

SY155W

**SANY**

Quality Changes the World



# READY FOR ANY TERRAIN

PRECISE POWER. CONSTANT RELIABILITY.

CONSTRUCTION MACHINERY



## MOBILE EXCAVATOR **SY155W**

Engine  
DEUTZ TCD4.1 L4  
Rated Power  
115 kW / 2000 rpm  
Bucket capacity  
0.6 m<sup>3</sup>  
Operating mass  
15 000 kg

# SANY

SY155W

## For challenging tasks, you need a first-class partner

Quality comes from experience. And from new ideas. This is why we combine these two crucial factors at SANY. This is because we are one of the world's leading producers, having sold more than **250 000** excavators in **10 years**. This means that you can always rely on sophisticated products that have been tried and tested in practice. An impressive **5-7%** of our annual turnover is dedicated to research and development. This is why we give you not only our word, but also our extraordinary **five-year warranty** as a guarantee of how powerful and robust our products are.

**250 000**  
EXCAVATORS SOLD IN  
**10 YEARS**

**5-7%**  
TURNOVER FOR RESEARCH  
AND DEVELOPMENT

**FIVE-YEAR  
WARRANTY\***

Quality Changes the World

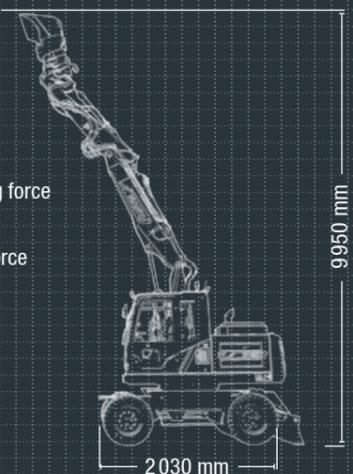
### SY155W HARD FACTS

Max. bucket digging force  
87 kN (ISO)

Max. arm digging force  
64 kN (ISO)

Swingspeed  
10.5 rpm

Max. travel speed  
20 km/h



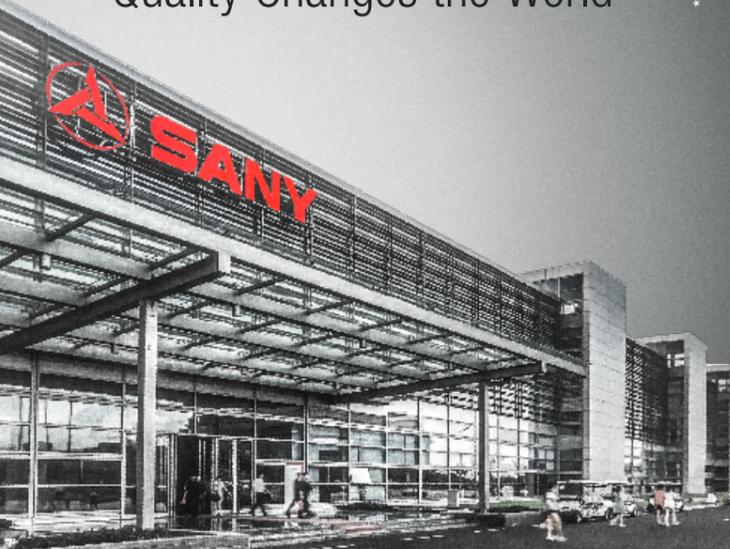
## MOBILE VERSATILITY RE-DEFINED

When it comes to mobility, SANY SY155W is unrivalled, both on the construction site and over short distances from one construction site to the next. There is therefore no need for an additional means of transport, thereby eliminating loading time. This means that the mobile excavator

requires considerably less time and personnel. This is ideal for inner-city areas and a wide variety of applications, from civil engineering and earth moving to pipe laying. It can even demonstrate its strengths in garden- and landscaping work.



\* Applicable in certain markets, please check with your local dealer.



ECONOMY

# A MOBILE POWERHOUSE

When you need an excavator that can change locations quickly, the SY155W is the perfect choice. It lives up to its name as a mobile excavator – not only on the construction site when going from one task to the next, but also over short distances between two construction sites, meaning there is no need for an additional means of transport. This makes it ideally suited for use in urban areas, where it comes into its own thanks to its compact dimensions.

## QUALITY

**For the toughest conditions –** Pin point welded seams, executed by highly-precise welding robots, ensure stability and power in the long term.

## DIMENSIONS

**Extremely agile –** The two-piece boom enhances its flexibility and reach even with compact dimensions. Even when excavating vertically with attachments or workpieces, the excavator can work with particular precision in tight spaces.

## USER EXPERIENCE

**Comfortable all-round –** With its modern interior, the cab provides the best conditions for concentrated and productive work.



## SAFETY

**Protection for both people and machines –** From its stable, non-slip hand rails to its large mirrors and camera, the safety package ensures that your construction site runs without a hitch every day.

## COMPONENTS

**Inner values –** With the SY155W, quality is guaranteed right down to the fine details – from the ZF gearbox and the Bosch Rexroth hydraulics to the Deutz engine.

## ECONOMY

**Price and performance –** The SY155W offers an impressive price-performance ratio that quickly pays off. On every construction site, the compact all-rounder shows what true cost-effectiveness looks like.



## DIMENSIONS

### Manoeuvrability and flexibility

The SY155W's two-piece boom broadens the scope of application and increases operational flexibility. This boom enables the work area to be adapted according to your requirements, from a longer distance to close up. It is now also possible to lift loads vertically in the immediate vicinity of adjoining buildings. Naturally, all transport dimensions have been maintained, so that the machine can move with road traffic easily and safely. In combination with its large steering angle, the machine can always be brought perfectly to its working position on the construction site.

### Absolute reliability – for peace of mind!

SANY's five-year warranty\* gives you the assurance that you can fully count on your equipment.



\* With participating partners

## DIMENSIONS

### Stability in every situation

The robust undercarriage ensures stable driving and guarantees exact and fast manoeuvring on the construction site. Its stability and high-quality design allow it to prove its strength safely, for example during excavation work. Where necessary, the dozer blade provides additional stability. Naturally, the machine also has stabilisers on its axes, increasing the tilt stability even when working over the sides.





USER EXPERIENCE

**With built-in maintenance benefits**

We can't change the fact that machines need maintenance. That's why we've reduced maintenance requirements, resulting in less downtime. The maintenance-friendly overall concept of the SY155W starts with the robust, wide-opening engine bonnet and the easy accessibility of all relevant components. The filter, radiator and battery are arranged centrally and can therefore be accessed easily and quickly. This guarantees not only full performance and reliability, but also the long service life of all components.



USER EXPERIENCE

**A comfortable working environment**

The cabin of the SY155W has only one task – to make working on the construction site as pleasant, comfortable and safe as possible for the driver. The ergonomically positioned controls and the comfortable, air-suspension driver's seat with numerous individual adjustment options are part of this. The automatic climate control and powerful ventilation and heating ensure that the temperature and fresh air levels in the cab are always perfect. A radio and large storage compartments are also supplied on board as standard. Naturally, the direction of travel can be changed easily using a switch integrated into the joystick.

USER EXPERIENCE

**CONTROL  
FULL POWER  
WITH  
SENSITIVITY**

All of the important controls on the SY155W are positioned perfectly throughout the cab. From the easy to use joystick control to the large multifunction display, on which all important data is clearly laid out in a simple system. The menu navigation is extremely user-friendly and enables the driver to manage machine functions safely and comfortably, for example, checking current pressure levels. The monitor also displays the next inspection due and basic data such as oil and cooling water temperatures and torque. Changing attachment devices is particularly easy; the quick changeover can also be directly selected in the system. The angle of the steering column can also be comfortably adjusted.



**Our highlights – the added benefits SANY offers you:**

- + Two-piece boom
- + Comfortable air-suspension seat
- + Modern LED lighting
- + Clear instruments and a large, high-resolution colour display
- + High safety standards (support cylinders on the axes, camera etc.)
- + Large storage compartments

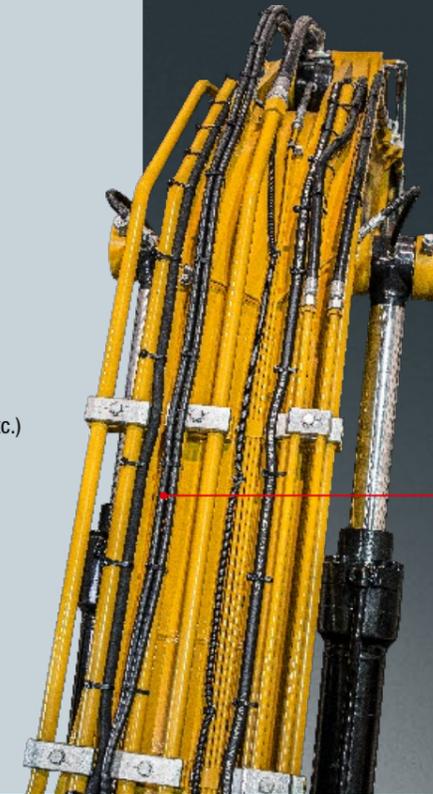


QUALITY

**Protecting all that's important to you**

The foundation of the SANY excavator's durability and robustness is its sophisticated design and selected high-quality materials. And, of course, its robust build. The welded seams, for instance, are executed by robots with a high degree of precision. This guarantees maximum load-bearing capacity and a long service life.

You can always rely on a clean, well thought-out hydraulic system.



SAFETY

**Everything within reach and in sight**

All the controls are clear and positioned directly within the driver's reach. This ensures not only optimum comfort, but also maximum safety thanks to precise operation. In addition, the driver has a complete overview of the working and slewing area in all situations. The cleverly built cab structure ensures this excellent overview, in conjunction with the camera supplied as standard.



## ENGINE

Model	DEUTZ TCD4.1 L4
Typ	Water-cooled, 4 cylinder, with commonrail and Adblue
Exhaust emissions	Stage V
Rated power	115 kW / 2 000 rpm
Max. torque	609 Nm / 1 600 rpm
Displacement	4 038 ccm
Batteries	2 × 12V / 120 Ah

## SERVICE REFILL CAPACITIES

Fuel tank	233 l
Engine coolant	26 l
Engine oil	11.5 l
Adblue	20 l
Hydraulic oil tank	140 l

## PERFORMANCE

Swingspeed	10.5 rpm
Max. travel speed	High 20 km/h, slow 7 km/h
Max. travel force	84 kN
Gradeability	35°
Bucket capacity	0.6 m³
Groundpressure	0.38 / 0.55 kg/cm²
Bucket digging force ISO	87 kN
Arm digging force ISO	64 kN

## RELIEF VALVE SETTINGS

Implement circuit	320 bar
Swing circuit	250 bar
Travel circuit	360 bar
Pilot pressure	39 bar

## HYDRAULIC SYSTEM

Mainpump	1 x variable-piston-pump with loadsensing control
Max. oilflow	250 l/min
Max. oilflow (AUX 1)	100 l/min
Max. oilflow (AUX 2)	100 l/min
Travelmotor	Variable displacement axial piston motor
Swingmotor	Axial piston motor

## UNDER AND UPPER STRUCTURE

Boom length	1 930 mm + 3 100 mm
Arm length	2 500 mm
Rotation device	Planetary gear reducer driven by an axial piston motor, automatic hydraulic released slewing brake

## OPERATING MASS

SY155W	15 000 kg
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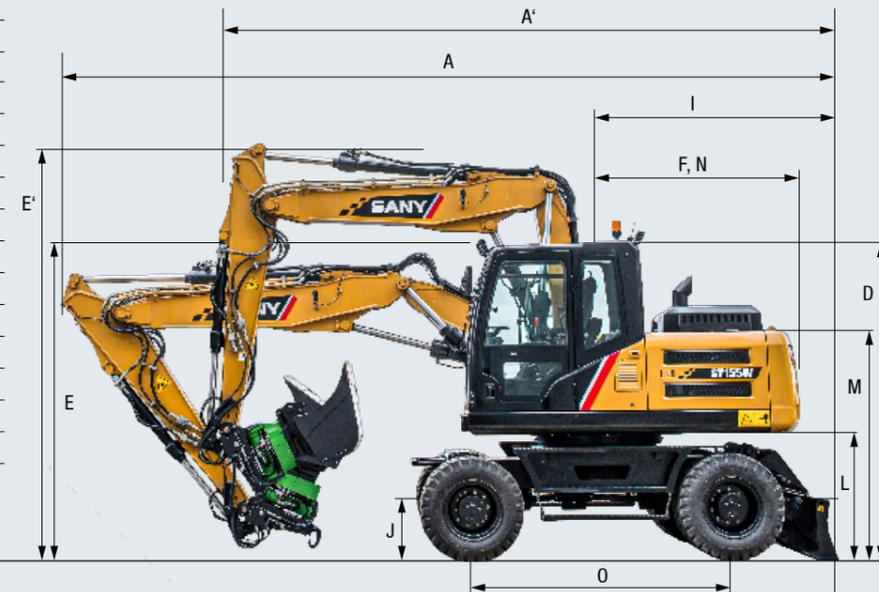
## TIRES

Dimensions	10.00 - 20 - 16PR
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## DIMENSIONS

A	Transport length	7 500 mm
A'	Transport length in drivemode	6 224 mm
B	Transport width	2 550 mm
C	Upperstructure width	2 550 mm
D	Height over cab	3 200 mm
E	Transport height	3 200 mm
E'	Transport height in drivemode	3 996 mm
F	Tail length	2 030 mm
G	Track gauge	1 944 mm
H	Undercarriage width (blade)	2 550 mm
I	Horizontal distance to blade	2 200 mm
J	Blade height	600 mm
K	Minimum ground clearance	360 mm
L	Counterweight clearance	1 230 mm
M	Engine cover height	2 616 mm
N	Tail swing radius	2 030 mm
O	Center distance of tumblers	1 944 mm



## LIFTING CAPACITIES OF LOWER DOZER BLADE

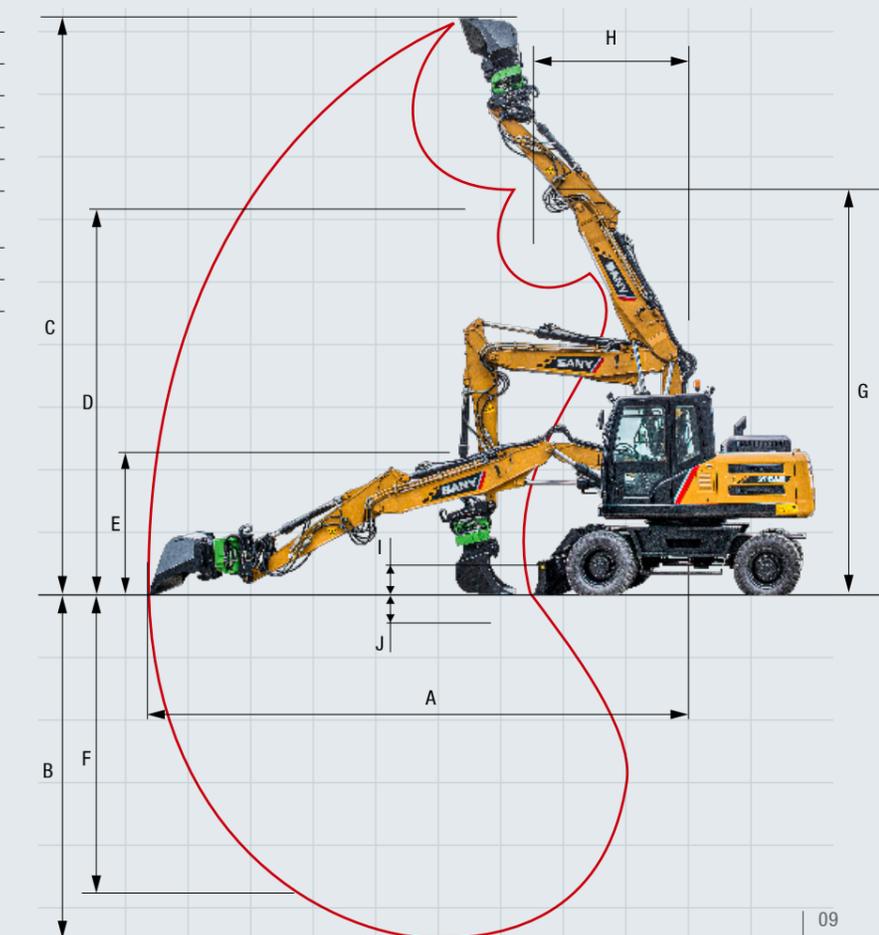
Load point height	Radius				Digging reach max.	
	3.0 m	4.5 m	6.0 m	7.5 m		
7,5 m kg	3600	3600			3005 3100 4952	
6,0 m kg	3400	3400	3500	2300	3300 2100 6327	
4,5 m kg	4000	3600	3600	2300	2800 1700 7121	
3,0 m kg	6700	6300	5000	3400	3600 2200 2500 1500	2500 1500 7526
1,5 m kg	9200	5800	5300	3100	3400 2100 2500 1500	2400 1400 7609
Ground line kg	9600	5400	5100	2900	3400 2000	2500 1500 7379
-1,5 m kg	9600	5400	5100	2900	3300 2000	2800 1700 6806
-3,0 m kg	8900	5700	5200	3000		

## LIFTING CAPACITIES OF UPPER DOZER BLADE

Load point height	Radius				Digging reach max.	
	3.0 m	4.5 m	6.0 m	7.5 m		
7,5 m kg	3600	3600			3400 3100 4952	
6,0 m kg	3400	3400	2500	2300	2300 2100 6327	
4,5 m kg	4000	3600	2500	2300	1800 1700 7121	
3,0 m kg	6700	6300	3700	3400	2500 2200 1700 1500	1600 1500 7526
1,5 m kg	6500	5800	3500	3100	2300 2100 1700 1500	1600 1400 7609
Ground line kg	6200	5400	3400	2900	2300 2000	1700 1500 7379
-1,5 m kg	6300	5400	3300	2900	2200 2000	1900 1700 6806
-3,0 m kg	6500	5700	3400	3000		

## OPERATING RANGE

A	Max. digging reach	8 900 mm
B	Max. digging depth	5 400 mm
C	Max. digging height	9 950 mm
D	Max. dumping height	7 200 mm
E	Min. dumping height	2 920 mm
F	Max. vertical digging depth	4 500 mm
G	Overall height over arm by Min. swing radius	7 324 mm
H	Min. swing radius	2 195 mm
I	Max. clearance when blade up	472 mm
J	Max. depth of blade down	167 mm



**Ready for any challenge**

Its extensive standard equipment makes the SY155W a perfect partner to tackle everyday challenges on the construction site. Optional extra equipment and attachment devices are also available to increase its flexibility even more.



**OPERATORS COMFORT / CABINE**

- Airsuspension seat ●
- Heater ●
- Automatic air conditioning C/H ●
- Radio and speaker ●
- Armrests (adjustable) ●
- 12v outlets ●
- AUX 1 on Joystick ●
- AUX 2 on Joystick ●
- Integrated cooling box ●
- Adjustable steering column ●

**WORKING EQUIPMENT**

- Boom and arm load holding valves with overload indicator ●
- Double acting circuit for hydraulic quick coupler with piping ●
- Breaker&Shear line proportional on Joystick with piping ●
- Rotation line proportional on Joystick with piping ●
- Flow adjustment for attachments ●
- Changeover of bucket cylinder prepared ●
- Two-piece boom ●
- Dozer blade ●

**UNDERCARRIAGE**

- Holes/loops for fixing ●
- Toolbox ●

**SAFETY**

- Battery master switch ●
- Travel Alarm ●
- Warning beacon ●
- Camera ●
- Lockable hoods ●

**WORKING LIGHTS**

- Lights - front (LED) ●
- Lights - boom (LED) ●
- Lights - platform (LED) ●
- Lights - back (LED) ●

**ENGINE**

- Auto idle ●
- DOC ●
- DPF ●
- Diesel filter ●

**HYDRAULIC SYSTEM**

- Axle stabilizers ●
- pipng for additional hydraulic function AUX 1 ●
- pipng for additional hydraulic function AUX 2 ●
- Swing brake ●
- Mainfilter ●

Standard equipment ● Special option ●

The standard and special options differ depending on the country in which the compact excavator is delivered. If you have any questions, please contact your dealer directly.

**A SERVICE YOU CAN RELY ON**

Just as we do with our excavators, we also demand high quality and reliability of our service products. 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 is happy to help you with a comprehensive range of services to ensure that your machine continues operating 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 15,000 spare parts to make your machine highly reliable
- + Expert knowledge for optimal supply for your machine
- + 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 – quick and reliable**

With the purchase of a SANY mobile excavator you have made an investment in the future. Fast availability of spare parts is your guarantee of minimal downtimes and failure times.



**Detailed information in black and white**

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



# ENHANCED MOBILITY FOR YOUR PRODUCTIVITY

The SY155W demonstrates how strong performance can take to the road reliably and safely. The compact mobile excavator is an all-rounder boasting exemplary productivity. During civil engineering, horticulture and landscaping work and on urban construction sites, it proves itself to be a flexible workhorse anywhere, working not only with strength but also precision. The sensitive joystick control and the two-piece boom, as well as the well-coordinated brand-name components also have their part to play in this.

## ROBUST AND DURABLE

Robustness is essential for tough everyday conditions on the construction site. You can therefore put your trust in the **high quality** of all the components of the SY155W mobile excavator. And in **SANY's five-year warranty**.

## COMFORTABLE WORKSTATION

**Ergonomics and functionality** determine every detail of the SY155W's driver's cab. The perfect workstation to re-define productivity.

## COMPREHENSIVE PROTECTION

With the SY155W, you are investing in safety in every possible way. Besides the **ROPS/FOPS certification**, the comprehensive **safety package also includes support cylinders on the axes and a camera**.

## AGILE POWER

**Compact dimensions**, on the one hand, exemplary **mobility and flexibility** on the other. The **compact dimensions** and the **two-piece boom** make it possible.

## HIGH-QUALITY TRIED AND TESTED

The **true power** of a machine can only be seen in the sum of its components. This is why the SY155W features **tried and tested components** from leading manufacturers.

## ECONOMICALLY EFFICIENT

The SY155W pays for itself right from the first use, thanks to its **excellent price-performance ratio**, and beyond, due to its extremely **low energy consumption levels**. The intelligent hydraulic system, for example, ensures the highest possible **fuel efficiency**.

## TECHNICAL HIGHLIGHTS

Engine	DEUTZ TCD4.1 L4
Rated power	115 kW / 2 000 rpm
Max. torque	609 Nm / 1 600 rpm
Max. travel speed	20 km/h
Swingspeed	10.5 rpm
Mainpump	Variable-piston-pump with load sensing control
Max. oilflow	250 l/min



**„A MACHINE WITH GOOD STANDING!“**

Nico Schwarze –  
machine operator, Straßen- und Tiefbau GmbH Eilenburg, Germany

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

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