DON‘T ACCEPT ANYTHING LESS.

QUALITY CHANGES THE WORLD
SANY has the ambition and the resources to provide the market with refreshing alternative products developed and manufactured to the highest European standards and requirements. Quality, reliability and top customer service are our guiding principles. The SANY Europe team accompany every project from development through to delivery. Maximum customer satisfaction is our aim so we support you all the way from the initial consultation through to operation of your new reach stacker.
IN-HOUSE STEEL ENGINEERING FOR COMPONENT DURABILITY

• Booms and frames are developed, tested and manufactured within SANY facilities. This allows full quality control and fast improvement cycles.
• Many of the SANY reach stackers have proven their durability in harsh conditions in major Asian ports and have already been in operation for several 10,000 hours without any signs of fatigue.

A EUROPEAN PRODUCT.

5-YEAR GUARANTEE ON PORT MACHINERY FROM 2018

• No unexpected costs for reliability-related repairs during the first 5 years/10,000 operating hours.
• When SANY is prepared to provide 5-year warranty, it must be very confident of the reliability of its products.

EXTENSIVE EXPERIENCE IN REACH STACKERS BASED ON THE PRODUCTION OF 4,000 VEHICLES IN 12 YEARS

• No other reach stacker manufacturer has produced so many vehicles.
• A multitude of opportunities taken to continuously improve the product.
• Reach stackers have been designed and adapted to a wide range of operational conditions.

SANY PRODUCES ANNUALLY MORE REACH STACKERS THAN ANY OTHER COMPETITOR.

• Customers gain from high volume production. Standard equipment from SANY comes only at a surcharge from competitors.
• Line-production is more efficient. Routine and optimization improves the production quality.

IN-HOUSE SPREADER PRODUCTION

• For reach stackers and empty container handlers, SANY offers a choice between Elme and SANY spreaders.
• SANY spreaders undergo continuous testing on an industry-leading test rig prior to line production and delivery to the customer.

* For reach stackers, empty container handlers and heavy-duty forklifts with EU emission stage IV
THE MOST SPACIOUS CABINS.

OPERATOR CABIN
The cabin is designed to accommodate the natural movements of operators. Frameless windscreen offer operators an unsurpassed and unrestricted view of the work environment. The sliding cabin enables operators to select their desired position.

THE SEAT
The seat is easily adjusted to suit any size of operator. An optional premium seat is available with automatic weight adjustment, heating and electrical adjustable lumbar support. A comfortable buddy seat is also available.

NOISE LEVELS
Sound insulation exceeds the most stringent of industry standards. Working comfort is thereby enhanced and premature operator fatigue avoided.

ERGONOMICS
The Grammer seat is adjustable to any position, and available with air suspension. The steering wheel has a 2-way adjustment to ensure optimum operating comfort.

LIGHT SYSTEM
Good visibility means safe operation! SANY equips its Reach Stackers with 18 LED lights as standard – for optimum visibility in any environment, day or night.

REVERSING CAMERA
Keeping the overview with SANY. The reversing camera activates automatically when reverse gear is engaged. The display on the control console gives an unrestricted view and enables safe manoeuvring in any direction. Especially advantageous in congested and confined spaces. Park sensors are also available.

CUSTOMISED
SANY knows the force of habit and therefore a multitude of joystick configurations. Each operator is then able to select the configuration most familiar and comfortable to them.
NO COMPROMISES ON SAFETY.

MULTIPLE ANTI-TIPPING FEATURES
When the stacker is loaded and at maximum reach, electronic control prevents further extension to ensure tipping stability. If the operator then switches to an extended load range, an extra safety system using sensors in the rear axle linkage activates to prevent tipping.

ALL-ROUND VISIBILITY
An optional camera system around the reach stacker aids precision manoeuvring and safety. An additional display in the control panel offers operators optimum all-round visibility of the work site.

CAMERAS FOR INTERMODAL APPLICATIONS
Additional cameras are mounted on each side of the spreader providing a unique view of the system’s key functions to enhance productivity and safety.

SAFETY CAN BUS
Two redundant CAN buses facilitate data traffic. Any interference signals are detected and intercepted by a control system.
EASY MAINTENANCE.

OUTSIDE MONITOR/DISPLAY
A compact outside monitor provides information about fuel level, the number of container corner connections and operating hours.

SEPARATE SYSTEMS FOR HYDRAULIC AND BRAKE OIL
A separate brake oil circuit limits contamination and prevents brake chatter. Checking oil levels is easy via a clearly visible display.

TIRE PRESSURE MONITORING AND DIAGNOSTICS ASSISTANCE
A tire pressure monitoring system allows quick detection of air leaks. An optional remote monitoring system with operator recognition records positional data every 30 seconds. Fast diagnostics are possible via a main display and remote support.

STATE-OF-THE-ART AND ECO-FRIENDLY TECHNOLOGY.

LOAD SENSING
A load-sensing hydraulic system precisely delivers power according to operation demands. Two double variable displacement pumps using a load-sensing proportional valve reduce fuel consumption.

SOLAS COMPLIANT WEIGHING SYSTEM
An established and robust system enables weighing of entire containers while manoeuvring. The weight is linked to the container number and the data is transferred for further processing.

CLEAN AIR, EU STAGE IV
A broad rpm range gives constant power and delivers full engine power already at 1450 rpm, for fuel-efficient, full-power operation in the mid rpm range.

STANDARD EQUIPMENT.

- Volvo TAD 1171 VE EU Stage IV
- Dana gearbox 15.5 HR 36000
- Drive axle Kessler D 102 PL 341 (D106 for model SRSC4540 / 4540-P)
- Top lift spreader ELMEB17 or SANY 450G
- Electro-hydraulic sliding cabin
- LED light system: 18 LED lights and brake/indicator/reverse lights
- Rotating amber beacon
- Reversing camera
- Full CAN BUS system for data transfer
- CAN BUS diagnostics for main components
- Head up display
- Radio pre-sets
- State-of-the-art monitor with high-resolution display
- Filter status indicator
- Redundant CAN-BUS joystick for fail-safe control of boom and spreader
- Grammer seat
- 2-litre fire extinguisher
- Air conditioning
- Sun curtain on roof window
- Load sensing hydraulics
- Two double hydraulic variable displacement pumps

OPTIONAL EQUIPMENT – MAIN OPTIONS.

- Movable counterweight for additional lifting capacity
- Elme intermodal spreader, model 857
- Overheight folding legs, ELME spreader model 817-MPS/OFL
- Automatic engine compartment fire extinguishing system
- 30’ stop on spreader
- Integrated all-round vision camera system
- Rear distance sensors
- Grammer seat with air suspension, electrical adjustment of lumbar support and seat heating
- Co-driver seat with safety belt
- Additional cabin heating
- Winter package for cold climates
- Central lubricating system
- Radio system with CD player, Bluetooth, SD card reader, MP3
- Piggyback camera system
- Outside monitor/display
- Customised painting
VALUES IN BRACKETS WITH MOVABLE COUNTERWEIGHT SHIFTED TO EXTENDED POSITION

4531G

4531G-P

4535G

4535G-P

4540G

4540G-P

* these values are for SANY spreader. With ELME Spreader these values are 1 ton less
** these values are for SANY spreader. With ELME Spreader these values are 2 tons less
*** 15.250 mm lift-height with ELME spreader / 15.100 mm lift-height with SANY spreader
# REACH STACKER G-CLASS SPECIFICATIONS

## DRIVE TRAIN
- **Model**: 4531G / 4531G-P 4535G / 4535G-P 4540G / 4540G-P
- **Engine**: Volvo TAD 1171VE
- **Emission Level**: EU Stage IV
- **Engine Power**: 285 kW bei 1450 - 2500 U/min
- **Engine Torque**: 1785 Nm bei 1260 U/min
- **Transmission**: Dana HR36000 Dana TE32
- **Number of Gears**: 4F/4R
- **Transmission Features**: automatic powershift, torque converter

## Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>4531G / 4531G-P</th>
<th>4535G / 4535G-P</th>
<th>4540G / 4540G-P</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1/11 Overall Length</td>
<td>11340</td>
<td>11960</td>
<td>12046</td>
</tr>
<tr>
<td>Y Wheelbase</td>
<td>6000</td>
<td>6500</td>
<td>7000</td>
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<tr>
<td>h2 Height incl Beacon Light</td>
<td>4770</td>
<td>4880</td>
<td>4940</td>
</tr>
<tr>
<td>m2 Ground Clearance</td>
<td>300</td>
<td>350</td>
<td>350</td>
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<tr>
<td>h6 Cab Height</td>
<td>3780</td>
<td>3880</td>
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<tr>
<td>h7 Seat Height</td>
<td>2504</td>
<td>2606</td>
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<tr>
<td>L3 Overall Width</td>
<td>6042-12175</td>
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</tr>
<tr>
<td>L10 Track Width front</td>
<td>3033</td>
<td>3033</td>
<td>3033</td>
</tr>
<tr>
<td>L11 Track Width rear</td>
<td>2790</td>
<td>2790</td>
<td>2790</td>
</tr>
<tr>
<td>b1 Width Front Axle</td>
<td>4190</td>
<td>4190</td>
<td>4190</td>
</tr>
<tr>
<td>b2 Width Rear Axle</td>
<td>3310</td>
<td>3310</td>
<td>3310</td>
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<tr>
<td>W1 Turning Radius, outer</td>
<td>8285</td>
<td>8947</td>
<td>9200</td>
</tr>
<tr>
<td>R1 Turning Radius, inner</td>
<td>12000</td>
<td>1300</td>
<td>1300</td>
</tr>
<tr>
<td>b11 Track Width rear</td>
<td>104 dB(A)</td>
<td>104 dB(A)</td>
<td>104 dB(A)</td>
</tr>
<tr>
<td>b10 Track Width front</td>
<td>104 dB(A)</td>
<td>104 dB(A)</td>
<td>104 dB(A)</td>
</tr>
</tbody>
</table>

## Performance
- **Lifting Speed unloaded / loaded**: m/s 0.4 / 0.2
- **Lowering Speed unloaded / loaded**: m/s 0.7 / 0.4
- **Maximum Traction Force**: kN 335
- **Driving Speed no-load / with load**: km/h 25 / 21
- **Maximum Lift Capacity**: t 45
- **Stacking Height (number of containers)**: 5
- **Lifting Speed unloaded / loaded**: m/s 0.4 / 0.2
- **Lowering Speed unloaded / loaded**: m/s 0.7 / 0.4
- **Maximum Traction Force**: kN 335
- **Driving Speed no-load / with load**: km/h 25 / 21
- **Maximum Lift Capacity**: t 45
- **Stacking Height (number of containers)**: 5

## Weights

### With Top-Lift Spreader ELME 817 / SANY SDJ450G
- **Service-Weight with ELME spreader, without load**: kg 75500
- **Axle Load, with empty Spreader (front / rear)**: kg 36526 / 37574
- **Axle Load with max. Load in L1 (front / rear)**: kg 103500 / 11600
- **Axle Load with max. Load in L2 (front / rear)**: kg 95300 / 101500
- **Axle Load with max. Load in L3 (front / rear)**: kg 80700 / 87000

### With Intermodal Spreader ELME 857
- **Service Weight**: kg 78650
- **Axle Load, with empty Spreader (front / rear)**: kg 13850 / 15550
- **Axle Load with max. Load in L1 (front / rear)**: kg 10000 / 11600
- **Axle Load with max. Load in L2 (front / rear)**: kg 83200 / 92450
- **Axle Load with max. Load in L3 (front / rear)**: kg 83500 / 90500

## Weights with Top-Lift Spreader ELME 817 / SANY SDJ450G
- **Service-Weight with ELME spreader, without load**: kg 75500
- **Axle Load, with empty Spreader (front / rear)**: kg 36526 / 37574
- **Axle Load with max. Load in L1 (front / rear)**: kg 103500 / 11600
- **Axle Load with max. Load in L2 (front / rear)**: kg 95300 / 101500
- **Axle Load with max. Load in L3 (front / rear)**: kg 80700 / 87000

## Weights with Intermodal Spreader ELME 857
- **Service Weight**: kg 78650
- **Axle Load, with empty Spreader (front / rear)**: kg 13850 / 15550
- **Axle Load with max. Load in L1 (front / rear)**: kg 10000 / 11600
- **Axle Load with max. Load in L2 (front / rear)**: kg 83200 / 92450
- **Axle Load with max. Load in L3 (front / rear)**: kg 83500 / 90500

### Performance
- **Maximum Lift Capacity**: t 45
- **Stacking Height (number of containers)**: 5
- **Lifting Speed unloaded / loaded**: m/s 0.4 / 0.2
- **Lowering Speed unloaded / loaded**: m/s 0.7 / 0.4
- **Maximum Traction Force**: kN 335
- **Driving Speed no-load / with load**: km/h 25 / 21

## Not all products are available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and the design without prior notice. The illustrations do not necessarily show the standard version of the machine./ Vers. no.: 05.2018
EXCEPTIONAL PERFORMANCE. EXCEPTIONAL CUSTOMER SERVICE.

Purchasing a SANY reach stacker is the beginning of a close relationship with SANY and its authorised dealerships. Service technicians at the dealerships undergo training at SANY Europe. They are able to perform regular maintenance and, in the event of breakdowns, to carry out diagnostics to quickly get your vehicle up and running again, with support from SANY-Europe customer service engineers. A wide range of spare parts is available from the central store.