

REACH STACKER



PT SOLUSI INDO PERDANA
BE PRODUCTIVE, BE SOLUTIVE FOR MATERIAL HANDLING

Head Office :
Ruko Pesona Gintung Residence, Blok AA No. 06, Cempak Putih, Ciputat Timur, Tangerang, 15412

Branch Office :
Jl. Sultan Hasanudin KM.41 No. 2 Blok E24, Tambun, Kec. Tambora Selatan, Kab. Bekasi 17510

Email :
sales@solusiindo.co.id

Hotline Service :
(021) 7438477 / 087720141020

SANY MARINE

CONTENTS

As a key division of SANY International, SANY Marine operates from Zhuhai, Guangdong Province, specializes in MPM (RS, ECH), port crane (RTG, RMG, STS, Jib Crane, MHC and SC), and logistics equipment (material handlers, heavy-duty forklifts, ETT, and TH)

SRSC45E3 (Charge)	▶ 06
SRSC45E3A (battery-swap)	▶ 08
SRSC45E5 (Charge)	▶ 10
SRSC45E6 (Charge)	▶ 12
Electric Products Market Coverage	▶ 14
SRSC45V Series	▶ 16
SRSC45G5	▶ 18
Series Load Diagram	▶ 20
SANY Spreader	▶ 22
Optional Features Catalog	▶ 24
Cab	▶ 25
Cases	▶ 26

- ▶ SANY Marine launched its first reach stacker in 2005, with total sales over 10,000 units.

The machines serve over 70 countries, achieving a 35% global share, with electric models capturing 80%.

The product line includes diesel, electric, range-extended, and battery-swap models.



SRSC45E3

(Charge)



Long Battery Life — 8+ Hours

- Regenerates up to 4 kWh/hour
- Direct-drive motor with optimized power

Dual-Port Fast Charging

- High-power charging
- 80% charge in 1 hour

Efficient Operation

- Multi-motor coordination for smooth control
- Multi-valve spreader system for better fine movement
- Response time < 300ms

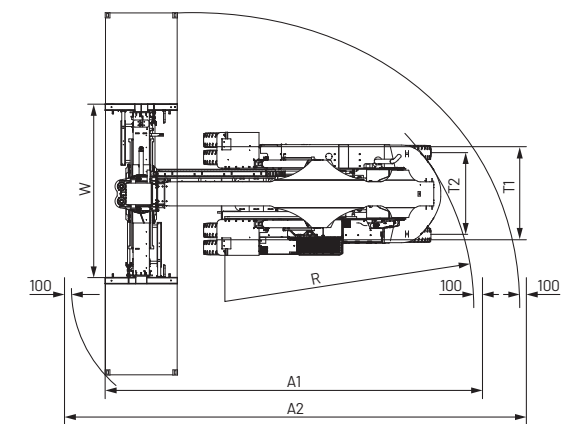
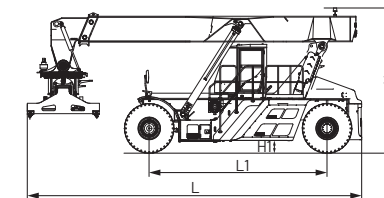
Stable in Extreme Cold

- Battery thermal management system ensures reliable operation at -30°C (Cell heating + external insulation)

Product Parameters

Technical Parameter			Configuration Parameter		
ITEM	UNIT	SRSC45E3	CONFIGURATION	UNIT	SRSC45E3
Max. Lifting Speed (0/full load)	mm/s	420/250	Energy Type	-	Fully Electric
Max. Lowering Speed (0/full load)	mm/s	360/300	Charging Time(20%~80%)	min	100 (507kW.h) 90 (422kW.h)
Max. Traveling Speed (0/full load)	km/h	20/14	Endurance Time	h	8~9 (507kW.h) 6~7(422kW.h)
Gradeability (0/full load)	%	21/14	Quantity Of Electricity	kWh	422/507
Hydraulic System Working Pressure	bar	350			
Overall Weight	t	73	Battery Type	-	LFP
Rated Load	t	45	Traction Battery		
Stack Layer	-	5	Standard Voltage	V	618
Max. Lift Height Standard	mm	15100	Thermal Management	-	Heating: Heating Film Cooling: Water Cooling
Max. Boom Elevation	deg	0-60			
Overall Length (L)	mm	11320	Type	-	PMSM
Wheel Base (L1)	mm	6000	Output Torque (Rated/Peak)	Nm/rpm	2040(rated) 3860(peak)
Overall Height(H)(retract/extend)	mm	4850	Output Power (Rated/Peak)	kW	171(rated) 310(peak)
Min. Ground Clearance (H1)	mm	300~330	Output Rotate Speed (Rated/Peak)	RPM	800(rated) 2800(peak)
Overall Width (W)	mm	6053~12185	Cooling Type	-	Water Cooling
Counterweight Sideways (E)	mm	-			
Front Gauge (T1)	mm	3033	Transmission Type	-	SANY DWF-510/Kessler D102
Rear Gauge (T2)	mm	2790			
Min. Turning Radius (R)	mm	8000			
Aisle Width For 20'container (A1)	mm	11300			
Aisle Width For 40'container (A2)	mm	13600			

Dimensions



SRSC45E3A

(battery-swap)



Flexible Energy Options

- 60min fast charge or 10min battery swap

Smart Cloud Management

- Real-time monitoring
- Quick fault diagnostics
- Automated reports

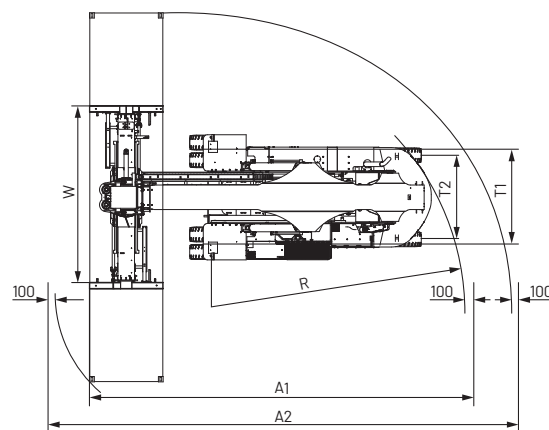
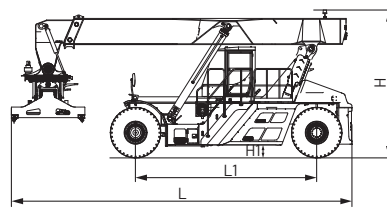
Easy Maintenance

- External battery for easier service
- No engine or transmission, saving up to \$8,000/year

Product Parameters

Technical Parameter			Configuration Parameter		
ITEM	UNIT	SRSC45E3A(Electric)	CONFIGURATION	UNIT	SRSC45E3A
Max. Lifting Speed (0/full load)	mm/s	420/250	Energy Type	-	Electric
Max. Lowering Speed (0/full load)	mm/s	360/300	Swapping Time	min	10
Max. Traveling Speed (0/full load)	km/h	20/14	Endurance Time	h	5
Gradeability (0/full load)	%	21/14	Quantity Of Electricity	kWh	282
Hydraulic System Working Pressure	bar	350	Traction Battery	Battery Type	-
Overall Weight	t	72		Standard Voltage	V
Rated Load	t	45		Thermal Management	-
Stack Layer	-	5	Electric Motor	Type	-
Max. Lift Height Standard	mm	15100		Output Torque (Rated/Peak)	Nm/rpm
Max. Boom Elevation	deg	0-60		Output Power (Rated/peak)	kW
Overall Length (L)	mm	11320		Output Rotate Speed (Rated/peak)	RPM
Wheel Base (L1)	mm	6000		Cooling Type	-
Overall Height (H) (retract/extend)	mm	4850		Transmission Type	-
Min. Ground Clearance (H1)	mm	330			
Overall Width (W)	mm	6053~12185			
Front Gauge (T1)	mm	3033			
Rear Gauge (T2)	mm	2790			
Min. Turning Radius (R)	mm	8000			
Aisle Width For 20'container (A1)	mm	11300			
Aisle Width For 40'container (A2)	mm	13600			

Dimensions



SRSC45E5

(Charge)



High Safety Standards

- CE certified to EU safety requirements
- High-voltage interlock prevents misoperation
- EMC-compliant wiring minimizes interference

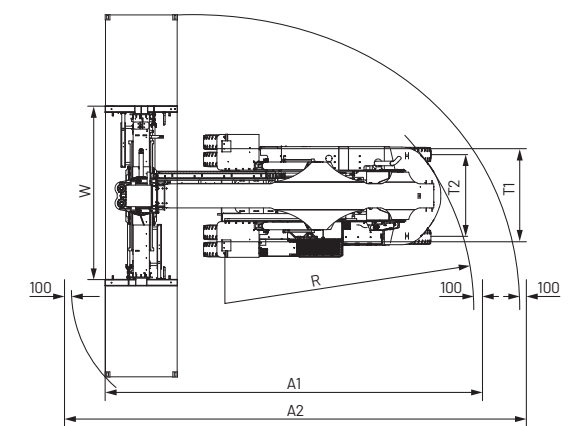
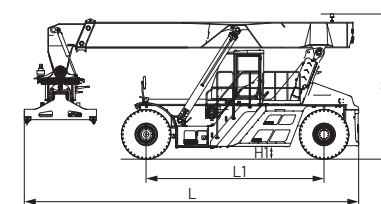
Compatible with Global Charging Standards

- Supports CCS1 / CCS2 / GB-T interfaces

Product Parameters

Technical Parameter			Configuration Parameter		
ITEM	UNIT	SRSC45E5	CONFIGURATION	UNIT	SRSC45E5
Max. Lifting Speed (0/full load)	mm/s	420/250	Energy Type	-	Electric
Max. Lowering Speed (0/full load)	mm/s	360/300	Charging Time(20%~80%)	min	75 (507kW.h) 60 (422kW.h)
Max. Traveling Speed (0/full load)	km/h	20/14	Endurance Time	h	8~9 (507kW.h) 6~7(422kW.h)
Gradeability (0/full load)	%	21/14	Quantity Of Electricity	kWh	422/507
Hydraulic System Working Pressure	bar	350	Traction Battery	Battery Type	-
Overall Weight	t	73		Standard Voltage	V
Rated Load	t	45		Thermal Management	-
Stack Layer	-	5	Electric Motor	Type	-
Max. Lift Height Standard	mm	15100		Output Torque (Rated/Peak)	Nm/rpm
Max. Boom Elevation	deg	0-60		Output Power (Rated/Peak)	kW
Overall Length (L)	mm	11320		Output Rotate Speed (Rated/Peak)	RPM
Wheel Base (L1)	mm	6000		Cooling Type	-
Overall Height(H) (retract/extend)	mm	4850	Transmission Type		
Min. Ground Clearance (H1)	mm	330			
Overall Width (W)	mm	6053~12185			
Counterweight Sideways (E)	mm	-			
Front Gauge (T1)	mm	3033			
Rear Gauge (T2)	mm	2790			
Min. Turning Radius (R)	mm	8000			
Aisle Width For 20'container (A1)	mm	11300			
Aisle Width For 40'container (A2)	mm	13600			

Dimensions



SRSC45E6

(Charge)



Lower Energy Use

- Low-pressure-loss hydraulics cut losses by 60%
- Energy recovery lowers total consumption by 30%

Improved Visibility

- Dual full-coverage wipers improve visibility by 15%

Enhanced Structural Stability

- U-type boom improves durability
- Counterweight moved back 1m for better balance
- 67T weight reduces driving energy use by 16%

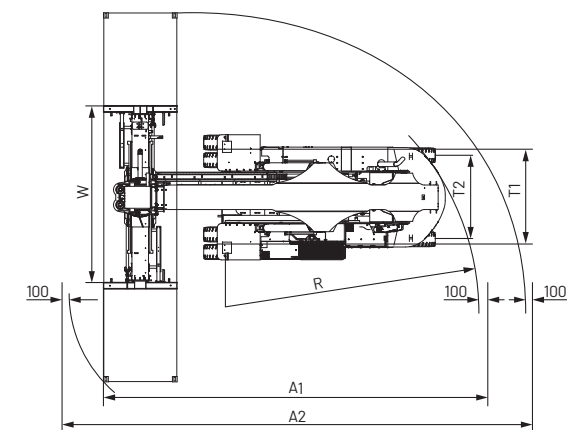
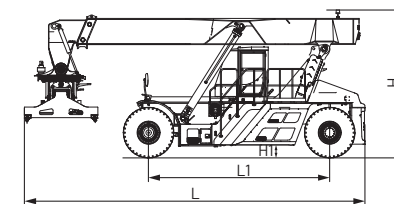
Smart and Comfortable Cabin

- Multifunction joystick and suspension seat
- Dual-mode AC
- Laminated curved glass keeps noise < 70dB

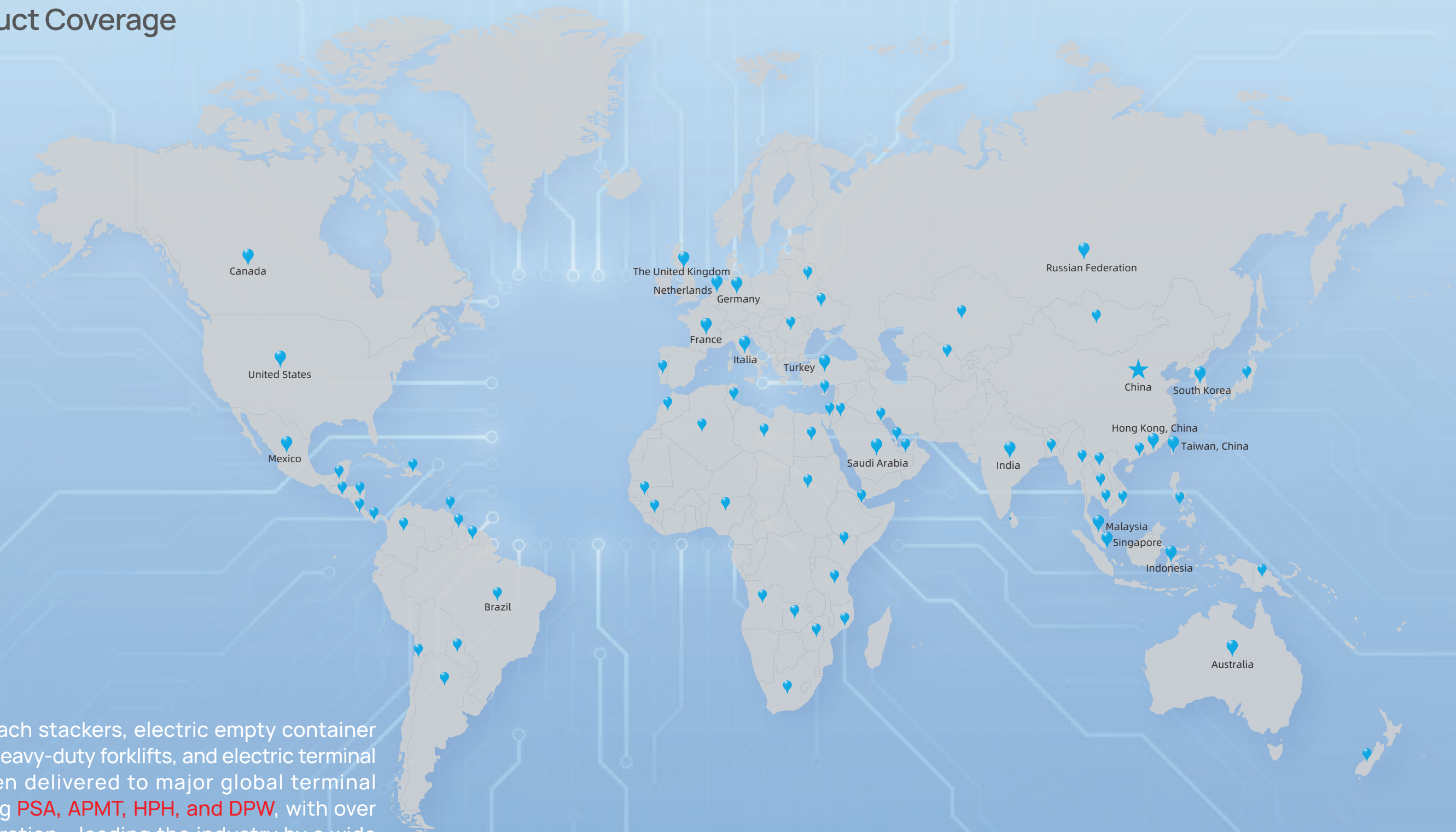
Product Parameters

Technical Parameter			Configuration Parameter			
ITEM	UNIT	SRSC45E6	CONFIGURATION	UNIT	SRSC45E6	
Weight	t	67	Energy Type	-	Electric	
Dimensions (L × W × H)	mm	11288×6053×4965	Charging Time(20%~80%)	min	100(507kW.h) 90 (422kW.h)	
Rated Lifting Capacity	t	45	Endurance Time		9~10 (507kW.h) 7~8 (422kW.h)	
Max Lifting Height / Stacking Layers	mm	15100/5th floor	Battery Capacity (Kwh)	kWh	422/507	
Max Boom Angle	deg	60	Power Battery	Battery Type	-	LFP
Max Lifting Speed (unloaded/loading)	mm/s	420/250		Nominal Voltage	V	618
Max Lowering Speed (unloaded/loading)	mm/s	360/300		Thermal Management	-	Heating: Heating Film Cooling: Liquid Cooling
Climbing Ability (unloaded/loading)	-	21/14	Electric Motor	Type	-	PMSM
Hydraulic System Operating Pressure	bar	380		Output Torque (Rated/peak)	Nm/rpm	1500(Rated) 4200(peak)
Max Travel Speed	km/h	20		Output Power (Rated/peak)	kW	157(Rated) 310(peak)
Minimum Ground Clearance	mm	300~330		Output Rotate Speed (Rated/peak)	RPM	1000(Rated) 2800(peak)
Counterweight Reversal Angle	deg	42		Cooling Type	-	Water Cooling
Minimum Turningmm Radius	mm	8000				
20' Container Passage Width (A1)	mm	11300				
40' Container Passage Width (A2)	mm	13600				

Dimensions



► Electric Product Coverage



- SANY's electric reach stackers, electric empty container handlers, electric heavy-duty forklifts, and electric terminal tractors have been delivered to major global terminal operators including **PSA, APMT, HPH, and DPW**, with over **2,500** units in operation—leading the industry by a wide margin.

SRSC45V Series



Fuel and Maintenance Savings

- 15% lower fuel use
- Long-life filters reduce costs

Smooth Control

- Multi-valve spreader system
- Fast response < 300ms

Proven Durability

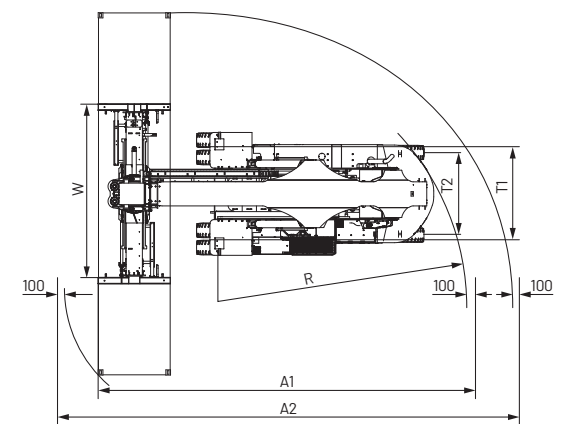
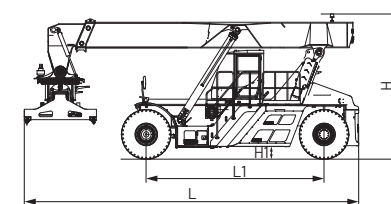
- Structure tested for 30,000 hours fatigue life

Product Parameters

Technical Parameter		
ITEM	UNIT	SRSC45V series
Max. Lifting Speed (0/full load)	mm/s	420/250
Max. Lowering Speed (0/full load)	mm/s	360/300
Max. Traveling Speed (0/full load)	km/h	25/21
Gradeability (0/full load)	%	39/32
Hydraulic System Working Pressure	bar	260
Overall Weight	t	71
Rated Load	t	45
Stack Layer	—	5
Max. Lift Height Standard	mm	15100
Max. Boom Elevation	deg	0-60
Overall Length (L)	mm	11320
Wheel Base (L1)	mm	6000
Overall Height(H) (retract/extend)	mm	4770
Min. Ground Clearance (H1)	mm	300~330
Overall Width (W)	mm	6053~12185
Counterweight Sideways (E)	mm	-
Front Gauge (T1)	mm	3033
Rear Gauge (T2)	mm	2790
Min. Turning Radius	mm	8000
Aisle Width For 20'container	mm	11300
Aisle Width For 40'container	mm	13600

Configuration Parameter				
CONFIGURATION			UNIT	SRSC45V series
Engine	V	Type	-	TAD1151VE
		Rated Capacity	kW/rpm	265/2100
		Max Torque	Nm/rpm	1780/1400
		Emission Standard	-	Stage III
	V2	Type	-	X12
		Rated Capacity	kW/rpm	277/2100
		Max Torque	Nm/rpm	1898/1200~1600
		Emission Standard	-	Stage III
	V3	Type	-	D12S3-381E1
		Rated Capacity	kW/rpm	280/1900
		Max Torque	Nm/rpm	1850/1400
		Emission Standard	-	Stage III
	V4	Type	-	Cummins QSL9T4F
		Ratedcapacity	kW/rpm	272/2100
		Maxtorque	Nm/rpm	1795/1400
		Emission Standard	-	Tire 4F
V5	Type	-	TAD1181VE	
	Rated Capacity	kW/rpm	265/2100	
	Max Torque	Nm/rpm	1795/1400	
	Emission Standard	-	Stage V	
Transmission Type			-	15.5HR36432-36
			-	15.7TE30510-7
Drive Axle Type			-	Kessler D102
			-	XWF-510
Main Valve			-	Hengli
Main Pump			-	Hengli
Spreader	Model		-	SDJ450H-R series
	Lateral Move		mm	±800
	Rotate Angle		deg	105/-195
	Tilt Angle		deg	±5
	Self-Weight		t	7.1
Suitable Fo			-	ISO20'/40'/45' container
Tires			-	18.00-25

Dimensions



SRSC45G5



More Fuel Efficient

- Electronic common-rail system cuts fuel by 3%

Easy Handling

- Proportional control for smooth operation

Certified Safety

- CE approved to EU standards

Better Comfort

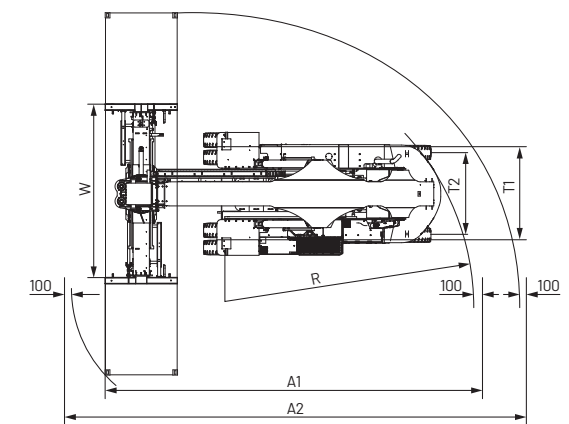
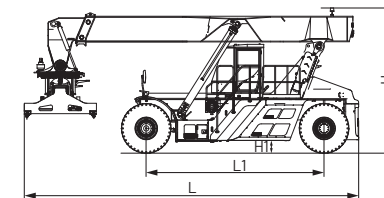
- Air suspension seat reduces vibration

Product Parameters

Technical Parameter		
ITEM	UNIT	SRSC45G5
Max. Lifting Speed (0/full load)	mm/s	460 / 260
Max. Lowering Speed (0/full load)	mm/s	600 / 400
Max. Traveling Speed (0/full load)	km/h	25 / 21
Gradeability (0/full load)	%	46 / 28
Hydraulic System Working Pressure	bar	260
Overall Weight	t	72.5
Rated Load	t	45
Stack Layer	-	5
Max. Lift Height Standard	mm	15100
Max. Boom Elevation	deg	0-60
Overall Length (L)	mm	11320
Wheel Base (L1)	mm	6000
Overall Height(H) (retract/extend)	mm	4770
Min. Ground Clearance (H1)	mm	350
Overall Width (W)	mm	6053~12185
Counterweight Sideways (E)	mm	-
Front Gauge (T1)	mm	3033
Rear Gauge (T2)	mm	2790
Min. Turning Radius (R)	mm	8000
Aisle Width For 20'container (A1)	mm	11300
Aisle Width For 40'container (A2)	mm	13600

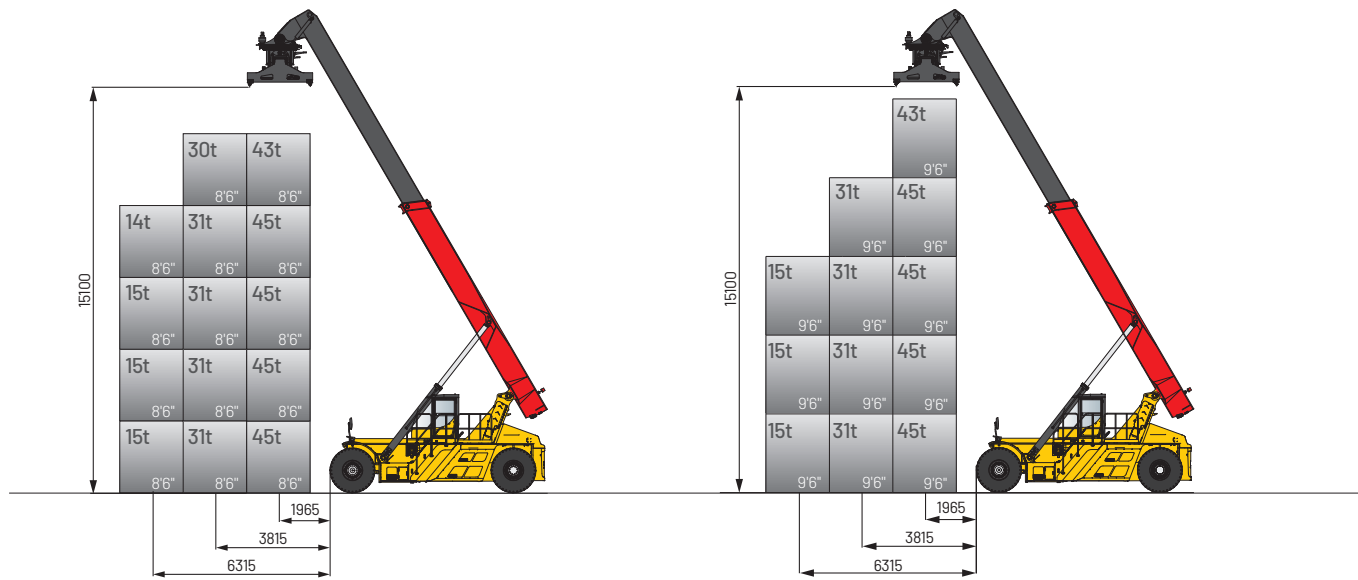
Configuration Parameter		
CONFIGURATION	UNIT	SRSC45G5
Engine	Type	VOILVO TAD1181VE
	Rated Capacity	kW/rpm 265/2100
	Max Torque	Nm/rpm 1795/1400
	Emission Standard	- Stage V
Transmission Type		- 15.5TE30
Drive Axle Type		- Kessler D102
Main Valve		- Parker
Main Pump		- Parker
Spreader	Model	- SDJ450H-R series
	Lateral Move	mm ±800
	Rotate Angle	deg 105/-195
	Tilt Angle	deg ±5
	Self-Weight	t 7.1
Suitable Fo		- ISO20'/40'/45' container
Tires		- 18.00-25

Dimensions

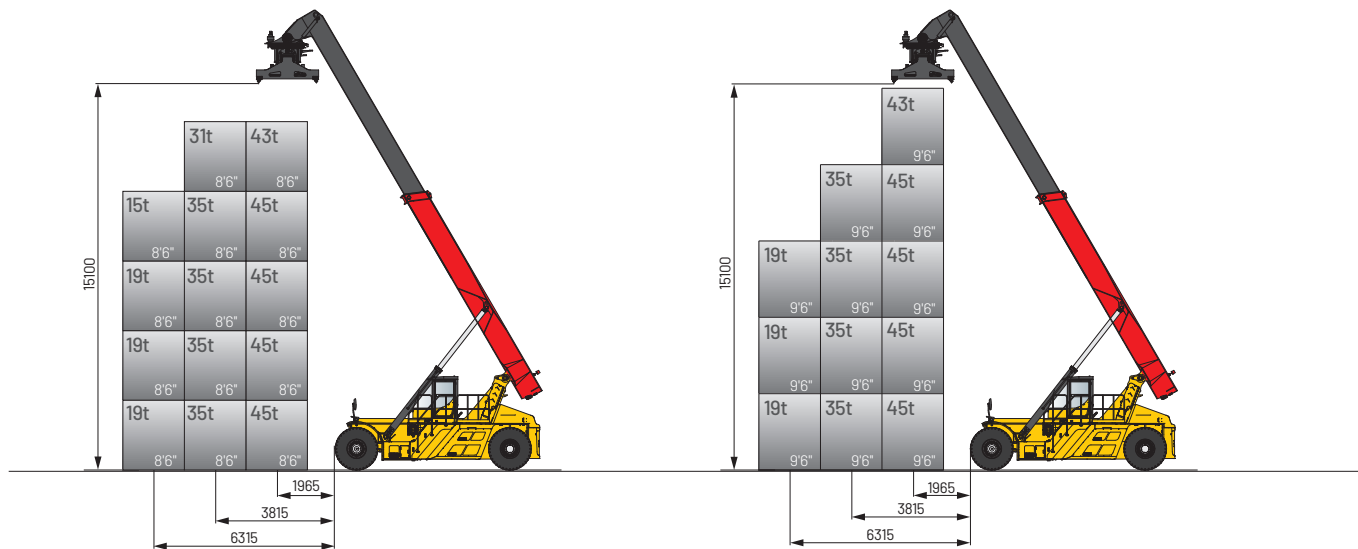


► Series Load Diagram

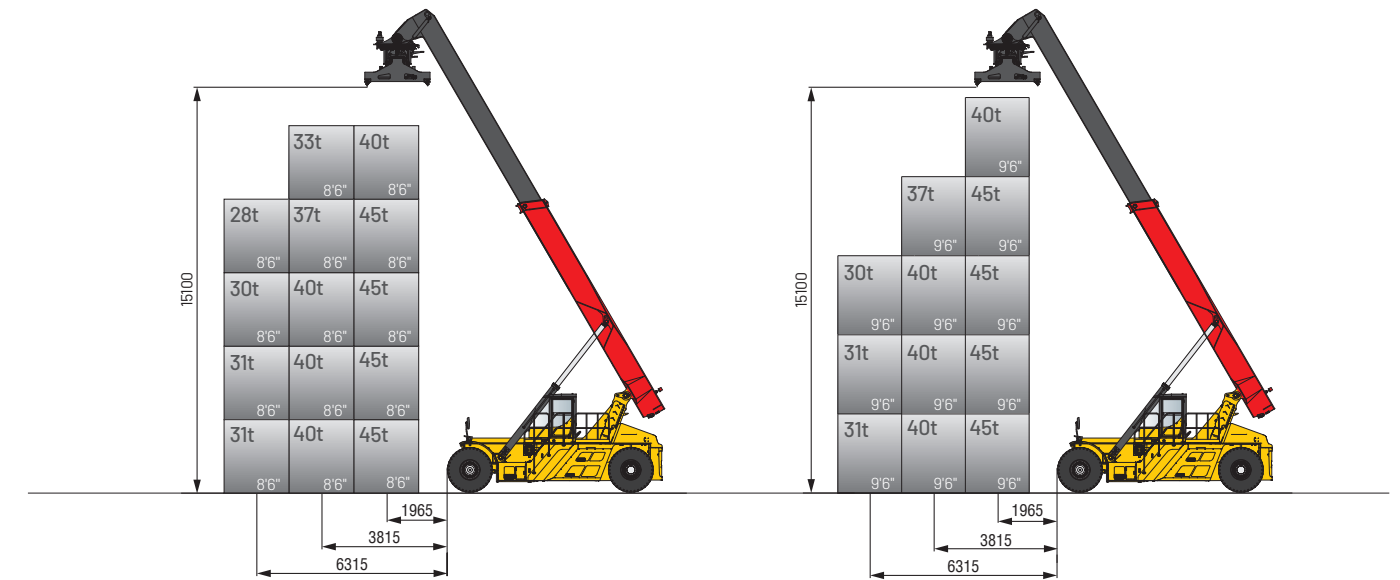
SRSC4531 Series



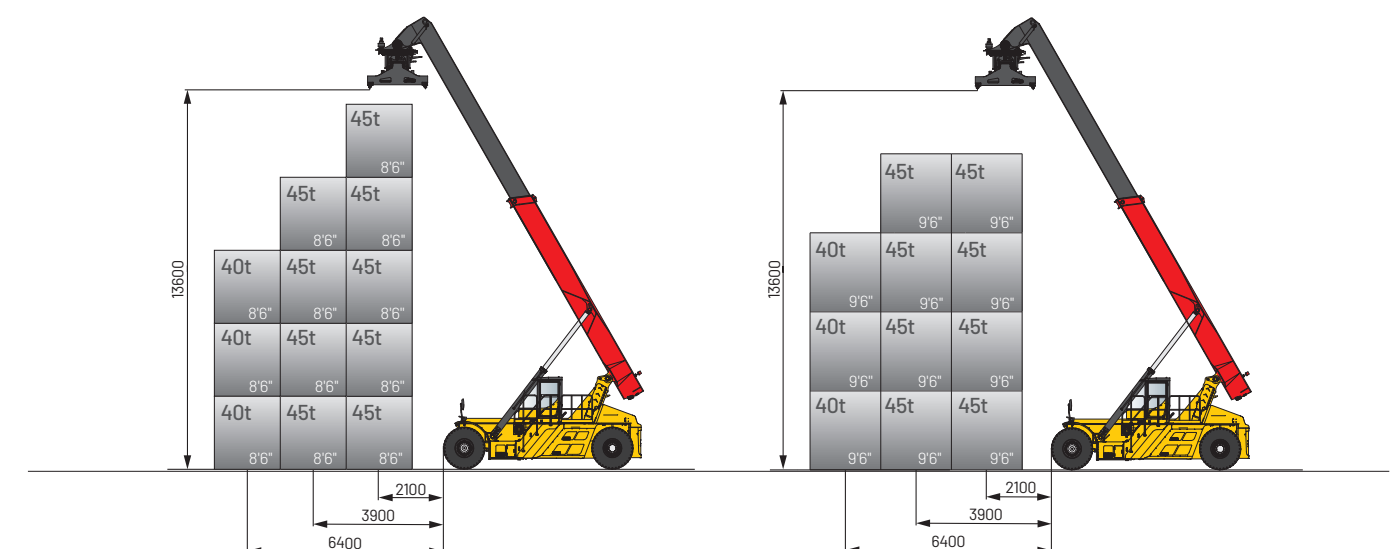
SRSC4535 Series



SRSC4540 Series



SRSC4545 Series



► SANY Spreader

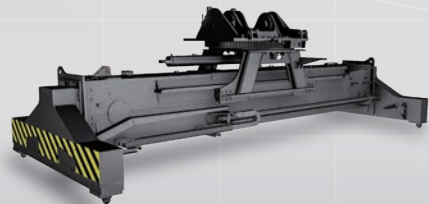
► Spreader for 45t container

Sany 45t container spreader is suitable for stacking and handling ISO standard 20'/40'/45' containers with reach stackers. According to the market demand, Sany Marine developed a variety of container spreaders, with reasonable structure, excellent design, complete safety protection functions, cost-effective, and can fully meet the different needs of customers.

lightweight design

SDJ450H

- Rated Load: 45t
- Suitable For: ISO 20'/40'container



► Ultra-High Reach Spreader

The SANY SDJ450S can lift both standard and high boxes with lowered outriggers, improving operational efficiency.

Flexible and efficient, with quick transitions

SDJ450S

- Rated Load: 45t
- Suitable For: ISO 20'/40'container



► Log Spreader

Sany SWG310 spreader is suitable for the transfer, loading and unloading of logs or special materials. The product perfectly solves the transportation, loading and unloading problems of logs and other special materials, and brings huge profits to customers.

Log spreader

SWG310-R3

- Rated Load: 31t
- Suitable For: log



► Steel Coil Spreader

Sany STP450 spreader is suitable for the transfer, loading and unloading of steel coils, containers and bulk cargo.

Steel coil spreader

STP450

- Rated Load: 45t
- Suitable For: steel coil



► Turnover Spreader (20feet)

Sany SDJ380R turnover spreader is mainly used for 360-degree overturning unloading of 20-foot open top container, which is environmentally friendly and efficient.

360°turn over spreader

SDJ380R

- Rated Load: 38t
- Suitable For: ISO 20'container



► Combined Spreader

Sany SDJ450P spreader can not only complete the transfer and stacking operations of 20'/30'/35'/40'/45'ISO standard containers, but also carry out the transfer operations of EN284 non-stacking containers, so as to achieve the purpose of one machine and meet the needs of European and American joint operation mode.

Multi-condition, combined transport

SDJ450P

- Rated Load: 45t
- Suitable For: ISO 20'/30'/35'/40'container
- EN284non-stacking container



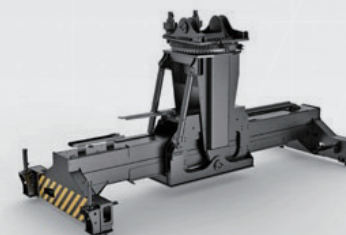
► Tilting Spreader

Sany SDJS320 spreader can perfectly solves the transportation and unloading problems of special materials such as bulk materials, breaks through the bottleneck of bulk container loading process, and greatly improves the operation efficiency and environmental protection.

professional for bulk loading & unloading

SDJS320D

- Rated Load: 35t
- Tilt angle: 0~55°
- Suitable For: ISO 20'container



► Hook Spreader

Sany SDJ700G spreader is suitable for the transfer, loading and unloading of wind turbine tower, which has simple structure and strong bearing capacity.

professional for wind turbine tower loading

SDJ700G

- Rated Load: 70t
- Suitable For: wind turbine tower, bulk cargo



Optional Features Catalog

Category	Optional Function	Description	Recommendation
Safety & Security	360 Panoramic Monitoring System	Three optional packages available: ① 360 panoramic view only. ② 360 panoramic view + pedestrian detection & collision warning. ③ 360 panoramic view + pedestrian detection & collision warning + automatic emergency braking.	★ ★ ★
	Rear Counterweight Warning Beacon	Installed on the rear counterweight.	
	Arctic Pre-heating Kit	Heating for engine, hydraulic oil tank, cab, etc. Designed for operation in regions below -30° C, using an external power source.	★ ★ ★
	Cold Climate Pre-heating Kit	Primarily for domestic cold climate applications. Recommended for operation below -5° C; mandatory for regions below -15° C.	★ ★ ★
	Public Address & Alarm System	Includes a hailer/loudspeaker and an audible warning alarm.	
	U-Shaped Warning Light Bar	A U-shaped beacon with warning lights facing left, right, and rear, indicating a prohibited zone.	
Operational Assistance	Precision Weighing & Off-Center Load Detection System (with Light/Heavy Container Selection & Inching Lift Function)	For Sany spreaders. Provides weighing, off-center load detection, and printout capabilities.	★ ★ ★
	Container Weighing Voice Announcement	Real-time audible broadcast of container weight during hoisting operations.	
	Container Number Identification System	Automatically identifies container numbers, open wagon numbers, and flatcar numbers (optional). Customizable data interfaces available for real-time transmission.	
	Spreader & Counterweight Camera System	Includes 4 cameras mounted on the spreader (for H-type spreaders).	
	Tire Pressure Monitoring System (TPMS)	Monitors the tire pressure of the reach stacker.	
Additional Equipment	On-Board Drive Recorder	Mounted inside the cab to monitor operator actions. Includes camera and built-in 64GB storage.	
	Automatic Lubrication System – Spreader	Adds a lubrication pump to enable automatic greasing of key maintenance points on the spreader.	★ ★ ★
	Automatic Lubrication System – Main Chassis	Adds a lubrication pump to enable automatic greasing of key maintenance points on the main chassis.	★ ★ ★
	Cab Passenger Seat	An additional seat installed beside the standard operator seat.	
	Radio System	Optional. Includes radio unit, speakers, and antenna.	
Lighting	Cab Roof Work Lights	One left and one right auxiliary work light mounted on the cab roof.	
	Spreader Four-Point Lighting System	One light mounted at each of the four twistlock positions on the spreader.	

Cab



► Case (Electric)



📍 Jiangsu, China



📍 Hebei, China



📍 Peru

► Cases



📍 APMT



📍 Inner Mongolia



📍 Saudi Arabia



📍 South Korea

Cases



Aircraft Lifting



Sudan



India



China-Laos Railway



UK



Electromagnetic Spreader



Turnover Spreader