

SY80U

SANY

supported by **Putzmeister**



EFFICIENCY IN THE TIGHTEST SPACES

COMPACT. POWERFUL. COMFORTABLE.

CONSTRUCTION MACHINERY



COMPACT EXCAVATOR
SY80U

Engine
YANMAR 4TNV98CT-VSY
Power
53.7 kW / 2100 r. p. m.
Bucket capacity
0.28 m³
Operating weight
8 800 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



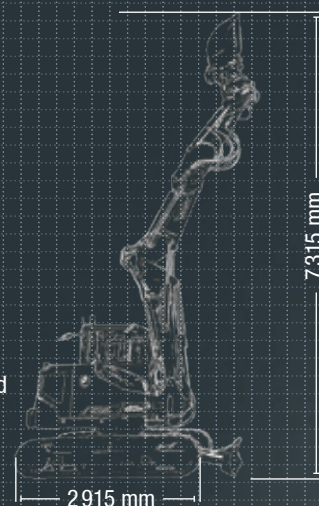
SY80U TECHNICAL DATA

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

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

Rotational speed
10 U/min

Maximum travelling speed
4.5 km/h



HIGH STANDARDS FOR THE COMPACT CLASS

Its compact dimensions and minimum turning radius make the SY80U short swing radius excavator the smallest of SANY's compact excavators. This means it is in its element wherever precise force is required in confined spaces, such as on hard-to-reach construction sites. With an effective swing radius of only 1480 mm and adjustable equipment, it is the ideal component for use in road construction and pipe laying, for bridge

work or in inner-city housing construction for renovations and landscaping. Here, it can also demonstrate its other strengths: its extensive standard equipment, good all-round visibility for the driver and high cost-effectiveness thanks to low operating costs.



CONSTRUCTION

For the most demanding requirements: extremely precise welded seams, made by robots, guarantee durability even under the toughest conditions. Additional reinforcement plates at the pivot point of the adjustable equipment ensure high durability.

DIMENSIONS

Safe use in confined spaces: thanks to the short rear design, you can work well even in tight conditions. The option of equipping the machine with an adjustable boom greatly increases the range of possible jobs and fields of application. Other adjustment options also allow the bucket to be placed in elevated positions for fast loading of lorries.

EASE OF USE

Maximum comfort, maximum productivity: the driver's cab has been designed to provide maximum operating comfort, including an ergonomic seating position on a suspension seat and many comfort features such as air conditioning and convenient gear shifting on the labelled gear lever. Another major advantage is the new 7" touchscreen.



SAFETY

Safety is paramount: it comes standard with extensive safety equipment, ranging from stable cylinder covers to protective covers with locks, standard safety valves and a rear camera.

COMPONENTS

Reliable power: the YANMAR 4-cylinder diesel engine provides the power. The formidable engine guarantees reliable power for all tasks, even under the most demanding conditions.

PROFITABILITY

Lower consumption means greater savings: this applies above all to fuel consumption. Automatic speed adjustment allows the short-swing excavator to operate at maximum power while also saving fuel.

DIMENSIONS

MINIMUM TURNING RADIUS, MAXIMUM STABILITY

Whether for extensive loading work or in the tightest of spaces, the SY80U short-tail excavator from SANY always performs well. Thanks to its short rear design with a minimum rear swing radius, the operator can concentrate fully on the work area without having to constantly pay attention to the rear. This allows the machine to be operated safely in confined spaces or very close to obstacles.

The optional adjustable boom and additional counterweight allow for high stability, long reach and high dumping heights with elevated bucket positions – perfect for quick and easy loading of lorries. In addition, it is possible to work against the blade, which greatly facilitates the collection of debris. With this equipment, the range of tasks can be expanded without having to change machines.

Our outstanding features. The advantages of SANY Plus:

- + Short-swing excavator particularly compact
- + Adjustable boom for greater reach
- + Comfortable driver's cab
- + Hydraulic preparation for quick-change coupling system
- + 2 proportional control circuits on the joysticks
- + LED work lights
- + Gear shift on lever with labels



SAFETY

Safety increases productivity

The SY80U makes no compromises when it comes to safety. Standard safety equipment includes cylinder covers, a rear camera covering the rear working area, and safety valves on the adjustable equipment, enabling safe lifting.

The ROPS or FOPS-certified driver's cab with a wide field of vision for the user, safety valves and lockable protective covers are also included as standard.

Maintenance and servicing of the SY80U can be carried out easily and efficiently, and to complete the safety features, rotating or hot engine components are protected against accidental access.



EASE OF USE

COMFORTABLE DRIVER'S CAB

The high-back driver's seat provides the driver with a comfortable working environment and minimises signs of fatigue. The controls are ergonomically designed: they are clearly arranged and easy to reach, allowing the driver to work with maximum productivity.



Clarity is also a feature of the new 7" touchscreen: the driver can find all important information at a glance.

The joysticks with two proportional control circuits are also part of the standard equipment and enable safe and precise control of the machine, including all auxiliary devices. The ergonomically positioned joystick for the push blade with integrated gear shift makes it even easier and more effective to adapt the machine to the specific working situation.

COMPONENTS

Well equipped for the long term

The reliable YANMAR engine complies with the latest exhaust emission standards and is discreetly located at the rear of the machine. However, all important service points are easily accessible. Electronic fan control ensures minimal noise emissions and reduced fuel consumption. The standard LED headlights not only make night-time work as easy as daytime, but also withstand the demanding conditions to which the SY80U is exposed on a daily basis.

COMPONENTS

Ready for the tough routine of the construction site

The robustness of the machine can be seen, for example, in the solid design of the adjustable boom. Added to this is a careful finish and millimetre-precise weld seams made by robots. The result is an extremely long service life for the mechanism, joints, pulleys and all other components subjected to high loads.



PROFITABILITY

Ease of service in all aspects

All important points for routine inspection and maintenance can be conveniently accessed from the ground. The lubrication points are reasonably located and easily accessible. This means that regular servicing can be carried out quickly and safely, increasing the availability and service life of the machine and ensuring that both the operator and the equipment are protected in the long term.

Another advantage: the complete pre-installation of the hydraulic system for the quick-change device ensures cost-effective adaptation of the quick-change system.



PROFITABILITY

Profitability in every task

Automatic speed adjustment helps minimise fuel consumption without compromising performance. The load-sensing hydraulic system provides greater hydraulic power with less loss. And it does so with 'feel': the system regulates flow and pressure according to requirements.



ENGINE

Model	YANMAR 4TNV98CT-VSY
Type	Water-cooled, 4-cylinder, with common rail injection and DPF
Emissions standard	Stage V
Power	53.7 kW / 2100 r. p. m.
Maximum torque	290 Nm / 1350 r. p. m.
Engine capacity	3 318 ccm
Battery	1 x 12 V / 120 Ah

HYDRAULIC SYSTEM

Main pump	Variable axial piston pump, controlled by the Load Sensing system
Max. oil flow	190 l/min
Travel drive	Variable axial piston motor
Swing motor	Axial piston motor
Max. oil flow (AUX 1)	100 l/min
Max. oil flow (AUX 2)	70 l/min

SERVICE FILLING QUANTITIES

Fuel tank	100 l
Engine coolant	12 l
Engine oil	8.5 l
Travel drive (per side)	1.1 l
Hydraulic system	190 l
Hydraulic oil tank	120 l

POWER

Swing speed	10 r. p. m.
Max. travel speeds	Fast 4.5 km/h, slow 2.5 km/h
Max. traction force	70 kN
Lifting capacity	35°
Bucket capacity	0.28 m³
Ground pressure	0.38 kg/cm²
Max. bucket breakout force ISO	62.3 kN
Max. arm traction force ISO	40.5 kN

PRESSURE LIMITING VALVES

Boom circuit	280 bar
Swing circuit	215 bar
Travel circuit	280 bar
Pilot circuit	35 bar

UNDERCARRIAGE AND SUPERSTRUCTURE

Boom length	3520 mm
Arm length	2050 mm
Rollers	4
Support rollers	1
Swivel system	Planetary gear driven by axial piston motor, hydraulically operated automatic parking brake

OPERATING WEIGHT

Operating weight	8800 kg
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LOWER THRUST BLADE LOAD CAPACITY

Loading point height	Radio				Maximum	
	4.0 m	5.0 m	6.0 m	Range		mm
6.0 m	2047*	2996*		1169*	1974*	4651*
5.0 m		1960	1960	1800	1338	1710 1325 5025
3.0 m	2067*	3154*	1394*	3160*		928* 1528* 5607*
1.0 m	3100	3100	2540	1875	2275	1315 1585 930 6106
	1858*	3569*	1302*	3185*	958*	796* 1381* 6579*
Floor line	4325	2450	3745	1650	2845	1205 1750 855 6297
	1538*	3609*	1136*	2856*	870*	3266* 739* 1260* 6756*
-1.0 m	4850	2390	4020	1590	2995	1170 1965 885 6109
	1463*	3470*	1082*	2673*	801*	1719* 739* 984* 6583*
-2.0 m	5670	2360	3950	1550	2935	1140 2370 995 5707
	1444*	3434*	1063*	2635*	836*	2057* 802* 1067* 6218*
-3.0 m	4915	2375	3490	1550	2445	1150 2400 1185 5031
	1467*	3478*	1081*	2671*		942* 1249* 5618*
	3385	2450				2290 1735 3899
	1544*	3620*				1271* 1682* 4669*

UPPER THRUST BLADE LOAD CAPACITY

Loading point height	Radio				Maximum	
	4.0 m	5.0 m	6.0 m	Range		mm
6.0 m	2047*	1781*		1169*	1529*	4651*
5.0 m		1960	1960	1800	1338	1710 1325 5025
3.0 m	2067*	1875*	1394*	1817*		928* 1183* 5607*
1.0 m	3100	3100	2540	1875	1770	1315 1285 930 6106
	1858*	2100*	1302*	1720*	958*	1064* 796* 1069* 6579*
Floor line	3595	2450	2305	1650	1655	1205 1170 855 6297
	1538*	2123*	1136*	1542*	870*	1179* 739* 982* 6756*
-1.0 m	3525	2390	2240	1590	1615	1170 1215 885 6109
	1463*	2014*	1082*	1485*	801*	955* 739* 767* 6583*
-2.0 m	3490	2360	2195	1550	1585	1140 1360 995 5707
	1444*	2020*	1063*	1464*	836*	1143* 802* 832* 6218*
-3.0 m	3510	2375	1550	1550	1600	1150 1630 1185 5031
	1467*	2046*	1081*	1484*		942* 974* 5618*
	3385	2450				2290 1735 3899
	1544*	2130*				1271* 1312* 4669*

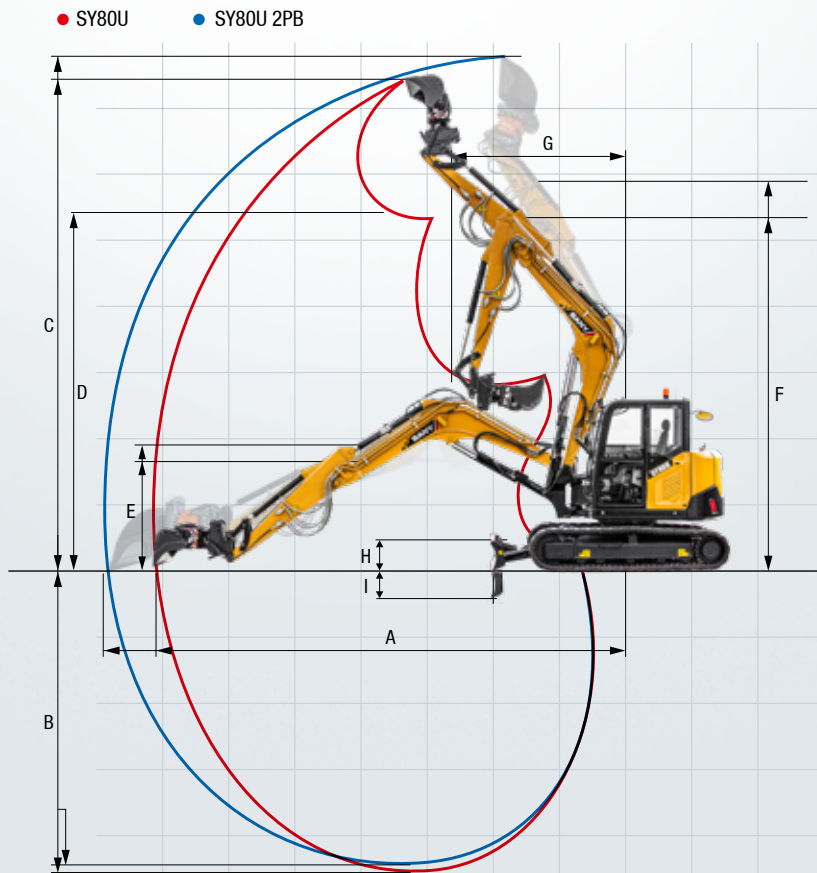
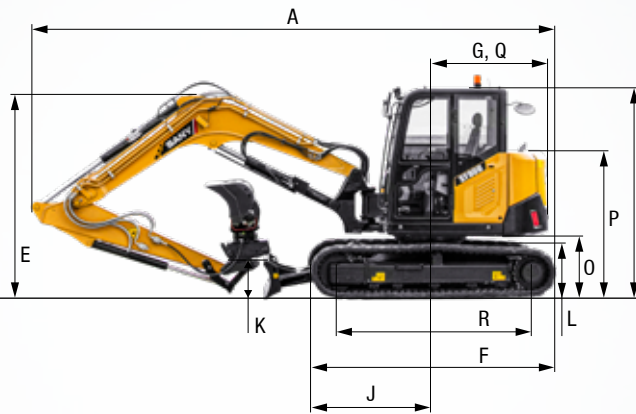
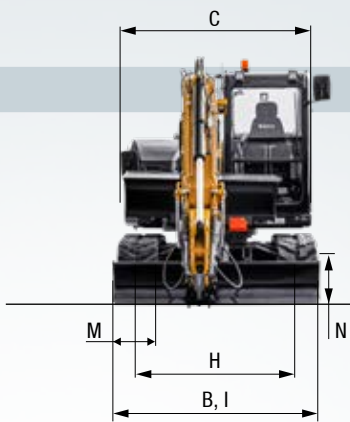
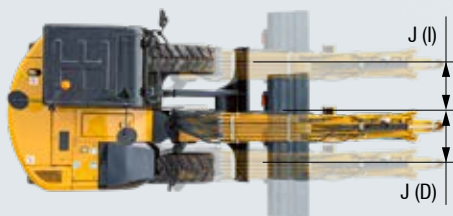
* SY80U 2PB

DIMENSIONS

A Overall length	7010 mm
B Overall width	2200 mm
C Overall width of superstructure	2150 mm
D Overall height above cab	2550 mm
E Overall height of boom	2220 mm
F Length of undercarriage	2915 mm
G Rear length	1480 mm
H Wheelbase	1750 mm
I Undercarriage width (pusher blade)	2200 mm
J Horizontal distance to pusher blade	2080 mm
K Pusher blade height	460 mm
L Track height	660 mm
M Track plate width	450 mm
N Minimum ground clearance	365 mm
O Counterweight ground clearance	745 mm
P Engine bonnet height	1880 mm
Q Turning radius	1480 mm
R Distance (centre) between track wheel and guide wheel	2315 mm

WORK AREA

A Max. reach	7290 mm
B Max. digging depth	4535 mm
C Max. lift height	7315 mm
D Max. dumping height	5430 mm
E Min. dumping height	1915 mm
G Total height with min. swing radius	5490 mm
G Swing radius on swing bracket (I)	1830 mm
Swing radius on swing bracket (D)	2035 mm
Min. swing radius	2435 mm
H Max. lift of push blade above ground	480 mm
I Max. penetration of push blade	325 mm
J Swivel support displacement range (I)	636 mm
Swivel support displacement range (D)	740 mm
Max. boom swing angle (I)	65°
Max. boom swing angle (D)	51°



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.

Enormous versatility

Many standard and factory-fitted components are already included, allowing for flexible use. It is also ready for the addition of a hydraulic quick-change system.



EASE OF OPERATION / CABIN

Seat with suspension	●
Heating	●
Manual air conditioning*	●
Radio with loudspeaker	●
Armrests, adjustable	●
12 V connection	●
USB connection (music)	●
Windscreen wipers	●
Additional control circuit 1 on control lever	●
Additional control circuit 2 on control lever	●
Pressure switch for start/stop system	●
8 implement settings	●

SAFETY

Battery disconnect switch	●
Camera	●
Motion alarm	●
Omnidirectional lights	●

ENGINE

Automatic speed adjustment	●
Diesel particulate filter	●
DPF	●
DOC	●
Air filter	●

Standard equipment ● Special option ●

Note: Non-binding information document. The values indicated are theoretical maximum values. Specifications subject to change without prior notice.
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* The air conditioning system contains fluorinated greenhouse gases. Refrigerant type: HFC-134a, global warming potential: 1430, quantity: 0.775 kg, CO₂e: 1.11 t

TASK LIGHTING

LED work light, front roof	●
LED work light, boom	●

UNDER CARRIAGE

Rubber chain	●
Steel chain	●
Fastening rings	●

HYDRAULIC SYSTEM

Swing brake	●
2 travel speeds	●
Tubes for additional control circuit 1	●
Tubes for additional control circuit 2	●
Main filter	●
Hydraulic servo control for joystick	●
Filter for control circuit	●

WORK EQUIPMENT

Safety valves on boom and arm	●
Double-acting hydraulic circuit for quick coupling, including hose system	●
Hammer installation	●
Part installation	●
Refuelling pump	●
Adjustable oil flow for auxiliary devices	●
Push blade	●
Adjustable boom with safety valves	●
Cylinder protection, arm	●

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

Parts supply: fast and reliable

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



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 **SY80U**

A BORN WORKER

The SY80U short-swing excavator has been tailored precisely to the demands of tough everyday use on construction sites. Its impressive versatility is demonstrated when digging, loading or breaking, while the rotating boom, short rear design and adjustable equipment highlight its agility. In addition to its compact structure, it impresses with its first-class power, low fuel consumption and outstanding operating comfort.



FOR THE MOST DEMANDING REQUIREMENTS

All components have been designed to withstand **maximum loads**. **Careful processing, high-quality materials** and perfect weld seams made by welding robots guarantee this.

IN THE NARROWEST PLACES

The **robust slewing support** is the crucial point for all jobs. In addition to its **compact overall dimensions** and **minimum turning radius**, the short-swing excavator stands out for its **compact manoeuvrability**.

MAINTENANCE AND SERVICE

Full concentration and **maximum safety** are the top priorities on a construction site. The SY80U's workplace offers the best conditions for the machine operator: from a **comfortable driver's seat** to a **large, easy-to-read monitor** and **precise control levers** with extremely accurate response.

SAFETY COMES FIRST

It offers a comprehensive programme for everything, minimising risk to the driver in the cab and the machine environment on site. This includes an **optimal panoramic view** as well as **LED work lighting, safety valves and cylinder covers**.

RELIABLE STRENGTH

Thanks to its **powerful YANMAR engine**, SANY's small compact excavator is **optimally equipped for big jobs**.

GREATER SAVINGS, LOWER CONSUMPTION

Automatic speed control reduces fuel consumption, engine wear and exhaust emissions (Stage V emissions). This results in **lower fuel consumption** and **exemplary low-cost operation** over the entire service life.

KEY TECHNICAL FEATURES

Engine	YANMAR 4TNV98CT-VSY
Power	53.7 kW / 2100 r. p. m.
Maximum torque	290 Nm / 1350 r. p. m.
ISO bucket breakout force	62.3 kN
Rotational speed	10 r. p. m.
Main pump	Variable axial piston pump
Maximum oil flow	190 l/min



"A POWERFUL, EFFICIENT 9-TONNE MACHINE WITH ABSOLUTELY PRECISE CONTROL."

Gilbert Fusini (Chief Executive Officer) – SARL Louis Fusini et fils

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