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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

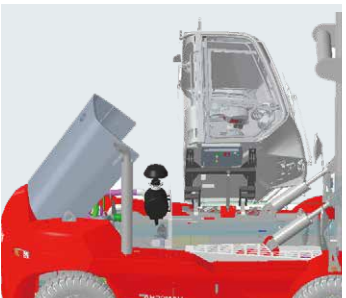
/ The central controller of the forklift uses CAN bus architecture to monitor the built-in diagnostic sensors, manage the functions of the forklift and raise central fault alarm of the forklift. /Optional intelligent management system can be selected to make remote intelligent monitoring manage devices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



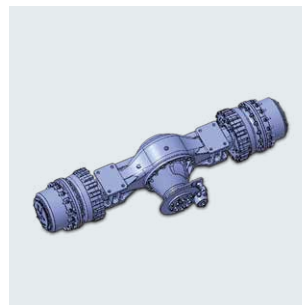
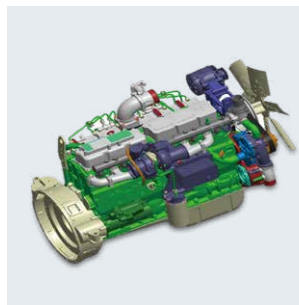
Fully-suspended all-round vision cab

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.

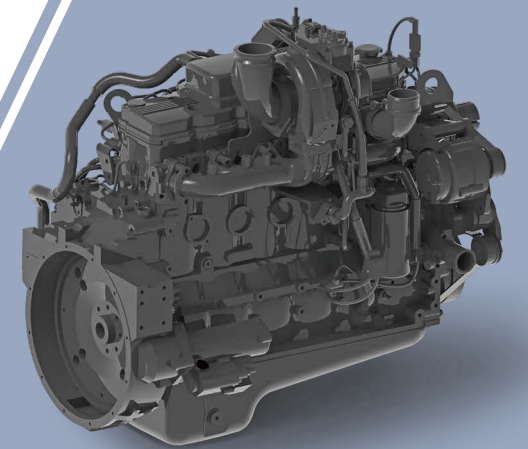


STAGE V & TIER 4F

HANGCHA with you at every stage

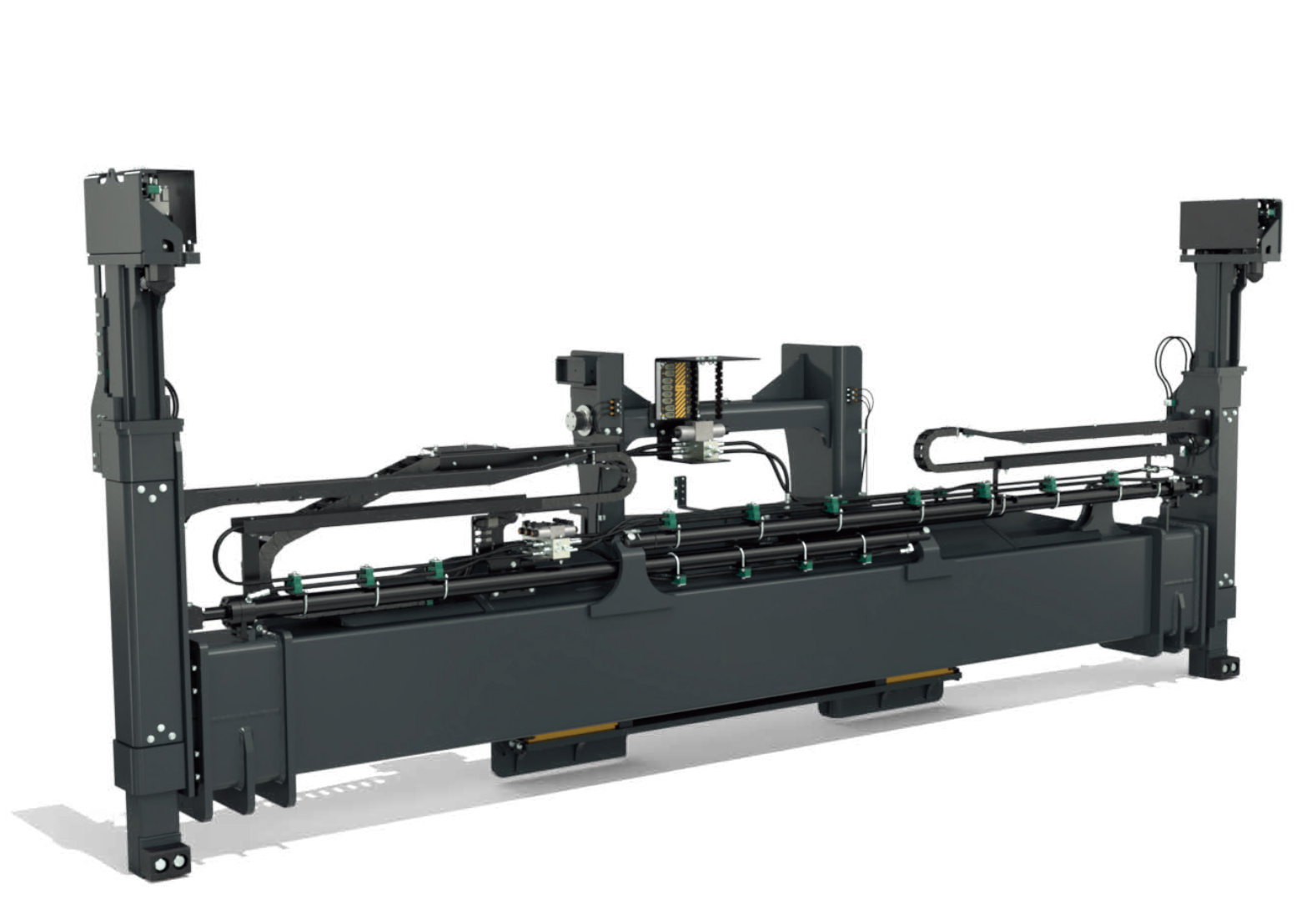
Efficient, reliable solutions for your demands

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.



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.

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 smooth tire		○
Steering system		
Fully hydraulic power steering	●	
Centralized lubrication system (machine)	●	
Automatic Lubrication System		○
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	●	
Emergency descent	●	
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)		○
Heating pack for the cold region		○
FIMS(Fleet intelligent management system)	●	

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

