

SRSC4535G5  
SRSC4540G5

**SANY**

Quality Changes the World



# THE FAST-TRACK APPROACH

FROM ROAD TO RAIL. AND BACK AGAIN.



**REACH STACKERS**  
**SRSC4535G5**  
**SRSC4540G5**

AVAILABLE WITH ADDITIONAL SUPPORT

Load capacities rows 1–3  
from 45/35/19 t to 45/40/31 t  
Wheelbase  
6500 / 7000 / 7500 mm  
Engine  
**VOLVO EU STAGE V**  
Rated power  
265 kW

# SANY

**Performance comes from quality.  
Quality comes from experience.**

SANY Europe is part of the SANY Group, a global leading manufacturer of construction machinery, port equipment and wind turbines. Our aim is always to deliver products that are tailored to the regional market concerned. Equipped with high-performance, innovative technology. With our own steel construction and spreader production, SANY has the world's largest production of reach stackers. And a dynamic, Europe-wide dealer network that provides local support for users in sales and service.

**> 5000**  
UNITS SOLD IN  
**12 YEARS**

**5–7%**  
FROM REVENUE AS AN INVESTMENT  
FOR RESEARCH AND DEVELOPMENT

UP TO **5 YEARS**  
**WARRANTY\***

Quality Changes the World

\* Only from participating dealers



## FASTER TRAIN LOADING

In terms of handling speed at rail terminals, SANY's new reach stackers cannot be beaten. Everything you need for fast loading and unloading of trains: Speed, lifting capacity, manoeuvrability and stability. The version with a 7 000 mm wheelbase offers the best capacity in its class. The version with a support jack is the ideal option if more range is required due to increased track spacing. SANY also offers a speed advantage thanks to extremely fast lowering and retraction of the supports. With even greater track spacing, machines with a 7 500 mm wheelbase,

supported by smart machine controls, offer the best lifting capacity on the market. For the use in port terminals the machines with 6 500 mm wheelbase ensure high handling capacity combined with a great manoeuvrability.

High speed handling is also guaranteed when loading complete trailers, not just containers. The SANY Reach stacker offers excellent dynamic performance for piggyback shipments.



## LIFTING CAPACITY

**Perfectly balanced** – SANY reach stackers offer unrivalled lifting capacity in their class. This is made possible thanks to their balanced weight distribution and the robust, high-quality steel construction which offers excellent stability. SANY offers the right machine for every need, in three different sizes, tailored to the different track spacings. The optional support jack and sliding counterweight offer extra lifting capacity.

## SPEED

**A clear time advantage** – SANY reach stackers can quickly load and unload containers in a wide range of situations. They are configured for a high turnover speed, right down to the last detail. For example, the optional support jack takes with 5 seconds only around half the time to extend and retract compared to similar machines, making these the fastest on the market by a clear margin.

## EFFICIENCY

**Full power, reduced consumption** – The new EU Stage V engine features a new gearbox. This enables even more efficient use of the hydraulics. This means full pump speed, and therefore full hydraulic power, with the engine speed reduced by 9%. This increase in hydraulic efficiency results in significant fuel savings.

## QUALITY

**Key components from established suppliers** – we don't compromise on quality. Our reach stackers are built using our own robust steel components. Our other main components come exclusively from European brand manufacturers who guarantee a high level of technology, proven reliability and secure spare parts availability. For example, Volvo engines, Dana transmissions, Kessler axles and Parker hydraulics.

## OPERATING COMFORT

**Optimal visibility** – The largest cab available on the market, with numerous comfort and safety features included even in the entry level equipment. The driver enjoys an excellent view of the work area and the twistlocks thanks to the large glazed area at the front. The movable cab also offers the driver a direct, unobstructed view of the container and loading areas. Driving comfort is maximised thanks to a comfortable driver's seat and air conditioning, even on the standard version.

## SAFETY

**Everything safely visible** – In addition to the main display featuring all of the machine information, the driver is shown the status of the four twistlocks on the spreader head-up display on the front edge of the roof glass. This means that the driver has a direct view on the current load compared to the capacity at the respective boom angle and current telescopic status. When a container is picked up, the display informs the driver about the more distant twistlocks which he cannot see directly. Always on board: the SANY comprehensive safety package.

## Complete reliability – for peace of mind.

SANY's warranty of up to 5 years\* gives you the assurance that you can fully count on your equipment.

\* Only from participating dealers



## Our highlights – The added benefits SANY offers you:

- + Powerful and manoeuvrable reach stacker
- + Optimally designed for handling containers at medium and large load centres
- + Robust and extremely durable thanks to the solid steel construction
- + Extensive safety equipment
- + Optional support jack and movable counterweight



PRODUCTIVITY

# FIRST-CLASS PERFORMANCE ON THE SECOND TRACK

At railway terminals with compact track spacing, SANY reach stackers with a 7 000 mm wheelbase are the most powerful solution on the market. Thanks to their long reach and high load capacity, all standard ISO and tank containers can be loaded and unloaded more quickly than competitor products with support jacks. The reach stacker is also

available with a fast support jack for use on more widely spaced tracks. The speed limiter is automatically adapted to the load for added safety, even under high loads.



PRODUCTIVITY

# WHEELBASES PRECISELY ADAPTED TO THE APPLICATION

If the operating conditions require a particularly compact reach stacker, the machine with a 6 500 mm wheelbase and a support jack that can be quickly lowered is the ideal choice. If the ground surface in front of the first track does not allow for support, the long wheelbase version (7 500 mm) offers the required lifting capacity and stability. This offers a clear time advantage compared to machines with a support jack. The boom speed is adjusted to

enable the full lifting capacity to be achieved. When dynamic forces are tied by engaged parking brake, then the control allows an increase lifting capacity. The rear axle is also designed to ensure stability when handling heavy loads. When driving with an empty spreader, the maximum ground speed is automatically adapted to the current conditions.

PRODUCTIVITY

## Automatically faster

The automatic engine speed adjustment and Load Sense hydraulic system allow for particularly short lifting and lowering times. The twistlocks are automatically locked when all four are fully inserted into the corners of the container, ensuring efficient operation. The spreader is automatically telescoped to the set end position.



PRODUCTIVITY

# SAVE TIME WHEN SUPPORTING

SANY reach stackers can be equipped with an optional front support jack. This increases the lifting capacity by 9 tonnes with the boom extended. With a maximum ground pressure of 10 bar, the contact surface is designed so that the load on the ground roughly corresponds to that of the tyres.

The support jack can be raised or lowered in just 5 seconds. Rapid positioning of the support jack enables one or two more container moves per hour to be handled compared to a competitor machine with a support jack.



OPERATING COMFORT

# SPACIOUS CONDITIONS FOR COMFORTABLE WORKING

The high performance offered by SANY reach stackers is also evident in the cab. Optimal comfort offered by the largest cockpit in its class. The comfort features include the ergonomic, individually adjustable GRAMMER driver's seat. Equipped with comfortable neck support, backrest and armrest as standard, it can be further upgraded with many additional features.

The cab also has excellent soundproofing which exceeds the strictest industry standards. This makes for a more pleasant working environment and prevents premature fatigue. The joystick, which can be precisely controlled, enables accurate work under all conditions and can store a wide range of different joystick configurations.



OPERATING COMFORT

## Instant precision

The Elobau premium multifunction joystick is designed for ergonomic and efficient control. It allows multiple hydraulic commands to be issued simultaneously, enabling precise control with fast cycle times. The joystick is connected to a safety CAN bus.



EFFICIENCY

## Fleet management system

SANY Connect allows you to remotely monitor the health and performance of your machines. This offers optimal support in your operational planning. For example, this lets you track your machines' movements on-site and identify idle periods or potential for further optimisation. Scheduled maintenance stoppages can also be optimally integrated into the workflow.

EFFICIENCY

## More choice means more possibilities

SANY offers you a choice of original equipment, between the cost-efficient SANY spreader and the proven ELME spreader. This allows you to customise your reach stacker even more precisely to your specific requirements and budget.

QUALITY

# MAXIMISE AVAILABILITY



SANY reach stackers can operate for long periods, with minimal downtime for maintenance, service and repairs. Under real operating conditions, they have proven that they can operate for more than 50 000 hours over 10 years. That's over 5 000 hours of reliable productivity per year.

SAFETY

## Never exceed a limit

Electronic monitoring of the load moment ensures that the load chart limits are always observed. The boom and telescope angle with the existing load on the spreader is taken into account. When the limit values are approached, the control slows the movement speed, warns the driver and prevents the load limits from being exceeded.

A reversing camera and distance sensors are fitted as standard. Other camera systems, for example for the front or the twistlocks, are available as options.





# SPECIALISTS IN EVERY NEED

No compromises! SANY reach stackers offer tailored solutions for handling heavy loads over long load center distance. Choose the model that best meets your needs, from three different wheelbases, with or without a support jack and with a fixed or mobile counterweight.

### Explanation of model names:

- S

P

SP

75
- = support jacks

= piggyback

= support jacks and piggyback

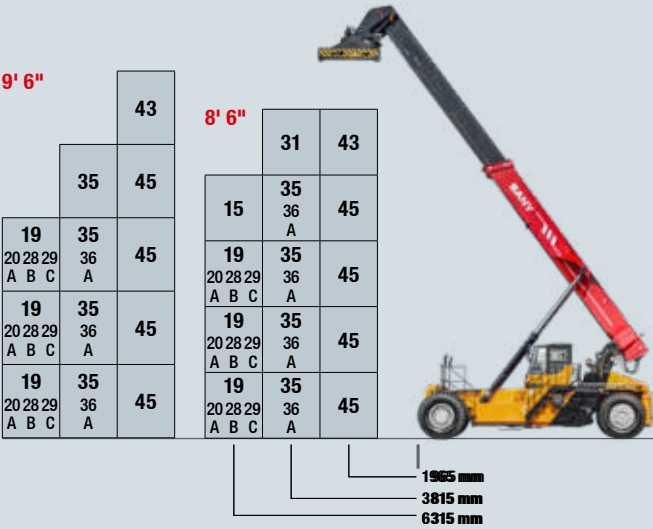
= 7500 mm wheelbase



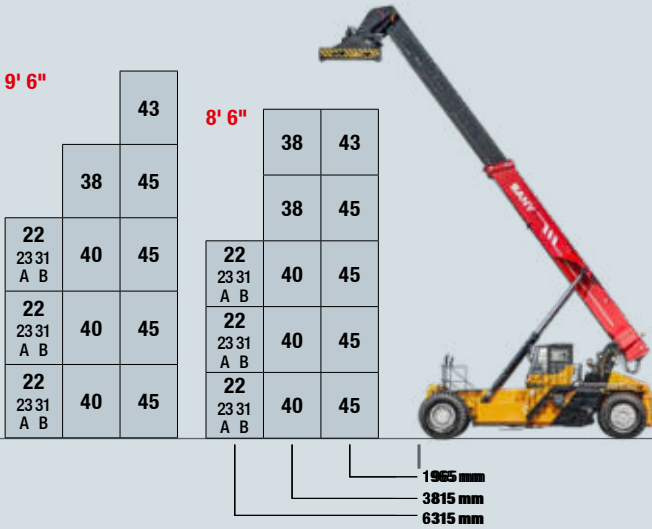
### Application examples for 31 t lifting capacity:

| Increased track spacing        |            |            |            |            |              |              |               |              |               |
|--------------------------------|------------|------------|------------|------------|--------------|--------------|---------------|--------------|---------------|
| Load centre distance           | 4 500 mm   | 4 600 mm   | 5 000 mm   | 5 100 mm   | 5 900 mm     | 6 000 mm     | 6 200 mm      | 6 315 mm     | 6 500 mm      |
| Counterweight extended         |            | SRSC4535G5 |            | SRSC4540G5 |              |              |               |              | SRSC4540G5-75 |
| Counterweight retracted        | SRSC4535G5 |            | SRSC4540G5 |            |              |              | SRSC4540G5-75 |              |               |
| Support jack                   |            |            |            |            | SRSC4535G5-S |              |               | SRSC4540G5-S |               |
| Support jack and counterweight |            |            |            |            |              | SRSC4535G5-S |               |              |               |

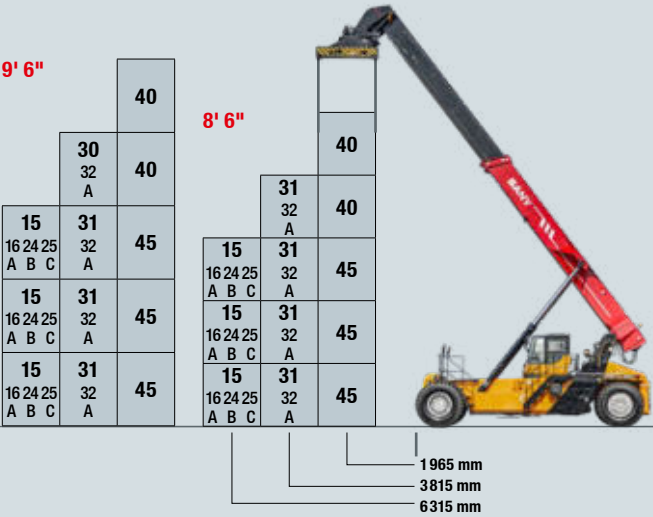
SRSC4535G5 / SRSC4535G5-S



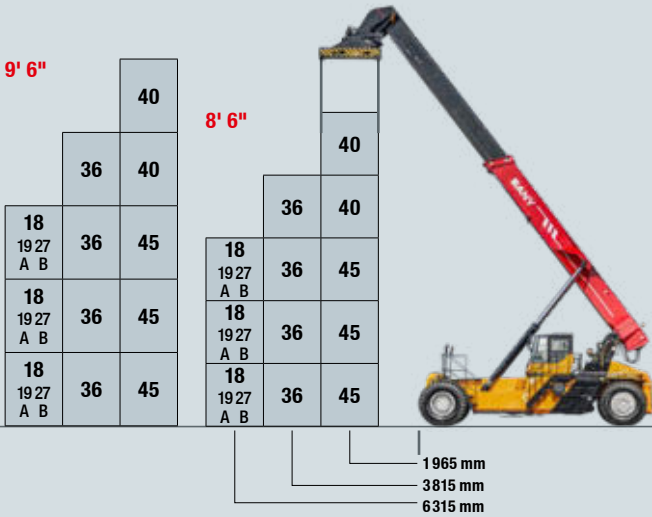
SRSC4540G5 / SRSC4540G5-S



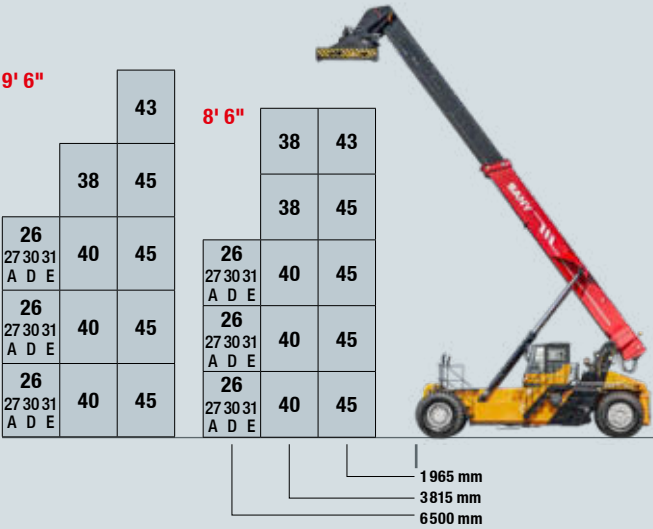
SRSC4535G5-P / SRSC4535G5-SP



SRSC4540G5-P / SRSC4540G5-SP



SRSC4540G5-75



- A
- B
- C
- D
- E
- Counterweight extended
- Support jack lowered
- Support jack and counterweight extended
- Parking brake engaged
- Counterweight extended and parking brake engaged

ENGINE

|                    |                    |
|--------------------|--------------------|
| Model              | VOLVO TAD1181VE    |
| Rated power        | 265 kW/2 100 rpm   |
| Torque             | 1 785 Nm/1 400 rpm |
| Emissions standard | EU Stage V         |

GEARBOX

|                       |       |
|-----------------------|-------|
| Gearbox type          | TE30  |
| Forward/reverse gears | F5/R3 |

AXLE

|                          |              |
|--------------------------|--------------|
| Drive axle type SRSC4535 | Kessler D102 |
| Drive axle type SRSC4540 | Kessler D106 |

SPREADER AND BOOM

|                                         |               |
|-----------------------------------------|---------------|
| Side-shift                              | +/- 800 mm    |
| Rotation angle                          | + 105°/- 195° |
| Mechanical slope compensation           | - 2°/+ 2°     |
| Max. lifting height (SANY spreader)     | 15 100 mm     |
| Max. lifting height (ELME 817 spreader) | 15 250 mm     |
| Max. lifting height (ELME 857 spreader) | 14 910 mm     |
| SRSC4535 tilting angle                  | 0° - 58°      |
| SRSC4540 tilting angle                  | 0° - 56.6°    |

TYRES

|           |          |
|-----------|----------|
| Type/size | 18.00-33 |
|-----------|----------|

FUEL CAPACITY

|             |       |
|-------------|-------|
| Diesel tank | 520 l |
| AdBlue tank | 45 l  |

PERFORMANCE PARAMETERS

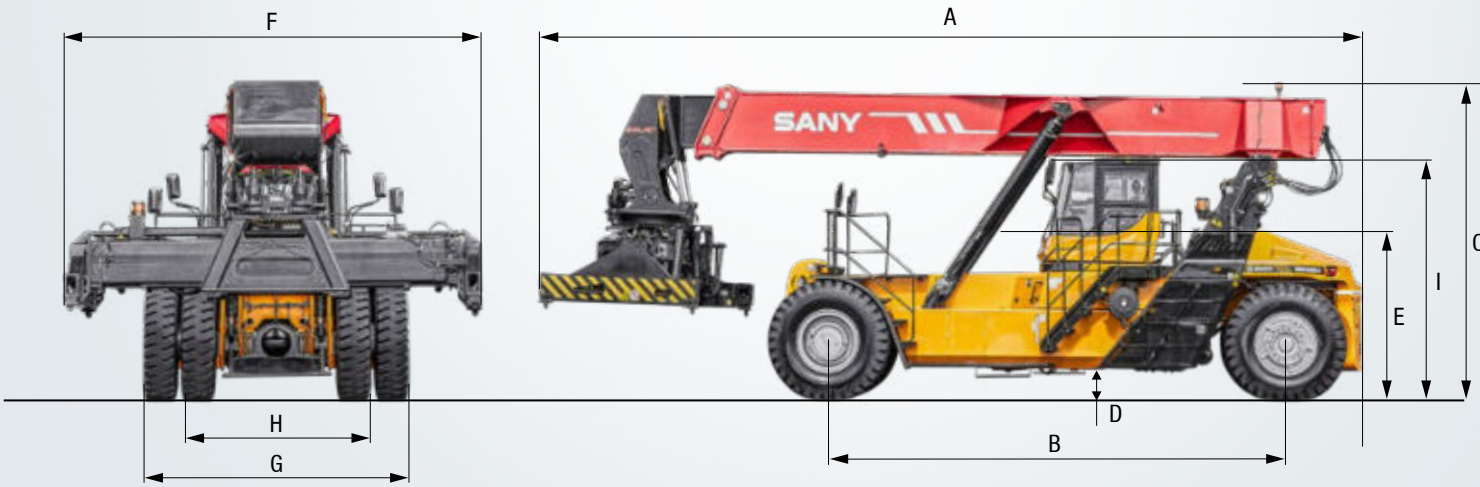
|                                       |              |
|---------------------------------------|--------------|
| Load capacity                         | 45 000 kg    |
| Stacking height with 8' 6" containers | 5            |
| Stacking height with 9' 6" containers | 5            |
| Lifting speed without/with load       | 420/220 mm/s |
| Lowering speed without/with load      | 500/400 mm/s |
| Travel speed without/with load        | 25/21 km/h   |
| Noise level inside cab                | 72 dB        |
| Noise level outside cab               | 107 dB       |

AXLE WEIGHTS

| With the SANY<br>SDJ450G5          | SRSC4535G5                               |                   | SRSC4535G5-S      |  |
|------------------------------------|------------------------------------------|-------------------|-------------------|--|
|                                    | Total weight                             | 78 100 kg         | 79 600 kg         |  |
|                                    | Axle weight without load (front/rear)    | 37 600/40 500 kg  | 39 000/40 600 kg  |  |
|                                    | Axle weight with load (front/rear) on L1 | 101 600/21 500 kg | 102 900/21 700 kg |  |
|                                    | Axle weight with load (front/rear) on L2 | 101 100/12 000 kg | 102 400/12 200 kg |  |
|                                    | Axle weight with load (front/rear) on L3 | 87 100/10 000 kg  | 88 400/10 200 kg  |  |
| With the SANY<br>SDJ450G5 spreader | SRSC4540G5                               |                   | SRSC4540G5-S      |  |
|                                    | Total weight                             | 80 500 kg         | 82 000 kg         |  |
|                                    | Axle weight without load (front/rear)    | 36 980/43 520 kg  | 38 500/43 500 kg  |  |
|                                    | Axle weight with load (front/rear) on L1 | 100 640/24 860 kg | 102 000/25 000 kg |  |
|                                    | Axle weight with load (front/rear) on L2 | 108 070/12 440 kg | 109 500/12 500 kg |  |
|                                    | Axle weight with load (front/rear) on L3 | 93 060/10 440 kg  | 92 400/11 600 kg  |  |
| With the ELME<br>spreader          | SRSC4535G5-P                             |                   | SRSC4535G5-SP     |  |
|                                    | Total weight                             | 82 200 kg         | 84 000 kg         |  |
|                                    | Axle weight without load (front/rear)    | 44 700/37 500 kg  | 46 100/37 900 kg  |  |
|                                    | Axle weight with load (front/rear) on L1 | 108 100/19 100 kg | 109 400/19 600 kg |  |
|                                    | Axle weight with load (front/rear) on L2 | 103 900/9 300 kg  | 105 300/9 700 kg  |  |
|                                    | Axle weight with load (front/rear) on L3 | 89 200/8 000 kg   | 90 600/8 400 kg   |  |
| With the ELME<br>spreader          | SRSC4540G5-P                             |                   | SRSC4540G5-SP     |  |
|                                    | Total weight                             | 86 300 kg         | 87 800 kg         |  |
|                                    | Axle weight without load (front/rear)    | 45 300/41 000 kg  | 46 500/41 300 kg  |  |
|                                    | Axle weight with load (front/rear) on L1 | 108 900/22 400 kg | 110 000/22 800 kg |  |
|                                    | Axle weight with load (front/rear) on L2 | 111 100/11 200 kg | 112 400/11 400 kg |  |
|                                    | Axle weight with load (front/rear) on L3 | 92 700/10 600 kg  | 93 800/11 000 kg  |  |
| With the SANY<br>SDJ450H9 spreader | SRSC4540G5-75                            |                   |                   |  |
|                                    | Total weight                             | 82 300 kg         |                   |  |
|                                    | Axle weight without load (front/rear)    | 37 500/44 800 kg  |                   |  |
|                                    | Axle weight with load (front/rear) on L1 | 99 900/27 400 kg  |                   |  |
|                                    | Axle weight with load (front/rear) on L2 | 106 300/16 000 kg |                   |  |
|                                    | Axle weight with load (front/rear) on L3 | 97 700/10 600 kg  |                   |  |

DIMENSIONS

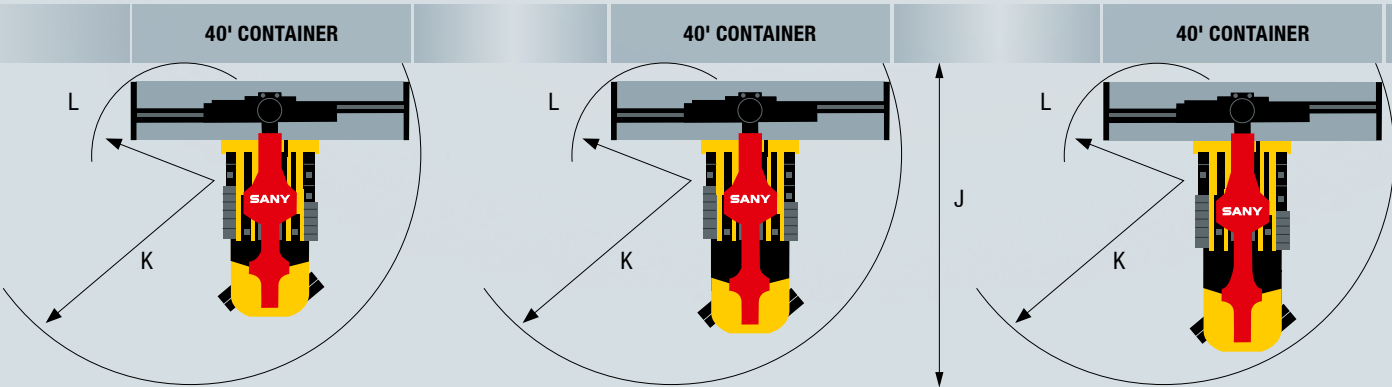
|                                                | SRSC4535G5        | SRSC4540G5        | SRSC4540G5-75     |
|------------------------------------------------|-------------------|-------------------|-------------------|
| A Total length                                 | 11 850 mm         | 12 290 mm         | 12 790 mm         |
| B Wheelbase                                    | 6 500 mm          | 7 000 mm          | 7 500 mm          |
| C Max. height, including rotating beacon light | 5 050 mm          | 5 110 mm          | 5 110 mm          |
| D Ground clearance                             | 350 mm            | 350 mm            | 350 mm            |
| E Seat height                                  | 2 606 mm          | 2 606 mm          | 2 606 mm          |
| F Total width                                  | 6 042 - 12 175 mm | 6 042 - 12 175 mm | 6 042 - 12 175 mm |
| G Transport width at front                     | 4 188 mm          | 4 188 mm          | 4 188 mm          |
| Transport width at rear                        | 3 380 mm          | 3 380 mm          | 3 380 mm          |
| H Track width at front                         | 3 033 mm          | 3 033 mm          | 3 033 mm          |
| Track width at rear                            | 2 790 mm          | 2 790 mm          | 2 790 mm          |
| I Cab height                                   | 3 775 mm          | 3 775 mm          | 3 775 mm          |
| Aisle width with 20' container                 | 11 600 mm         | 12 000 mm         | 12 800 mm         |
| J Aisle width with 40' container               | 13 600 mm         | 13 600 mm         | 13 600 mm         |
| Turning radius                                 | 8 600 mm          | 9 100 mm          | 9 700 mm          |
| K Turning radius, outer with 40' container     | 9 670 mm          | 9 820 mm          | 9 820 mm          |
| L Turning radius, inner with 40' container     | 3 830 mm          | 3 700 mm          | 3 700 mm          |



6 500 MM WHEELBASE

7 000 MM WHEELBASE

7 500 MM WHEELBASE



Perfectly equipped

The SANY SC4535/4540 reach stackers can be selected and equipped as specialist machines for their respective work environments. A series of optional equipment features are available for maximum flexibility and optimal adaptation for the task at hand – from a movable counterweight for additional lifting capacity, to the winter package for cold climatic regions.



OPERATING COMFORT/CAB

|                                                         |   |
|---------------------------------------------------------|---|
| Grammer Actimo driver's seat with mechanical suspension | ● |
| Grammer Actimo driver's seat, air sprung                | ● |
| Adjustable steering column, tilting                     | ● |
| 7-inch main display with colour screen                  | ● |
| 3.5-inch additional spreader display with colour screen | ● |
| 5-inch reversing camera display with colour screen      | ● |
| Fire extinguisher                                       | ● |
| Air-conditioning system                                 | ● |
| Co-driver's seat                                        | ● |

SAFETY

|                                                                                                              |   |
|--------------------------------------------------------------------------------------------------------------|---|
| Safety package in the spreader for twistlock monitoring and control, telescopic release with open twistlocks | ● |
| Joystick control with CAN safety                                                                             | ● |
| Rear distance sensors, visual and acoustic output                                                            | ● |
| Reversing camera                                                                                             | ● |
| 360° camera system with multifunction display                                                                | ● |
| Automatic parking brake                                                                                      | ● |
| Automatically activated speed limiter                                                                        | ● |
| Tyre pressure monitoring                                                                                     | ● |

FURTHER MACHINE EQUIPMENT

|                                                                                    |   |
|------------------------------------------------------------------------------------|---|
| Support jack for up to 9 tonne additional lifting capacity                         | ● |
| Movable counterweight for 1 tonne additional lifting capacity                      | ● |
| Various auxiliary heaters (winter package, engine block heater, diesel cab heater) | ● |
| Automatic central lubrication system                                               | ● |

Standard equipment ● Option ●

\* The air-conditioning system contains fluorinated greenhouse gases: Refrigerant type: HFC 134a, global warming potential: 1430, quantity: 0.85 kg, CO<sub>2</sub>e: 1.22 tonnes

SPREADER

|                                                                                                                                                                                                                          |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| SANY SDJ450G5, Top lift for 20" and 40" ISO containers with twistlock display                                                                                                                                            | ● |
| ELME 817                                                                                                                                                                                                                 | ● |
| Automatic telescope mechanism                                                                                                                                                                                            | ● |
| Anti-sway cylinder                                                                                                                                                                                                       | ● |
| +/- 2° mechanical side slope compensation                                                                                                                                                                                | ● |
| +105°/-195° rotation angle, +/-30° rotation limitation with cab in forward position                                                                                                                                      | ● |
| ELME 857 intermodal spreader, available options: 30' foot stop, power pile slope, overheight legs, spreader camera, twistlock cameras, soft landing, power dampening (active pivoting and holding in pendulum direction) | ● |

WORKING LIGHTS

|                                                                                 |   |
|---------------------------------------------------------------------------------|---|
| 8 LED front headlights: Low beam, high beam                                     | ● |
| 4 LED working lights on boom                                                    | ● |
| 2 LED working lights on spreader                                                | ● |
| 4 LED working lights for ambient lighting to the sides and rear                 | ● |
| LED rotating beacon, clearance lights, brake light, turn signals                | ● |
| Additional LED working lights, maintenance light, cab entry light, reading lamp | ● |

ELECTRONICS

|                                                                                                                           |   |
|---------------------------------------------------------------------------------------------------------------------------|---|
| Fully automatic powershift transmission with torque converter                                                             | ● |
| Automatic stop                                                                                                            | ● |
| Automatic engine speed adjustment for hydraulic operation                                                                 | ● |
| Several CAN bus systems, on-board diagnostics                                                                             | ● |
| Battery master switch, protective devices for engine and transmission control, seat contact switch, filter status display | ● |

A SERVICE YOU CAN RELY ON

We demand the same high quality and reliability of our service products as we do of our machines. This underlines our equipment's performance in terms of their durability and their excellent price-performance ratio. After all, maintenance is crucial for

efficiency, cost-effectiveness and safety. Your SANY dealer will gladly help you with a comprehensive range of services to ensure that your machine continues to operate efficiently in the long term.

SANY – flexible, fast and always there for you

Rapid assistance, tailored advice and a reliable supply of original parts – that is what we mean by a premium service.



The added benefits SANY offers you:

- + Fast supply thanks to the central warehouse near Cologne
- + More than 30 000 spare parts will keep your machine running
- + Expert technical support and knowledge makes sure your machine performs at its potential
- + Thanks to SANY's special training programme, our dealers are always kept up-to-date so that they can face all technical challenges.

Parts supply – fast and reliable

By purchasing a SANY reach stacker, you have invested in the future. Fast availability of spare parts ensures minimal downtimes and failure times.



Detailed information in black and white

Handbooks and documents are available for all SANY reach stackers, and these can help you with operation, maintenance, servicing and repairs. These include operating and maintenance instructions and technical specifications.



HIGHLIGHTS **SRSC4535G5** | **SRSC4540G5**

# EFFICIENT ROAD AND RAIL LOGISTICS

SANY reach stackers bring together the entire expertise and experience of the world's largest producer of reach stackers. SANY reach stackers set standards not only in terms of load-bearing capacity and manoeuvrability, but also in terms of driver comfort and occupational safety.



## PERFECTLY BALANCED

Impressive lifting capacity. Robust steel construction and clever weight distribution, plus three size variants, optional support jacks and a movable counterweight: SANY offers the perfect machine for any application.

## CLEAR TIME ADVANTAGE

High ground speed, powerful hydraulics and, most importantly, the shortest possible time to extend and retract the support jack in 5 seconds make SANY reach stackers the fastest machines available for loading and unloading trains.

## FULL POWER, REDUCED CONSUMPTION

The new EU Stage V engine in conjunction with the new transmission consumes significantly less fuel. Together, they use the hydraulics even more efficiently and deliver full power at a 9% lower engine speed.

## KEY COMPONENTS FROM ESTABLISHED SUPPLIERS

Key components from European brand manufacturers are integrated into our own robust steel construction. This guarantees durability, reliability and more secure availability of spare parts.

## OPTIMAL VISIBILITY

Comprehensive comfort and safety features are available as standard in the largest cab available on the market. The mobile cockpit also offers the driver a direct, unobstructed view of the work area.

## EVERYTHING IN SIGHT

All machine information are shown on the main display. The head-up display within the viewing area shows spreader specific information. The comprehensive SANY safety package includes reversing cameras and distance sensors.



Not all products are available in all markets. As part of our continuous improvement process, we reserve the right to modify specifications and designs without giving prior notice. The figures may contain additional options.

# SANY

Quality Changes the World

## SANY EUROPE GmbH

Sany Allee 1  
D-50181 Bedburg, Germany  
Tel. +49 2272 90531 100  
Fax +49 2272 90531 109  
info@sanyeurope.com  
www.sanyeurope.com