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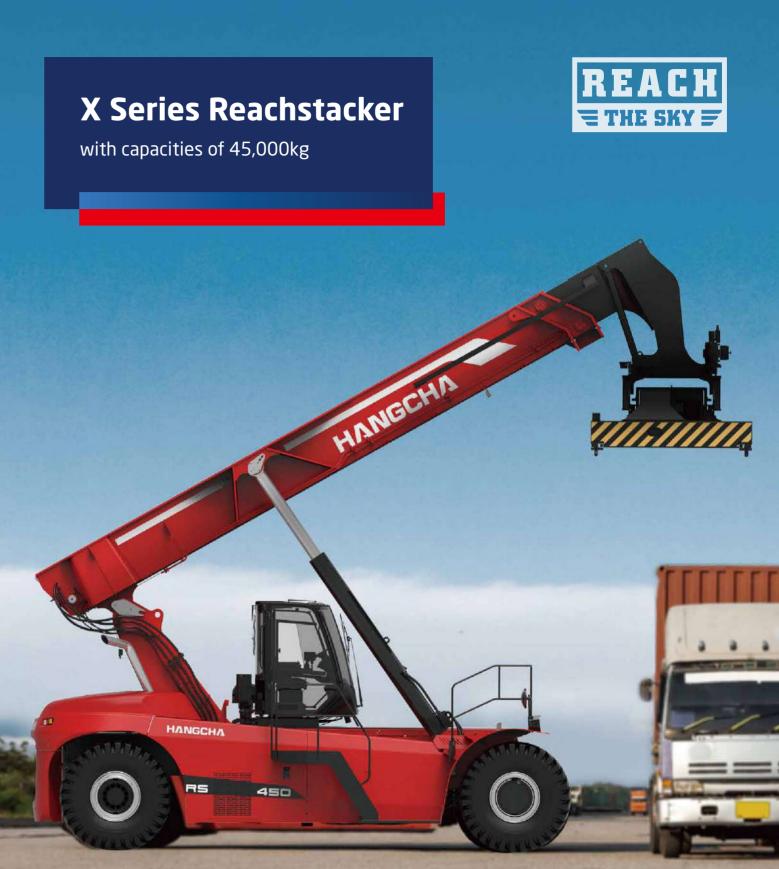
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The World of Hangcha SINCE 1956



C.T.T.

Inheriting the appearance of the X series family, it is performance and guaranteed quality.

Using advanced control technologies, it is safe, reliable, comfortable and efficient. It is mainly used

HANGCHA

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HANGCHA



The RS4531CH-XRW86 Reachstacker is a newly developed product based on Hangcha's X series

Safe and reliable

- / Durable and reliable high-quality key parts of internationally renowned brands.
- / Rich safety equipment 6-probe visual reverse radar, lock camera, eccentric load weighing system, vehicle fire protection and other equipment enable safe and easy operations.
- / Comprehensive safety protection technologies Safety technologies such as seat sensing, dynamic antitipping protection, longitudinal dual anti-tipping protection, spreader twist-lock dual protection, startup anti-stalling protection, fault protection, etc. are used to ensure safe operations at all times.

Easy maintenance

- / CAN bus communication monitors the vehicle status in real time, which is convenient troubleshooting.
- / The easy-to-remove hood is designed. All the maintenance points are in easily accessible and safe positions and the electric control cabinet wiring method is adopted, which greatly simplifies the maintenance and repair and improves the maintenance efficiency.

Energy-saving and efficient

/ Efficient control systems

Electric proportional control, throttle following control, vertical lift control, intelligent cooling fan control and torque control enable efficient and flexible control.

/ Hydraulic load sensing system

Through real-time adjustment of pump displacement in accordance with the load, high-precision flow control is realized, non-operating energy consumption of the engine is reduced and a significant energy saving effect is achieved.

/ Vehicle LED lighting system The high-performance and long-life vehicle LED lighting system can reduce energy consumption.





Strong power system



- / With high performance and low fuel consumption, the low-speed high-torque VOLVO TAD1151VE engine has advanced fault diagnosis and fault protection functions. With a displacement of 10.8L, six in-line cylinders and low emission, it is turbocharged and meets EPA3, EU III A and China Stage III emission requirements.
- / Equipped with a Donaldson two-stage heavy-duty air filter and a high-efficiency cyclone pre-filter.
- / DANA36000 gearbox with a reliable structure and stable performance / German KESSLER's heavy-duty reinforced drive axle, two-stage decelerating and with a multi-disc wet driving brake, the brake oil filtration system and the independent brake oil cooling system are adapted to heavy-duty operation conditions.
- / The 800L super-large fuel tank meets the requirements of continuous and long-term work and saves working time.

Comprehensive electrical safety system

- / A 24V electrical system, a 110A AC generator, a main power switch, and a cab emergency switch
- / Advanced CAN bus communication is used to acquire the working status of the input / output execution components of the engine, gearbox, spreader and vehicle and then display the data on the high-definition color screen, which is convenient for the operator to view. Fault protection can avoid safety accidents. / Dynamic anti-tipping protection control system:

Load indicator:

- outreach, load percentage bar, alarm code, etc. / Concentratedly-controlled lighting system
- open-circuit diagnosis functions.

Stylish and comfortable

/ Fashionable and high-end modeling elements

The pitch-down streamlined design presents a vivid and sturdy profile. Smooth coloring and the simple and elegant logo highlight fashionable and high-end design elements.

/ Ergonomic control platform

The ergonomically-designed control platform equipped with reasonably-arranged comfortable-feel buttons enables comfortable and accurate operations, plus the adjustable steering wheel and the suspended seat with an adjustable backrest, making the operator more comfortable.

/ Quiet, fully-suspended all-round vision cab In the cab, noises are less than 78dB and there are a cooling and heating air conditioner, sunshades, a reading light, a radio and other equipment to provide a comfortable operating environment, plus the largely-curved front and rear windows, large glass ceiling and all-glass side doors to enable a broad view.









DONALDSON

VOLVO TAD1151VE



DANA36000

- Overload protection: the boom stops moving in the dangerous direction but can move in a safe direction.
 - lit green (indicating that the system can work normally);
 - lit orange (indicating that system is warning for particular attention);
 - lit red (indicating that the system is detecting a situation requiring immediate action)
- Display: boom length, actual load, maximum load, boom height, jaw angle,
- A concentratedly-controlled lighting system, an integrated button panel and comfortable-feel control switches enable comfortable and easy operations.
- The LED lighting system is controlled by the CAN bus and has short-circuit and

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





ELME new-generation container spreader



- and the service life is prolonged by 30%.
- loss and is more energy-saving and efficient.
- of the spreader can be smoothly and finely controlled.
- guery is guick and simple.
- indication of the action indicator are provided to avoid: the twist-lock is opened when the container is lifted.
- unlocked.

Efficient hydraulic system

- / American PARKER's combined hydraulic valves, Danish DANFOSS's variable hydraulic pump and the load sensing hydraulic system, reduce the continuous load of the engine.
- / Flexible and precise electric proportional control.
- / Light load high-speed lifting increases work efficiency.
- / Independent temperature control and the large-size hydraulic oil cooler meet the work in the environment of up to 50 degrees.
- / Perfect high and low pressure oil filters improve the reliability of the hydraulic system.
- / Multiple hydraulic test points are set to simplify repair and maintenance work.

/ For the new-generation ELME817 series telescopic container spreader, the design of the telescopic beam, turntable, etc. are optimized, so that the structural strength is increased, the weight of the spreader is 16% less than that of the spreader of the last generation

/ The arrangement of the oil cylinder is changed to be more conducive to maintenance.

/ Design of the hydraulic system is optimized, so that the spreader system has less pressure

/ With electro-hydraulic proportional control, the speed is adjustable and the rotation angle

/ The latest Neuron programmable controller is used so that more optional features can be developed. Fault code information is provided according to the [1939 protocol so that fault

/ The twist-lock interlock device (mechanical and electro-hydraulic) and the real-time

the container is lifted when less than 4 corners are locked;

/ The lift interrupter can prevent the container from being lifted when the twist-lock is

partly twisted. The lift operations can be performed only when the twist-lock is locked or





Vehicle cooling management

- / Fans with electronic motors are used independently to cool hydraulic oil and brake oil, so that the requirements for use in the 50-degree high temperature environment are met.
- / Torque converter oil temperature control management ensures that the gearbox works within the optimal temperature range.
- / High-power plate-fin heat dissipaters and suction fans with large cooling strength and low noise are used for the intercooling and cooling liquids, so that the requirements for use in the 50-degree high temperature environment are met.



Appearance and performance

- / The pitch-down streamlined design of the vehicle presents a vivid and sturdy profile.
- / The optimized counterweight contour greatly reduces the turning radius of the
- vehicle, broadens the side rear and front rear views, and makes driving simple and safe.
- / The left and right stair handrails, mudguard handrails, together with the anti-skid pedals and anti-skid paper, fully protect the safety of personnel.





Standard Specification

- / Large-stroke movable cab
- / Sunshade
- / Reading light
- / Speed-adjustable wiper
- / High-power cooling and heating air conditioner
- / Radio
- / Steering wheel adjusting device
- / Armrest's multi-directional adjustment device
- / Chair sensing system
- / Pneumatic tire
- / High-position emission device
- / Donaldson basin-shaped double air filter
- / Traction device
- / Vehicle toolkit
- / Fully hydraulic power steering
- / Load-sensitive hydraulic system
- / Independent brake oil tank
- / Independent cooling of hydraulic oil
- / Independent cooling of brake oil
- / Torque converter oil temperature control management
- / Vehicle LED lights
- / Main power switch
- / 6-probe visual reverse radar (3m)
- / Color LCD
- / Reverse buzzer
- / Snail horn
- / 24V CAN bus communication
- / Longitudinal tipping prevention
- / Spreader twist-lock double protection
- / Throttle following control
- / Proportional control technology of spreader action
- / Dynamic anti-tipping protection
- / Joint action
- / Vertical lift control
- / Spreader sway prevention
- / Light load high-speed lifting
- / Concentratedly-controlled lighting control system
- / Emergency function
- / Electrical safety protection
- / Maintenance reminding system
- / Fault diagnosis system
- / Twist-lock counter



Options

- / User specified color
- / Solid tire
- / Tire pressure monitoring
- / Spark arrester
- / Fire extinguisher (2kg \ 4kg)
- / Automatic fire extinguishing system
- / Heating device for cold regions
- / Front view system (optionally with a memory)
- / Lock camera
- / Video surveillance system (2 cameras)
- / Video surveillance system (4 cameras)
- / Four-channel driving record system
- / Vehicle intercom
- / Reverse voice buzzer
- / Public address alarm system
- / Blue light
- / Eccentric load weighing system



X Series 45t Reachstacker

	1.1	Manufacturer		HANGCHA
Characteristics	1.2	Model designation		RS4531CH-XRW86
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Disel
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Rider seated
	1.5	Rated capacity/rated load(L1,L2,L3)	Q (kg)	45000/31000/16000
	1.5	Load centre, from front face of types, row 1	c (mm)	1965
	1.0	Load centre, from front face of types, row 2	c (mm)	3815
		Load centre, from front face of types, row 3	c (mm)	6315
		Stacking capacity.in container row 1-2-3 of 8'6"/9'6"	C (mm)	5/5-5/4-4/3
	1.0		x (mm)	840
	1.8	Lost load centre, to front face of tyres		6000
	1.9	Wheelbase	y (mm)	
Weight	2.1	Service Weight	kg	72200
	2.2	Axle load,front at load centre L1,unloaded-loaded	kg	33400/99400
		Axle load, front at load centre L2, unloaded-loaded	kg	34000/93300
	2.3	Axle load,rear at load centre L1,unloaded-loaded	kg	38800/17800
		Axle load,rear at load centre L2,unloaded-loaded	kg	38200/9900
Wheels & tyres	3.1	Tyres: solid rubber, superelastic, pneumatic, polyurethane		pneumatic
	3.2	Tyre size, front		18.00-25-40pr
	3.3	Tyre size, rear		18.00-25-40pr
	3.5	Wheels, number front / rear (x = driven wheels)		4x/2
	3.6	Tread, front	b10 (mm)	3050
	3.7	Tread, rear	b11 (mm)	2790
Dimensions	4.1	Telescopic boom lift angle,Raised/lowered	α/β(°)	60/0
	4.2	Height telescopic boom lowered	h1 (mm)	4700
	4.4	Lift (L1,L2,L3)	h₂ (mm)	15200/-/-
		Seat height relating to SIP	h₃ (mm)	2615
	4.19	Overall lengty with boom	lı (mm)	11625
	4.20	Overall lengty	l2 (mm)	8123
	4.21	Truck width over drive axle	b1 (mm)	4220
		Spreader sideshift	mm	+/-800(1600)
		Spreader rotation	deg	+105/-195
	4.31	Ground clearance minimum	m1 (mm)	400
	4.33	Stacking aisle 20' container	Ast (mm)	11350
	4.34	Stacking aisle 40' container	Ast (mm)	13650
	4.35	Turning radius	Wa (mm)	8100
Performance data	5.1	Travel speed, laden/unladen	km/h	20/22
	5.2	Lift speed, laden/unladen	m/s	0.250/0.450
	5.3	Lowering speed, laden/unladen	m/s	0.300/0.320
	5.6	Drawbar pull, laden/unladen	N	297000
	5.8	Gradeability, laden/unladen	%	20
Combustion- engine	5.10	Service brake		Wet disc
	7.1	Engine manufacturer/type		Volvo TAD1151VE
	7.2	Engine power according to DIN ISO 1585	kw r/min	265
	7.3	Rated speed	r/min	2100
	7.4	Number of cylinders/displacement	(-)/(cm³)	6/10840
		Generator	A	110
		Vehicle electrical system voltage	V	24
		Battery voltage/nominal capacity	V/Ah	2X12/180
Other		Hydraulic Tank - capacity (drain & refill)	liter	800
		Fuel tank capacity	liter	800
	8.4	Sound pressure level at the driver's seat	dB (A)	78
	8.5	Towing coupling, type DIN 15170	mm	φ50

