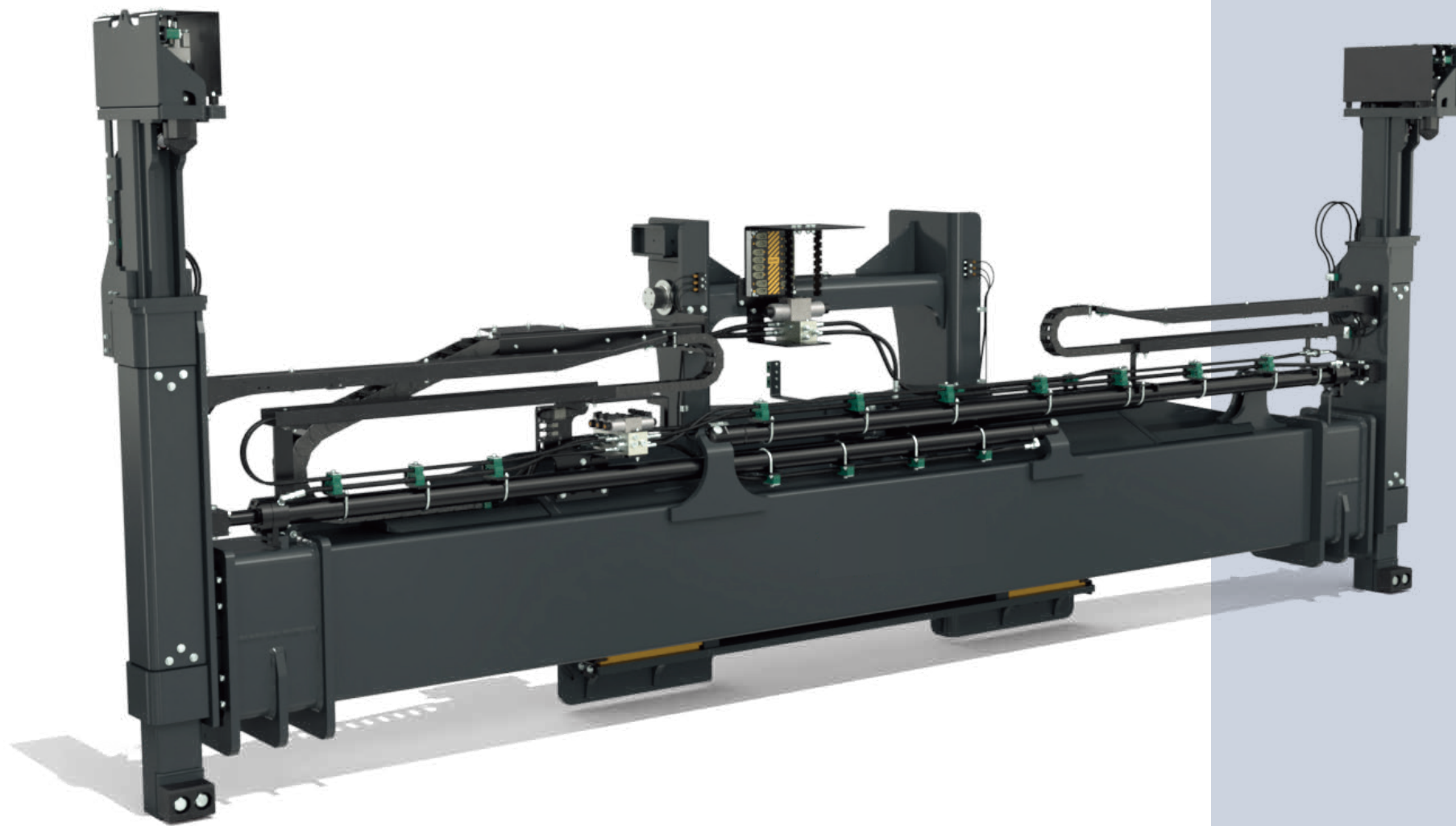
Safe

- / 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, speed-adjustable wipers and defrosting function make driving more comfortable.



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:

- / Approx. 2.45 - 2.60 m wide "CPC" containers (Cellular Pallet-wide Containers) with non-ISO corner castings.



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

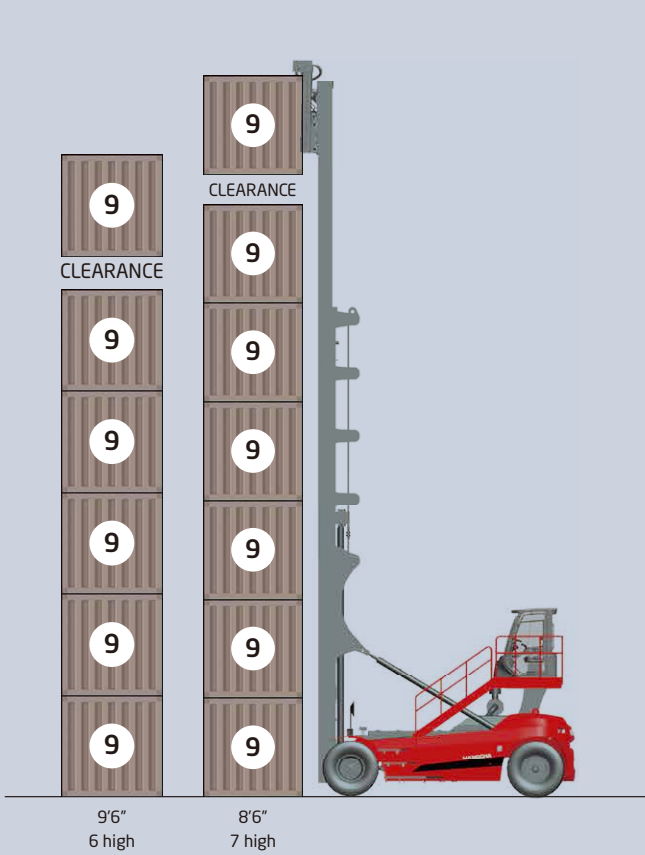


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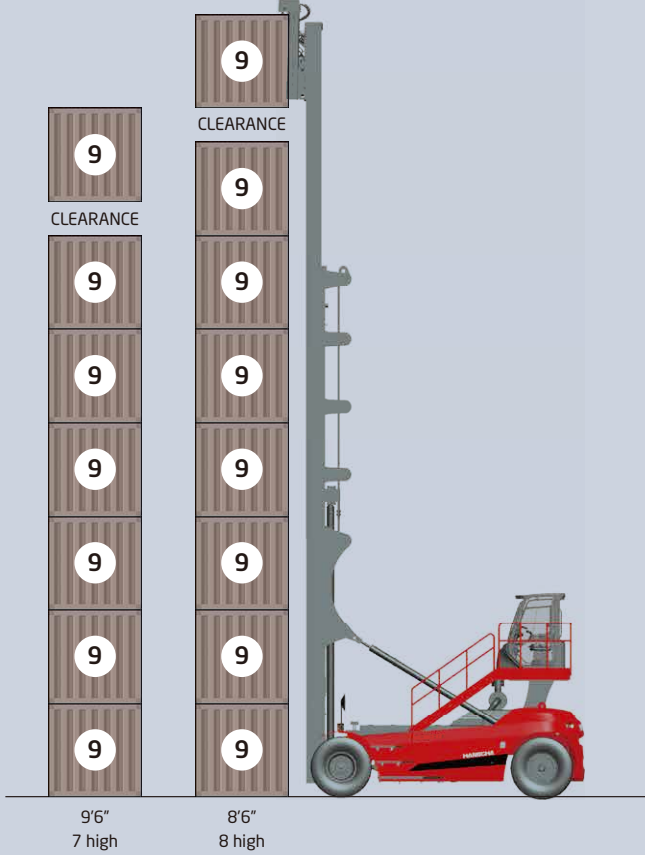
TECHNICAL SPECIFICATIONS

Type of lifting system	Two vertical twistlocks
Type of stacking	Normal and block stacking
Spreader weight (TW)	3600 kgs
Carriage weight (MPS)	1050 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
Mechanical pile slope (MPS), vertical floating end-posts	At 20ft position: approx. 200 mm 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



H90EC-7



H90EC-8

Features

Transmission	Standard	Options
Pneumatic tyre	●	
Solid tyre		○
Steering system		
Fully hydraulic power steering	●	
Centralized lubrication system (machine)		○
Power system		
Extended exhaust pipe	●	
Lockable fuel cap	●	
Spark arrester		○
Pre-cleaner air filter	●	
Truck		
Tow pin	●	
Electrostatic discharge chain		○
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		○
1 x 12V power supply		○
License plate frame		○
Fan	●	
Lifting components		
Duplex mast	●	
Standard lifting height	●	
Optional lifting height		○
Spreader & twistlock double protection	●	
Emergency descent	●	
Twistlock counter	●	
2 x Spreader twistlock light	●	
Other		
Standard color	●	
User defined colour		○
Fire extinguisher (2kg/4kg)		○
Vehicle toolkit	●	
Mast automatic vertical realignment		○
Lifting height indicator on display		○
Dynamic speed Limit depending of lift height(customer defined)		○

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		○
Front & rearview camera system		○
Front & rearview camera system with memory		○
4 directions camera system with single display		○
4 directions camera recording system with single display		○
In cabin CCTV		○
Rear blue safety light		○
Front and rear blue safety light		○
Three sided blue danger zone light		○
Overspeed alarm		○
Speed limitation		○
Voice reverse alarm		○
Automatic fire suppression system		○
Two-way radio		○
Weight indicator in display		○
Flashing warning light (non rotating) with control switch	●	
Tyre pressure monitoring		○
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	●	
Service indicator	●	

Technical Data

Distinguishing mark	1.1	Manufacturer		HANGCHA GROUP CO.,LTD.							
	1.2	Manufacturer's type designation		H90EC-7-XRW83-N	H90EC-8-XRW83-N	H90EC-7-XRW36-U	H90EC-8-XRW36-U	H90EC-7-XRH10-U	H90EC-8-XRH10-U	H90EC-7-XRH19-N	H90EC-8-XRH19-N
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Rated capacity/rated load	Q (kg)	9000	9000	9000	9000	9000	9000	9000	9000
	1.6	Stacking height, no. of containers (8'6" / 9'6")		7/6	8/7	7/6	8/7	7/6	8/7	7/6	8/7
	1.7	Load centre distance	c (mm)	1220	1220	1220	1220	1220	1220	1220	1220
	1.8	Load distance, centre of drive axle to fork	x (mm)	1260	1260	1260	1260	1260	1260	1260	1260
	1.9	Wheelbase	y (mm)	4550	4550	4550	4550	4550	4550	4550	4550
Weight	2.1	Service Weight	kg	39800	39800	39800	41000	39800	41000	39800	41000
Tyres, chassis	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2	Tyre size, front		14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR
	3.3	Tyre size, rear		14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR	14.00-24-28PR
	3.5	Wheels, number front / rear (x = driven wheels)		4/2	4/2	4/2	4/2	4/2	4/2	4/2	4/2
	3.6	Tread, front	b10 (mm)	3280	3280	3280	3280	3280	3280	3280	3280
	3.7	Tread, rear	b11 (mm)	2300	2300	2300	2300	2300	2300	2300	2300
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β(°)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
	4.2	Height, mast lowered	h1 (mm)	10715	10715	10715	12015	10715	12015	10715	12015
	4.3	Lift height, min in twist locks	h2 (mm)	2200	2200	2200	2200	2200	2200	2200	2200
	4.4	Lift height, max in twist locks	h3 (mm)	18670	18670	18670	21270	18670	21270	18670	21270
	4.5	Height, mast extended	h4 (mm)	19100	19100	19100	21700	19100	21700	19100	21700
	4.7	Height of overhead cabin	h6 (mm)	4600	4600	4600	4600	4600	4600	4600	4600
	4.8	Seat height relating to SIP	h7 (mm)	3500	3500	3500	3500	3500	3500	3500	3500
	4.12	Coupling height	h10 (mm)	740	740	740	740	740	740	740	740
	4.19	Overall length	l1 (mm)	7000	7000	7000	7000	7000	7000	7000	7000
	4.20	Length to face of forks	l2 (mm)	6850	6850	6850	6850	6850	6850	6850	6850
	4.21	Overall width	b1/b2(mm)	4120/2700	4120/2700	4120/2700	4120/2700	4120/2700	4120/2700	4120/2700	4120/2700
	4.22	Spreader sideshift	mm	±600	±600	±600	±600	±600	±600	±600	±600
	4.24	Spreader width,retracted, min	b3 (mm)	6100	6100	6100	6100	6100	6100	6100	6100
	4.25	Spreader width, extended, max	b5 (mm)	12240	12240	12240	12240	12240	12240	12240	12240
	4.31	Ground clearance, laden, below mast	m1 (mm)	290	290	290	290	290	290	290	290
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	300	300	300	300	300	300	300	300
	4.34	Aisle width with(8'6" / 9'6")	Ast (mm)	10200/14000	10200/14000	10200/14000	10200/14000	10200/14000	10200/14000	10200/14000	10200/14000
	4.35	Turning radius	Wa (mm)	6000	6000	6000	6000	6000	6000	6000	6000
	4.36	Minimum pivoting point distance	b13 (mm)	2085	2085	2085	2085	2085	2085	2085	2085
Performance data	5.1	Travel speed, laden/unladen	km/h	26/28	26/28	26/28	26/28	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	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	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	160000	160000	160000	160000
	5.7	Gradeability, laden	%	22	22	22	22	22	22	22	22
	5.10	Service brake		Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake	Wet disc brake
		Parking brake		spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake	spring applied, hydraulic release multi-disc brake
Combustion-engine	7.1	Engine manufacturer/type		Volvo TAD851VE	Volvo TAD851VE	Cummins QSC8.3	Cummins QSC8.3	Volvo TAD881VE	Volvo TAD881VE	Volvo TAD881VE	Volvo TAD881VE
		Emission STD		Tier3 / StageIIA / GB III	Tier3 / StageIIA / GB III	Tier3 / Stage IIIA / GB III	Tier3 / StageIIIA / GB III	EU StageV / Tier 4f	EU StageV / Tier 4f	GB IV	GB IV
	7.2	Engine power	kW	185	185	179	179	185	185	185	185
	7.3	Rated speed	r/min	2200	2200	2200	2200	2200	2200	2200	2200
	7.4	Number of cylinders/displacement	(-)/(cm³)	6/7700	6/7700	6/8300	6/8300	6/7700	6/7700	6/7700	6/7700
	7.9	Vehicle electrical system voltage	V	24	24	24	24	24	24	24	24
	7.10	Battery voltage/nominal capacity	V/Ah	2×12/150	2×12/150	2×12/150	2×12/150	2×12/150	2×12/150	2×12/150	2×12/150
		Rated torque	N·m/r/min	1160/1350	1160/1350	1085/1500	1085/1500	1175/1400	1175/1400	1175/1400	1175/1400
		Transmissions Manufacturer		DANA	DANA	DANA	DANA	DANA	DANA	DANA	DANA
	Stage FWD/RVS		3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	
Addition data	10.1	Operating pressure for attachments	bar	140	140	140	140	140	140	140	140
	10.2	Oil volume for attachments	l/min	60	60	60	60	60	60	60	60
	10.3	Hydraulic Tank - capacity (drain & refill)	liter	460	460	460	460	460	460	460	460
	10.4	Fuel tank capacity	liter	440	440	440	440	440	440	440	440
	10.7	Sound pressure level at the driver's seat	dB (A)	72	72	72	72	72	72	72	72

