

SY50U

SANY

supported by **Putzmeister**



HIGH PERFORMANCE, SMALL SIZE

SURPRISINGLY AGILE. INCREDIBLY EFFICIENT.

CONSTRUCTION MACHINERY



MINI EXCAVATOR
SY50U

Engine
Yanmar 4TNV88CT
Power
35.5 kW / 2 400 rpm
Bucket capacity
0.152 m³
Operating weight
5 100 kg

SANY

The most demanding tasks require a first-class partner.

Quality comes from experience. And from innovative ideas. That's why at SANY we combine these two important factors. Because we are one of the leading manufacturers, with more than **500,000** excavators sold **worldwide**. Given this, you can trust our advanced products, tested in the construction field. We allocate a high percentage of our annual turnover, between **5 and 7%**, to research and development. This allows us to promise you the power and robustness of our products.

500 000
EXCAVATORS SOLD
WORLDWIDE

5–7%

PERCENTAGE OF TURNOVER ALLOCATED
TO RESEARCH AND DEVELOPMENT

Quality Changes the World



SY50U

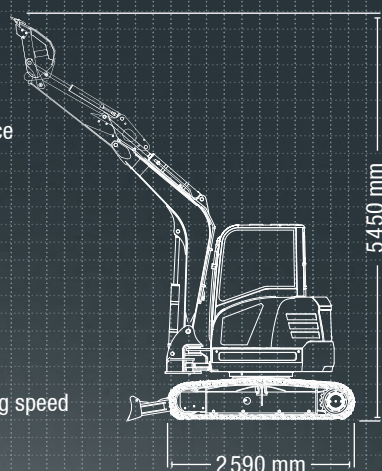
SY50U TECHNICAL DATA

Max. breakout force
of the bucket
36.8 kN (ISO)

Max. pulling force
of the arm
24.5 kN (ISO)

Rotational speed
10 rpm

Maximum travelling speed
4.2 km/h



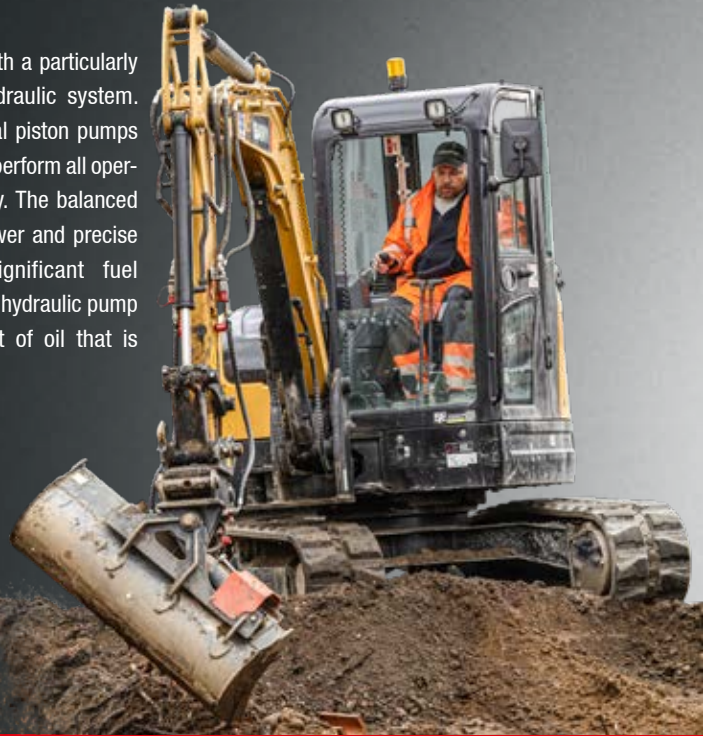
LIGHTWEIGHT AND CAPABLE OF ANYTHING

With the new generation SY50U short-swing excavator, you will have a specialist at your side that is capable of performing at its best, especially in confined spaces. Requiring little space to work and manoeuvre, it is the perfect solution for places where a conventional machine reaches its limits: in hard-to-reach places, on walls and facades, on busy urban construction sites or on busy roads. You can rely on its sensitive and precise handling and on the fact that, despite its small size, it is always one of the best in its class in terms of speed and power. Also, the new generation of SY50U has developed a floating four-way angular shovel as an option and a floating bulldozing shovel as a standard.

PROFITABILITY

OPERATING COSTS GO DOWN, PRODUCTIVITY GOES UP

The SY50U is equipped with a particularly efficient load-sensing hydraulic system. Variable displacement axial piston pumps ensure sufficient power to perform all operations smoothly and safely. The balanced combination of speed, power and precise response guarantees significant fuel savings at every stage: the hydraulic pump supplies only the amount of oil that is actually needed.



CONSTRUCTION

Strong and durable: the welds, made with great precision by robots, guarantee durability in the harshest conditions.

DIMENSIONS

For the tightest spaces: the compact dimensions of the short-swing machine allow you to manoeuvre perfectly even in the tightest areas of construction sites. This manoeuvrability increases your application possibilities and productivity.

EASE OF USE

Maintenance and servicing: the bonnet opens very easily with the aid of gas struts. Behind it, the most important components for maintenance and servicing are clearly arranged in the centre. The radio with USB and Bluetooth interface also offers greater convenience at work.



SAFETY

Proven robustness: safety features are comprehensive, from omnidirectional lighting to lockable protective covers, battery disconnect switch and standard safety valves on the arm and boom.

COMPONENTS

Power: the proven Yanmar 4TNV88CT engine guarantees reliable performance in all tasks, even in the toughest working conditions.

PROFITABILITY

Standard efficiency: the intelligent control system adapts the pumping capacity to the available engine power to achieve greater efficiency and reduce fuel consumption.

PROFITABILITY

Greater benefit at a lower cost

Quality that will bring you long-term benefits: reduced maintenance costs and long intervals between maintenance. In addition, all important maintenance points are very easy to access. This saves operating costs and increases profitability.



CONSTRUCTION

Metal cladding

Durability and robustness are standard features in all SANY excavators. That is why all cladding parts are made exclusively from metal. This makes them particularly robust, and if an accident ever occurs in the complicated day-to-day life of a construction site, they can usually be quickly repaired.



EASE OF USE

THE OPERATOR IN THE CENTRE

The productivity of an excavator depends largely on whether the operator can work without losing concentration for long periods. That is why the SY50U has a particularly spacious cab with the highest level of comfort. The operator can sit comfortably in the ergonomic driver's seat. The height of the armrests can be adjusted for fatigue-free working. Despite its compact design, there is also sufficient foot space in the front area, and the pedals can be folded away if necessary to create more space. From the cab, the operator has a perfect view of everything. The quiet engine and cab design effectively minimise noise and vibrations. And another detail: the split floor mat can be easily removed, making cleaning particularly quick and easy.



Our key features. The advantages of SANY Plus:

- + 2 additional proportional control circuits with joystick operation as standard
- + Double-acting hydraulic circuit for quick coupling incl. hose system
- + Efficient and powerful hydraulic system with load sensor
- + Automatic speed reduction
- + Air conditioning
- + Safety valves on boom and arm



COMPONENTS

MORE LIGHT, BETTER VISIBILITY, GREATER SAFETY

With the SY50U, you can always see what you are working on, even in poor visibility conditions. The powerful LED lamps perfectly illuminate the work area. Their energy consumption is incredibly low, ensuring that the battery has a long service life. In addition, the headlights require virtually no maintenance, saving repair costs and time.



EASE OF USE

Everything in view

You will have all the information at a glance with the large central display, which shows all important data and values clearly and neatly arranged. In addition to basic information, you can also adjust the gear or auxiliary device here. The next maintenance is also stored in the menu.

EASE OF USE

Easy maintenance

Machines with quick and easy maintenance save time and money in everyday construction work. On the SANY SY50U, all points necessary for testing and maintenance can be easily accessed from the ground. This means that scheduled maintenance can be carried out quickly, increasing the machine's availability and service life and ensuring that both the operator and the equipment are protected in the long term.



DIMENSIONS

No limitations

Excavating near obstacles? That's no problem for the SANY SY50U. With this compact, short-swing excavator, you'll enjoy maximum mobility with unlimited rotation.



SAFETY

A perfect panoramic view

Large windows and the sophisticated design of the cab ensure that the driver has the best possible view of the area around the vehicle. The 360° panoramic view provides an extraordinary level of safety in the workspace.

ENGINE

Model	Yanmar 4TNV88CT
Type	Water-cooled, 4 cylinders, with common rail system and DPF
Emission standards	Stage V
Power	35.5 kW / 2 400 rpm
Maximum torque	139.1 Nm / 1 560 rpm
Displacement	2 190 cc
Batteries	1 × 12 V / 120 Ah

HYDRAULIC SYSTEM

Main pump	Axial piston control pump
Maximum oil flow	144 l/min
Drive	Axial piston control motor
Swivel motor	Axial piston motor
Maximum oil flow (AUX 1)	80 l/min
Maximum oil flow (AUX 2)	45 l/min

SERVICE FILLING QUANTITIES

Fuel tank	72 l
Engine coolant	4.2 l
Engine oil	7.4 l
Travel drive (per side)	0.9 l
AdBlue tank	80 l
Hydraulic oil tank	52 l

POWER

Rotation speed	10 rpm
Maximum travel speed	Fast 4.2 km/h, slow 2.7 km/h
Maximum traction force	57.8 kN
Bucket capacity	0.15 m³
Ground pressure	0.32 kg/cm²
Grade ability	25°–30°
ISO bucket breakout force	36.8 kN
ISO arm traction force	24.5 kN

OPERATING WEIGHT

SY50U	5 100 kg
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LOWER AND UPPER BODY

Boom length	2 700 mm
Arm length	1 500 mm
Rollers	4
Support rollers	1
Swivel system	Planetary gear driven by axial piston motor, hydraulically operated automatic parking brake

PRESSURE RELIEF VALVES

Boom circuit	245 bar
Swing circuit	191 bar
Travel circuit	245 bar
Pre-control circuit	35 bar

LOWER DOZER BLADE LOAD CAPACITIES

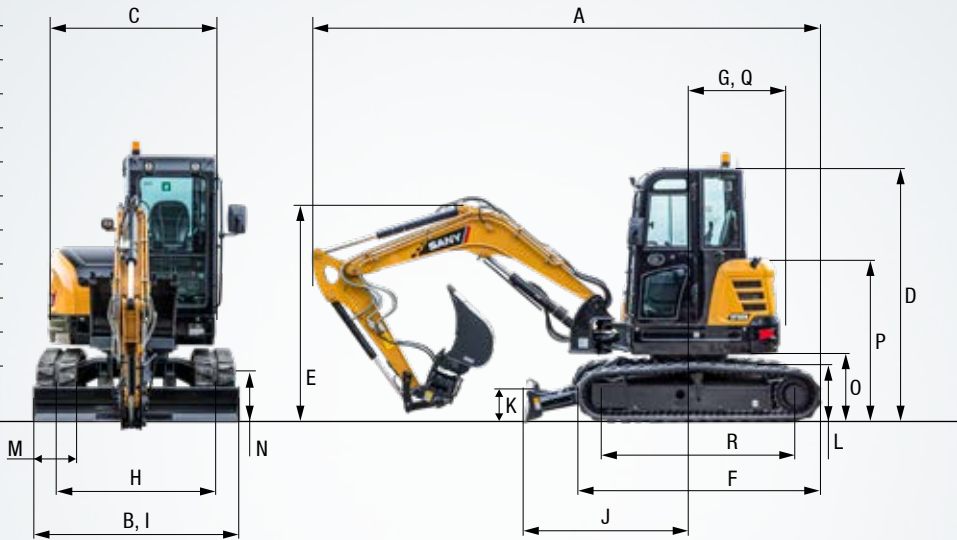
Loading point height	Radius				Max. height	
	2.0 m	3.0 m	4.0 m	5.0 m	Capacity	mm
4.0 m kg					1 085 845 3 905	
3.0 m kg			1 050 815		1 050 655 4 605	
2.0 m kg		1 545 1 190 1 190 790			1 055 580 4 948	
1.0 m kg		2 020 1 110 1 365 760 1 080 560			1 075 555 5 024	
Floor line kg		2 165 1 075 1 445 735			1 100 575 4 849	
-1.0 m kg	2 735 2 000 1 975 1 075 1 325 735				1 110 655 4 385	
-2.0 m kg	2 135 2 050 1 370 1 100				1 040 905 3 476	

UPPER DOZER BLADE LOAD CAPACITIES

Loading point height	Radius				Max. height	
	2.0 m	3.0 m	4.0 m	5.0 m	Capacity	mm
4.0 m kg					1 025 845 3 905	
3.0 m kg			985 815		790 655 4 605	
2.0 m kg		1 485 1 190 960 790			700 580 4 948	
1.0 m kg		1 400 1 110 925 760 680 560			675 555 5 024	
Floor line kg		1 360 1 075 905 735			700 575 4 849	
-1.0 m kg	2 735 2 000 1 355 1 075 900 735				800 655 4 385	
-2.0 m kg	2 135 2 050 1 370 1 100				1 040 905 3 476	

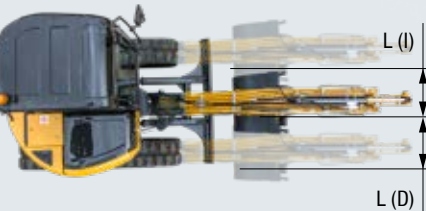
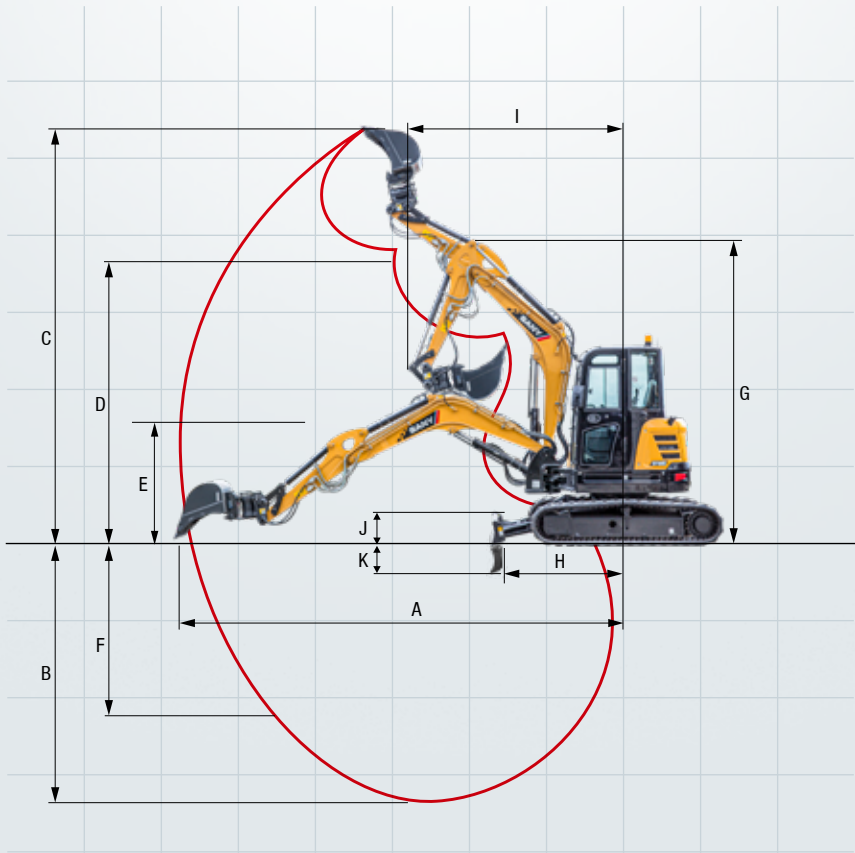
DIMENSIONS

A Overall length	5 390 mm
B Overall width	1 960 mm
C Overall width of upper body	1 810 mm
D Overall height of cab	2 560 mm
E Overall height of boom	2 060 mm
F Total length of lower body	2 590 mm
G Rear length	980 mm
H Wheelbase	1 560 mm
I Width of lower body (dozer blade)	1 960 mm
J Horizontal distance to dozer blade	1 790 mm
K Height of dozer blade	380 mm
L Chain height	610 mm
M Chain plate width	400 mm
N Min. ground clearance	310 mm
O Rear weight ground clearance	675 mm
P Bonnet height	1 660 mm
Q Rear turning radius	980 mm
R Distance (centre) between sprocket and steering wheel	2 070 mm



WORK AREA

A Maximum reach	5 880 mm
B Maximum digging depth	3 460 mm
C Maximum cutting height	5 340 mm
D Maximum dumping height	3 730 mm
E Minimum dumping height	1 410 mm
F Maximum digging depth on vertical wall	2 580 mm
G Total height with minimum swing radius	4 155 mm
H Boom head distance with maximum retraction of working devices	1 690 mm
I Turning radius with turning support (left)	2 260 mm
Turning radius with turning support (right)	2 080 mm
Minimum turning radius	2 520 mm
J Max. elevation of dozer blade above ground	420 mm
K Max. penetration of dozer blade	405 mm
L Extension displacement of swivel support (le.)	745 mm
Extension displacement of swivel support (ri.)	710 mm
Maximum boom swing angle (left)	58°
Maximum boom swing angle (right)	54°



Note: Non-binding information document. The values indicated are theoretical maximum values. The values for the high-pressure water pump are for operation in diesel mode. Specifications subject to change without prior notice. Photos and illustrations are for illustrative purposes only. For information on available options, please consult us.

The SY50U can handle anything and has everything

The SY50U is a versatile excavator that comes fully equipped from the factory for a wide range of applications. Special equipment and optional attachments are available to further increase its flexibility.



EASY TO OPERATE / CAB

Heating	●
Manual air conditioning	●
USB/Bluetooth radio	●
Adjustable armrests	●
12 V connection	●
Windscreen wipers	●
Window washing system	●
Additional control circuit 1 on control lever	●
Additional control circuit 2 on control lever	●
8 implement settings	●
Removable front window	●

SAFETY

Battery disconnect switch	●
Travelling alarm	●
Omnidirectional lights	●
Emergency descent	●
Lockable covers	●

HYDRAULIC SYSTEM

Swivel brake	●
2 travel speeds	●
Hydraulic control of the control lever	●
Tubes for additional control circuit 1	●
Tubes for additional control circuit 2	●
Final damping of lift cylinder and arm	●

WORK LIGHTING

LED work lights on front roof	●
LED work light on boom	●

LOWER BODY

Rubber chain	●
Fastening rings	●
Cylinder protection, push blade	●

ENGINE COMPARTMENT

Automatic rev adjustment	●
Diesel particulate filter	●
DPF	●
Air filter	●

WORK EQUIPMENT

Safety valve on boom and arm with overload warning device	●
Double-acting hydraulic circuit for quick coupling incl. hose system	●
Hammer installation	●
Attachment installation	●
Adjustable oil flow for accessories	●
Shield	●
Cylinder protection on arm	●
Safety valve on push blade	●

Standard equipment ● Special option ●

Note: Non-binding information document. The values indicated are theoretical maximum values. Specifications subject to change without prior notice. The photos and illustrations are for illustrative purposes only. For information on available options, please consult us.
* The air conditioning contains fluorinated greenhouse gases: Refrigerant type: HFC-134a, Global warming potential: 1,430, Quantity: 0.625 kg, CO2e: 0.89 t

Parts supply: fast and reliable

By purchasing a SANY compact excavator, you have invested in the future. The rapid availability of spare parts guarantees short down-times and minimal inactivity.



A SERVICE YOU CAN RELY ON

As with our excavators, the quality and reliability standards of our service products are very high. This is demonstrated by the scope of our guarantee in terms of durability, as well as the excellent value for money. After all, maintenance is also crucial for efficiency,

profitability and safety. Your SANY dealer is at your side with a comprehensive service to ensure that your machine runs efficiently and durably.

SANY – flexible, fast and always there for you

Prompt assistance, accurate advice and reliable supply of original parts: that is how we understand premium service.



The advantages of SANY Plus:

- ✚ Experienced dealer network throughout Australia, New Zealand & the Pacific Islands
- ✚ Direct service coverage
- ✚ Local SANY team dedicated to your success
- ✚ Australia-wide parts distribution centers to ensure SANY machines are fully supported
- ✚ Ongoing customer care from purchase to after-sales

Full coverage, black on white

All SANY mini excavators come with manuals and documents to assist you with operation, maintenance, servicing, and repairs, including operating and maintenance instructions, technical specifications, and more.



KEY FEATURES **SY50U**



COMPACT AND STRONG, THE PERFECT COMBINATION

The new generation SANY SY50U is a truly powerful machine. With its compact design, it is in its element on urban construction sites and in any other particularly confined spaces. Its high performance and comprehensive basic equipment guarantee productivity.

STRONG AND DURABLE

All components have been designed to withstand very high loads. Likewise, the finish of the materials is of a **particularly high quality: almost all welds have been precision-made by welding robots.**

IN THE NARROWEST PLACES

The **sturdy swivel bracket** is the crucial point for all jobs. This is what gives the machine its **exceptional manoeuvrability.**

MAINTENANCE AND SERVICE

Thanks to the bonnet supported by **gas struts** and the **clear, central arrangement of the most important components**, routine checks and maintenance work on the machine can be carried out quickly and easily.

NO IFS OR BUTS

In daily operation, both people and machines must meet very high standards. **That is why excellent safety components are always included, such as stable cylinder covers or two additional proportional circuits with joystick control as standard.**

STRENGTH

With its **powerful Yanmar 4TNV88CT engine**, the mini excavator is perfectly equipped for large 'maxi' tasks.

SERIES PERFORMANCE

The **automatic gas control function**, together with **electronic injection**, adjusts the engine speed to the required power. In this way, the **intelligent system reduces energy consumption, engine wear and exhaust emissions.** This has a positive impact on **profitability and low lifetime costs.**

KEY TECHNICAL FEATURES

Engine	Yanmar 4TNV88CT
Power	35.5 kW / 2 400 rpm
Maximum torque	169.5 Nm / 1 560 rpm
Maximum travel speed	4.2 km/h
Rotational speed	10 rpm
Main pump	Axial piston control pump
Maximum oil flow	138.6 l/min



**"UNBEATABLE PERFORMANCE,
IT CAN HANDLE ANYTHING!"**

Jens Gans (machine operator) -
Straßen- und Tiefbau GmbH, Eilenburg, Germany

Not all products are available in all markets. As part of our ongoing improvement process, we reserve the right to change specifications and designs without prior notice. Images may contain additional options.

SANY

supported by **Putzmeister**

Putzmeister Oceania

12 Kimpton Way,
Altona VIC 3018
1300 321 080
sanyoceania@putzmeister.com
www.sanyoceania.com