



EP
Let's grow together

we are always in innovation



REACH STACKER

www.ep-ep.com

EP REACH STACKER

EP REACH STACKER ACHIEVEMENT OF PROFESSIONAL QUALITY

SAFE AND RELIABLE ●

HIGH EFFICIENCY ●

ENERGY-SAVING ●

EP Reach Stacker is specifically designed for 20ft and 40ft containers, mainly used in small or mid-size ports, intermodal terminals, to transfer and stack various containers and other materials. Compare with forklift, the Reach Stacker has more advantage in above application such as: more flexible, easier to operate, more stable, lower tyre pressure, higher stacking and storage capacity etc. It can also be operated across over containers.



SAFE AND RELIABLE



① Reliable structure system

Designed with 3D modeling, use simulation software to finite element analysis, the stacker passed high-intensive fatigue and vibration test to ensure the reliability of whole structure

② Reliable transmission system

Using world brand transmission like KESSLER, VOLVO and DANA, which are safe, reliable and strong power. Combing the specific electronic control technology, the equipment is greatly optimized in dynamic performance. with over-load protection system, gearbox will switch to low speed mode automatically when overloaded, to avoid shock and impac-ting, and also extend service life of engine and gearbox.

③ Independent brake cooling system

Drive axle brake use a separate cooling system from truck hydraulic cooling system to ensure safety and extend drive axle service life.

4 Dynamic Anti-Rollover Protection Technology

- Rear axle unlock system
- Counter weight backwards mechanism

Rear axle unlock system will be triggered once detect unbalanced weight in front. Use rear axle as extra weight to increase stability; and lower counter weight will move backwards to increase safety and avoid revolve.



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5 Overload protection

Equipped with weighing device, the reach stacker will stop working once over loaded.

6 Global positioning system

Equipped with weighing device, the reach stacker will stop working once over loaded.

7 Rear View Camera

Remote monitor, data record and fault diagnosis by using GPS.

8 Operation Adaptive System

Can adjust operating speed base on driver' s habit, increase safety and reliability.



High Efficiency

① Vertical Lifting Technologies of Boom

The intelligent controller monitors the boom's parameters at real-time, and automatically adjust the position of the boom to ensure vertical lifting of the spreader, which makes stacking safer and improves efficiency significantly.

② Emergency power technology

Emergency power unit will be triggered when engine or pump fail in the middle of operation, to safely release the load.



3 Control integrated technology

The centralized joystick has inching control function. It can realize fine tuning to millimeter precision easily. All the spreaders' motions are under proportional control, providing an experience of man-machine unification. The machine also has multi-motion linkage design so that it can operate faster and more efficiently.

4 Comfortable Operation Environment

The operator-oriented design includes a broad view of work condition. The controlling devices are placed in reasonable position to ease fatigue of operators.



5 weighing and printing technology

Print out container quantity and weight anytime, improve work efficiency.



Energy-saving

① Hydraulic Load Sensing System

Automatically adjust the pump displacement according to the load, realizing high precision flow control. The effect of energy saving and consumption reduction are remarkable.

② Dynamic Power Matching Control System

Automatically recognize dynamic power according to load change and adjust engine speed accordingly. The output power automatically accommodate to load and work conditions, greatly reducing energy consumption.

③ Design for Lighter

- **Optimize the structure to make it lighter and stronger**
Safety and reliability: Dynamic anti-rollover protection technology, brake cooling integrated system, GPS, overload protection system;
Efficiency and comfort: adopt multi-motion linkage design, spreader motion ratio control technology and micro-move control technology; the equipment can be easily controlled
- **High return:** saving energy by 30% compare with the ordinary

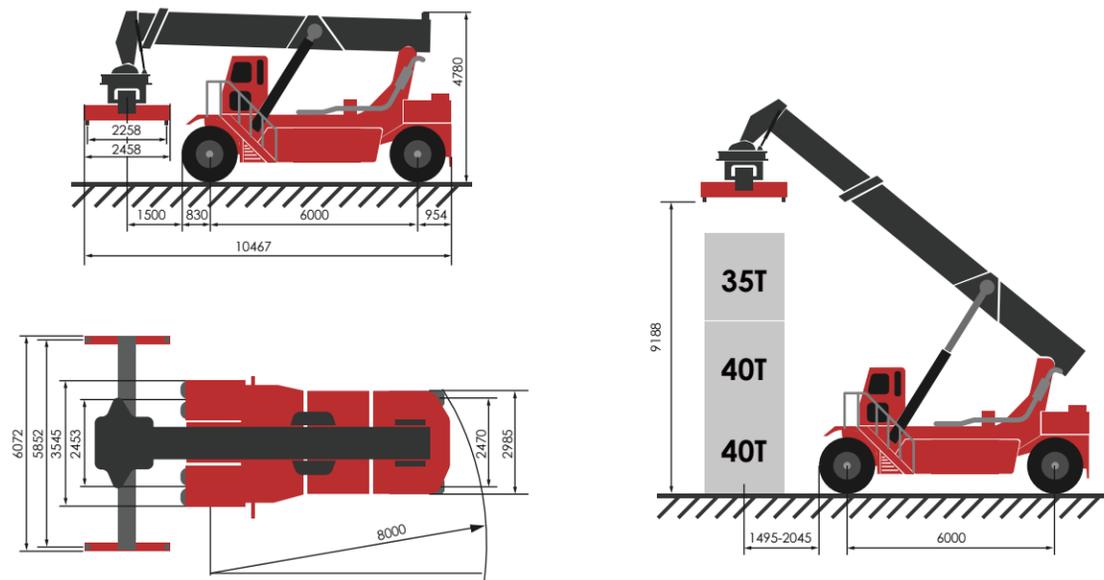


REACH STACKER TECHNICAL PARAMETER

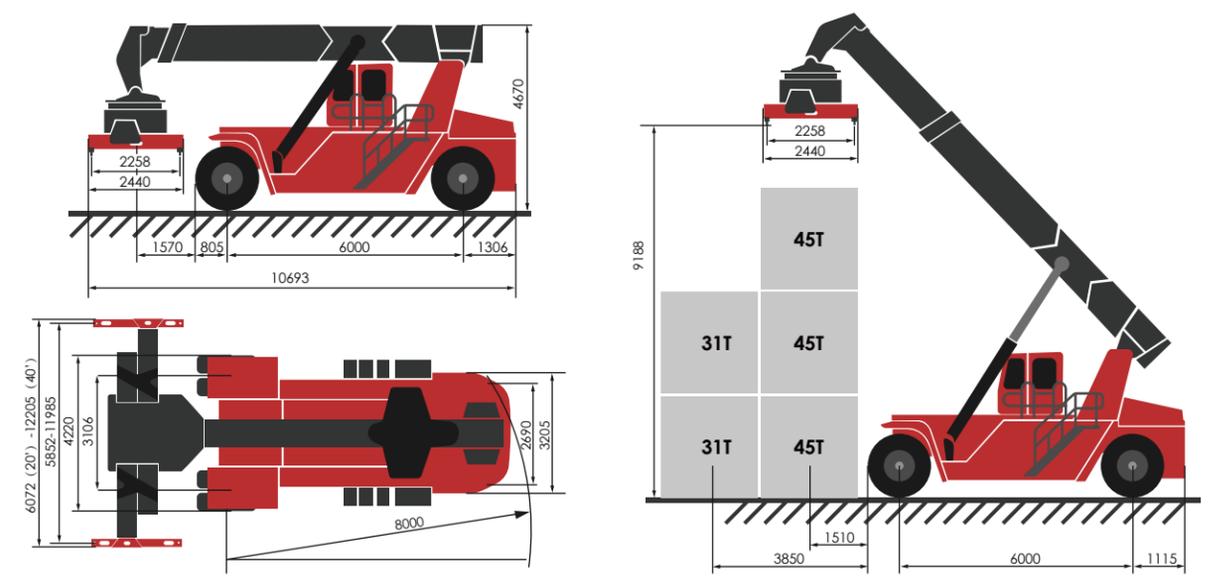
No.	Parameter		Unit	40T Economical	45T Energy-saving	45T Standard
1		Max. load	t	40	45	45
2	Outreach and lift weight	Outreach (1st row, between front edge of tyre and middle of container)	mm	1495-2045	1510	1900
		Lift weight	t	40	45	45
		Outreach (2nd row, between front edge of tyre and middle of container)	mm		3850	3850
		Lift weight	t		31	31
		Outreach (3rd row, between front edge of tyre and middle of container)	mm			6350
		Lift weight	t			15
3		Max. Hoisting height	mm	9188	9188	15100
4		Max. tilt angle	°	42	42	60
5		Max. Hoisting speed (Non-load/Load)	mm/s	160/120	140/100	240/210
6		Max. Descending speed (Non-load/Load)	mm/s	90/120	90/120	300/340
7		Overall length	mm	10467	10693	11640
8		Overall width	mm	6072/3545	6072/4220	6072/4070
9		Overall height	mm	4780	4670	4740
10		Wheel base	mm	6000	6000	6000
11		Track width (Front/Rear)	mm	2453/2470	3106/2690	3023/2690
12		Min. turning radius	mm	8200	8000	8000
13		Min. ground clearance (Non-load)	mm	360	360	360
14		Overall weight (Non-load)	kg	65000	71000	72000
15		Front axle load capacity (Non-load/Load)	kg	25072/88970	25000/97000	28547/94023
16		Rear axle load capacity (Non-load/Load)	kg	39248/16030	46000/19000	43453/22977
17		Max. travel speed (Non-load/Load)	km/h	12/6	20/14	25/22
18		Max. grade ability (Non-load/Load)	%	17/10	20/15	25/20
19	Diesel Engine	Manufacture	—	COMMINS	WEICHAI	VOLVO
		Model	—	6CTA8.3-C240	WP7G240E301	TAD1151VE
		Type	—	Turbocharging, water-air intercooler	Turbocharging,6-cylinder in-line engine, air-air intercooler	Turbocharging,6-cylinder in-line engine
		Displacement	L/r	8.3	7.47	10.84
		Rated power	Kw r/min	179/2200	176/2200	265/2100
		Max. torque	N.m	1028/1500	1105/1500	1760/1250
20	Gearbox	Manufacture	—	HANGCHI	DANA	DANA
		Model	—	3WG180/394	13.7HR32352	15.5HR36432
		Type	—	Counter shaft	Counter shaft	Counter shaft
		Operation way	—	Electrohydraulic shift	Electrohydraulic shift	Electrohydraulic shift
		Gear (forward/backward)	—	forward 3/backward 3	forward 3/backward 3	forward 3/backward 3
21	Drive Axle	Manufacture	—	XUZHOU HUACHEN	OMCI	KESSLER
		Model	—	320S0000J	ARG390M	101.2447.3a
		Type	—	Welding	Welding	Welding
22	Steering Axle	Manufacture	—	EP	EP	EP
		Type	—	Transverse cylinder, welding	Transverse cylinder, welding	Transverse cylinder, welding
23	Steering Gear	Manufacture	—	ZHENJIANG Hydraulic	EATON	EATON
		Model	—	TLF1-B1250B	550-7386-412607	550-7386-412607
24	Braking System	Service brake type	—	Wet multi-disc brakes	Wet multi-disc brakes	Wet multi-disc brakes
		Service brake adjust type	—	Hydraulic	Hydraulic	Hydraulic
		Parking brake type	—	Caliper disc brake	Caliper disc brake	Caliper disc brake
		Parking brake operate type	—	Mechanical	Electric control+Hydraulic	Electric control+Hydraulic
25	Tyre	Manufacture	—	ZHONGCE	ZHONGCE	ZHONGCE
		Front tyre model/amount	—	18.00-25-40PR/4	18.00-25-44PR/4	18.00-25-40PR/4
		Rear tyre model/amount	—	18.00-25-44PR/2	18.00-25-44PR/2	18.00-25-40PR/2
		Air pressure	Mpa	1	1	1
26	Spreader	Manufacture	—	EP	EP	EP
		Model	—	ZL-DJ-20	ZL-DJ-40	ZL-DJ-40
		Max. load	t	40	45	45
		Application		20ft container	20ft/40ft container	20ft/40ft container
		Rotation angle	°	Clockwise:26 Counterclockwise:26	Clockwise:105 Counterclockwise:195	Clockwise:105 Counterclockwise:195
		Lateral drift	mm	±650	±800	±800

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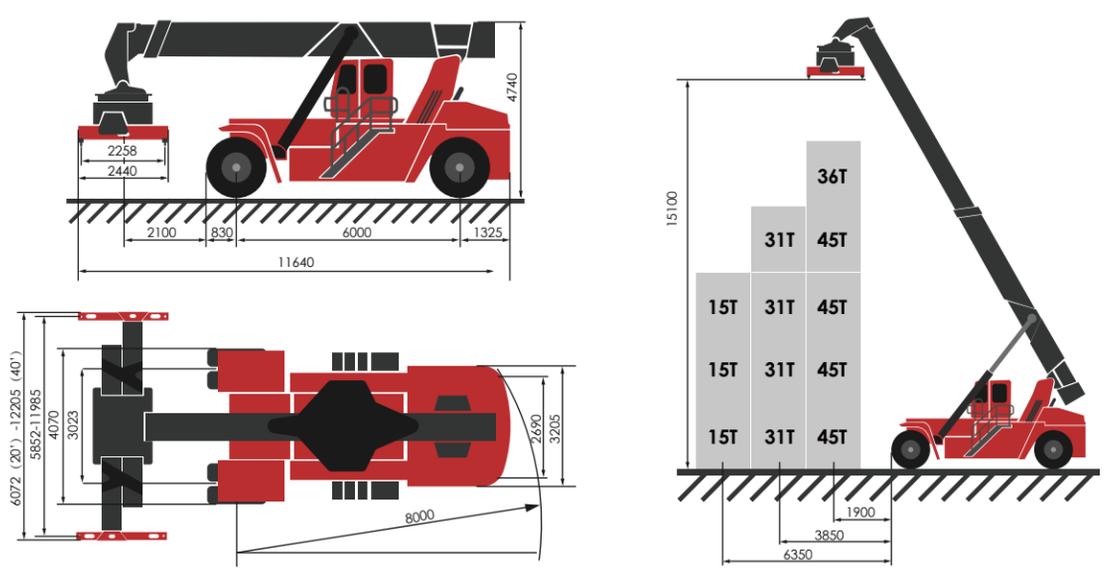
40T Economic type



45T Energy saving



45T Standard type



Options

		40T Economical		45T Energy-saving		45T Standard	
Engine	Manufacture	DONGKANG		WEICHA	DONGKANG	VOLVO	COMMINS
	Model	QSC8.3-C260		WP7G240E301	QSB6.7	TAD1151VE	QSM11
Gearbox	Manufacture	HANGCHI		DANA		DANA	
	Model	3WG180		13.7HR32352		15.5HR36432	
Driver axle	Manufacture	XUZHOU HUACHEN	OMCI	OMCI	DANA	OMCI	KESSLER
	Model	320S0000J	ARG390M	ARG390M		ARG390M	101.2447.3a
Steering gear	Manufacture	ZHENJIANG Hydraulic	EATON	EATON	EATON (import)	EATON	EATON (import)
	Model	TLF1-B1250B	550-7386-412607	550-7386-412607	253-1061-004-RI	550-7386-412607	253-1061-004-RI
Spreader	Manufacture	EP		EP		EP	ELME (import)
	Model	ZL-DJ-20		ZL-DJ-40		ZL-DJ-40	817
Hydraulic system	Manufacture	EP		EP	Parker	EP	Parker
	Model	ZL-0601-15		ZL-1231-16		ZL-1102-16	