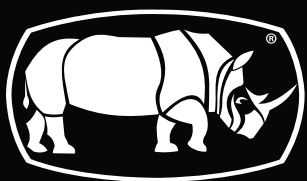




RRS4500



RHINO

REACH STACKERS

www.rhinoeq.com

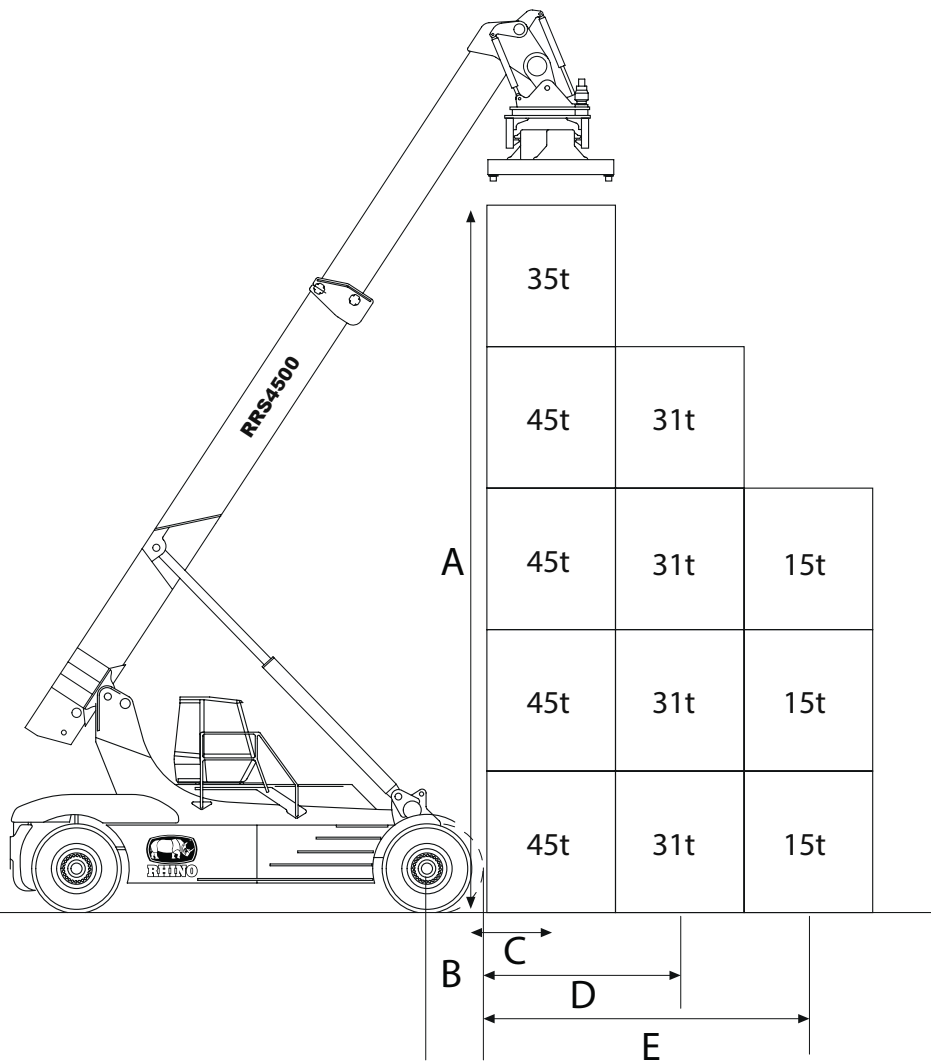


In harbor terminals, rail terminals, container depots and other logistical systems: Rhino reach stackers stand for excellent performance and reliability, combined with innovative design, in the handling of empty or full containers – even in demanding intermodal handling systems.

Our reach stackers can be equipped with a wide variety of load lifting attachments and can also be used for the flexible handling of general cargo.

- **Excellent cargo handling rates thanks to high-performance and high lifting capacities, traveling and lifting/lowering speeds**
- **Easy handling and good maneuverability**
- **Very easy operation thanks to ergonomic design, innovative control systems and good operator visibility**
- **Long service life and reliability due to robust design and prime components**
- **Cost-effective operation due to modern, environmentally friendly drive technology and low maintenance expenses**

PERFORMANCE

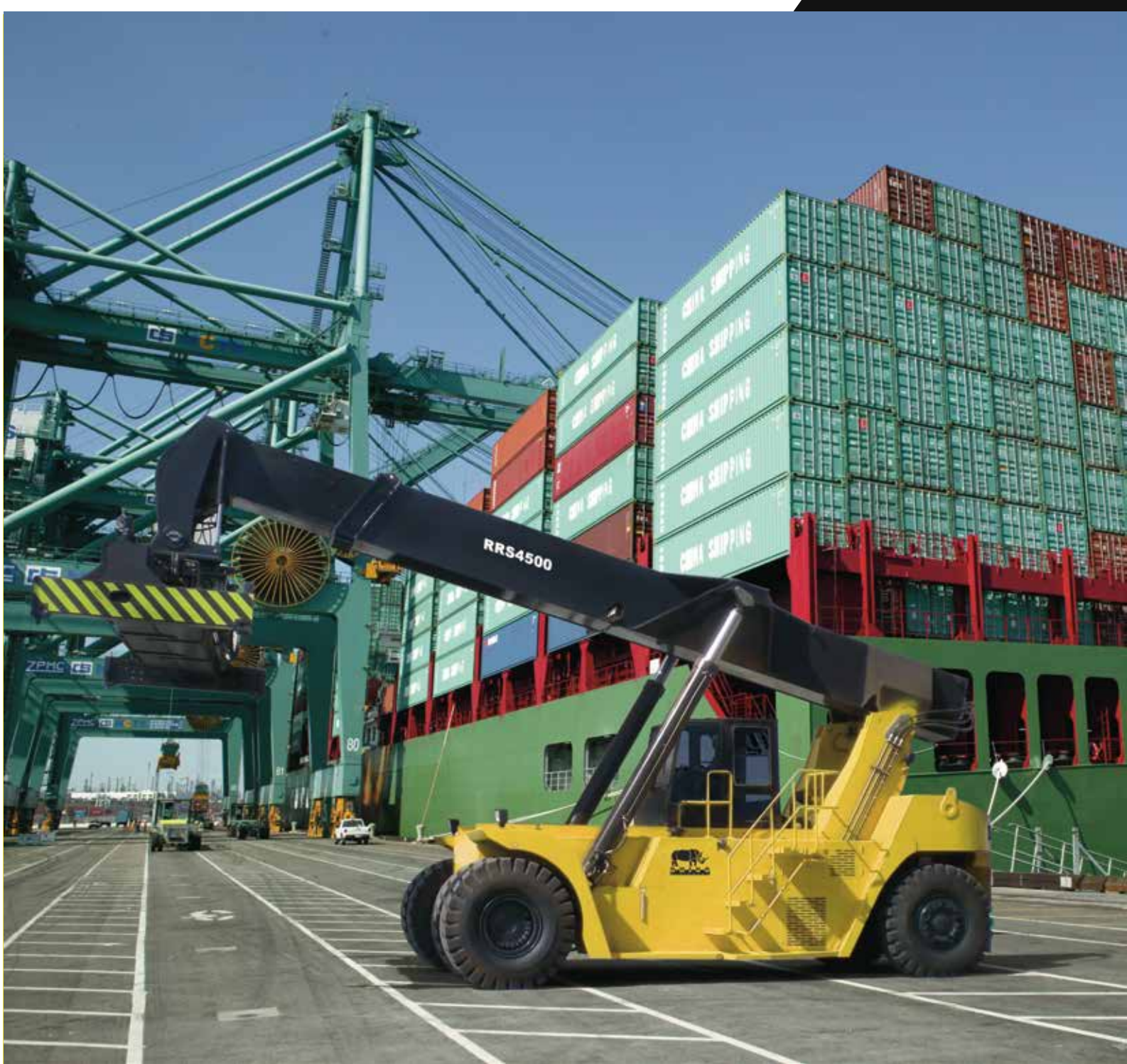


- A. 15,000 mm 590 in
- B. 830 mm 32.6 in
- C. 1,900 mm 74.8 in
- D. 3,850 mm 151.5 in
- E. 6,350 mm 250 in



PRODUCTIVITY

CAPACITY	Rated Capacity		Kg (lb)	45,000 (99,208)
	Load Centre		mm (in)	1,900 (75)
	Max. Height for Stacking		mm (in)	15,000 (591)
	Distance	5th Floor	mm (in) / Kg (lb)	1,900 (75) / 40,000 (88,185)
		4th Floor	mm (in) / Kg (lb)	1,900 (75) / 45,000 (99,208)
		4th Floor	mm (in) / Kg (lb)	3,850 (152) / 31,000 (68,343)
3th Floor		mm (in) / Kg (lb)	6,350 (250) / 15,000 (33,069)	

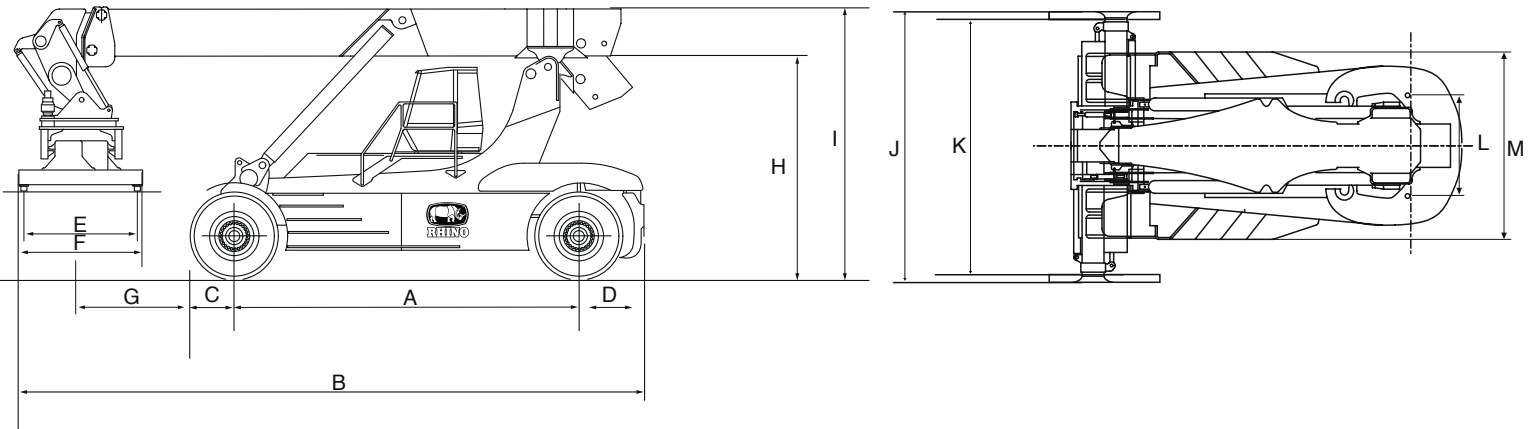


- The robust and compact design of Rhino reach stackers provides powerful container handling as well as excellent maneuverability between container stacks.
- All Rhino reach stackers feature excellent capabilities for intermodal handling in either coach or truck operation.
- Rhino reach stackers offer excellent value with its modern drive train, which includes engines with low fuel consumption and low exhaust emissions combined with powerful hydraulics and first-class axle components.
- Rhino reach stackers offer high handling performance and reduced operating costs thanks to modern design and components.
- The compact design of Rhino reach stackers allows for flexible and powerful handling combined with excellent maneuverability between container stacks.

SPECIFICATIONS

PERFORMANCE	Max. Lift Height	mm (in)	15,100 (594)	
	Min. Ground Clearance	mm (in)	400 (16)	
	Min. Turning Radius	mm (in)	8,200 (323)	
	Lifting Speed (unload/loaded)	mm/s (in/s)	104/60 (4/2)	
	Lowering Speed (unload/loaded)	mm/s (in/s)	300/250 (12/10)	
	Travelig Speed (Unload) F/R	1- Speed	km/h (mph)	3.5 (2.2)
		2- Speed	km/h (mph)	8.5 (5.3)
		3- Speed	km/h (mph)	15 (9.3)
		4- Speed	km/h (mph)	25 (15.5)
	Max. Gradiend (unload/loaded)	%	30 / 15	
	Brake Distance	Unload 20Km/h	m (ft)	7 (23.0)
		Load 10 Km/h	m (ft)	3.5 (11.5)
	Boom	Max.Angle	Deg	60
		Max.Spread	mm (in)	6,800 (267.7)
	Service Weight	Kg (lb)	73,000 (160,937)	
	Tire Model	Front		Pneumatic 18.00-25-40PR
Rear			Pneumatic 18.00-25-40PR	
Tire Air Pressure	Front	Mpa (psi)	0.9 (130.5)	
	Rear	Mpa (psi)	0.9 (130.5)	
ENGINE	Type		QSM11T3 C335	
	Manufacturer		Cummins	
	Displacement	cc (cu.in)	10,800 (659.1)	
	Rated Output	Kw/rpm (hp)	250/2,100 (335)	
	Max. Torque	N/rpm (lbf)	1,674/1,400 (376)	
	Service Weight	Kg (lb)	981 (2,163)	
	Cylinder Diameter	mm (in)	120 (4.7)	
	Stroke distance	mm (in)	147 (5.8)	
TRANSMISSION	Type		14.7HR36432	
	Manufacturer		Dana	
	Shift Type		APC122 Auto Shift	
	Gear Shift		F4 / R4	
	Speed Ratio (F/R)	1 Class		5.814/5.814
		2 Class		2.422/2.422
3 Class			1.379/1.379	
4 Class			0.784/0.784	
STEERING SPREADER	Model		817	
	Manufacturer		ELME	
	Max.Capacity	Kg (lb)	45,000 (99,208)	
	Rotation		95 / 185	
STEERING	Type		Inner Turning Angle (each side)	
	Transward Cylinder		70	
	Steering Cylinder	mm (in)	180x110x551 (7.1x4.3x21.7)	
HYDRAULIC SYSTEM	Pump		SWEDEN (PARKER) PAVC100B38R2A22	
	Initial valve		(PARKER)X104920 SWEDEN	
	Main Steering Valve		(PARKER)M400LS-012	
	Balance Valve Set		(PARKER)91217414	
	Steering Device		(PARKER)HGB32128	
DRIVING AXLE	Manufacturer		KESSLER+CO	
	Model		D102PL341/528-NLB88460	
	Speed Ratio		TOTAL 26.35	
	Parking brake		FORCIPATED BRAKE	
	Service Brake		OIL-COOLED MULTI-DIS BRAKE	

DIMENSIONS



A. 6,000 mm 236 in	H. 3,730 mm 146.8 in
B. 11,373 mm 447 in	I. 4,650 mm 183 in
C. 830 mm 32.6 in	J. 6,042 - 12,175 mm 237 - 479 in
D. 1,200 mm 47.2 in	K. 5,852 - 11,985 mm 230 - 472 in
E. 2,258 mm 88.8 in	L. 2,750 mm 108 in
F. 2,420 mm 95.2 in	M. 3,260 mm 128.3 in
G. 2,133 mm 83.9 in	

OPTIONS

The basic model of the Rhino Reach Stacker is generously equipped with dozens of new features. In addition to a number of customisable cabin features, Tier 2, Tier 3, Tier 4 engines, you can also adapt your Rhino reach stacker with an endless array of options and attachments for different segment applications.

Rhino Equipment offers the widest range of cargo handling solutions and services to ports, terminals, distribution centres and to heavy industry. Rhino Equipment is the industry forerunner in terminal automation and in energy efficient container handling, with one in four container movements around the globe being handled by a Rhino solution. Through its extensive product portfolio, global service network and ability to enable a seamless integration of different terminal processes, Rhino Equipment improves

More options available for client demand

PARTS & SERVICE

Whether it's sub-zero temperatures or monsoon rains, the cargo handling business is anything but predictable. More than just having the right equipment, it's about always being prepared. For the development of the Rhino Reach Stackers, this meant a close collaboration between factories, service technicians, support personnel and aftermarket staff – right from the start. The same is true for all Rhino machines. It's what makes us fully prepared to provide rapid support for the entire life cycle of your machine, before it leaves the factory floor.

Whether you're striving to save on fuel or meet tough emissions standards, the objectives are the same: to consistently reduce waste and increase operational efficiency. Thanks to a range of smart functions and driver training programmes, operators get all the assistance they need to minimise fuel costs whilst meeting even the strictest environmental regulations.



With Rhino, you have the industry's most extensive support and after-sales network always at your disposal. This helps to ensure swift response for everything from spare parts and product support teams down to individual, local service technicians. After all, what good is even the best equipment on the market if it's left standing still?

