

SANY[®]

QUALITY CHANGES THE WORLD



REACH STACKER

SANY MARINE



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)

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► 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

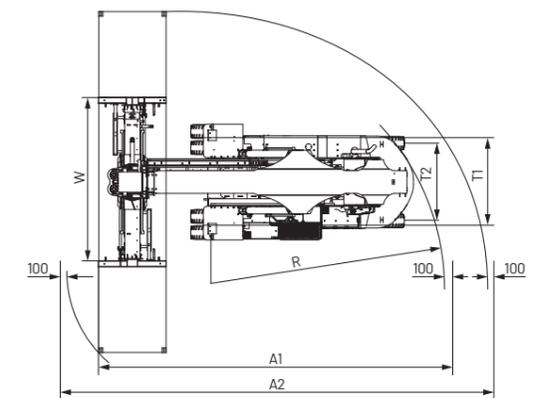
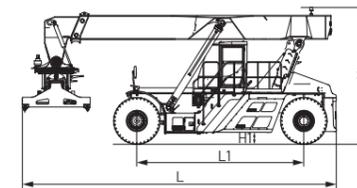
Stable in Extreme Cold

- 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	Battery Type	-	LFP	
Overall Weight	t	73	Traction Battery	Standard Voltage	V	618
Rated Load	t	45	Thermal Management	-	Heating: Heating Film Cooling: Water Cooling	
Stack Layer	-	5	Type	-	PMSM	
Max. Lift Height Standard	mm	15100	Output Torque (Rated/Peak)	Nm/rpm	2040 (rated) 3860 (peak)	
Max. Boom Elevation	deg	0-60	Output Power (Rated/Peak)	kW	171 (rated) 310 (peak)	
Overall Length (L)	mm	11320	Output Rotate Speed (Rated/Peak)	RPM	800 (rated) 2800 (peak)	
Wheel Base (L1)	mm	6000	Cooling Type	-	Water Cooling	
Overall Height(H) (retract/extend)	mm	4850	Transmission Type	-	SANY DWF-510/Kessler D102	
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 (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

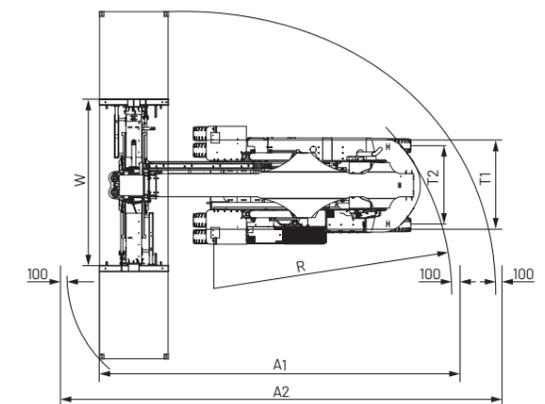
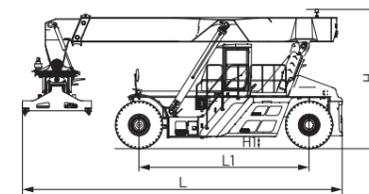
Easy Maintenance

- 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	Battery Type	-	LFP
Overall Weight	t	72	Traction Battery Standard Voltage	V	618
Rated Load	t	45	Thermal Management	-	Heating: Heating Film Cooling: Water Cooling
Stack Layer	-	5	Type	-	PMSM
Max. Lift Height Standard	mm	15100	Output Torque (Rated/Peak)	Nm/rpm	2040(rated) 3860(peak)
Max. Boom Elevation	deg	0-60	Output Power (Rated/peak)	kW	171(Rated) 310(peak)
Overall Length (L)	mm	11320	Output Rotate Speed (Rated/peak)	RPM	800(Rated) 2800(peak)
Wheel Base (L1)	mm	6000	Cooling Type	-	Water Cooling
Overall Height (H) (retract/extend)	mm	4850	Transmission Type	-	Sany Dwf-50/101.287
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

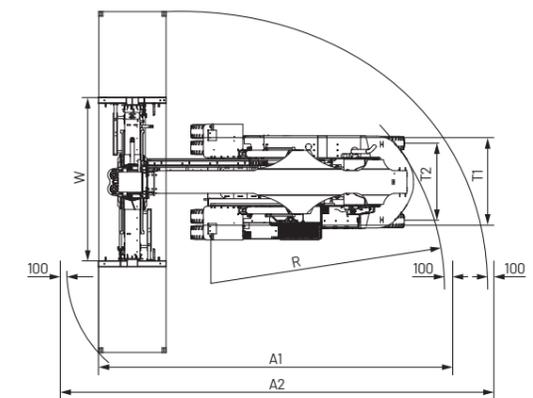
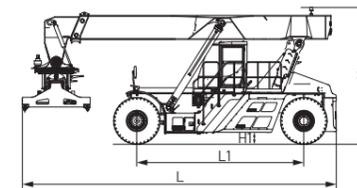
Compatible with Global Charging Standards

- 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	Battery Type	-	LFP	
Overall Weight	t	73	Traction Battery	Standard Voltage	V	618
Rated Load	t	45	Thermal Management	-	Heating: Heating Film Cooling: Water Cooling	
Stack Layer	-	5	Electric Motor	Type	-	PMSM
Max. Lift Height Standard	mm	15100	Output Torque (Rated/Peak)	Nm/rpm	1500(Rated) 4200(peak)	
Max. Boom Elevation	deg	0-60	Output Power (Rated/Peak)	kW	157(Rated) 310(peak)	
Overall Length (L)	mm	11320	Output Rotate Speed (Rated/Peak)	RPM	1000(Rated) 2800(peak)	
Wheel Base (L1)	mm	6000	Cooling Type	-	Water Cooling	
Overall Height(H) (retract/extend)	mm	4850	Transmission Type	-	Kessler D102	
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%

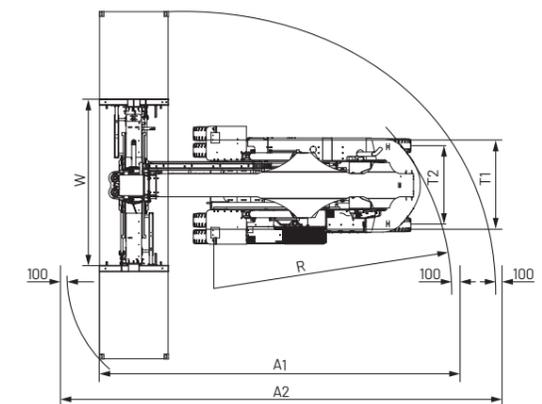
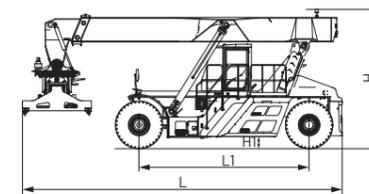
Smart and Comfortable Cabin

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

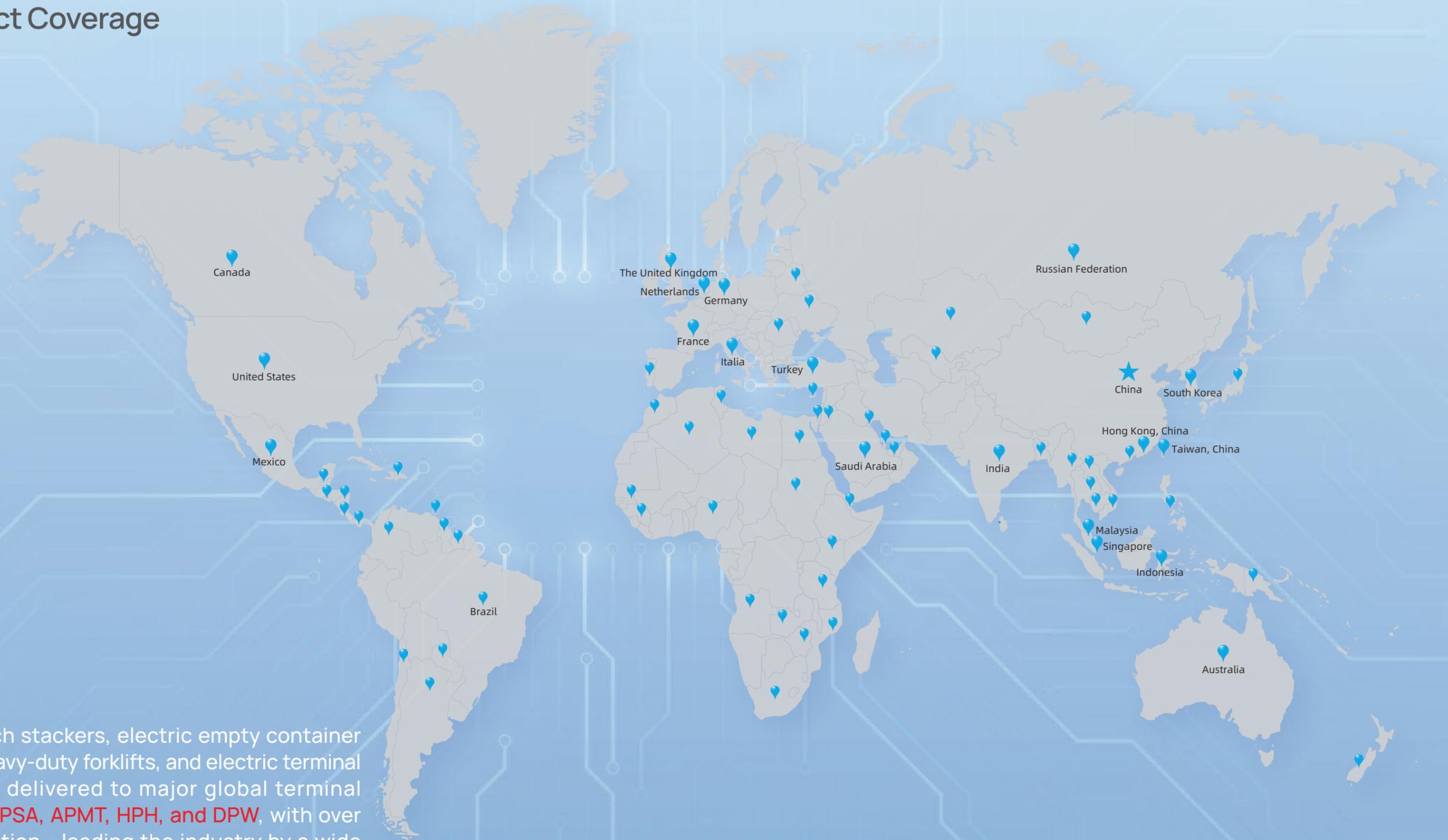
Product Parameters

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	Battery Type	-	LFP	
Max Lifting Speed (unloaded/loading)	mm/s	420/250	Power Battery	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	Type	-	PMSM	
Hydraulic System Operating Pressure	bar	380	Output Torque (Rated/peak)	Nm/rpm	1500(Rated) 4200(peak)	
Max Travel Speed	km/h	20	Electric Motor	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 Turning 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

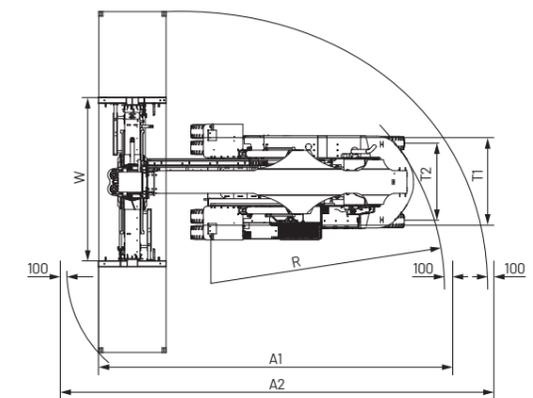
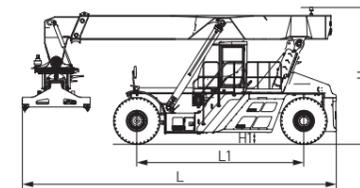
Proven Durability

- Structure tested for 30,000 hours fatigue life

Product Parameters

Technical Parameter			Configuration Parameter				
ITEM	UNIT	SRSC45V series	CONFIGURATION	UNIT	SRSC45V series		
Max. Lifting Speed (0/full load)	mm/s	420/250	Engine	V	Type	-	TAD1151VE
Max. Lowering Speed (0/full load)	mm/s	360/300			Rated Capacity	kW/rpm	265/2100
Max. Traveling Speed (0/full load)	km/h	25/21			Max Torque	Nm/rpm	1780/1400
Gradeability (0/full load)	%	39/32		Emission Standard	-	Stage III	
Hydraulic System Working Pressure	bar	260		V2	Type	-	X12
Overall Weight	t	71			Rated Capacity	kW/rpm	277/2100
Rated Load	t	45			Max Torque	Nm/rpm	1898/1200~1600
Stack Layer	-	5		Emission Standard	-	Stage III	
Max. Lift Height Standard	mm	15100		V3	Type	-	D12S3-381E1
Max. Boom Elevation	deg	0-60			Rated Capacity	kW/rpm	280/1900
Overall Length (L)	mm	11320			Max Torque	Nm/rpm	1850/1400
Wheel Base (L1)	mm	6000		Emission Standard	-	Stage III	
Overall Height(H)(retract/extend)	mm	4770		V4	Type	-	Cummins QSL9T4F
Min. Ground Clearance (H1)	mm	300~330			Rated Capacity	kW/rpm	272/2100
Overall Width (W)	mm	6053~12185			Max Torque	Nm/rpm	1795/1400
Counterweight Sideways (E)	mm	-	Emission Standard	-	Tire 4F		
Front Gauge (T1)	mm	3033	V5	Type	-	TAD1181VE	
Rear Gauge (T2)	mm	2790		Rated Capacity	kW/rpm	265/2100	
Min. Turning Radius	mm	8000		Max Torque	Nm/rpm	1795/1400	
Aisle Width For 20' container	mm	11300	Emission Standard	-	Stage V		
Aisle Width For 40' container	mm	13600	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

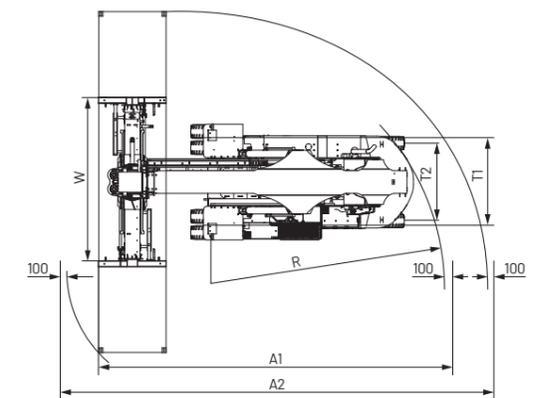
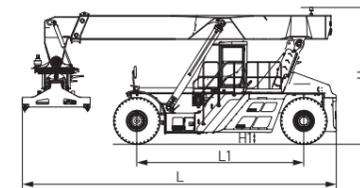
Better Comfort

- Air suspension seat reduces vibration

Product Parameters

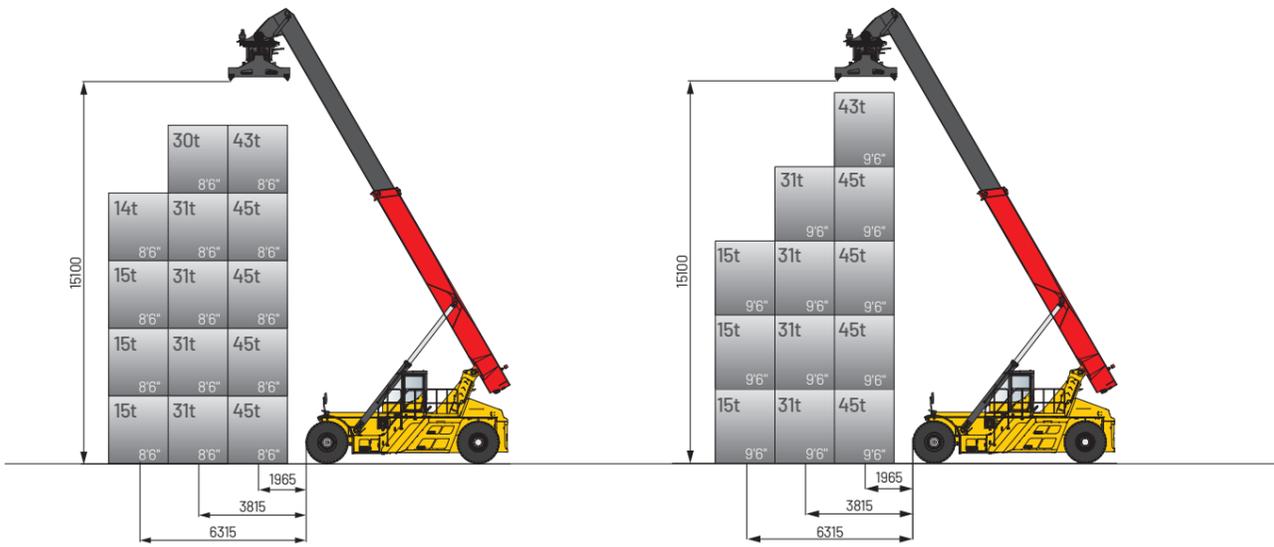
Technical Parameter			Configuration Parameter			
ITEM	UNIT	SRSC45G5	CONFIGURATION	UNIT	SRSC45G5	
Max. Lifting Speed (0/full load)	mm/s	460 / 260	Engine	Type	-	VOILVO TAD1181VE
Max. Lowering Speed (0/full load)	mm/s	600 / 400		Rated Capacity	kW/rpm	265/2100
Max. Traveling Speed (0/full load)	km/h	25 / 21		Max Torque	Nm/rpm	1795/1400
Gradeability (0/full load)	%	46 / 28		Emission Standard	-	Stage V
Hydraulic System Working Pressure	bar	260	Transmission Type	-	15.5TE30	
Overall Weight	t	72.5	Drive Axle Type	-	Kessler D102	
Rated Load	t	45	Main Valve	-	Parker	
Stack Layer	-	5	Main Pump	-	Parker	
Max. Lift Height Standard	mm	15100	Spreader	Model	-	SDJ450H-R series
Max. Boom Elevation	deg	0-60		Lateral Move	mm	±800
Overall Length (L)	mm	11320		Rotate Angle	deg	105/-195
Wheel Base (L1)	mm	6000		Tilt Angle	deg	±5
Overall Height(H) (retract/extend)	mm	4770		Self-Weight	t	7.1
Min. Ground Clearance (H1)	mm	350	Suitable Fo	-	ISO20'/40'/45' container	
Overall Width (W)	mm	6053~12185	Tires			
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

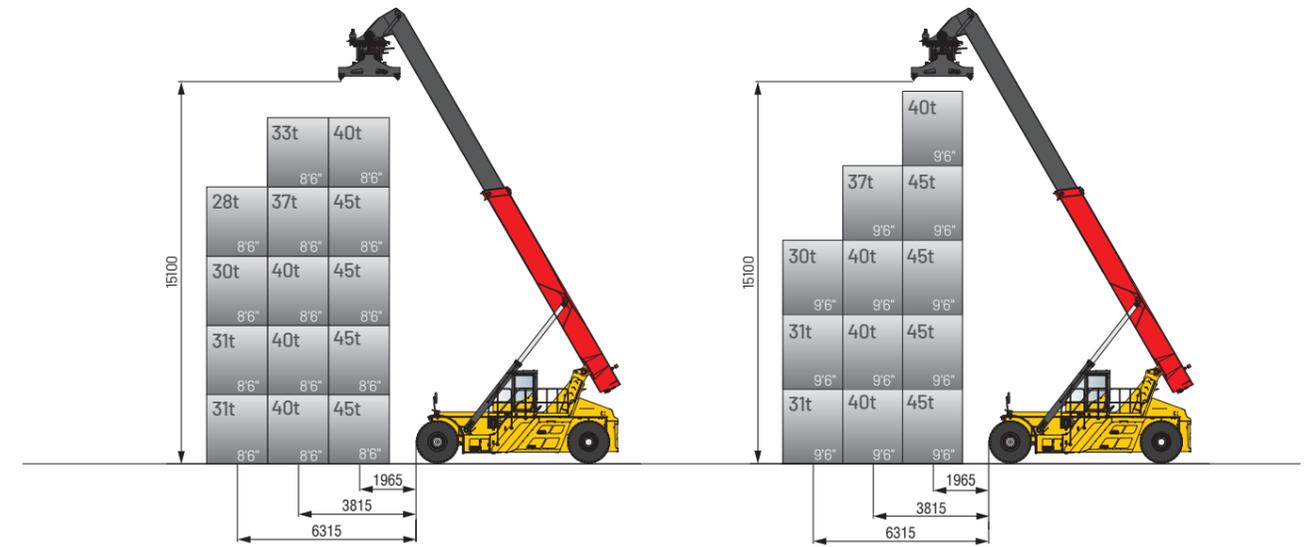


► Series Load Diagram

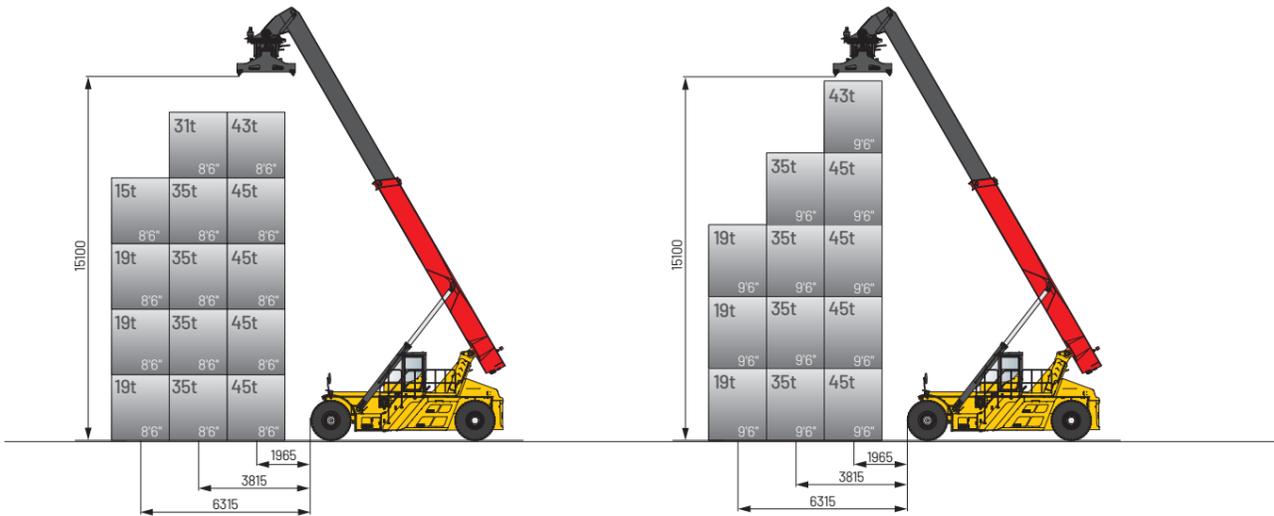
SRSC4531 Series



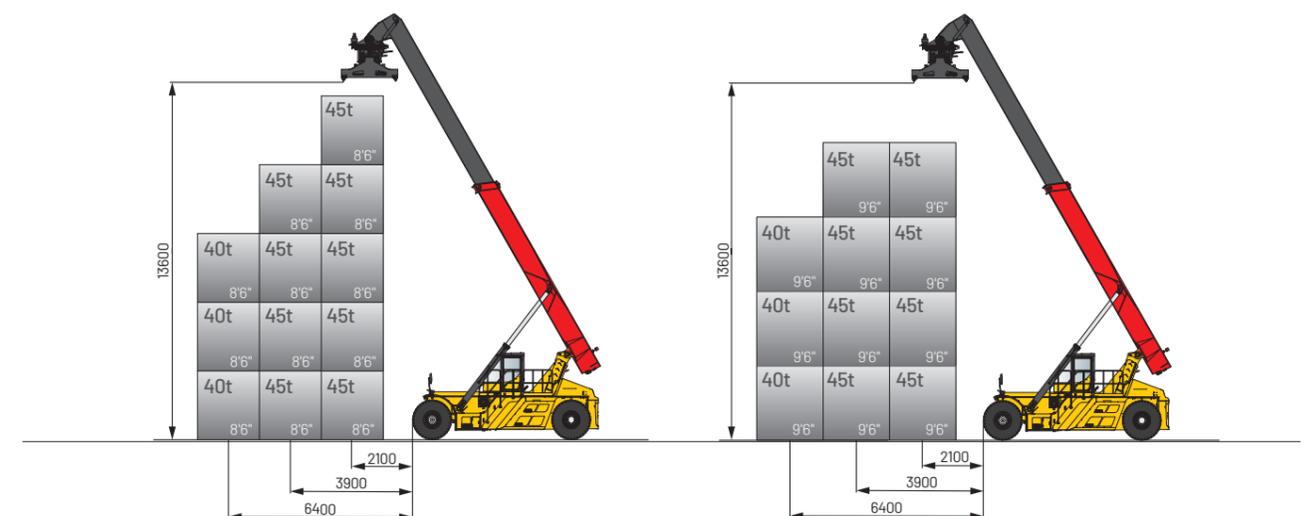
SRSC4540 Series



SRSC4535 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



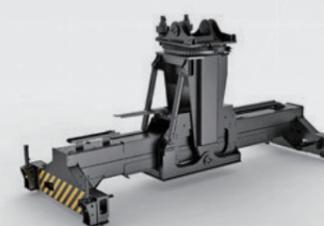
▶ Tilting Spreader

Sany SDJS320 spreader can perfectly solve 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



Electromagnetic Spreader



📍 UK



Turnover Spreader



Steel Coil Spreader



Sanitation Reach Stacker



Log Spreader

SANY OVERSEAS SERVICE

GO WITH SANY NO MORE WAITING

900+



Overseas service centers

3500+



Professional technical service engineers

365×24



Support

Service Center

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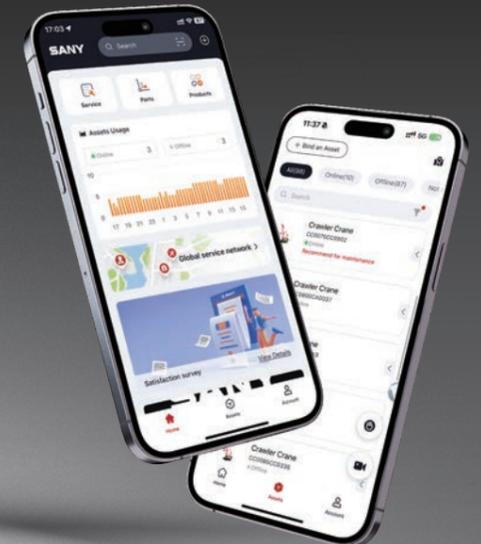


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