



**SANY**  
**AMERICA**

# Empty Container Handler



- 20' – 40' International Standard Containers
- 19,850 lbs Max Load
- 70' 2" Max Hoisting Height

Product Guide



# GLOBAL LIFT FOR NORTH AMERICA

The Empty-Container Handler is a workhorse in the container yard. Constantly moving, maneuvering, lifting and setting. Productivity is the key to profitability, and machine uptime is the key to productivity.

SANY Empty-Container Handlers are engineered for grueling long shifts in all weather conditions. With expansive visibility and many cab comfort features, SANY Empty-Container handlers are as easy on the operator as they are tough on the workload.

Powered by high-torque Cummins diesel engines and built on Kessler drive axles, SANY Empty-Container Handlers deliver the power, smooth operation and durability that operators expect.



The load-sensing hydraulic system calculates the exact power needed for quick, smooth operation. SANY's fast-activating locking mechanism and torsion-resistant frame help the machine efficiently lift and stack 20- to 40-foot containers with precision.

Anti-jamming features and a rollover protection system boost operator confidence. The operator cab is a blend of comfort and control, with the high-resolution monitor and all machine functions within easy reach. Superior visibility and low in-cab noise complete the first-class operator experience.

For the most demanding workloads, trust SANY Empty-Container Handlers to get the job done.



### Engine

Cummins Model QSB 6.7, Tier 3  
Power.....220 hp (164 kW) / 2300 rpm

Turbocharged Cummins diesel engines provide clean and efficient power to all SANY Empty-Container Handlers. Standard features include electronic monitoring of diagnostic and maintenance systems, fuel and water separation and protection systems for the engine and transmission.



### Fixed-Shaft Power Shift Transmission

Equipped with modulated dual-mode transmissions, SANY Empty-Container Handlers can operate in automatic or manual shifting mode. A de-clutching feature disengages the transmission when parked. An engine mounted torque converter and electronically controlled hydraulics make driving smooth and easy.



### Axle

All models feature heavy-load Kessler drive axles for longevity and durability. Numerous air-sealed wet brakes prevent contamination and reduce wear. The parking brake utilizes a drive shaft-mounted disc brake.



## Introduction

The SANY Empty-Container Handler incorporates innovative solutions, such as load-sensing hydraulics, fuel-efficient engines and an ergonomic cab designed to maximize operator comfort.

## Maximum Versatility

SANY's fast-activating locking mechanism and torsion-resistant frame help the truck stack 20- to 40-foot containers with optimum precision. Designed for high efficiency, the SANY Empty-Container Handler has a capacity of 10 U.S. tons and features single- and double-stacking capabilities. When equipped for single-stacking, the machine can place up to 8 containers high, while double-stacking permits hoisting two containers together.

## Maximum Strength in Perfect Balance

SANY Empty-Container Handlers are built on a unique, heavy-duty chassis and engineered with industry-leading components. A Cummins diesel engine delivers high torque, and load-sensing hydraulics harness this power for increased efficiency and performance.

## Power-on-Demand Reduces Wear, Fuel Consumption and Environmental Impact

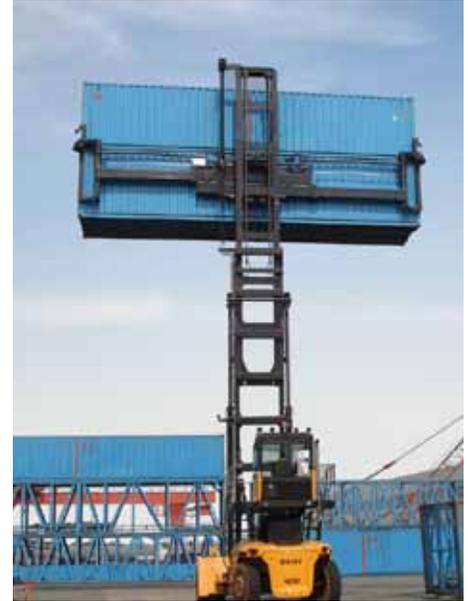
SANY's load-sensing hydraulic system automatically detects load weight and calculates the power necessary for quick and smooth operation. This allows the machine to deliver exactly the right amount of power for every lift, while saving fuel and reducing emissions and noise. This also extends the machine life cycle by prolonging the service intervals for the engine, transmission and hydraulic component system.

## Anti-Jamming Alarm Technology

An alarm system located on the mast protects the lifting chain from jamming.

## Rollover Protection System

In the event of a hazardous working condition, the rollover protection system will activate audible and visual alarms and decelerate the machine.



## Intelligent System

### Proprietary Technology Increases Reliability, Eases Troubleshooting and Improves Stability and Handling

While many models currently on the market use vulnerable electronics – controls with numerous different relays, contact points and extensive cabling – SANY's Empty-Container Handler integrates all systems with CAN-Bus technology.

### Leading the Technology Standards

CAN-Bus systems utilize looped communication networks to connect distant modules. In many ways, this standard is comparable to the “plug and play” technology popular in consumer electronics.

SANY's Empty-Container Handler incorporates redundant CAN-Bus technology to transfer data between the Engine, transmission, pump valves and other vital components. The result is a highly efficient and reliable architecture that keeps the machine operational during non-critical alerts.



### Faster, More Precise Information

The SANY Empty-Container Handler's onboard computer monitors nearly 800 measuring points 50 times per second. Should a fault arise, the high-definition display informs the operator and offers a diagnostic solution.

This system allows technicians to quickly troubleshoot the machine. For example, if the engine temperature rises too high, an alert will display with instructions to add coolant or temporarily shut down the engine.

### Greater Precision in Diagnostics

While most computer systems only indicate which part of the truck has a problem, the SANY Empty-Container Handler reveals specific faulty components on the driver's HD monitor. To minimize the risk of error, settings can be calibrated and adjusted within predetermined limits.



## Performance Begins Here

### Intuitive Operation

The ergonomic layout of the SANY Empty-Container Handler's cab places controls intuitively around the operator. Should the operator require additional equipment, the spacious console can accommodate a wide range of aftermarket electronics.

### Standard for SANY, Options for Others

Long operating sessions require outstanding climate management. A standard feature on all SANY Empty-Container Handlers, the Electronic Climate Control (ECC) system circulates filtered air at a temperature preset by the operator.

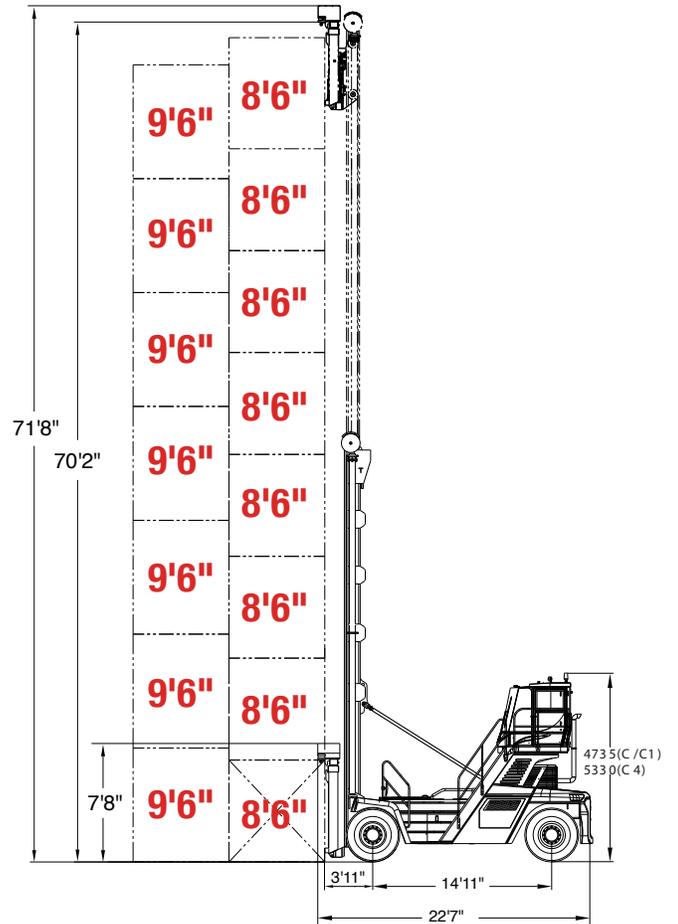
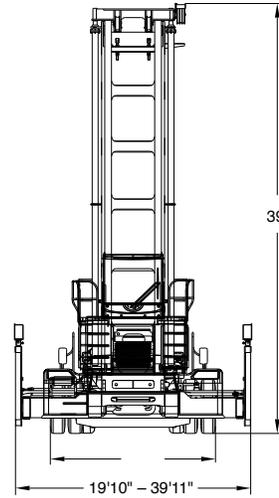
### The Premium of Comfort

Operator productivity correlates directly with operator comfort. Few things are as important as an ergonomic and intuitive layout. All SANY Empty-Container Handlers feature open floor spaces, superb visibility and maximum adjustability. Electronic controls also reduce driver fatigue.

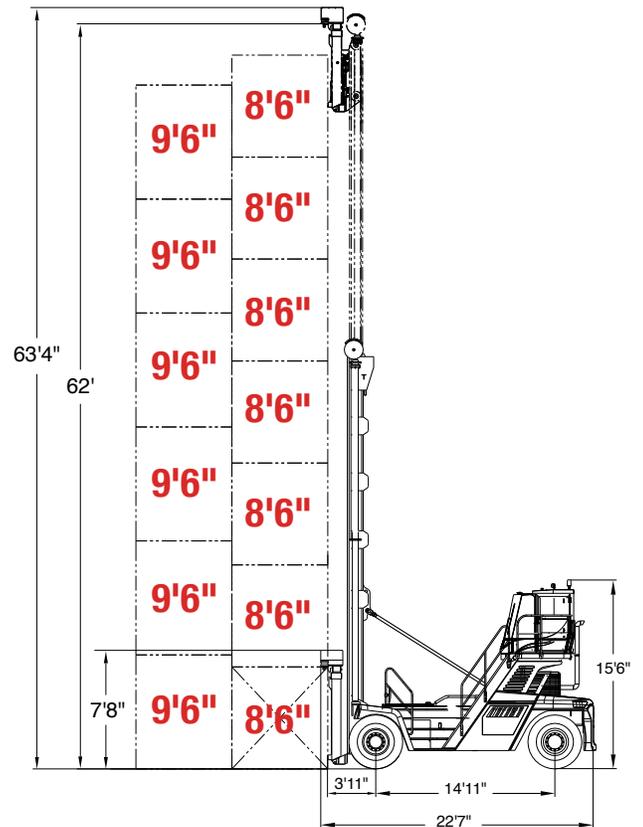
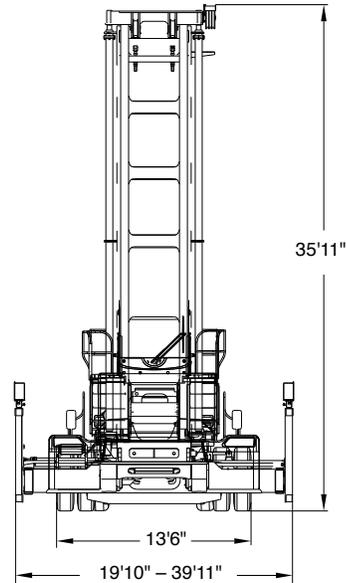


		Unit	SDCY90K8C2	SDCY90K7C2	SDCY90K6C2
Load	Rated Load	lbs	19,850	19,850	19,850
	Max Layer	Layer	8 (8' 6")	7 (8' 6")	6 (8' 6")
	Center Of Load	Inches	47		
Engine	Model	–	CUMMINS QSB6.7 (Tier 3)		
	Rated Power/ Rotational Speed	hp/rpm	220/2300	220/2300	220/2300
	Max. Torque/ Rotational Speed	Nm/rpm	949/1500	949/1500	949/1500
	Exhaust Emission Standard	–	Tier 3		
	Transmission	–	Clark 13.7 HR32334		
	Drive Axle	–	Kessler D81 PL488		
Spreader	Model	–	SDJ90 II or ELME588		
	Sideways Distance	Inches	24	24	24
Mast	Max Load	lbs	19,850	19,850	19,850
	Max Lifting Height	Inches	843	744	638
	Rake Angle (F / R)	°	2/4	2/4	2/4
Max. Lifting Speed		in/sec.	24/23	24/23	24/23
Max. Falling Speed		in/sec.	23/24	23/24	23/24
Max. Travel Speed		mph	18/16	18/16	18/16
Min. Steering Radius		Inches	236	236	236
Axle Base		Inches	180	180	180
Weight		lbs	83,775	79,366	74,957

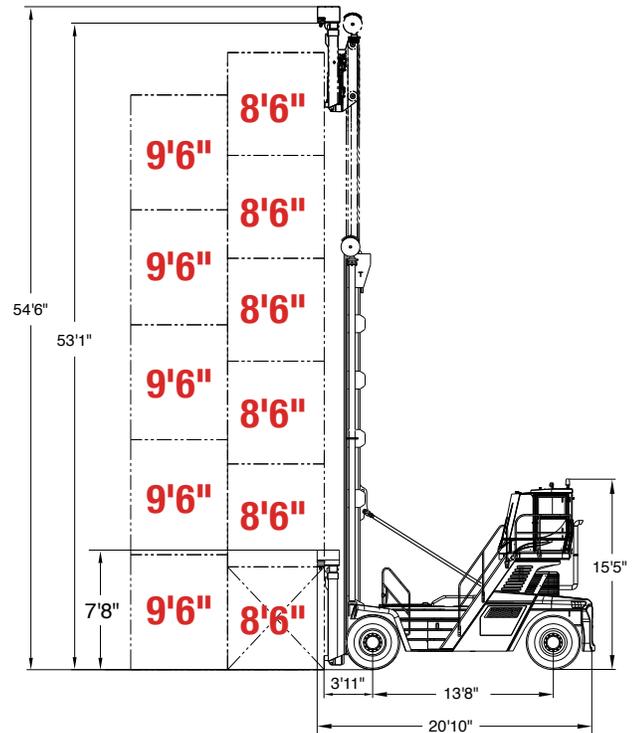
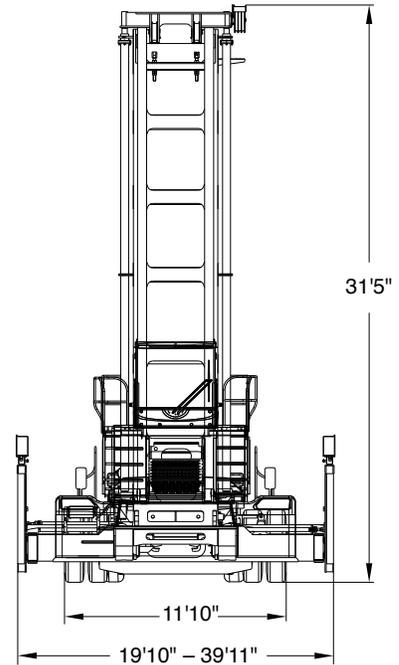
		Unit	SDCY90K8C2
Load	Rated Load	lbs	19,850
	Max Layer	Layer	8 (8' 6")
	Center Of Load	Inches	47
Engine	Model	-	CUMMINS QSB6.7 Tier 3
	Rated Power/ Rotational Speed	hp/rpm	220/2300
	Max. Torque/ Rotational Speed	Nm/rpm	949/1500
	Exhaust Emission Standard	-	Tier 3
Transmission		-	Clark 13.7 HR32334
Drive Axle		-	Kessler D81 PL488
Spreader	Model	-	SDJ90 II or ELME588
	Sideways Distance	Inches	24
Mast	Max Load	lbs	19,850
	Max Lifting Height	Inches	843
	Rake Angle (F / R)	°	2/4
Max. Lifting Speed		in/sec.	24/23
Max. Falling Speed		in/sec.	23/24
Max. Travel Speed		mph	18/16
Min. Steering Radius		Inches	236
Axle Base		Inches	180
Weight		lbs	83,775



		Unit	SDCY90K7C2
Load	Rated Load	lbs	19,850
	Max Layer	Layer	7 (8' 6")
	Center Of Load	Inches	47
Engine	Model	-	CUMMINS QSB6.7 Tier 3
	Rated Power/ Rotational Speed	hp/rpm	220/2300
	Max. Torque/ Rotational Speed	Nm/rpm	949/1500
	Exhaust Emission Standard	-	Tier 3
	Transmission	-	Clark 13.7 HR32334
	Drive Axle	-	Kessler D81 PL488
Spreader	Model	-	SDJ90 II or ELME588
	Sideways Distance	Inches	24
Mast	Max Load	lbs	19,850
	Max Lifting Height	Inches	744
	Rake Angle (F / R)	°	2/4
Max. Lifting Speed		in/sec.	24/23
Max. Falling Speed		in/sec.	23/24
Max. Travel Speed		mph	18/16
Min. Steering Radius		Inches	236
Axle Base		Inches	180
Weight		lbs	79,366



		Unit	SDCY90K6C2
Load	Rated Load	lbs	19,850
	Max Layer	Layer	6 (8' 6")
	Center Of Load	Inches	47
Engine	Model	-	CUMMINS QSB6.7 Tier 3
	Rated Power/ Rotational Speed	hp/rpm	220/2300
	Max. Torque/ Rotational Speed	Nm/rpm	949/1500
	Exhaust Emission Standard	-	Tier 3
	Transmission	-	Clark 13.7 HR32334
	Drive Axle	-	Kessler D81 PL488
Spreader	Model	-	SDJ90 II or ELME588
	Sideways Distance	Inches	24
Mast	Max Load	lbs	19,850
	Max Lifting Height	Inches	638
	Rake Angle (F / R)	°	2/4
Max. Lifting Speed		in/sec.	24/23
Max. Falling Speed		in/sec.	23/24
Max. Travel Speed		mph	18/16
Min. Steering Radius		Inches	236
Axle Base		Inches	180
Weight		lbs	74,957





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