



EP
Let's grow together

we are always in innovation



REACH STACKER

www.ep-ep.com

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, CUMMINS 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 oil cooling system to ensure safety and extend drive axle service life.

4 Dynamic Anti-Rollover Protection Technology

- Rear axle unlock system(option)
- Counter weight backwards mechanism

Rear axle unlock system will be triggered once detect overload front.

Use rear axle as extra weight to increase stability; and lower counter weight will move backwards to increase safety and avoid revolve.



5 Overload protection

Overload protection as the standard configuration weight indicator & printing(option).

6 Global positioning system(option)

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

7 Rear View Camera

When selecting reverse, screen in the cab will show the move backwards image. Also the reversing radar can make operation easier.

8 Operation Adaptive System

Driving speed, lifting speed can be adjusted according to the operator's habit and manners.



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 Power on demand technology

“Power on demand ” where by acting on the joystick the engine will automatically rev up as required by the load on spreader and the lift speed required? It will realize the oprecise,mitemeter-scale actions canbe done at the same time,improving the effieciency.

③ 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.



④ 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.

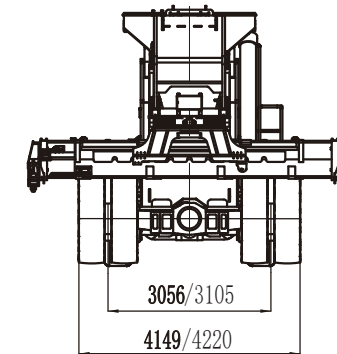
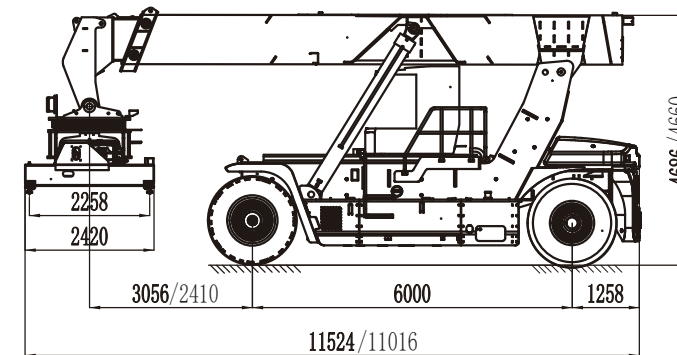
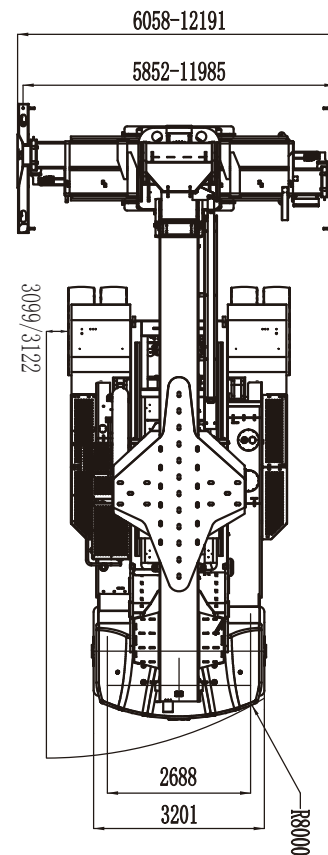
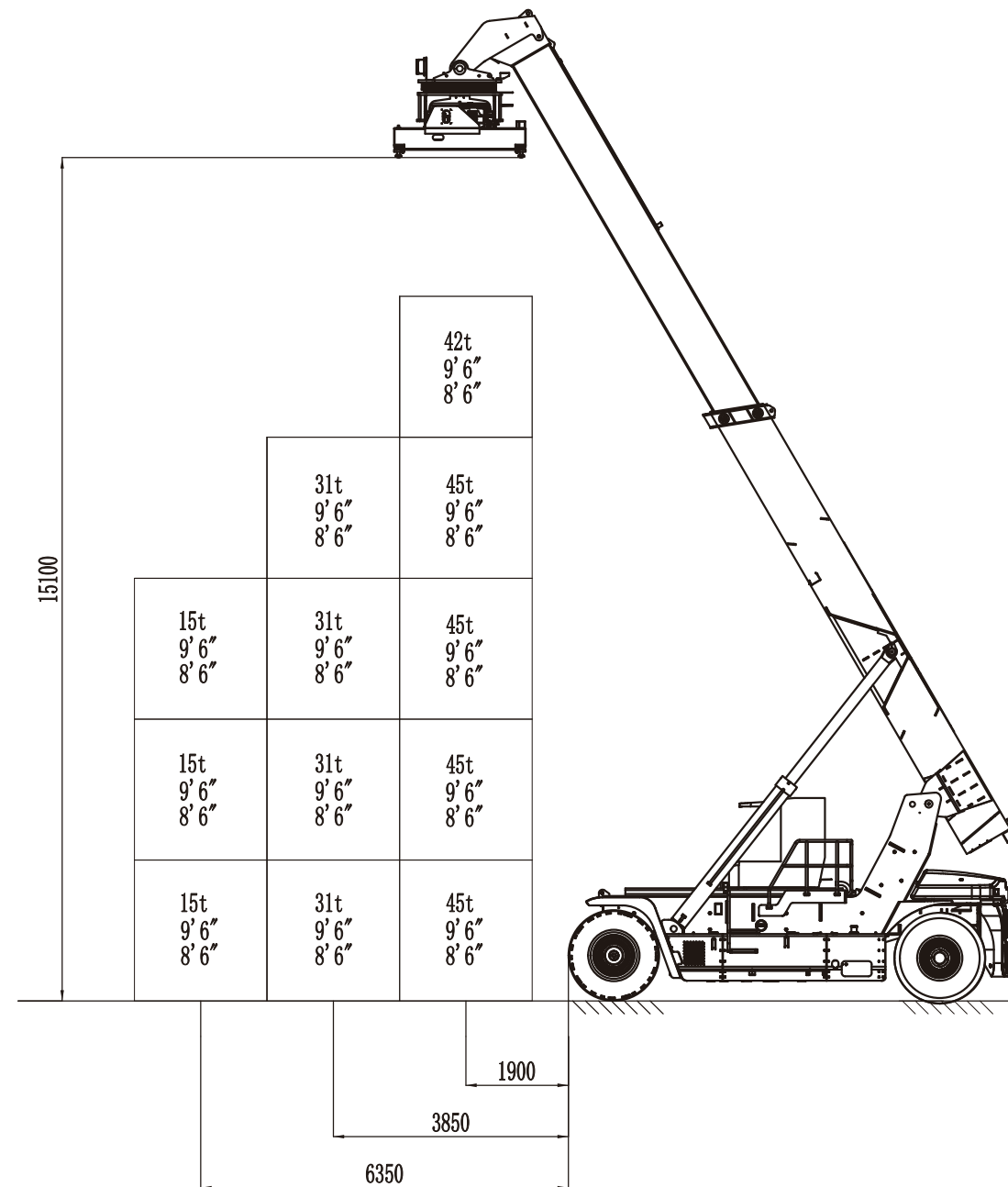
③ Design for Smart

Optimize the structure to make it 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

REACH STACKER TECHNICAL PARAMETER

Distinguishing mark				
1.1	Manufacturer		EP	EP
1.2	Model designation		ZL450-Atype45t(standard)	ZL450type45t
1.3	Operator type(hand,pedestrian,standing,seated,order-picker)		Seated type	Seated type
1.4	load capacity at load centre distance c1	Q ₁ (t)	45	45
1.5	load capacity at load centre distance c2	Q ₂ (t)	31	31
1.6	load capacity at load centre distance c3	Q ₃ (t)	15	
1.7	Load distance, centre of drive axle to the front face eftire	x (mm)	835	805
1.8	Wheelbase	y (mm)	6000	6000
Weight				
2.1	Service weight	kg	72000	71000
Tires, chassis				
3.1	Tyre type (solid rubber, superelastic, pneumatic, polyurethane)		rubber	rubber
3.2	Tyre size, front		1670X515	1610X510
3.3	Tyre size, rear		1670X515	1610X510
3.4	Wheels, number front/ rear (x=drive wheels)		4	4
3.5	Tread, front	b ₁₀ (mm)	3056	3105
3.6	Tread, rear	b ₁₁ (mm)	2688	2688
Dimensions				
4.1	Height, mast lowered	h ₁ (mm)	4686	4660
4.2	Lift height	h ₃ (mm)	15100	9188
4.3	Lift height at load centre c1	h _{3.1} (mm)	13000	7840
4.4	Lift height at load centre c2	h _{3.2} (mm)	10450	5240
4.5	Lift height at load centre c3	h _{3.3} (mm)	7840	
4.6	Height, mast extended	h ₄ (mm)	18268	12731
4.7	Height of overhead guard (cabin)	h ₆ (mm)	3770	3770
4.8	Seat height/standing height	h ₇ (mm)	2787	2787
4.9	Overall length	l ₁ (mm)	8120	8190
4.10	Overall width	b ₁ (mm)	4149	4220
4.11	Overall width across spreader 20'	b _{3.20} (mm)	6058	6058
4.12	Overall width across spreader 40'	b _{3.40} (mm)	12191	12191
4.13	Ground clearance, center of wheelbase	m ₂ (mm)	360	360

4.14	Aisle width with 20' container crossways	A st20	12467	11828
4.15	Aisle width with 40' container crossways	A st40	15550	14795
4.16	Turning radius with 20' container crossways	Wa20	8000	8000
4.17	Turning radius with 40' container crossways	Wa40	10136	9905
4.18	Internal turning radius	b ₁₃ (mm)	3099	3122
Performance data				
5.1	Travel speed, laden/ unladen	km/ h	22/25	14/20
5.2	Travel speed, laden/unladen, backwards	km/ h	22/25	14/20
5.3	Lifting speed, laden/ unladen	mm/ s	250/420	200/350
5.4	Lowering speed, laden/ unladen	mm/ s	300/340	250/280
5.5	Telescoping 20' 40'	s	19	19
5.6	Gradeability, laden/unladen	%	39/32	15/20
Combustion-engine				
6.1	Engine manufacturer/type		VOLVO	CUMMINS
6.2	Engine power according to ISO 1585	kW	265	179
6.3	Rated speed	min ⁻¹	2100	2200
6.4	Torque at 1/min	Nm/min ⁻¹	1780	1040
6.5	Number of cylinders/displacement	(-)/(cm3)	6	6
6.6	Vehicle electrical system voltage	V	24	24
6.7	Battery voltage/nominal capacity	V/ Ah	24/400	24/400
Spreader				
7.1	Manufacturer/type		EP/ELME	EP/ELME
7.2	Design	ℓ/min		
7.3	Size of containers	feet (')	20' 40'	20' 40'
7.4	Side thrust	mm	±800	±800
7.5	Tilt	°	±4	±4
7.6	Rotation angle	°	along105inverse195	along105inverse195
Addition data				
8.1	Hydraulic oil tank, capacity	ℓ	850	800
8.2	Fuel tank, capacity	ℓ	800	750
8.3	Sound pressure level at the driver's ear	dB (A)	72	72



Options

configuration		unit		ZL450type45t	ZL450-Atype45t
engine	Model number	---	---	Weichai WP7G240E301	Cummins QSC8.3-C240-30
	displacement	L/r	---	7.47	8.3
	Rated power/speed	kW/rpm	---	176/2200	179/2200
	Maximum torque/speed	Nm/rpm	---	1105/1500	1040/1350
	Exhaust emission standard	---	---	IIIstage	IIIstage
sling	Gearbox model	---	---	DANA 13.7HR32352	DANA 14.7HR36432 / DANA 15.5TE27418 / DANA 15.5TE32
	Drive axle model	---	---	OMCI ARG390M / DANA 148Std / KESSLER 101.2417.3	OMCI ARG390M / DANA 148Std
	Model number	---	---	ELME 817 / EP ZL-DJ-40	ELME 817 / EP ZL-DJ-40
	Lateral distance	mm	---	±800	±800
	Rotation Angle	deg	---	+ 105/-195	+ 105/-195
self-respect	Tilt Angle	deg	---	---	---
	self-respect	t	---	9.1	9.2
	Applicable object	---	---	ISO20'40'container	ISO20'40'container
	Type of steering gear	---	---	EATON 550-7386-412607 / EATON 253-1061-004-RI	EATON 253-1061-004-RI
	tire	---	---	18.00-25-44PR / 18.00-25-40PR	18.00-25-40PR
The hydraulic system	remark	---	---	EP (Self-control) / PARKER (Imported)	EP (Self-control) / PARKER (Imported)
	remark	---	---	45TDedicated energysaving type	45Tstandard